

TECHNICAL MEMORANDUM

To: Mr. Mark Chandler
From: Craig Hultgren
Date: March 23, 2016
Subject: Assessment of Current Site Conditions – TOC 01-172

HydroCon Environmental, LLC (HydroCon) has prepared this memorandum on behalf of TOC Holdings Co. (TOC) for Facility No. 01-172 located at 4231 Rucker Avenue, Everett, Washington (Figure 1). The Property has undergone extensive remedial actions and current contaminant concentrations in soil and groundwater indicate that these actions have reduced petroleum hydrocarbon concentrations below applicable cleanup levels (CULs).

Ecology (2016¹) expressed concern that the impacts observed at a former Site monitoring well (RW01) in 2014 may reflect problems with the existing underground storage tank (UST) system, such as leakage from subsurface piping.

This memorandum provides a brief background summarizing site conditions and remedial actions followed by a presentation of groundwater analytical data, an assessment of groundwater flow at the Site, and the results of recent UST equipment testing to demonstrate that Site conditions warrant regulatory closure.

Background

The Site is currently being used as a retail gasoline station. Site features include an active Union 76-brand retail gasoline station, a 1986-vintage convenience store operating as Rucker Food Mart, a drive-through espresso stand, an asphalt-paved parking lot, and perimeter landscaping. Based on Washington State Department of Ecology (Ecology) and Snohomish County Assessor records, the subject site is equipped with three 1986-vintage, 10,000-gallon USTs containing various grades of gasoline. Two fuel-dispensing pump islands are also present on the western portion of the Property. Information is not readily available regarding the installation or removal of the USTs located on the Property prior to 1986; however, records indicate that a retail gasoline station has operated on the Property since at least 1938.

Based on analytical data collected from subsurface investigations conducted since 2003, the concentrations of gasoline-range petroleum hydrocarbons (GRPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) exceeded the Washington State Model Toxics Control Act (MTCA) Method A CULs (CULs) in soil and groundwater beneath the Property. Total and dissolved lead have also historically been detected at concentrations exceeding the CUL in groundwater collected from the Property. Petroleum-impacted soil and groundwater extended beneath the southern portion of the Property and may have also extended a short distance beneath the west-adjoining Rucker Avenue right-of-way. The vertical extent of the petroleum-contaminated soil appears to have been limited to depths ranging from 10 to 20 feet below ground surface.

¹ Ecology 2016. Email from Eugene Freeman, Department of Ecology, to Craig Hultgren, HydroCon. February 18.

Hydro

Mr. Mark Chandler Assessment of Current Site Conditions TOC Holdings Co.; Facility No. 01-172 Page 2

A dual-phase extraction (DPE) remediation system was installed in March 2009 to mitigate the residual soil and groundwater contamination. The DPE remediation system includes seven wells (MW05, MW07, MW12, and RW01 through RW04) that were used to apply a vacuum to the vadose zone to induce air flow and enhance recovery of volatile organic contaminants from the soil. Groundwater was extracted from four of the seven wells (MW05, MW07, RW03, and RW04) using down-well pumps to expose more of the vadose zone to enhanced vapor recovery via the vacuum extraction system. On September 14, 2011, the DPE system was turned off when groundwater data indicated that the system had effectively reduced concentrations of petroleum hydrocarbons in groundwater. Petroleum hydrocarbon concentrations increased in some of the site wells and the remediation system was restarted and operated between February 17 and 29, 2012, prior to conducting the Second Quarter 2012 monitoring event. Beginning in May 2012, the down-well pumps were cycled on and off on alternating 2-week periods of operation, with the vacuum system running continuously. An air sparge packer assembly was installed in remediation well RW01 on August 8, 2012, to provide oxygen for aerobic degradation of residual soil contamination. The remediation system was turned off on September 12, 2012, to initiate compliance groundwater sampling.

A Supplemental Subsurface Investigation (SSI) was conducted in 2013² to evaluate the soil conditions beneath the Property in areas where PCS was encountered prior to the operation of the remediation system. Soil samples collected from six soil borings (B19 through B24) at locations with historical concentrations above applicable CULs did not have detections of GRPH or BTEX above MTCA Method B CULs (CULs).

