

APPENDIX C

GREENPATH IR CAMERA INSPECTION REPORT

Third-Party Verification Final Audit Report First Audit

Noble Energy, Inc.
1625 Broadway, Suite 2200
Denver, CO 80202

November 5, 2018

2016 Noble Energy Consent Decree Tank Systems IR Inspections

CONFIDENTIAL BUSINESS INFORMATION

Prepared for: SLR International Corporation
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Prepared by: Joshua Anhalt, President
GreenPath Energy Ltd.

Date: February 1, 2017



EXECUTIVE SUMMARY

This report presents the results of the Noble Energy (Noble) 2016 Tank Systems IR Inspections conducted by GreenPath Energy Ltd. (GreenPath). The purpose of GreenPath's work was to detect and document potential sources of un-wanted VOC emitting from Noble's Tank systems. Following Table 1 provides overview of the client general locations and total count of facilities and supporting assets inspected for unwanted VOC emission sources by GreenPath.

Client	Noble Energy	
GreenPath Emission Technologist	Joshua Anhalt	
General Location of Client Facilities Inspected	Greeley, Colorado and surrounding area	
Date of Tank System Inspections	August 1 – September 12, 2016	
Total # of Facilities Inspected	81	
Total # Tanks Inspected	582	
Total # of Tank VOC Combustors & Associated Facility Piping Inspected	246	
Total # Point Source VOC Emissions Detected	Detected by GreenPath	81

Table 1: Summary of GreenPath Work Results

DISCLAIMER

While reasonable effort has been made to ensure the accuracy, reliability and completeness of the information presented herein, this report is made available without any representation as to its use in any particular situation and on the strict understanding that each reader accepts full liability for the application of its contents, regardless of any fault or negligence of GreenPath Energy Ltd and subsidiary GreenPath Energy LLC.

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INTRODUCTION

This report outlines the results of Noble Energy (Noble) Facility Tank System IR inspections conducted by GreenPath Energy Ltd. (GreenPath) in 2016 from August 1-September 12, 2016.

This work completed by GreenPath was conducted as per Noble’s work plan submitted to the United States Environmental Protection Agency (EPA) and the Colorado Department of Public Health and Environment (CDPHE) consistence with the requirements of Section IV of the Consent Decree (CD) between EPA, CDPHE and Noble, Civil Action No. 1:15-cv-00841-RBJ.

GREENPATH EMISSION TECHNOLOGIST

Facility tank system inspection were completed by Joshua Anhalt.

Mr. Anhalt who is the prime principal of GreenPath Energy Ltd. is an Energy and Environmental Specialist with over 16 years in oil & gas energy sector, coupled with a Red Seal Journeyman Instrumentation background and extensive experience in fugitive emissions, regulations and emission mitigation.

Mr. Anhalt hold certification by the International Training Center (ITC) as Certified GasFindIR Thermographer and has eight years of oil and gas optical leak detection experience.

GREENPATH ONSITE INSPECTION METHODOLOGY

GreenPath IR Equipment

The following table provides overview of the optical gas imaging infrared camera utilized by GreenPath Emission Technologist. The IR camera design and purpose is to visually detect source of hydrocarbon VOC emission sources and meet the equipment requirements set forth in the CD work plan.

Make	FLIR
Model	GF320
Serial #	44400872
Lens	Standard: 24° × 18
Date of Last Manufacture Service	December 17, 2014
Manufacture Recommended Service Interval	FLIR cameras require minimal maintenance and calibration. Based on manufacture experience the mean time between failures for the FLIR GF320 is 10,000 operating hours

Table 2: GreenPath Forward Looking Optical Gas Imaging Camera

GreenPath Pre-Work Considerations

Prior to commencement of work at each individual facility location, GreenPath Emission Technologist would assess the following site factors:

1. Environmental & weather Conditions, particularly wind speed/direction and cloud cover;
2. Site specific safety considerations;
3. Scope and nature of work being completed by other workers simultaneously while onsite;
4. Location and accessibility of Tank VOC containment components and associated piping.

In addition to GreenPath assessing individual site factors, GreenPath and on-site Noble representative would complete onsite safety permits for each facility locations.

GreenPath Facility Tank System Inspection Approach

GreenPath utilized a consistent facility tank system inspection and detected emission communication approach at each of the individual facility locations. Systematically GreenPath would:

1. Survey each individual tank
 - a. Document tank ID #
 - b. Visualize tank with FLIR GF320
 - i. GreenPath Technologist would utilize the FLIR GF320 camera eye piece as opposed to the flip out LCD screen as to reduce glare from sunlight and would view each individual tank for minimum 30 seconds. In all cases the GF320 was operating in High Sensitivity Mode (HSM). Particular attention was given to those tank components that would be a potential source of VOC emissions. Tank components included:
 1. Thief Hatch Assemblies
 2. PSV/PRV's
 3. Threaded & Flanged pipe and process connections
 4. Tank truck out VOC manifold connections
 - ii. After visualization of the tank for 30 seconds, GreenPath Technologist then recorded a 30 second continuous video of the individual tank and supporting components even if no emission source was detected. IR videos were directly recorded to GF320 onboard SD card storage;
2. Survey tank system manifold piping and liquid knock out
 - a. Document tank system manifold piping and liquid knock out
 - b. Visual tank system manifold piping and liquid know out.
 - i. As with each tank inspected, GreenPath Technologist utilized the GF320 camera to inspect for VOC emission sources. Particular attention was given to the components that would be of potential source of VOC emissions. Components included:
 1. Tank pipe manifold flanged and treaded connections;
Liquid knockout blow case and supporting components
 2. Tank VOC manifold connected to VOC combustors
 - ii. After visualization of the tank manifold piping and knock out for 30 seconds, GreenPath Technologist then recorded a 30 second continuous video of the individual and supporting components even if no emission source was detected. IR videos were directly recorded to GF320 onboard SD card storage;
3. Survey tank VOC combustors and manifold piping
 - a. Document each tank VOC combustor
 - b. Visualize combustor and manifold piping with FLIR GF320
 - i. As with method listed above, GreenPath Technologist utilized the GF320 camera to inspect tank VOC combustor and manifold piping for VOC emission sources. Particular attention was given to the components that would be of potential source of VOC emissions. Components included:
 1. Combustor threaded & mechanical connections
 2. Piping unions and threaded connection;

- ii. After visualization of the tank VOC combustors and manifold piping, GreenPath Technologist then recorded a 30 second continuous video of the individual and supporting components even if no emission source was detected. IR videos were directly recorded to GF320 onboard SD card storage;

GreenPath Emission Detection Identification & Communication Approach

When GreenPath Technologist detected a VOC emission source the following sequence would be followed:


1. GreenPath and with support of on-site personnel would determine if the detected emission source was associated tank VOC integrity system as per the requirements set for in the consent decree work plan. To confirm source, GreenPath would:
 - a. Visualize the emission source from multiple angles with GF320 as to confirm the exact location of the source;
 - b. Conduct a bubble leak test. If leaking emission source was accessible and posed no danger to personnel, GreenPath Technologist would spray a non-toxic soap solution on the component of interest to conduct a bubble leak test and isolate the exact source of the VOC emission. In events were there was multiple threaded connections in close proximity in the area of initial detection, GreenPath technologist would spray all connection with the soapy solutions to ensure all potential leaks sources were identified;
 - c. Document a written description of the emission source and associate with the unique serial # of the media file generated by the GF320;
 - d. Attached a serialize leak tag as close as possible to leaking component. Each leak tag contained the date, serial # and written description of the emission source.
2. Information regarding leaking VOC emission source was communicated via direct phone call to:
 - a. Noble on-site representative and;
 - b. Noble LDAR Dispatch Contacts:
 - i. Sarah Koziolkowsky
 - ii. Sara Fessenden

GreenPath Facility Tank System Data Capture & Reporting

GreenPath Emission Technologist utilized a consistent inspection data & media capture process during the course of the facility tank system inspection campaign.

1. Daily, GreenPath Emission Technologist populated and updated an XLS tracking workbook based on written notes and supporting data captured while on-site. The XLS file captured:
 - a. Inspection date
 - b. Facility location
 - c. Tank Battery Name
 - d. Noble LOD ID
 - e. Tank system ID #
 - f. Line pressure (If available)
 - g. Well dump cycle initiated for test (If applicable)
 - h. Well type
 - i. Facility system inspected
 - j. Process description

- k. Noble equipment ID #
 - l. Emission detected?
 - m. Emission description
 - n. Component type leaking
 - o. FLIR GF320 media serial #
 - p. GreenPath leak tag serial #
 - q. Inspection date
 - r. Tank ID #
 - s. Tank manifold, liquid knock out VRT assets surveyed
 - t. FLIR GF320 IR video serial # associated with tank system equipment surveyed
 - u. Leak tag serial #
 - v. Noble Notification phone call
 - w. Noble personnel notified
2. Daily, GreenPath Technologist transferred FLIR GF320 media from SD storage card to external hard drive;
 3. Compiled data & media GreenPath were transferred to SLR project personnel for review and further analysis and retrieval.