A detailed summary of each previous investigation and interim action (prior to the 2013 SSI), as well as documentation of the field work including lab reports and boring logs, are presented in the Remedial Investigation Report (SES 2009³) and Cleanup Action Plan (SoundEarth 2013⁴).

Former well RW01 was located within the fueling area of the operating service station. In November 2014, RW01 was abandoned and replaced by RW01A due to the presence of gasoline observed in the well monument and detections above CULs in groundwater. Well RW01A was located about 10 feet to the west of RW01 (Figure 2)⁵.

The remediation system was turned off on December 10, 2014 in anticipation of final confirmational monitoring demonstrating compliance with CULs. The system has remained off ever since.

² SoundEarth Strategies, 2014. Supplemental Subsurface Investigation Report. TOC Facility No. 01-172, 4231 Rucker Avenue, Everett, Washington. Prepared for TOC Holdings Co. February 11.

³ SoundEarth Strategies, 2009. Remedial Investigation Report. TOC Facility No. 01-172, 4231 Rucker Avenue, Everett, Washington. Prepared for TOC Holdings Co. June 29.

⁴ SoundEarth Strategies, 2009. Cleanup Action Plan. TOC Facility No. 01-172, 4231 Rucker Avenue, Everett, Washington. Prepared for TOC Holdings Co. March 21.

⁵ HydroCon, 2015. Remediation System Relocation and System Modification Technical Memorandum. Prepared for TOC Holdings Co. May 20.



HydroCon reviewed exposure pathways at the Site and calculated MTCA Method B CULs using the MTCA TPH calculation spreadsheets⁶. Results indicated that the soil TPH Method B concentration protective of the direct contact pathway is 2,989 milligrams per kilogram (mg/kg). The protection of groundwater MTCA Method B CULs for TPH and benzene were determined to be 427 micrograms per liter (µg/L) and 0.785 µg/L, respectively. An exposure assessment for groundwater at the site demonstrated that the groundwater/drinking water exposure pathway is incomplete since impacted groundwater is limited to small areas of the site, no drinking water supply wells are likely present in the area, and water has been provided by the City of Everett since the 1920's from a reservoir 30 miles to the east of the Site. Therefore, the direct contact value is the only TPH soil cleanup value applicable to the Site.

Groundwater Quality - Site Monitoring Wells

Groundwater sampling began at the site in 2003. In general, the sampling has been performed on a quarterly basis. A total of 18 monitoring wells and 4 recovery wells have been included in the quarterly groundwater monitoring program.

A summary of the historical monitoring results for each well is provided in the attached Table 1. The table identifies the number of quarters results for all COCs were below Method A or Method B CULs (CULs), the number of quarters non-detects were below Method B CULs and the date of the most recent detection of benzene.

This data indicates that the chemicals of concern (COC) in groundwater have remained below the MTCA Method A CULs for several quarters in a row (in many cases for several years). Since the site was originally being sampled to comply with MTCA Method A CULs, BTEX was analyzed using EPA Method 8021B which typically provides a detection limit of 1 μ g/L. EPA Method 8260 was selectively used during the monitoring history at each well when a fuller list of VOCs was being analyzed. HydroCon used EPA Method 8260 during the last two quarterly sampling events to achieve a detection limit below the Method B CUL for benzene in groundwater (0.785 μ g/L; the detection limits for these last two events were 0.5 μ g/L and 0.35 μ g/L, respectively). In all cases where the lower detection limits were achieved, detections were below Method B CULs.

The number of quarters with benzene below the Method B CUL are not consecutive and do not represent the most recent 4 quarters. However, the lack of detections above the Method B CUL at various points in the monitoring history strongly suggest that non detected benzene levels for all sampling events are below Method B CULs.

Contaminant Migration

As noted above, Well RW01 was abandoned in November 2014 and replaced by RW01A due to the presence of gasoline in the well monument of RW01. HydroCon⁷ concluded that the presence of the gasoline in the monument was due to operations at the active pump island where the well was located and that detections of hydrocarbon between September 2013 and June 2014 were due to the leakage from the monument to the subsurface. However, Ecology (2016) expressed concern that the impacts observed at

⁶ HydroCon, 2015. Exposure Assessment – Groundwater Technical Memorandum. Prepared for TOC Holdings Co. December 3.

⁷ HydroCon, 2015. Cleanup Action Status. TOC Facility No. 01-172. 4231 Rucker Avenue, Everett. Washington. Letter to Eugene Freeman, Washington State Department of Ecology. April 15.

former well RW01 may be due to a slow release from leaky joints in the piping to the dispensers and asked for an estimate of travel time to wells downgradient from a hypothetical leak.

Groundwater flow and contaminant fate and transport models can be used to help understand and evaluate hydrogeological systems, including travel time. Modeling results depend on the quality and quantity of the field data available to define input parameters and boundary conditions. Modeling inputs typically require characterization of:

- Horizontal and vertical distribution of average linear ground water velocity (direction and magnitude) determined by a calibrated flow model or through accurate determination from field data.
- Initial distribution of solute.
- Location, history, and mass loading rate of chemical sources or sinks.
- Effective porosity.
- Soil bulk density.
- Cation exchange capacity.
- Fraction of organic carbon in soils.
- Octanol-water partition coefficient for chemicals of concern.
- Density and viscosity of non-aqueous fluid.
- Longitudinal and transverse dispersivity.
- Diffusion coefficient.
- Chemical decay rate or degradation constant.

Many of these variables are not characterized in typical site investigations at leaking UST sites and are not well understood at the Site. As a result, TOC Holdings Co. is reluctant to pursue and publish modeling results that could be misleading. Therefore, HydroCon is suggesting that Ecology evaluate the presence of ongoing fuel leaks based on the more definitive UST tank tightness testing rather than less definitive contaminant transport modeling.

UST System Testing

Concerns about leakage from the UST system can be addressed through the Washington State Department of Ecology's compliance monitoring procedures that are conducted at the Site. These procedures include tank testing every 5 years and pressurized line testing every year. Attachment A includes the **Washington State Department of Ecology Tightness Checklist** reports for tests conducted in December of 2014 and 2015. These tests included testing of leak detectors, tank monitors, and annual line testing. As shown in the reports, the UST system meets the State requirements.

Conclusions

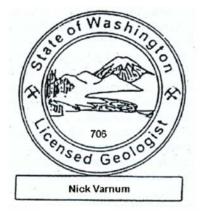
Groundwater monitoring and soil sampling have demonstrated that remedial actions conducted at the site have reduced petroleum hydrocarbon concentrations in soil and groundwater to levels below the Method A CULs and apparently now below the Method B CULs. Annual UST line testing conducted in 2014 and 2015 show that the product lines meet regulatory requirements and are not leaking. The latest groundwater monitoring results reaffirm that detections of petroleum hydrocarbons from former well RW01 were the result of spills in the fueling area entering the well vault. Since this well was abandoned and replaced by well RW01A, there have been no detections of GRPH or benzene above the respective Method A CULs in groundwater.

Considering that the UST system tightness has been confirmed and concentrations of chemicals of concern in the media of concern have remained below Method A CULs for several quarters, and have been documented below the Method B CULs for at least two quarters, a determination of No Further Action is warranted for this Site.

Prepared by:

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Nick Varnum, LHG Project Scientist



Reviewed by:

Craig Hultgren, LHG Project Manager

March 23, 2016

Attachments

Table 1 – Summary of Groundwater Quality in Site Monitoring Wells

Attachment A - Washington State Department of Ecology Tightness Checklist Reports - 2014, 2015



TABLES

 Table 1

 Summary of Groundwater Quality in Site Monitoring Wells

Well Identification Number	Number of Consecutive Quarters Below MTCA Method A or B CUL for all COCs	Number of Quarters Benzene Non- detect Below Method B CUL	Most Recent Detection of Benzene Above Method B CUL	Notes/Comments
MW01	37	6	August 2006 (3.53 μg/L)	
MW02	47	5	Never	
MW03	47	9	Never	
MW04	30	6	June 2008 (2 µg/L)	
MW05	25	6	September 2009 (2.5 µg/L)	
MW06	22	6	August 2006 (6.21 μg/L)	
MW07	24	6	December 2008 (3 µg/L)	
MW08	47	9	Never	
MW09	27	6	March 2009 (1 μg/L)	
MW10	38	6	Never	
MW11	38	6	Never	
MW12	20	3	September 2010 (1.2 µg/L)	
MW13	36	5	Never	
MW14	35	6	Never	
MW15	6	2	September 2014 (8.3 µg/L)	Well had 31 consecutive quarters below CULs before anomalous spike in benzene occurred on September 15, 2014, no detection above CULs have been observed since that date.
MW16	15	6	March 2009 (10 µg/L)	
MW17	22	7	Never	
MW18	22	7	Never	
RW01	0	0	September 2013 (1.1 µg/L)	Well had 6 consecutive quarters below CULs between March 2012 and June 2013. Well was abandoned and replaced with RW01A in November 2014 due to presence of gasoline in well monument.
RW01A	5		Never	Well has been sampled 5 times.
RW02	27	6	January 2009 (6 μg/L)	
RW03	20	2	December 2010 (2.1 µg/L)	
RW04	19	4	Never	