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Original Date	21-Sep-16
Revised Date	7-Sep-18
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Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	61366735	No	No leaks detected	n/a	3946	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6137793	No	No leaks detected	n/a	3947	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138169	No	No leaks detected	n/a	3948	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748505	Yes	Tank thief hatch leaking	Thief Hatch	4239	102932	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly and spring. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	28-64	No	No leaks detected	n/a	3950	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	28-63	No	No leaks detected	n/a	3952	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6136960	No	No leaks detected	n/a	3953	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138197	No	No leaks detected	n/a	3954	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6136697	No	No leaks detected	n/a	3955	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138198	No	No leaks detected	n/a	3956	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Tank	Oil Tank	11857	Yes	Tank thief hatch leaking	Thief Hatch	4313	102936	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Applied soap to detect bubble in at the bushing, pressured the separator, and reinspected with IR camera. No leak found.
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138199	No	No leaks detected	n/a	3958	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Piping	North Tank Bank Manifold Piping	n/a	No	No leaks detected	n/a	3959	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	3960	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Piping	South Tank Bank Manifold	n/a	No	No leaks detected	n/a	3961	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	04796.A	No	No leaks detected	n/a	3962	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	04796.B	No	No leaks detected	n/a	3963	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379636	No	No leaks detected	n/a	3965	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379437	No	No leaks detected	n/a	3966	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379438	No	No leaks detected	n/a	3967	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	North Bank	No	No leaks detected	n/a	3968	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379420	No	No leaks detected	n/a	3969	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379420	No	No leaks detected	n/a	3970	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Tank	Oil Tank	3611011	Yes	Tank pressure sensor 4x1 Bushing Threads into tank	Connection-Threaded	4317	102937	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Rebuilt thief hatch center assembly, replaced thief hatch envelope gasket, and cleaned all thief hatch components. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Piping	South Tank Bank Manifold Piping	n/a	No	No leaks detected	n/a	3972	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Piping	North Tank Manifold Piping	n/a	No	No leaks detected	n/a	3973	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	3974	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	04796.A	No	No leaks detected	n/a	3975	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	91242	Yes	Tank PRV found leaking before and after well cycle	PRV	4513	102954	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced PRV. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568459	No	No leaks detected	n/a	3977	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568460	No	No leaks detected	n/a	3978	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10570177	No	No leaks detected	n/a	3979	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
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Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097249	No	No leaks detected	n/a	3981	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097259	No	No leaks detected	n/a	3982	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097257	No	No leaks detected	n/a	3983	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097242	No	No leaks detected	n/a	3984	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097243	No	No leaks detected	n/a	3985	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097248	No	No leaks detected	n/a	3986	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097246	No	No leaks detected	n/a	3987	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097240	No	No leaks detected	n/a	3988	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097241	No	No leaks detected	n/a	3989	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097245	No	No leaks detected	n/a	3990	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank Load Out Manifold	n/a	Yes	Tank load out manifold. Isolation ball valve passing gas to flex hose.	Valve - Ball	3991	No Tag	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Scott Jones - Noble	9/13/2016	Joshua Anhalt	Closed isolation ball valve. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097244	No	No leaks detected	n/a	3992	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097250	No	No leaks detected	n/a	3993	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097251	No	No leaks detected	n/a	3994	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097254	No	No leaks detected	n/a	3995	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097252	No	No leaks detected	n/a	3996	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097256	No	No leaks detected	n/a	3997	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097253	No	No leaks detected	n/a	3998	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1097247	No	No leaks detected	n/a	3999	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568472	No	No leaks detected	n/a	4000	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568474	No	No leaks detected	n/a	4001	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568471	No	No leaks detected	n/a	4002	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4003	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal		Produced Water Incinerator	23237	No	No leaks detected	n/a	4007	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal		Produced Water Incinerator	23236	No	No leaks detected	n/a	4006	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 LO1	2342	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	B-6530	No	No leaks detected	n/a	4005	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	B-6550	No	No leaks detected	n/a	4004	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #4	B-6550	No	No leaks detected	n/a	4008	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-09	EAGLE RELIANCE SENECA TAHOMA ECONODE 6N-R65-S14 L01	2342	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #3	B-6540	No	No leaks detected	n/a	4009	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	HOFFMAN T4N-R64W-S2 L01	664	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	3133694	No	No leaks detected	n/a	4011	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	HOFFMAN T4N-R64W-S2 L01	664	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	3133857	No	No leaks detected	n/a	4013	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	HOFFMAN T4N-R64W-S2 L01	664	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6135574	No	No leaks detected	n/a	4014	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	HOFFMAN T4N-R64W-S2 L01	664	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4015	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	HOFFMAN T4N-R64W-S2 L01	664	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4016	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	66	No	No leaks detected	n/a	4017	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	67	No	No leaks detected	n/a	4018	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139239	No	No leaks detected	n/a	4019	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139172	No	No leaks detected	n/a	4020	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140450	No	No leaks detected	n/a	4022	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139065	No	No leaks detected	n/a	4023	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139066	No	No leaks detected	n/a	4024	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139122	No	No leaks detected	n/a	4025	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139124	No	No leaks detected	n/a	4026	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139123	No	No leaks detected	n/a	4027	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140378	No	No leaks detected	n/a	4028	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	65	No	No leaks detected	n/a	4029	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	64	No	No leaks detected	n/a	4030	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4031	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	5901021	No	No leaks detected	n/a	4032	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-08	FRANKIE T4N-R65W-S4 L01	2043	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4033	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	360980	Yes	Tank thief hatch leaking	Thief Hatch	4549	102959	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and clean center assembly. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140542	No	No leaks detected	n/a	4038	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140545	No	No leaks detected	n/a	4039	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139963	No	No leaks detected	n/a	4040	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139985	No	No leaks detected	n/a	4041	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140546	No	No leaks detected	n/a	4042	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140544	No	No leaks detected	n/a	4043	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	378796	Yes	Tank thief hatch leaking	Thief Hatch	4551	102960	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and clean center assembly. Allowed well and system to repressure before retesting.
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4045	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	5901401	No	No leaks detected	n/a	4046	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	5901408	No	No leaks detected	n/a	4047	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	West Bank	No	No leaks detected	n/a	4054	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	613960	No	No leaks detected	n/a	4049	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	39984	No	No leaks detected	n/a	4050	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	39983	No	No leaks detected	n/a	4051	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	39862	No	No leaks detected	n/a	4052	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C4	C3-05	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L02	550	n/a	211	#21-3J	0.5	Vertical	Tank	Oil Tank	10211158	Yes	Tank thief hatch leaking	Thief Hatch	4802	n/a	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4055	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	5901877	No	No leaks detected	n/a	4056	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140257	No	No leaks detected	n/a	4057	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140145	No	No leaks detected	n/a	4058	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140123	No	No leaks detected	n/a	4059	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C6	C3-07	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L04	552	n/a	213	#21-3J	0.5	Vertical	Tank	Oil Tank	10211132	Yes	Tank thief hatch leaking	Thief Hatch	4804	n/a	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4061	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	20562	No	No leaks detected	n/a	4063	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	66031	No	No leaks detected	n/a	4064	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C7	C3-08	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L05	553	n/a	214	#21-3J	0.5	Vertical	Tank	Oil Tank	10252264	Yes	Tank thief hatch leaking	Thief Hatch	4805	n/a	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C9	C3-10	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L07	555	n/a	216	#21-3J	0.5	Vertical	Tank	Oil Tank	90671	Yes	Tank thief hatch leaking	Thief Hatch	4807	n/a	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379402	No	No leaks detected	n/a	4067	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water	South Bank	Yes	Flange upstream of 4-way	Connection - Flange	3971	102919	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced leaking bushing from the knockout tank on the burner.
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379400	No	No leaks detected	n/a	4069	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379398	No	No leaks detected	n/a	4070	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379417	No	No leaks detected	n/a	4071	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379427	No	No leaks detected	n/a	4072	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379432	No	No leaks detected	n/a	4073	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379428	No	No leaks detected	n/a	4074	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379439	No	No leaks detected	n/a	4075	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379441	No	No leaks detected	n/a	4076	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379440	No	No leaks detected	n/a	4077	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	66034	No	No leaks detected	n/a	4078	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	66036	No	No leaks detected	n/a	4079	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4080	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	5902199	No	No leaks detected	n/a	4081	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	5902267	No	No leaks detected	n/a	4082	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	121112	No	No leaks detected	n/a	4083	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140446	No	No leaks detected	n/a	4084	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140448	No	No leaks detected	n/a	4086	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138824	No	No leaks detected	n/a	4087	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138823	No	No leaks detected	n/a	4088	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6138847	No	No leaks detected	n/a	4089	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140380	No	No leaks detected	n/a	4091	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	121078	No	No leaks detected	n/a	4092	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4093	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	6906137	No	No leaks detected	n/a	4094	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	LUCCI ST T5N-R64W-S1 L01	301	4	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	6906129	No	No leaks detected	n/a	4095	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361206	No	No leaks detected	n/a	4096	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361207	No	No leaks detected	n/a	4097	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361208	No	No leaks detected	n/a	4098	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361203	No	No leaks detected	n/a	4099	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361204	No	No leaks detected	n/a	4100	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361205	No	No leaks detected	n/a	4101	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361200	No	No leaks detected	n/a	4102	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	361201	No	No leaks detected	n/a	4103	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4104	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	14354	No	No leaks detected	n/a	4105	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	WACKER T5N-R64W-S11 L02	298	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	14355	No	No leaks detected	n/a	4106	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139320	No	No leaks detected	n/a	4107	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139304	Yes	Tank thief hatch leaking	Thief Hatch	4109	102926	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Eric Huss - Noble	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket. Allowed well and system to repressure before retesting.
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139400	No	No leaks detected	n/a	4110	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139369	No	No leaks detected	n/a	4111	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139399	No	No leaks detected	n/a	4112	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139368	No	No leaks detected	n/a	4113	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4114	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139398	No	No leaks detected	n/a	4115	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139419	No	No leaks detected	n/a	4116	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6139305	No	No leaks detected	n/a	4117	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	#1	No	No leaks detected	n/a	4118	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	#2	No	No leaks detected	n/a	4119	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	#3	No	No leaks detected	n/a	4120	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	13094	No	No leaks detected	n/a	4121	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	NAKAGAWA T5N-R64W-S1 L01	2048	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	19004	No	No leaks detected	n/a	4122	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1059	No	No leaks detected	n/a	4123	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1072	No	No leaks detected	n/a	4124	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141467	No	No leaks detected	n/a	4125	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141473	No	No leaks detected	n/a	4126	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141472	No	No leaks detected	n/a	4127	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141433	No	No leaks detected	n/a	4128	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141434	No	No leaks detected	n/a	4129	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141405	No	No leaks detected	n/a	4130	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141407	No	No leaks detected	n/a	4131	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141387	No	No leaks detected	n/a	4132	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141304	No	No leaks detected	n/a	4133	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141284	No	No leaks detected	n/a	4134	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141266	No	No leaks detected	n/a	4135	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141282	No	No leaks detected	n/a	4136	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141285	No	No leaks detected	n/a	4137	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141306	No	No leaks detected	n/a	4138	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1034	No	No leaks detected	n/a	4139	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1062	No	No leaks detected	n/a	4140	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4141	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	11869	No	No leaks detected	n/a	4142	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	19942	No	No leaks detected	n/a	4143	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-04	HOLMAN COCKROFT T5N-R64W-S15 L01	2074	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #3	20552	No	No leaks detected	n/a	4144	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486612	No	No leaks detected	n/a	4145	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486621	No	No leaks detected	n/a	4147	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486678	No	No leaks detected	n/a	4149	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486616	No	No leaks detected	n/a	4151	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486611	No	No leaks detected	n/a	4153	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486680	No	No leaks detected	n/a	4146	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486618	No	No leaks detected	n/a	4148	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486662	No	No leaks detected	n/a	4150	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486618	No	No leaks detected	n/a	4152	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	CECIL FARMS T6N-R66W-S6 L02	2365	n/a	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	04796.B	Yes	3x2 bushing threads out of scrubber pot upstream of flame arrestor	Connection-Threaded	3976	102941	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced leaking bushing from the knockout tank on the burner.