ATTACHMENT A Washington State Department of Ecology Tightness Checklist Reports – 2014, 2015 Friday, December 12, 2014

Rucker Food Mart 4231 Rucker Ave Everett, WA 98203-2244

Rucker Food Mart 4231 Rucker Ave Everett, WA 98203-2244

RE: Job ID 43798

Dear Valued Customer:

The **Official Report** including all test results and any supporting documentation are enclosed. The test data covered in this report are specific to each test conducted. For your convenience, a summary of testing conducted is provided on the report cover page.

Unless stated otherwise, all compliance testing data must be maintained on site for a minimum of **5 years**. Instructions for specific test types may follow.

Please call if you have any questions or require additional information.

Washington State Department of Ecology Tightness Checklist

As an added service to you, Northwest Tank has sent a copy of the Tightness Testing Checklist to the Department of Ecology. Please sign the final page of the DOE checklist marked "Tank Owner / Authorized Representative" if applicable and keep a copy on site for Five years. You DO NOT need to send an additional copy to the DOE.

Sincerely,

Svetlana Voukulin

Northwest Tank & Environmental Services, Inc.
Maintain all test reports on-site for a minimum of 5 years.
OFFICIAL REPORT
Test Report For:
ClientSiteRucker Food MartRucker Food Mart4231 Rucker Ave4231 Rucker AveEverett, WA 98203-2244Everett, WA 98203-2244Job #: 43798Fverett, WA 98203-2244
Date Testing Conducted
Thursday December 4 2014
Testing Summary
Leak Detector Test AnnualPassTank Monitor Certification AnnualPassLine Test AnnualPass
Report Analyst: <u>Bob Wing</u> Certified Supervisor: <u>Scott Pike</u> Certificate #: <u>5053249-U3</u>

Work Acknowledgement Form

Customer Name: Rucker Food Mart Site Name: Rucker Food Mart Site Address: 4231 Rucker Ave, Everett Job Number: 43798 Ticket / PO#: COD Date Of Service: 12/04/2014

Testing
Company:Northwest Tank & Environmental Services,
Inc.Primary
Technician:Scott PikeAddress:17407 59th Ave SECity/State/Zip:Snohomish, WA 98296
PH: (800) 742-9620

Start Time:	12:05:37	End Time:	13:42:30	Number of Technicians:	1

Scope of work scheduled:

Leak Detector Test Annual Tank Monitor Certification Annual Line Test Annual

Site Representative Up	on Checkin: Thinh
Signature:	
Howke	

Monitoring System Issues Observed Upon Arrival:	Dispenser and UST System Issues Observed Upon
None	Arrival:
	None

Dispatch Notes:

Technician Comments:

Site has all 12 months .2gal test results

Parts Installed

Qty	Part #	Model	Name	Se	erial #		Core Retained	Repair Time
1	FUEL	NWT	Fuel Surcharge	null		null		0
1	DISC	NWT	Discount	null		null		0
Monit None					Dispens Departe None		and UST System Issu	es Noted at

Monthly Monitoring Records for the last 12 Months

	Tanks								
Tank State ID	Product	Tank Overfill and Monthly Monitoring Verification	Verification Method	Mont hly Monit or	Records Maintained 12 Months				
2	Premium	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes				
3	Regular	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes				
1	Diesel	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes				

Lines							
Line ID	Tank State ID	Line Monthly Monitoring Verification	Records Maintained 12 Months				
1	3	Annual Line Test	Yes				
2	2	Annual Line Test	Yes				
3	1	Annual Line Test	Yes				

Post-Operation Checks

Technician has pumped from each product? Yes Technician has walked the site for remaining tools and hazards? Yes Technician Signature:

Have all isolated mechanisms been removed? Yes Dispensers out of stand-alone? N/A

Site Representative at Checkout:

TAN

Monitoring System Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information

Company Name: Rucker Food Mart Site Address: 4231 Rucker Ave Facility Contact Person: Mr. Kim Make / Model Monitoring System: V-R TLS 250 Date Of Testing: 12/04/2014 Site Name: Rucker Food Mart City, State, ZIP: Everett, WA 98203-2244 Facility Phone Number: 425-339-1212 Serial #: 4774

B. Inventory of Equipment Tested/Certified

Tank #: 2 Premium		Tank #: 3 Regular	
In-Tank Gauging Probe	Mag 1 Probe	In-Tank Gauging Probe	Mag 1 Probe
Annular Space or Vault Sensor:	N/A	Annular Space or Vault Sensor:	N/A
Piping Sump / Trench Sensor:	N/A	Piping Sump / Trench Sensor:	N/A
Fill Sump Sensor:	N/A	Fill Sump Sensor:	N/A
Mechanical Line Leak Detector:	FX1V	Mechanical Line Leak Detector:	FX1V
Electronic Line Leak Detector:	N/A	Electronic Line Leak Detector:	N/A
Tank Overfill / High Level Sensor:	Emco DT	Tank Overfill / High Level Sensor:	Emco DT
Other:		Other:	
Tank #: 1 Diesel			
In-Tank Gauging Probe	Mag 1 Probe		
Annular Space or Vault Sensor:	N/A		
Piping Sump / Trench Sensor:	N/A		
Fill Sump Sensor:	N/A		
Mechanical Line Leak Detector:	FX1DV		
Electronic Line Leak Detector:	N/A		
Tank Overfill / High Level Sensor:	Emco DT		

Dispenser ID:	1/2	Dispenser ID:	3/4
· · · · · · · · · · · · · · · · · · ·		Dispenser Containment Sensors Model:	N/A
Shear Valves: Yes Floats & Chains: N/A		Shear Valves: Yes	Floats & Chains: N/A
Dispenser ID:	5/6	Dispenser ID:	7/8
Dispenser Containment Sensors Model:	N/A	Dispenser Containment Sensors Model:	N/A
Shear Valves: Yes Floats & Chains: N/A		Shear Valves: Yes	Floats & Chains: N/A

C. Certification

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report (check all that apply):

Technician Name: Scott Pike Certification Number: 5053249-U3 Expiration Date: 11/22/2015 Signature:

Testing Company Name: Northwest Tank & Environmental Services, Inc. Address: 17407 59th Ave SE Snohomish, WA 98296 Date of Testing: 12/04/2014

D. Results of Testing/Service

D. Results of	Testing/Service
Yes	Is the audible alarm operational?
Yes	Is the visual alarm operational?
N/A	Were all sensors visually inspected, functionally tested, and confirmed operational?
N/A	If alarms are relayed to a remote monitoring station, is all communications equipment operational?
N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected?
N/A	If yes: which sensors initiate positive shut-down?
N/A	Did you confirm positive shut-down due to leaks and sensor failure/disconnection?
Yes	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly?
N/A	If so, at what percent of tank capacity does the alarm trigger?
No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E below.
No	Was liquid found in any secondary containment systems designed as dry systems?
N/A	lf yes, what type of liquid?
Yes	Was monitoring system set-up reviewed to ensure proper settings? Attach setup reports, if applicable.
Yes	Is all monitoring equipment operational per manufacturers specifications?

In section E. below, describe how and when these deficiencies were or will be corrected. E. Comments

State Tank ID	Product	Manual Stick Readings(inches)	Gauge Readings(inches)	Difference
2	Premium	18	18.25	25
3	Regular	31	30.45	.55
1	Diesel	27.5	27.09	.41

F. In-Tank Gauging / SIR Equipment This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Yes	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
N/A	Were all tank gauging probes visually inspected for damage and residue buildup?
Yes	Was accuracy of system product level readings tested?
Yes	Was accuracy of system water level readings tested?
Yes	Were all probes reinstalled properly?
Yes	Were all items on the equipment manufacturer's maintenance checklist completed?