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	464	No	No leaks detected	n/a	4155	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	466	No	No leaks detected	n/a	4156	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	470	No	No leaks detected	n/a	4157	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	467	No	No leaks detected	n/a	4158	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	21017	No	No leaks detected	n/a	4159	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	21016	No	No leaks detected	n/a	4160	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #3	21015	No	No leaks detected	n/a	4161	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1071	No	No leaks detected	n/a	4163	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	1104	No	No leaks detected	n/a	4164	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141459	No	No leaks detected	n/a	4165	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141438	No	No leaks detected	n/a	4166	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141453	No	No leaks detected	n/a	4167	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141451	No	No leaks detected	n/a	4168	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141452	No	No leaks detected	n/a	4169	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141450	No	No leaks detected	n/a	4170	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141460	No	No leaks detected	n/a	4171	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141466	No	No leaks detected	n/a	4172	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141468	No	No leaks detected	n/a	4173	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141469	No	No leaks detected	n/a	4174	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141458	No	No leaks detected	n/a	4175	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141457	No	No leaks detected	n/a	4176	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1100	No	No leaks detected	n/a	4177	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	1103	No	No leaks detected	n/a	4178	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4179	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	5901204	No	No leaks detected	n/a	4180	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-01	TREBOR T5N-R64W-S11 L01	2065	3	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4181	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Produced Water Tank	#1 NE TANK	Yes	Tank thief hatch leaking	Thief Hatch	4828	101287	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	KODAK T6N-R67W-S35 L01	1684	n/a	215	KODAK 35-21	0.1875	Vertical	Tank	Oil Tank	11803	No	No leaks detected	n/a	4184	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	KODAK T6N-R67W-S35 L01	1684	n/a	215	KODAK 35-21	0.1875	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4185	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	KODAK T6N-R67W-S35 L01	1684	n/a	215	KODAK 35-21	0.1875	Vertical	Combustor	Tank Incinerator #1	14-SCG-06-31/64	No	No leaks detected	n/a	4186	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	KODAK T6N-R67W-S35 L01	1684	n/a	215	KODAK 35-21	0.1875	Vertical	Combustor	Tank Incinerator #2	14-SCG-06-39/64	No	No leaks detected	n/a	4187	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Tank	Oil Tank	98361	No	No leaks detected	n/a	4188	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Tank	Oil Tank	98373	No	No leaks detected	n/a	4189	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Tank	Oil Tank	90581	No	No leaks detected	n/a	4190	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4191	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Combustor	Tank Incinerator #1	1789	No	No leaks detected	n/a	4193	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	ROACH BASS T5N-R67W-S35 L01	26	n/a	225	BASS N14-10	0.5	Vertical	Combustor	Tank Incinerator #2	10600	No	No leaks detected	n/a	4194	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	GOLDBERG T5N-R67W-S14 L01	24	n/a	250	GOLDBERG N14-11	0.5	Vertical	Tank	Oil Tank	98702	No	No leaks detected	n/a	4195	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	GOLDBERG T5N-R67W-S14 L01	24	n/a	250	GOLDBERG N14-11	0.5	Vertical	Tank	Oil Tank	9625	No	No leaks detected	n/a	4196	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	GOLDBERG T5N-R67W-S14 L01	24	n/a	250	GOLDBERG N14-11	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	N/A	No	No leaks detected	n/a	4197	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	GOLDBERG T5N-R67W-S14 L01	24	n/a	250	GOLDBERG N14-11	0.5	Vertical	Combustor	Tank Incinerator #1	1480	No	No leaks detected	n/a	4199	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	GOLDBERG T5N-R67W-S14 L01	24	n/a	250	GOLDBERG N14-11	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-43/136	No	No leaks detected	n/a	4200	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	BORESEN DETIENNE T5N-R67W-S12 L01	2264	n/a	250	BORESEN 1	0.5	Vertical	Tank	Oil Tank	6746215	No	No leaks detected	n/a	4202	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	BORESEN DETIENNE T5N-R67W-S12 L01	2264	n/a	250	BORESEN 1	0.5	Vertical	Tank	Oil Tank	6746621	No	No leaks detected	n/a	4203	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	BORESEN DETIENNE T5N-R67W-S12 L01	2264	n/a	250	BORESEN 1	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4204	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	BORESEN DETIENNE T5N-R67W-S12 L01	2264	n/a	250	BORESEN 1	0.5	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4205	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	AL-04	BORESEN DETIENNE T5N-R67W-S12 L01	2264	n/a	250	BORESEN 1	0.5	Vertical	Combustor	Tank Incinerator #2	5803041	No	No leaks detected	n/a	4206	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Tank	Oil Tank	4208	No	No leaks detected	n/a	4208	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	[REDACTED]
email:	[REDACTED]
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Tank	Oil Tank	4211	No	No leaks detected	n/a	4211	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Tank	Oil Tank	4209	No	No leaks detected	n/a	4209	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	102282252	Yes	Tank thief hatch leaking	Thief Hatch	4826	101288	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4212	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Combustor	Tank Incinerator #1	1004	No	No leaks detected	n/a	4213	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-41/136	No	No leaks detected	n/a	4214	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Tank	Oil Tank	6750086	No	No leaks detected	n/a	4215	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Tank	Oil Tank	373825	No	No leaks detected	n/a	4216	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133101	Yes	Tank 4x3 bushing threads for level and pressure instrumentation	Connection-Threaded	4543	102958	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced 4x3 bushing upstream of tank pressures monitoring automation. Allowed well and system to repressure before retesting.	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	3133858	Yes	Tank thief hatch leaking	Thief Hatch	4528	102957	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4219	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Combustor	Tank Incinerator #1	5902720	No	No leaks detected	n/a	4220	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-28/136	No	No leaks detected	n/a	4221	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141803	No	No leaks detected	n/a	4222	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141804	No	No leaks detected	n/a	4223	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6141801	No	No leaks detected	n/a	4224	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	121196	No	No leaks detected	n/a	4225	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4226	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	HONEY BADGER T5N-R66W-S31 L01	2366	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	1631	No	No leaks detected	n/a	4227	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Tank	Oil Tank	6750089	No	No leaks detected	n/a	4228	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Tank	Oil Tank	6750087	No	No leaks detected	n/a	4229	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Tank	Oil Tank	6737983	No	No leaks detected	n/a	4230	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4231	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Combustor	Tank Incinerator #1	M4536	No	No leaks detected	n/a	4232	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-01	BERNHARDT HULL T4N-R67W-S1 L01	47	n/a	240	BERNHARDT 18-1	0.25	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-55/156	No	No leaks detected	n/a	4233	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748515	No	No leaks detected	n/a	4234	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748824	No	No leaks detected	n/a	4236	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748811	No	No leaks detected	n/a	4237	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748513	No	No leaks detected	n/a	4238	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6748852	Yes	Tank thief hatch leaking	Thief Hatch	4428	102944	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly and tightened bolts. Allowed well and system to repressure before retesting.	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Tank	Oil Tank	6748813	No	No leaks detected	n/a	4240	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4241	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Combustor	Tank Incinerator #1	15-SCG-01-40/136	No	No leaks detected	n/a	4242	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-06	BERNHARDT VETTER T4N-R65W-S1 L01	2331	n/a	250	BERNHARDT 19-36	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-64/136	No	No leaks detected	n/a	4244	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Produced Water Tank	Tank #1	No	No leaks detected	n/a	4245	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6754044	Yes	Tank thief hatch leaking	Thief Hatch	4436	102945	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6752973	Yes	Tank thief hatch leaking	Thief Hatch	4437	102946	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	37972	No	No leaks detected	n/a	4248	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	378717	No	No leaks detected	n/a	4249	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Produced Water Tank	Tank #2	No	No leaks detected	n/a	4250	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379459	No	No leaks detected	n/a	4251	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379458	No	No leaks detected	n/a	4252	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379473	No	No leaks detected	n/a	4253	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379474	No	No leaks detected	n/a	4254	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A2	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L02	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4255	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A3	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L03	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Combustor	Tank Incinerator #1	6906122	No	No leaks detected	n/a	4256	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A4	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L04	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Combustor	Tank Incinerator #2	1650	No	No leaks detected	n/a	4257	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	EHRlich T4N-R67W-S23 01	170	2	n/a	EHRlich 23-67	n/a	Horizontal	Tank	Oil Tank	378710	No	No leaks detected	n/a	4258	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	EHRlich T4N-R67W-S23 01	170	2	n/a	EHRlich 23-67	n/a	Horizontal	Tank	Oil Tank	378706	No	No leaks detected	n/a	4259	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	EHRlich T4N-R67W-S23 01	170	2	n/a	EHRlich 23-67	n/a	Horizontal	Tank	Oil Tank	378704	No	No leaks detected	n/a	4260	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	EHRlich T4N-R67W-S23 01	170	2	n/a	EHRlich 23-67	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4261	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	EHRlich T4N-R67W-S23 01	170	2	n/a	EHRlich 23-67	n/a	Horizontal	Combustor	Tank Incinerator #1	590002	No	No leaks detected	n/a	4262	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Tank	Oil Tank	106945	No	No leaks detected	n/a	4263	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Tank	Oil Tank	104293	No	No leaks detected	n/a	4264	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Tank	Oil Tank	623495	No	No leaks detected	n/a	4265	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Tank	Oil Tank	6717883	No	No leaks detected	n/a	4266	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4267	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Combustor	Tank Incinerator #1	6874	No	No leaks detected	n/a	4268	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	CHECKETTS JERKE T4N-R65W-S15 L01	2158	n/a	225	CHECKETTS 22-15	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-31/135	No	No leaks detected	n/a	4269	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-04	MOSER T4N-R65W-S10 L02	1958	n/a	250	MOSER 24	0.1875	Vertical	Tank	Oil Tank	378763	No	No leaks detected	n/a	4270	n/a	No	n/a	n/a	n/a	n/a	n/a	
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-04	MOSER T4N-R65W-S10 L02	1958	n/a	250	MOSER 24	0.1875	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4271	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-04	MOSER T4N-R65W-S10 L02	1958	n/a	250	MOSER 24	0.1875	Vertical	Combustor	Tank Incinerator #1	134333	No	No leaks detected	n/a	4272	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-04	MOSER T4N-R65W-S10 L02	1958	n/a	250	MOSER 24	0.1875	Vertical	Combustor	Tank Incinerator #2	14-SCG-06-38/64	No	No leaks detected	n/a	4273	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Tank	Oil Tank	379091	No	No leaks detected	n/a	4274	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Tank	Oil Tank	379088	No	No leaks detected	n/a	4275	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Tank	Oil Tank	378703	No	No leaks detected	n/a	4276	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4277	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Combustor	Tank Incinerator #1	1343368	No	No leaks detected	n/a	4278	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	TIMMERMAN PLATTE VALLEY T4N-R65W-S13 01	147	n/a	220	TIMMERM AN 18	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-45/136	No	No leaks detected	n/a	4279	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-07	NEI OSTER T4N-R64W-S18 L01	651	n/a	220	18-20B	0.5	Vertical	Tank	Oil Tank	8748	No	No leaks detected	n/a	4280	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-07	NEI OSTER T4N-R64W-S18 L01	651	n/a	220	18-20B	0.5	Vertical	Tank	Oil Tank	938747	No	No leaks detected	n/a	4281	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-07	NEI OSTER T4N-R64W-S18 L01	651	n/a	220	18-20B	0.5	Vertical	Tank	Oil Tank	8746	No	No leaks detected	n/a	4282	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	[REDACTED]
email	[REDACTED]
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-07	NEI OSTER T4N-R64W-S18 L01	651	n/a	220	18-20B	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4283	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-07	NEI OSTER T4N-R64W-S18 L01	651	n/a	220	18-20B	0.5	Vertical	Combustor	Tank Incinerator #1	14359	No	No leaks detected	n/a	4284	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	124217	No	No leaks detected	n/a	4286	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	3133611	No	No leaks detected	n/a	4287	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	3133556	No	No leaks detected	n/a	4288	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	6134855	No	No leaks detected	n/a	4289	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	3134069	No	No leaks detected	n/a	4290	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Produced Water Tank	Tank #1	No	No leaks detected	n/a	4291	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Produced Water Tank	Tank #2	No	No leaks detected	n/a	4292	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	6135012	No	No leaks detected	n/a	4293	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	3133534	No	No leaks detected	n/a	4294	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	6134912	No	No leaks detected	n/a	4295	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	1710402	No	No leaks detected	n/a	4296	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Tank	Oil Tank	17192	No	No leaks detected	n/a	4297	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Combustor	Tank Incinerator #1	5900218	No	No leaks detected	n/a	4298	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Combustor	Tank Incinerator #2	1343326	No	No leaks detected	n/a	4299	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-06	ROTHE TOBY BOBCAT PANTHER T4N-64W-S2 L01	630	n/a	220	42-86	0.5	Vertical	Combustor	Tank Incinerator #3	5900214	No	No leaks detected	n/a	4300	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Tank	Oil Tank	371255	No	No leaks detected	n/a	4301	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Tank	Oil Tank	10873785	No	No leaks detected	n/a	4302	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Tank	Oil Tank	613193001	No	No leaks detected	n/a	4303	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Tank	Oil Tank	6713376	No	No leaks detected	n/a	4304	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Tank	Oil Tank	10872702	No	No leaks detected	n/a	4305	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4306	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Combustor	Tank Incinerator #1	5903073	No	No leaks detected	n/a	4307	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	WINTERS T5N-R65W-S3 L01	2208	n/a	250	WINTERS 33	0.5	Vertical	Combustor	Tank Incinerator #2	15-SCG-01-33/136	No	No leaks detected	n/a	4308	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6752849	Yes	Tank thief hatch leaking	Thief Hatch	4438	102947	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	NOFFSINGER T5N-R65W-S2 L01	1515	n/a	220	NOFFSINGER 5	0.5	Vertical	Tank	Oil Tank	97907	No	No leaks detected	n/a	4310	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	NOFFSINGER T5N-R65W-S2 L01	1515	n/a	220	NOFFSINGER 5	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4311	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	NOFFSINGER T5N-R65W-S2 L01	1515	n/a	220	NOFFSINGER 5	0.5	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4312	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6752850	Yes	Tank thief hatch leaking	Thief Hatch	4439	102948	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.	
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Tank	Oil Tank	361013	No	No leaks detected	n/a	4314	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Tank	Oil Tank	361012	No	No leaks detected	n/a	4315	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Tank	Oil Tank	361010	No	No leaks detected	n/a	4316	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6752872	Yes	Tank thief hatch leaking	Thief Hatch	4440	102949	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.	

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	██████████
email:	██████████
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4318	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4319	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-06	BROWN BICKLING T6N-R65W-S3 L01	74	n/a	249	BICKLING 3-17	0.5	Vertical	Combustor	Tank Incinerator #2	14303	No	No leaks detected	n/a	4320	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Tank	Oil Tank	97081	No	No leaks detected	n/a	4321	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Tank	Oil Tank	17808	No	No leaks detected	n/a	4322	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Tank	Oil Tank	361009	No	No leaks detected	n/a	4323	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Tank	Oil Tank	361007	No	No leaks detected	n/a	4324	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Tank	Oil Tank	361008	No	No leaks detected	n/a	4325	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4326	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Combustor	Tank Incinerator #1	18969	No	No leaks detected	n/a	4327	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Combustor	Tank Incinerator #2	14280	No	No leaks detected	n/a	4328	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	HARPER USX T7N-R65W-S27 L01	1413	n/a	220	HARPER 15	0.5	Vertical	Combustor	Tank Incinerator #3	14290	No	No leaks detected	n/a	4329	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-08	KISSSLER T4N-R66W-S6 L02	183	n/a	235	KISSSLER 21-25	0.5	Vertical	Tank	Oil Tank	169274	No	No leaks detected	n/a	4330	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-08	KISSSLER T4N-R66W-S6 L02	183	n/a	235	KISSSLER 21-25	0.5	Vertical	Tank	Oil Tank	169275	No	No leaks detected	n/a	4331	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-08	KISSSLER T4N-R66W-S6 L02	183	n/a	235	KISSSLER 21-25	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4332	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-08	KISSSLER T4N-R66W-S6 L02	183	n/a	235	KISSSLER 21-25	0.5	Vertical	Combustor	Tank Incinerator #1	5902704	No	No leaks detected	n/a	4333	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	ROTH T6N-R64W-S19 L01	2103	n/a	240	ROTH 22-19	0.5	Vertical	Tank	Oil Tank	371482	No	No leaks detected	n/a	4334	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	ROTH T6N-R64W-S19 L01	2103	n/a	240	ROTH 22-19	0.5	Vertical	Tank	Oil Tank	6116890	No	No leaks detected	n/a	4335	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	ROTH T6N-R64W-S19 L01	2103	n/a	240	ROTH 22-19	0.5	Vertical	Tank	Oil Tank	208729	No	No leaks detected	n/a	4336	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	ROTH T6N-R64W-S19 L01	2103	n/a	240	ROTH 22-19	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4337	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	ROTH T6N-R64W-S19 L01	2103	n/a	240	ROTH 22-19	0.5	Vertical	Combustor	Tank Incinerator #1	14-SSCG-06-14/64	No	No leaks detected	n/a	4338	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	LINDA RAE WINTER T6N-R64W-S19 L01	2265	n/a	250	WINTER 39-19	0.5	Vertical	Tank	Oil Tank	6747327	No	No leaks detected	n/a	4339	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	LINDA RAE WINTER T6N-R64W-S19 L01	2265	n/a	250	WINTER 39-19	0.5	Vertical	Tank	Oil Tank	6748814	No	No leaks detected	n/a	4340	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Tank	Oil Tank	6752855	Yes	Tank thief hatch leaking	Thief Hatch	4441	102950	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	LINDA RAE WINTER T6N-R64W-S19 L01	2265	n/a	250	WINTER 39-19	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4343	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	LINDA RAE WINTER T6N-R64W-S19 L01	2265	n/a	250	WINTER 39-19	0.5	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4342	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Tank	Oil Tank	360770	No	No leaks detected	n/a	4344	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Tank	Oil Tank	360767	No	No leaks detected	n/a	4345	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Tank	Oil Tank	360768	No	No leaks detected	n/a	4346	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4347	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Combustor	Tank Incinerator #1	14286	No	No leaks detected	n/a	4348	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Combustor	Tank Incinerator #2	14287	No	No leaks detected	n/a	4349	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-06	JOHNSON T7N-R65W-S33 L01	1914	n/a	266	JOHNSON 33-16	0.5	Vertical	Combustor	Tank Incinerator #3	1185	No	No leaks detected	n/a	4350	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Tank	Oil Tank	361056	No	No leaks detected	n/a	4351	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	DUKE T5N-R66W-S4 L01	13	n/a	265	DUKE 4-14	0.5	Vertical	Tank	Oil Tank	828774	Yes	Tank thief hatch leaking	Thief Hatch	4210	102929	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and clean center assembly. Allowed well and system to repressure before retesting.	
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	29-63	Yes	Tank thief hatch	Thief Hatch	3949	No Tag	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelop gasket, cleaned center assembly and seal surface. Allowed well and system to repressure before retesting.	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Tank	Oil Tank	361058	No	No leaks detected	n/a	4353	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4354	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Combustor	Tank Incinerator #1	14349	No	No leaks detected	n/a	4355	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139833	No	Tank out of service	n/a	n/a	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6140350	No	Tank out of service	n/a	n/a	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6140349	No	Tank out of service	n/a	n/a	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139773	No	Tank out of service	n/a	n/a	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Produced Water Tank	Tank #1	No	No leaks detected	n/a	4357	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4358	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Produced Water Tank	Tank #2	No	No leaks detected	n/a	4359	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139832	No	No leaks detected	n/a	4360	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139962	No	No leaks detected	n/a	4361	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139274	Yes	Tank thief hatch leaking	Thief Hatch	4362	n/a	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Derek - Noble	9/14/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and o-ring. Cleaned all thief hatch and center assembly components. Allowed well and system to repressure before retesting.	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139831	No	No leaks detected	n/a	4363	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Tank	Oil Tank	6139752	No	No leaks detected	n/a	4364	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-02	FURROW ST USX T7N-R64W-S22 L01	2018	2	n/a	16-62	0.5	Horizontal	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4365	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486561	No	No leaks detected	n/a	4366	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486613	No	No leaks detected	n/a	4368	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486615	No	No leaks detected	n/a	4370	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486610	No	No leaks detected	n/a	4372	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486609	No	No leaks detected	n/a	4374	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486606	No	No leaks detected	n/a	4376	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	68452	No	No leaks detected	n/a	4378	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	684453	No	No leaks detected	n/a	4380	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	684457	No	No leaks detected	n/a	4382	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486560	No	No leaks detected	n/a	4367	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486549	No	No leaks detected	n/a	4369	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486562	No	No leaks detected	n/a	4371	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486555	No	No leaks detected	n/a	4373	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486564	No	No leaks detected	n/a	4375	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPAK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Oil Tank	486607	No	No leaks detected	n/a	4377	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	68450	No	No leaks detected	n/a	4379	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FEUERSTEIN T6N-R66W-S28 L01	2051	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6137918	Yes	Tank thief hatch leaking	Thief Hatch	3957	No Tag	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket, cleaned center assembly and seal surface. Allowed well and system to repressure before retesting.
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	68454	No	No leaks detected	n/a	4383	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4384	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Combustor	Tank Incinerator #1	20548	No	No leaks detected	n/a	4385	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Combustor	Tank Incinerator #2	20549	No	No leaks detected	n/a	4386	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Combustor	Tank Incinerator #3	20565	No	No leaks detected	n/a	4387	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Combustor	Tank Incinerator #4	20564	No	No leaks detected	n/a	4388	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	6140909	No	No leaks detected	n/a	4389	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379416	No	No leaks detected	n/a	4390	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	370415	No	No leaks detected	n/a	4391	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379435	No	No leaks detected	n/a	4392	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L01	2016	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	East Bank	Yes	Tank thief hatch leaking	Thief Hatch	4053	102922	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	360457	No	No leaks detected	n/a	4394	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379376	No	No leaks detected	n/a	4395	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379377	No	No leaks detected	n/a	4396	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379378	No	No leaks detected	n/a	4397	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Produced Water Tank	10566039	No	No leaks detected	n/a	4398	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Produced Water Tank	10566037	No	No leaks detected	n/a	4399	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Produced Water Tank	10566038	No	No leaks detected	n/a	4400	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4401	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Combustor	Tank Incinerator #1	22398	No	No leaks detected	n/a	4402	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Combustor	Tank Incinerator #2	21031	No	No leaks detected	n/a	4403	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTELEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Combustor	Tank Incinerator #3	141164	No	No leaks detected	n/a	4404	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486696	No	No leaks detected	n/a	4405	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486693	No	No leaks detected	n/a	4407	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	6140714	Yes	Tank thief hatch leaking	Thief Hatch	4037	102920	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486604	No	No leaks detected	n/a	4411	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486690	No	No leaks detected	n/a	4413	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568481	No	No leaks detected	n/a	4415	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568476	No	No leaks detected	n/a	4418	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568476	No	No leaks detected	n/a	4419	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486691	No	No leaks detected	n/a	4406	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486694	No	No leaks detected	n/a	4408	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486687	No	No leaks detected	n/a	4410	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486792	No	No leaks detected	n/a	4412	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486688	No	No leaks detected	n/a	4414	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
1-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	FIVE M T6N-R65W-S28 L02	68	n/a	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	East Bank	Yes	Tank thief hatch leaking	Thief Hatch	4044	102921	No	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Cleared wasp nest from thief hatch lid, cleaned center assembly, and replaced envelope gasket. Allowed well and system to repressure before retesting.	
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568480	No	No leaks detected	n/a	4417	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568477	No	No leaks detected	n/a	4420	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4421	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Combustor	Tank Incinerator #1	20579	No	No leaks detected	n/a	4422	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Combustor	Tank Incinerator #2	20580	No	No leaks detected	n/a	4423	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N- R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Combustor	Tank Incinerator #3	20581	No	No leaks detected	n/a	4424	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6750675	No	No leaks detected	n/a	4425	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6750676	No	No leaks detected	n/a	4427	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6750678	No	No leaks detected	n/a	4429	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	61258480	No	No leaks detected	n/a	4431	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6748837	No	No leaks detected	n/a	4426	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	FOOSE T6N-R64W-S18 L01	2044	1	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	n/a	Yes	Tank thief hatch leaking	Thief Hatch	4060	102923	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Cleaned thief hatch lid, envelope gasket, and vacuum gasket. Allowed well and system to repressure before retesting.	
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	6748831	No	No leaks detected	n/a	4430	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Tank	Oil Tank	1088024	No	No leaks detected	n/a	4432	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4433	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Combustor	Tank Incinerator #1	14861	No	No leaks detected	n/a	4434	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R64W-S19 L01	438	n/a	120	4-19	0.75	Vertical	Combustor	Tank Incinerator #2	15-SCG-01- 62/136	No	No leaks detected	n/a	4435	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C3	C3-06	GITTLEIN MARIE T3N-R64W-S4 L01	509	3	n/a	72	0.5	Horizontal	Tank	Oil Tank	379434	Yes	Tank thief hatch leaking	Thief Hatch	4393	102940	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Cleaned thief hatch envelope gasket. Allowed well and system to repressure before retesting.	
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	GUTTERSEN ST T4N-R63W-S2 L01	452	n/a	n/a	#20-12	n/a	Vertical	Tank	Oil Tank	360939	Yes	Tank thief hatch leaking	Thief Hatch	4850	101290	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced the thief hatch center assembly. Allowed well and system to repressure before retesting.	
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	GUTTERSEN ST T4N-R63W-S2 L01	452	n/a	n/a	#20-12	n/a	Vertical	Tank	Oil Tank	n/a	Yes	Tank thief hatch leaking	Thief Hatch	4851	101291	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced the thief hatch center assembly. Allowed well and system to repressure before retesting.	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Tank	Oil Tank	378891	Yes	Tank thief hatch leaking	Thief Hatch	4519	102955	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch and center assembly. Allowed well and system to repressure before retesting.	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Tank	Oil Tank	378862	Yes	Tank thief hatch leaking	Thief Hatch	4521	102956	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch and center assembly. Allowed well and system to repressure before retesting.	
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N- R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Tank	Oil Tank	21848851	Yes	Tank thief hatch leaking	Thief Hatch	4479	102953	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket, center assembly washer and o-ring. Allowed well and system to repressure before retesting.	
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4442	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Combustor	Tank Incinerator #1	14-SCG-01-36	No	No leaks detected	n/a	4443	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT T2N-R65W-S1 L01	2357	2	n/a	N4-10	n/a	Horizontal	Combustor	Tank Incinerator #2	15-SCG-01- 56/135	No	No leaks detected	n/a	4444	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WIMOTH BUIROUGH T4N-R64W- S14 L01	466	n/a	255	C14-18	0.5	Vertical	Tank	Oil Tank	97818	No	No leaks detected	n/a	4445	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WIMOTH BUIROUGH T4N-R64W- S14 L01	466	n/a	255	C14-18	0.5	Vertical	Tank	Oil Tank	978784	No	No leaks detected	n/a	4446	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WIMOTH BUIROUGH T4N-R64W- S14 L01	466	n/a	255	C14-18	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4447	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WIMOTH BUIROUGH T4N-R64W- S14 L01	466	n/a	255	C14-18	0.5	Vertical	Combustor	Tank Incinerator #1	1177	No	No leaks detected	n/a	4448	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BUIROUGH T4N-R64W- S14 L01	467	n/a	260	14-2	0.5	Vertical	Tank	Oil Tank	2355	No	No leaks detected	n/a	4449	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BUIROUGH T4N-R64W- S14 L01	467	n/a	260	14-2	0.5	Vertical	Tank	Oil Tank	4735	No	No leaks detected	n/a	4450	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BUIROUGH T4N-R64W- S14 L01	467	n/a	260	14-2	0.5	Vertical	Tank	Oil Tank	98566	No	No leaks detected	n/a	4451	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BUIROUGH T4N-R64W- S14 L01	467	n/a	260	14-2	0.5	Vertical	Tank	Oil Tank	33796	No	No leaks detected	n/a	4452	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BUIROUGH T4N-R64W- S14 L01	467	n/a	260	14-2	0.5	Vertical	Tank	Oil Tank	33387	No	No leaks detected	n/a	4453	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities

GREENPATH ENERGY LTD



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BROUGH T4N-R64W-S14 L01	467	n/a	260	14-2	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping		No	No leaks detected	n/a	4454	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BROUGH T4N-R64W-S14 L01	467	n/a	260	14-2	0.5	Vertical	Combustor	Tank Incinerator #1	28	No	No leaks detected	n/a	4455	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-08	WILMOTH BROUGH T4N-R64W-S14 L01	467	n/a	260	14-2	0.5	Vertical	Combustor	Tank Incinerator #2	12499	No	No leaks detected	n/a	4456	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141516	No	No leaks detected	n/a	4457	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141483	No	No leaks detected	n/a	4458	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141513	No	No leaks detected	n/a	4459	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141515	No	No leaks detected	n/a	4460	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141471	No	No leaks detected	n/a	4461	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141470	No	No leaks detected	n/a	4462	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	# ?	No	No leaks detected	n/a	4463	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	376887	Yes	Tank thief hatch leaking	Thief Hatch	4786	101272	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly and cleaned PRV. Allowed well and system to repressure before retesting.
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141486	No	No leaks detected	n/a	4465	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	NE Produced Water Tank	#1	Yes	Tank PRV found leaking before and after well cycle	PRV	4788	101273	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Produced Water Tank	6369	No	No leaks detected	n/a	4467	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Produced Water Tank	6390	No	No leaks detected	n/a	4468	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Produced Water Tank	6392	No	No leaks detected	n/a	4469	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4470	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Combustor	Tank Incinerator #1	20546	No	No leaks detected	n/a	4471	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Combustor	Tank Incinerator #2	20545	No	No leaks detected	n/a	4472	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	PATRIOT T5N-R64W-S16 L02	304	n/a	260	16-10	0.5	Vertical	Tank	Oil Tank	97082	No	No leaks detected	n/a	4473	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	PATRIOT T5N-R64W-S16 L02	304	n/a	260	16-10	0.5	Vertical	Tank	Oil Tank	91054	No	No leaks detected	n/a	4474	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	PATRIOT T5N-R64W-S16 L02	304	n/a	260	16-10	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4475	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	PATRIOT T5N-R64W-S16 L02	304	n/a	260	16-10	0.5	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4476	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	PATRIOT T5N-R64W-S16 L02	304	n/a	260	16-10	0.5	Vertical	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	n/a	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Tank	Oil Tank	11944	No	No leaks detected	n/a	4477	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Tank	Oil Tank	11945	No	No leaks detected	n/a	4478	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378879	Yes	Tank thief hatch leaking	Thief Hatch	4792	101274	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Tank	Oil Tank	378740	No	No leaks detected	n/a	4480	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Tank	Oil Tank	378774	No	No leaks detected	n/a	4481	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4482	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Combustor	Tank Incinerator #1	5900206	No	No leaks detected	n/a	4483	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-05	JURGENS LOWER LATHAM ST T5N-R64W-S8 L01	305	n/a	250	8-24D	0.5	Vertical	Combustor	Tank Incinerator #2	5900407	No	No leaks detected	n/a	4484	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140819	No	No leaks detected	n/a	4485	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140713	No	No leaks detected	n/a	4486	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140747	No	No leaks detected	n/a	4487	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140705	No	No leaks detected	n/a	4488	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140639	No	No leaks detected	n/a	4489	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities

 GREENPATH ENERGY LTD

GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6143990	No	No leaks detected	n/a	4490	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140745	No	No leaks detected	n/a	4491	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140857	No	No leaks detected	n/a	4492	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Oil Tank	6140703	No	No leaks detected	n/a	4493	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Produced Water Tank	103121178	No	No leaks detected	n/a	4494	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Produced Water Tank	103121177	No	No leaks detected	n/a	4495	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Tank	Produced Water Tank	103121197	No	No leaks detected	n/a	4496	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4497	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Combustor	Tank Incinerator #1	21012	No	No leaks detected	n/a	4498	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Combustor	Tank Incinerator #2	21013	No	No leaks detected	n/a	4499	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	COUGAR BAKER FRITZLER T5N-R64W-S2 L01	300	1	231	COUGAR 2-69	n/a	Vertical	Combustor	Tank Incinerator #3	14322	No	No leaks detected	n/a	4500	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Tank	Oil Tank	9824	No	No leaks detected	n/a	4501	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Tank	Oil Tank	98619	No	No leaks detected	n/a	4502	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Tank	Oil Tank	98654	No	No leaks detected	n/a	4503	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Tank	Oil Tank	98662	No	No leaks detected	n/a	4504	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4505	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Combustor	Tank Incinerator #1	1684	No	No leaks detected	n/a	4506	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	A2	A2-01	LDS SINJIN ST T6N-R65W-S36 L01	65	n/a	239	LDS 36-33	0.75	Vertical	Combustor	Tank Incinerator #2	1683	No	No leaks detected	n/a	4507	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	6138397	No	No leaks detected	n/a	4508	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	6138395	No	No leaks detected	n/a	4509	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	6138275	No	No leaks detected	n/a	4510	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	6138396	No	No leaks detected	n/a	4511	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Tank	Oil Tank	3611266	No	No leaks detected	n/a	4512	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378888	Yes	Tank thief hatch leaking	Thief Hatch	4794	101275	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4514	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4515	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	BUTTERBALL DECHANT TURK BLUE T3N-R64W-S19 L01	402	n/a	125	BUTTERBALL 19-17	1	Vertical	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4516	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Tank	Oil Tank	378895	No	No leaks detected	n/a	4517	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Tank	Oil Tank	378878	No	No leaks detected	n/a	4518	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378894	Yes	Tank thief hatch leaking	Thief Hatch	4795	101276	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Tank	Oil Tank	378892	No	No leaks detected	n/a	4520	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378894	Yes	Tank equalizer line pipe to pipe coupler right hand side	Connection-Threaded	4795	101277	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Tightened equalizer line coupler. Allowed well and system to repressure before retesting.
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4522	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Combustor	Tank Incinerator #1	5901115	No	No leaks detected	n/a	4523	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Combustor	Tank Incinerator #2	1018	No	No leaks detected	n/a	4524	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	HETTINGER ADAMS MCWILLIAMS DECHANT T3N-R64W-S30 L01	400	n/a	232	30-3	1	Vertical	Combustor	Tank Incinerator #3	5901024	No	No leaks detected	n/a	4525	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	6135576	No	No leaks detected	n/a	4526	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	31339232	No	No leaks detected	n/a	4527	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378896	Yes	Tank thief hatch leaking	Thief Hatch	4796	101278	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
	Cell#
Report Type	Results of 3rd Party Tank Battery
	Fugitive Emission Surveys of Noble Consent Decree Facilities

GREENPATH ENERGY LTD



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes		
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	6135577	No	No leaks detected	n/a	4529	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	3133833	No	No leaks detected	n/a	4530	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Tank	Oil Tank	3134544	No	No leaks detected	n/a	4531	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4532	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Combustor	Tank Incinerator #1	1343342	No	No leaks detected	n/a	4533	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Combustor	Tank Incinerator #2	5900215	No	No leaks detected	n/a	4534	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-04	DECHANT MOSER T3N-R65W-S26 L01	394	n/a	250	#18	0.75	Vertical	Combustor	Tank Incinerator #3	14323	No	No leaks detected	n/a	4535	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	KODAK T6N-R67W-S35 L01	1684	n/a	215	KODAK 35-21	0.1875	Vertical	Tank	Oil Tank	11802	Yes	1/4" Plug threads upstream of tank PRV	Connection-Threaded	4183	102928	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced reducer. Allowed well and system to repressure before retesting.		
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133128	No	No leaks detected	n/a	4544	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133646	No	No leaks detected	n/a	4545	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133168	No	No leaks detected	n/a	4546	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133126	No	No leaks detected	n/a	4536	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	3133821	No	No leaks detected	n/a	4537	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	133885	No	No leaks detected	n/a	4538	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Tank	Oil Tank	313406	No	No leaks detected	n/a	4539	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4540	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Combustor	Tank Incinerator #1	13112	No	No leaks detected	n/a	4541	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT CORBIN RIVA T3N-R64W-S30 L01	437	n/a	293	31-77HN	0.75	Vertical	Combustor	Tank Incinerator #2	1561	No	No leaks detected	n/a	4542	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	360962	No	No leaks detected	n/a	4547	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	361082	No	No leaks detected	n/a	4548	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	90909	Yes	Pressure Transmitter sensing 4x1 Bushing threads	Connection-Threaded	4812	101283	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/12/2016	Joshua Anhalt	Applied new Teflon tape to the bushing and tightened. Allowed well and system to repressure before retesting.		
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	3123778	No	No leaks detected	n/a	4550	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361167	Yes	Tank thief hatch leaking	Thief Hatch	4814	101284	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/12/2016	Joshua Anhalt	Replaced the thief hatch envelope gasket and cleaned vacuum gasket and seal. Allowed well and system to repressure before retesting.		
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Tank	Oil Tank	378795	No	No leaks detected	n/a	4552	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4553	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Combustor	Tank Incinerator #1	14370	No	No leaks detected	n/a	4554	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
9-Aug-16	Joshua Anhalt	Scott Jones	C1	C1-05	CANNON T3N-R65W-S35 L01	415	n/a	n/a	n/a	n/a	Vertical	Combustor	Tank Incinerator #2	14319	No	No leaks detected	n/a	4555	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	556	n/a	193	#30-24	0.5	Vertical	Tank	Oil Tank	91880	YES	PRV Threads into pipe collar	Connection-Threaded	4644	101620	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/9/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.		
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	556	n/a	193	#30-24	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4645	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	556	n/a	193	#30-24	0.5	Vertical	Combustor	Tank Incinerator #1	1305	No	No leaks detected	n/a	4646	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE ST T4N-R63W-S30	1217	N/A	200	#30-22	0.75	Vertical	Tank	Oil Tank	91163	No	No leaks detected	n/a	4647	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE ST T4N-R63W-S30	1217	N/A	200	#30-22	0.75	Vertical	Tank	Oil Tank	91162	No	No leaks detected	n/a	4648	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE ST T4N-R63W-S30	1217	N/A	200	#30-22	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4649	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	SPIKE ST T4N-R63W-S30	1217	N/A	200	#30-22	0.75	Vertical	Combustor	Tank Incinerator #1	1304	No	No leaks detected	n/a	4650	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	5937	No	No leaks detected	n/a	4656	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities

GREENPATH ENERGY LTD



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378821	No	No leaks detected	n/a	4657	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378811	No	No leaks detected	n/a	4658	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378822	No	No leaks detected	n/a	4659	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378810	No	No leaks detected	n/a	4660	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378809	No	No leaks detected	n/a	4661	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378814	No	No leaks detected	n/a	4662	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Produced Water Tank	3079	No	No leaks detected	n/a	4663	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Produced Water Tank	3168	No	No leaks detected	n/a	4664	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378812	Yes	Tank thief hatch leaking	Thief Hatch	4665	101261	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Cleaned thief hatch envelope gasket. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378820	No	No leaks detected	n/a	4666	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378848	No	No leaks detected	n/a	4667	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378849	No	No leaks detected	n/a	4668	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378860	Yes	Tank thief hatch leaking	Thief Hatch	4669	101262	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Cleaned thief hatch center assembly. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Oil Tank	378861	No	No leaks detected	n/a	4672	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Produced Water Tank	3169	No	No leaks detected	n/a	4670	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Tank	Produced Water Tank	3669	No	No leaks detected	n/a	4671	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4673	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Combustor	Tank Incinerator #1	5901406	No	No leaks detected	n/a	4674	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Combustor	Tank Incinerator #2	5901709	No	No leaks detected	n/a	4675	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	ST BOOTH T4N-R64W-S36 L01	503	2	n/a	Booth 30-79	0.5	Horizontal	Combustor	Tank Incinerator #3	5901116	No	No leaks detected	n/a	4676	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	90555	No	No leaks detected	n/a	4677	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	97026	No	No leaks detected	n/a	4678	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	8137	No	No leaks detected	n/a	4679	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	360448	No	No leaks detected	n/a	4680	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	1011901	No	No leaks detected	n/a	4681	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	360519	No	No leaks detected	n/a	4682	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Tank	Oil Tank	360518	Yes	Tank thief hatch leaking	Thief Hatch	4683	101263	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Rebuilt the thief hatch center assembly. Replaced thief hatch vacuum plate flat washer and o-ring. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4684	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Combustor	Tank Incinerator #1	15-SCG-01-75/136	No	No leaks detected	n/a	4685	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-07	ALOYSIUS GUTTERSEN T4N-R64W-S34 L01	482	2	n/a	#C34-09	2	Vertical	Combustor	Tank Incinerator #2	13558	No	No leaks detected	n/a	4686	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6752864	No	No leaks detected	n/a	4687	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6754034	No	No leaks detected	n/a	4689	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6752958	No	No leaks detected	n/a	4691	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6752861	No	No leaks detected	n/a	4688	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6754064	No	No leaks detected	n/a	4690	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6751606	No	No leaks detected	n/a	4692	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6751612	No	No leaks detected	n/a	4693	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6754038	No	No leaks detected	n/a	4694	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6754025	No	No leaks detected	n/a	4695	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Tank	Oil Tank	6754027	No	No leaks detected	n/a	4696	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4697	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	[REDACTED]
email:	[REDACTED]
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Combustor	Tank Incinerator #1	14161	No	No leaks detected	n/a	4698	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	GUTTERSEN T3N-R63W-S5 L01	546	2	n/a	#3-5	0.5	Horizontal	Combustor	Tank Incinerator #2	15-SCG-01- 40/136	No	No leaks detected	n/a	4699	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138707	No	No leaks detected	n/a	4701	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138708	No	No leaks detected	n/a	4703	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138133	No	No leaks detected	n/a	4705	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	1582	No	No leaks detected	n/a	4700	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138167	No	No leaks detected	n/a	4702	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138749	No	No leaks detected	n/a	4704	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Oil Tank	6138168	Yes	Tank thief hatch leaking	Thief Hatch	4706	101264	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Cleaned thief hatch. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Produced Water Tank	115095	Yes	Tank thief hatch leaking	Thief Hatch	4707	101265	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Cleaned thief hatch vacuum gasket. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Tank	Produced Water Tank	120507	Yes	Tank thief hatch leaking	Thief Hatch	4708	101266	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Cleaned thief hatch. Allowed well and system to repressure before retesting.	
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4709	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Combustor	Tank Incinerator #1	5900920	No	No leaks detected	n/a	4710	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	KY BLUE DECHANT T3N-R65W-S34 L01	433	n/a	198	#25-14	0.75	Vertical	Combustor	Tank Incinerator #2	5900909	No	No leaks detected	n/a	4711	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	AVA ST T4N-R64W-S36 L03	970	n/a	170	#36-21	0.5	Horizontal	Tank	Oil Tank	n/a	No	No leaks detected	n/a	4651	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	AVA ST T4N-R64W-S36 L03	970	n/a	170	#36-21	0.5	Horizontal	Tank	Oil Tank	n/a	No	No leaks detected	n/a	4652	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	AVA ST T4N-R64W-S36 L03	970	n/a	170	#36-21	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4653	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	AVA ST T4N-R64W-S36 L03	970	n/a	170	#36-21	0.5	Horizontal	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4654	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
6-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	AVA ST T4N-R64W-S36 L03	970	n/a	170	#36-21	0.5	Horizontal	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4655	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO HAAS MATTHEW T3N-R65W- S15 L01	430	n/a	145	#5-15	1	Vertical	Tank	Oil Tank	371055	Yes	Tank thief hatch leaking	Thief Hatch	4712	101267	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/7/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found. Cleaned thief hatch center assembly.	
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO HAAS MATTHEW T3N-R65W- S15 L01	430	n/a	145	#5-15	1	Vertical	Tank	Oil Tank	104318	Yes	Tank thief hatch leaking	Thief Hatch	4714	101268	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	9/7/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found. Cleaned thief hatch center assembly.	
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO HAAS MATTHEW T3N-R65W- S15 L01	430	n/a	145	#5-15	1	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4715	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO HAAS MATTHEW T3N-R65W- S15 L01	430	n/a	145	#5-15	1	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4716	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6752978	No	No leaks detected	n/a	4717	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6752987	No	No leaks detected	n/a	4718	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6752970	No	No leaks detected	n/a	4719	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6751602	No	No leaks detected	n/a	4720	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6754027	No	No leaks detected	n/a	4721	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6752968	Yes	Tank thief hatch leaking	Thief Hatch	4722	101269	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	10/28/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Tank	Oil Tank	6754051	Yes	Tank thief hatch leaking	Thief Hatch	4723	101270	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	Yes	Noble LDAR Tech	10/28/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4724	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Combustor	Tank Incinerator #1	15-SCG-01- 26/136	No	No leaks detected	n/a	4725	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-02	FRICO T3N-R65W-S15 L02	431	3	145	#1-15	0.5	Vertical	Combustor	Tank Incinerator #2	155177	No	No leaks detected	n/a	4726	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Tank	Oil Tank	6724528	No	No leaks detected	n/a	4727	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt Cell# [REDACTED] email: [REDACTED]
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Tank	Oil Tank	6724736	No	No leaks detected	n/a	4728	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Tank	Oil Tank	6724535	No	No leaks detected	n/a	4729	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Tank	Produced Water Tank	11144W	No	No leaks detected	n/a	4730	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4731	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Combustor	Tank Incinerator #1	5901672	No	No leaks detected	n/a	4732	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Combustor	Tank Incinerator #2	5902172	No	No leaks detected	n/a	4733	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Combustor	Tank Incinerator #3	5901686	No	No leaks detected	n/a	4734	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Combustor	Tank Incinerator #4	5901683	No	No leaks detected	n/a	4735	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-07	DECHANT ST T3N-R65W-S36 L01	2213	2	160	#38N-1HZ	0.5	Horizontal	Combustor	Tank Incinerator #5	5901689	No	No leaks detected	n/a	4736	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Tank	Oil Tank	6140806	No	No leaks detected	n/a	4737	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Tank	Oil Tank	6140744	No	No leaks detected	n/a	4738	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Tank	Oil Tank	6140749	No	No leaks detected	n/a	4739	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Tank	Oil Tank	6140748	No	No leaks detected	n/a	4740	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Tank	Produced Water Tank	65685	No	No leaks detected	n/a	4741	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4742	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Combustor	Tank Incinerator #1	1597	No	No leaks detected	n/a	4743	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C2	C2-10	MOSER CHAMP T4N-R65W-S34 L01	2375	2	200	#34-05G	1	Horizontal	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4744	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568495	No	No leaks detected	n/a	4745	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	n/a	No	No leaks detected	n/a	4747	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	105660491	No	No leaks detected	n/a	4748	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568496	No	No leaks detected	n/a	4749	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568504	No	No leaks detected	n/a	4750	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	10568503	No	No leaks detected	n/a	4751	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486971	No	No leaks detected	n/a	4746	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486865	No	No leaks detected	n/a	4760	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361161	Yes	Level transmitter Probe Compression 1/2" instrument ferrule	Connection-Threaded	4816	101285	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/12/2016	Joshua Anhalt	Tightened level sensor bushing. Allowed well and system to repressure before retesting.
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486841	No	No leaks detected	n/a	4758	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486803	No	No leaks detected	n/a	4757	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486969	No	No leaks detected	n/a	4756	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486995	No	No leaks detected	n/a	4755	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486839	No	No leaks detected	n/a	4754	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486970	No	No leaks detected	n/a	4753	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486996	No	No leaks detected	n/a	4752	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4761	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #1	B-9340	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #2	B-9320	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #3	B-9510	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #4	1798	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #5	B-9310	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Combustor	Tank Incinerator #6	B-9330	No	No leaks detected	n/a	4763	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-03	HSR DECHANT PARKMAN SAFRANS BARBOUR PETRIE T3N-R64W-S7 L01	388	n/a	188	#18-7	Kimray 212 Fullport	Vertical	Tank	Oil Tank	371226	No	No leaks detected	n/a	4764	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-03	HSR DECHANT PARKMAN SAFRANS BARBOUR PETRIE T3N-R64W-S7 L01	388	n/a	188	#18-7	Kimray 212 Fullport	Vertical	Tank	Oil Tank	371227	No	No leaks detected	n/a	4765	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-03	HSR DECHANT PARKMAN SAFRANS BARBOUR PETRIE T3N-R64W-S7 L01	388	n/a	188	#18-7	Kimray 212 Fullport	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4766	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-03	HSR DECHANT PARKMAN SAFRANS BARBOUR PETRIE T3N-R64W-S7 L01	388	n/a	188	#18-7	Kimray 212 Fullport	Vertical	Combustor	Tank Incinerator #1	14-SCG-06-1/64	No	No leaks detected	n/a	4767	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753215	No	No leaks detected	n/a	4768	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753270	No	No leaks detected	n/a	4775	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753216	No	No leaks detected	n/a	4776	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753224	No	No leaks detected	n/a	4777	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6715381	No	No leaks detected	n/a	4778	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753205	No	No leaks detected	n/a	4769	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	67515378	No	No leaks detected	n/a	4770	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753219	No	No leaks detected	n/a	4771	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753226	No	No leaks detected	n/a	4772	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6752890	No	No leaks detected	n/a	4773	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Tank	Oil Tank	6753209	No	No leaks detected	n/a	4774	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4779	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Combustor	Tank Incinerator #1	14159	No	No leaks detected	n/a	4780	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C1	C1-10	JOHNSON ROBERTSON REIS UPRR PAN AM T2N-R64W-S19 L01	439	3	180	#15-19HZ	0.5	Horizontal	Combustor	Tank Incinerator #2	15-SCG-01-6/136	No	No leaks detected	n/a	4781	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378897	No	No leaks detected	n/a	4782	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378881	No	No leaks detected	n/a	4783	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378882	No	No leaks detected	n/a	4784	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378893	No	No leaks detected	n/a	4785	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361072	Yes	Tank thief hatch leaking	Thief Hatch	4819	101286	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/12/2016	Joshua Anhalt	Replaced the thief hatch envelope gasket and o-ring. Cleaned thief hatch. Allowed well and system to repressure before retesting.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378880	No	No leaks detected	n/a	4787	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-05	LINDA RAE WINTER T6N-R64W-S19 L01	2265	n/a	250	WINTER 39-19	0.5	Vertical	Tank	Oil Tank	6748812	Yes	Tank PRV found leaking before and after well cycle	PRV	4341	102938	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Retaped and resealed the PRV threads. Allowed well and system to repressure before retesting.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Produced Water Tank	#2	No	No leaks detected	n/a	4789	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Produced Water Tank	#3	No	No leaks detected	n/a	4791	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Produced Water Tank	#4	No	No leaks detected	n/a	4790	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Oil Tank	486695	Yes	Tank thief hatch leaking	Thief Hatch	4409	102942	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced thief hatch envelope gasket. Cleaned thief hatch and center assembly components. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378898	No	No leaks detected	n/a	4793	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	C2	C2-01	LOEFFLER K01 ECONODE T4N-R66W-S1 L01	2375	1	n/a	66,68,69	0.5	Horizontal	Tank	Produced Water Tank	10568479	Yes	Tank thief hatch leaking	Thief Hatch	4416	102943	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced thief hatch center assembly and envelope gasket. Cleaned thief hatch and center assembly components. Allowed well and system to repressure before retesting.
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Produced Water Tank	66032	Yes	Tank thief hatch leaking	Thief Hatch	4065	102924	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and o-ring. Cleaned thief hatch and center assembly components. Allowed well and system to repressure before retesting.
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379401	Yes	Tank thief hatch leaking	Thief Hatch	4066	102925	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and o-ring. Tightened thief hatch bolts. Cleaned thief hatch components. Allowed well and system to repressure before retesting.
2-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-10	NO WORRIES T4N-R65W-S14 L01	2369	4	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	379399	Yes	Tank thief hatch leaking	Thief Hatch	4068	102926	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket and o-ring. Cleaned thief hatch components. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Tank	Oil Tank	378906	No	No leaks detected	n/a	4797	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4798	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Combustor	Tank Incinerator #1	5901120	No	No leaks detected	n/a	4799	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	KATE RED GUTTERSEN T3N-R64W-S29 L01	545	2	n/a	#GUTTERS ON 29-69	0.5	Horizontal	Combustor	Tank Incinerator #2	59009202	No	No leaks detected	n/a	4800	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-04	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L01	549	n/a	210	#21-3J	0.5	Vertical	Tank	Oil Tank	10262754	No	No leaks detected	n/a	4801	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
4-Aug-16	Joshua Anhalt	Scott Jones	A3	A3-01	NOFFSINGER T5N-R65W-S2 L01	1515	n/a	220	NOFFSINGER 5	0.5	Vertical	Tank	Oil Tank	97908	Yes	Tank thief hatch leaking	Thief Hatch	4309	102935	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced thief hatch center assembly washer, cleaned center assembly and thief hatch rim. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C5	C3-06	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L03	551	n/a	212	#21-3J	0.5	Vertical	Tank	Oil Tank	1026255	No	No leaks detected	n/a	4803	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Tank	Oil Tank	361057	Yes	Tank PRV found leaking before and after well cycle	PRV	4352	n/a	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced PRV. Allowed well and system to repressure before retesting.
5-Aug-16	Joshua Anhalt	Scott Jones	D3	D3-07	ORR ROGERS EGGE USX T6N-R64W-S3 L01	1381	n/a	240	EGGE 3-11	0.5	Vertical	Tank	Oil Tank	361057	Yes	Tank PRV found leaking before and after well cycle	PRV	4356	102939	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/14/2016	Joshua Anhalt	Replaced PRV. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C8	C3-09	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L06	554	n/a	215	#21-3J	0.5	Vertical	Tank	Oil Tank	10211153	No	No leaks detected	n/a	4806	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
7-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-08	OSCAR Y10 ECONODE T2N-R64W-S10 L01	2335	2	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	487074	Yes	Tank PRV Passing	PRV	4759	101271	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/8/2016	Joshua Anhalt	Cleaned PRV sealing surfaces. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C10	C3-11	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L08	556	n/a	217	#21-3J	0.5	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4808	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C11	C3-12	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L09	557	n/a	218	#21-3J	0.5	Vertical	Combustor	Tank Incinerator #1	5901702	No	No leaks detected	n/a	4809	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C12	C3-13	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L10	558	n/a	219	#21-3J	0.5	Vertical	Combustor	Tank Incinerator #2	5901704	No	No leaks detected	n/a	4810	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C13	C3-14	CASEY BLUE GUTTERSEN USX T3N-R64W-S21 L11	559	n/a	220	#21-3J	0.5	Vertical	Combustor	Tank Incinerator #3	20557	No	No leaks detected	n/a	4811	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
2-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	SEYLER B10, B15 ECONODE T5N-R64W-S11 L01	2363	1	n/a	n/a	n/a	Horizontal	Tank	Oil Tank	486614	Yes	Tank thief hatch leaking	Thief Hatch	4154	102927	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Replaced thief hatch envelope gasket. Cleaned center assembly. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361166	No	No leaks detected	n/a	4813	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Produced Water Tank	SE TANK	Yes	Tank thief hatch leaking	Thief Hatch	4838	101289	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/6/2016	Joshua Anhalt	Replaced thief hatch center assembly. Allowed well and system to repressure before retesting.
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361162	No	No leaks detected	n/a	4815	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For Test	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes	
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141484	Yes	Tank thief hatch leaking	Thief Hatch	4464	102951	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Cleaned thief hatch center assembly. Allowed well and system to repressure before retesting.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	378736	No	No leaks detected	n/a	4817	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361075	No	No leaks detected	n/a	4818	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-02	TREBOR JENKINS LEEORY T5N-R64W-S11 L01	2064	1	n/a	11-65 1HN	n/a	Horizontal	Tank	Oil Tank	6141485	Yes	Tank thief hatch leaking	Thief Hatch	4466	102952	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361074	No	No leaks detected	n/a	4820	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Tank	Oil Tank	361073	No	No leaks detected	n/a	4821	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4822	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4823	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Combustor	Tank Incinerator #2	n/a	No	No leaks detected	n/a	4823	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-05	KYLE WHITE ESTES RHINO HIPPO T3N-R64W-S27 L01	556	n/a	200	#HIPPO 34-30	0.5	Horizontal	Combustor	Tank Incinerator #3	n/a	No	No leaks detected	n/a	4823	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	90658	No	No leaks detected	n/a	4833	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	282251	No	No leaks detected	n/a	4831	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	282253	No	No leaks detected	n/a	4830	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	262256	No	No leaks detected	n/a	4829	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379453	Yes	Tank PRV found leaking before and after well cycle	PRV	4246	102933	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	102282205	No	No leaks detected	n/a	4824	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Oil Tank	10228722	No	No leaks detected	n/a	4825	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-10	UPRC BRANDON SEBASTYEN T4N-R67W-S23 L01	168	2	235	BRANDON 23-65HN	n/a	Horizontal	Tank	Oil Tank	379454	Yes	Tank PRV found leaking before and after well cycle	PRV	4247	102934	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Reinspected with IR Camera. No leak found.	
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Tank	Produced Water Tank	#2 NW TANK	No	No leaks detected	n/a	4827	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Combustor	Tank Incinerator #1	14219	No	No leaks detected	n/a	4834	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Combustor	Tank Incinerator #2	5900713	No	No leaks detected	n/a	4834	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
8-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-03	CHANDLER ST GUTTERSEN USX T3N-R64W-S21 L01	544	n/a	210	#23-69HZ	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4832	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	8886	No	No leaks detected	n/a	4835	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	8840	No	No leaks detected	n/a	4836	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	8831	No	No leaks detected	n/a	4837	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Tank	Oil Tank	6750928	Yes	Tank thief hatch leaking	Thief Hatch	4217	102930	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Cleaned thief hatch rim. Allowed well and system to repressure before retesting.	
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Produced Water Tank	NE TANK	No	No leaks detected	n/a	4839	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	378835	No	No leaks detected	n/a	4840	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	3730072	No	No leaks detected	n/a	4844	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	3730070	No	No leaks detected	n/a	4845	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Tank	Oil Tank	360749	No	No leaks detected	n/a	4846	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4847	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Combustor	Tank Incinerator #1	14216	No	No leaks detected	n/a	4848	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-01	SPIKE GUTTERSEN ST T3N-R64W-S16 L01	527	n/a	180	#D16-99HZ	n/a	Horizontal	Combustor	Tank Incinerator #2	5901118	No	No leaks detected	n/a	4848	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	GUTTERSEN ST T4N-R63W-S2 L01	452	n/a	n/a	#20-12	n/a	Vertical	Tank	Oil Tank	360938	No	No leaks detected	n/a	4849	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3-Aug-16	Joshua Anhalt	Scott Jones	A1	A1-03	WIEDEMAN T5N-R66W-S5 L01	2104	n/a	210	WIEDEMAN 4-5	0.5	Vertical	Tank	Oil Tank	6748217	Yes	Tank PRV found leaking before and after well cycle	PRV	4218	102931	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Cleaned PRV o-ring. Allowed well and system to repressure before retesting.	