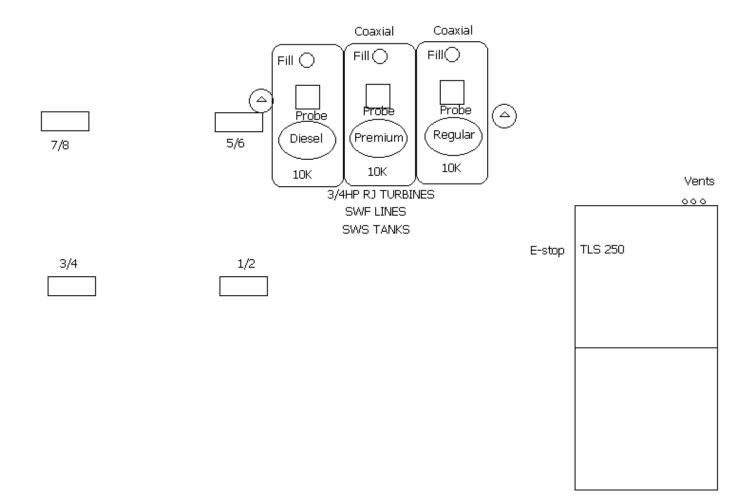
G. Line Leak Detectors (LLD):

Yes	For equipment startup or annual equipment certification, was leak simulated to verify LLD performance?
3 GPH	Leak Rate
Yes	Were all LLDs confirmed operational and accurate within regulatory requirements?
Yes	Was the testing apparatus properly calibrated?
Yes	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
Yes	Were all items on the equipment manufacturer's maintenance checklist completed?

Site Map

Customer Name: Rucker Food Mart Site Name: Rucker Food Mart

Site Address: 4231 Rucker Ave, Everett Job Number: 43798



Company Name: Rucker Food Mart Site Name: Rucker Food Mart Address: 4231 Rucker Ave Everett, WA 98203-2244 Test Date/Time: 12/04/2014 12:05:37 pm Job ID Number: 43798 Technician Name: Scott Pike License Number: 5053249-U3 Expiration Date: 11/22/2015

Product: Diesel	Make: Red Jacket	Operating Pressure: 30	Result: Pass
Tank ID: 1	Model: FX1DV	Holding Pressure: 10	
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 100	
Additional Data For Me	chanical Leak Detectors	s Only	
Metering Pressure: 8		-	
Step Through Time: 8			
Product: Premium	Make: Red Jacket	Operating Pressure: 23	Result: Pass
Tank ID: 2	Model: FX1V	Holding Pressure: 13	
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 200	
Additional Data For Me	chanical Leak Detectors	s Only	
Metering Pressure: 9		-	
Step Through Time: 2			
Product: Regular	Make: Red Jacket	Operating Pressure: 25	Result: Pass
Tank ID: 3	Model: FX1V	Holding Pressure: 14	
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 200	
Additional Data For Me	chanical Leak Detectors	s Only	
Metering Pressure: 9		-	
Step Through Time: 2			

Leak detector testing conducted in accordance with the procedures and limitations of the LDT 890 leak detector tester. A leak is simulated at the highest point in the line using the LDT 890 calibrated to 3 gph at a metering pressure of 10 psi. The owner or operator of the UST system is required to ensure any failed leak detector is replaced before placing the line back in service.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments:

Technician Name: Scott Pike Signature:

Date: 12/04/2014



I. TIGHTNESS TESTING METHOD	Date Of Test: 12/04/2014
Telephone	(800) 742-9620
IFCI Certification Number: 5053249-U3	Snohomish, WA 98296 Certification Issue Date (Month/Year): 2013-11-22 00:00:00
Service Co Address	17407 59th Ave SE
Service Company	Northwest Tank & Environmental Services, Inc.
2. FIRM PERFORMING WORK	
Telephone	425-339-1212
	Everett, WA 98203-2244
Mailing Address	4231 Rucker Ave
UST Owner/Operator	Rucker Food Mart
Telephone	425-339-1212
	Everett, WA 98203-2244
Site Address	4231 Rucker Ave Snohomish
Site / Business Name	Rucker Food Mart Rucker Food Mart
UBI Number: 602-886-207	Site ID Number: 4063
1. UST SYSTEM LOCATION AND OWNE	R

1. Tightness testing method(s) used (indicate if more than one method was used): Test method name/version/Manufacturer: ATG

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be: 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a non volumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

 Method used for release detection: ATG
 Type of test conducted: Line and Leak Detectors 4. Reason for conducting tightness test: Required Release Detection Method6. Test method type: Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form:

Yes/No/NA
1. Has the tightness testing method used been demonstrated to meet the
performance standard specified in the UST rules for the conditions under which the test
was conducted? (e.g. detecting a 0.10 gallon per hour leak rate with probability of
detection of at least 95% and a probability of false alarm no more than 5%)
2. Have all written testing procedures developed by the manufacturer of the testing
Yes

equipment and method been followed while the test was being setup. 3. Was the product level in the tank during the test within the limitations of the test

methods performance standards?