Original Date	21-Sep-16
Revised Date	7-Sep-18
Prepared By	Joshua Anhalt
Cell#	
email:	
Report Type	Results of 3rd Party Tank Battery Fugitive Emission Surveys of Noble Consent Decree Facilities



GreenPath Survey Date	GreenPath Rep	On-Site Noble Rep	Noble Foreman Area	Noble Route	Noble LOD	Tank System #	VRT Pressure (PSI)	Line Pressure (PSI)	Well Cycled For	Oil Dump Trim Size	Well Type	System	Process	Noble Process ID #	Emission Detected	Emission Description	Component Type	GPE FLIR GF320 Media #	GPE Tag #	Noble Notification Phone Call ?	Noble Rep Notified	Repaired During Survey ?	Repair By	Reinspection Date	Verified By	Repair Notes
5-Aug-16	Joshua Anhalt	Scott Jones	B1	B1-03	WOLFPACK/LONEWOLF B02 ECONODE T5N-R64W-S2 L01	2061	2	N/A	65	0.5	Horizontal	Tank	Produced Water Tank	68449	Yes	Tank thief hatch leaking	Thief Hatch	4381	NO TAG	Yes	Sarah Koziolkowsky - Noble LDAR Dispatch	No	Noble LDAR Tech	9/13/2016	Joshua Anhalt	Retaped and resealed the PRV threads. Allowed well and system to repressure before retesting.
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	GUTTERSEN ST T4N-R63W-S2 L01	452	n/a	n/a	#20-12	n/a	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4852	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	C3	C3-11	GUTTERSEN ST T4N-R63W-S2 L01	452	n/a	n/a	#20-12	n/a	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4853	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Tank	Produced Water Tank	n/a	No	No leaks detected	n/a	4854	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Tank	Oil Tank	60560602	No	No leaks detected	n/a	4855	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Tank	Oil Tank	60526804	No	No leaks detected	n/a	4857	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Tank	Oil Tank	60560601	No	No leaks detected	n/a	4858	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4859	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L01	2034	n/a	n/a	#16-2H	n/a	Vertical	Combustor	Tank Incinerator #1	5900516	No	No leaks detected	n/a	4860	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Tank	Oil Tank	10345507904	No	No leaks detected	n/a	4861	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Tank	Oil Tank	10335507905	No	No leaks detected	n/a	4862	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Tank	Oil Tank	1034361404	No	No leaks detected	n/a	4863	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Tank	Oil Tank	10315507908	No	No leaks detected	n/a	4864	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Tank	Produced Water Tank	n/a	No	No leaks detected	n/a	4865	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Piping	Tank VOC Manifold Knock Out & Piping	n/a	No	No leaks detected	n/a	4866	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	D2	D2-01	ST T8N-R60W-S16 L02	2035	n/a	n/a	#16-1H	n/a	Vertical	Combustor	Tank Incinerator #1	n/a	No	No leaks detected	n/a	4867	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8050	No	No leaks detected	n/a	4868	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8030	No	No leaks detected	n/a	4869	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8060	No	No leaks detected	n/a	4870	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Produced Water Tank	8510	No	No leaks detected	n/a	4871	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8610	No	No leaks detected	n/a	4872	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8620	No	No leaks detected	n/a	4873	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8120	No	No leaks detected	n/a	4874	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8140	No	No leaks detected	n/a	4875	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8160	No	No leaks detected	n/a	4876	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8150	No	No leaks detected	n/a	4877	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a
9-Sep-16	Joshua Anhalt	Scott Jones	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tank	Oil Tank	8130	No	No leaks detected	n/a	4878	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a