4. If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (required for single wall tanks)

5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a N/A suspected release within 24 hours to UST staff at the appropriate Ecology office.

II. TANK INFORMATION CHECKLIST						
L. Tank ID Number (tank name registered with Ecology)	2	3	1			
2. Date Installed	1986-01- 01	1986-01- 01	1986-01- 01			
3. Tank capacity in gallons	10000	10000	10000			
4. Last substance stored	Premium	Regular	Diesel			
5. Number of tank compartments	1	1	1			
5. Tank type (S) Single Wall; (D) Double Wall; (P) Partitioned	SW	SW	SW			
7. Is overfill device present? (Yes/No)	Drop Tube		DTFV = Drop Tube Flapper Valve			
Tank ID associated to each tank	2	3	1			
3. Percentage of product in tank during test? (Volume % must comply with test method certification requirements)						
9. The test method used can detect a leak of how many GPH?	.05	.05	.05	.05	.05	.05
10. The numerical tank test results are? (In gallons per nour)						
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?						

Initials



N/A

N/A

IV. LINE AND LEAK DETECTOR INFORMATION

Tank ID associated to each line	3	2	1		
1. Piping Type: (S) Single Wall; (D) Double Wall	Single	Single	Single		
2. Pump Type: (T) Turbine; (S) Suction	Pressure	Pressure	Pressure		
3. (a) If turbine is leak detector present (Yes/No)	Yes	Yes	Yes		
If present, was lead seal intact (Yes/No)	N/A	N/A	N/A		
(b) If suction, check valve located at: (T)tank; (P)pump	N/A	N/A	N/A		
4. The numerical line test results are? (gallons per hour)	.00750	.00750	.00750		
5. Line tightness test results? (Pass/Fail)	Pass	Pass	Pass		
Tank ID associated to each leak detector	1	2	3		
Leak Detector Test Results (Pass/Fail)	Pass	Pass	Pass		

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

12/04/2014

Scott Pike

Date

Signature of Certified Supervisor

Signature of Tank Owner/Authorized Representative

Printed Name

Printed Name

Date

....

Line Tightness Test Results

Company Name:	Rucker Food Mart	Job ID Number:	43798
Site Name:	Rucker Food Mart	Technician Name:	Scott Pike
Address:	4231 Rucker Ave Everett, WA 98203-2244	License Number:	5053249-U3
Test Date:	12/04/2014	Expiration Date:	11/22/2015

Line Tightness Test Data

Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Regular 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	3 Red Jacket 3/4 HP 25 37.5 Impact Valve Ball Valve .035 .030	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result :	12:55 13:35 40mins .00750 Yes N/A Pass
Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Premium 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	2 Red Jacket 3/4 HP 23 34.5 Impact Valve Ball Valve .035 .030	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result :	12:55 13:35 40mins .00750 Yes N/A Pass
Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Diesel 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	1 Red Jacket 3/4 HP 30 45 Impact Valve Check Valve .035 .030	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result :	12:55 13:35 40mins .00750 Yes N/A Pass

Line tightness testing conducted in accordance with the procedures and limitations of the Accurite Training and Services Corp. pipeline tester. A consistent leak rate of .01 gph or higher at 150% of normal operating pressure is considered a failure. The owner or operator of the UST system is required to report all failures to the appropriate agency within 24 hours.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments:

Technician Name: Scott Pike Signature:

Date: 12/04/2014

Permit to work for Petroleum/Convenience Sites

Worker Signatures: I have reviewed and under conditions of this permit and its attachments.		1: 2:			
hazardous conditions or acts identified on this					
supervisor or customer representative.	Jobs ice comy	5.			
Person In Charge: Scott Pike	Location: Ruck	er Food Mart, 42	31 Rucker Ave Evere	tt, WA	
Date: 12/04/2014	Time Issued: 1	2/04/2014 12:11	. pm		
Work Order#: 43798		12/05/2014 12:1	•		
Nearest Hospital: (see hospital map)	Emergency Ph	one#: 911			
REQUIR		ND/OR PROCE	DURES		
 [] Hot Work [] Excavation Checklist [X] Lock-Out Tag-Out [] Pre Entry Checklist [] Confined Space [] One Call [] Hoisting/Rigging [] Management Of Change [] Work Notification [] Other 					
HAZARDOUS ENERGY L	ΟΟΚ-ΟυΤ ΤΑΟ	G-OUT (LOTO)-	API 1646 Section	n 12	
Has piece of equipment or system been proper Has energy isolation been reviewed by all affer List All Affected Workers: Scott Pike					
CONFINED SPACE PRE-ENTRY	CHECKLIST /	RECLASSIFICA	TION - API 1646 S	ection 11	
Surrounding areas free of hazards? Yes Proper notifications made? Yes Does your knowledge indicate that the area w from all atmoshperic hazards? Yes Are you trained in confined space entry? Yes	vill remain free	Has the monitor Did you test the Yes Did the atmosph	n the operation of th been calibrated befo atmoshphere in the ere check as accepta ere be continuously	re use? Yes space befo able? Yes	re entry?
Sump Time Isolation Lel Oxygen Toxicity	Atmosphere	Electrical Loto	Lines Disconnected	Pumps Off	Valves Shut

I ensure this permit has been filled out completely and in conjunction with all applicable OSHA requirements to provide a safe workplace for all workers and myself. I will take action to eliminate hazardous conditions or acts identified on this job site.

Person in Charge Signature:

Job Clearance Form

Contractor ins this form. 2. Ir obtain signatu	form deale	prior to st er, manag	art o Jer or	f work. 1. R representat	eview form, tive of the jo	check ob to b	approp be perfo	oriate bo ormed a	oxes, read a nd potentia	nd sign at t I safety coi	he bot ncerns	tom of and
Station #: Rucker Food M	lart		on Add 1 Ru	اress: cker Ave, E۱	verett			Vork Order 1 3798	Number:	Date 12,	e: /04/201	4
Contractor Compa Northwest Tar Services, Inc.		onmental	Char	act Person in ge: tt Pike	Number of Workers:	JFA Ref Numbe (if requ		Start Time :	End Time: 12/4/2014 1:42:30 PM			Travel Distance: 0
Problem / Work De	escription							n Call: NO ige Claim: l	No			
		PPE	REQUI	RED (CHECK AL	L THAT APPLY A	AND/OR	FILL IN "C	DTHER" BL	ANK SPACE)			
Safety Vest: Yes		Hard Hat: N	N/A	Shoes/Boots:	Yes		Hearing	Protection	n: N/A		Respira	ator: N/A
Protective Clothin	g: Yes	Gloves: Ye	S	Safety glasse	s/goggles:Yes		Fire Res	sist Clothin	ng/Welding PPE	: N/A	Other:	
Contractor to	complete se	ection below	v if ciro	cumstances on	site or specifi	c to this	job may	generate	additional haz	ards not desci	ibed in t	he JSA.
Task Step					Hazards not co	vered by	y JSA Hov	w to reduc	e or eliminate	risk - include	extra PPI	E to be worn
Site Info Work	Permit Lea	ik Detect	or Ta	INK MONICOR								
Work documentati other customer re			<u>Risk</u> -	This form may	be used as JS	A <u>Mediu</u>	m Risk/H	<u>igher Risk</u>	- JSA Required	l <u>Higher Risk</u> -	JSA Requ	uired and
Examples of highe Hot Work Excavation Checkl Lock-Out Tag-Out Pre Entry Checklis Confined Space One Call Hoisting/Rigging Management Of C Work Notification Other This fo	ist t hange		for eao	:h job and upda	ited and re-sig	ned if cir	cumstar	nces chan <u>c</u>	ge or additiona	l hazards are	ide ntifie (d.
SIGN IN						SIGN OU	T AND O	PERATOR	VERIFICATION (DF WORK		
	Contractor		Signat	ure		General		Contract		Signature		
the cite	Representat Scott Pike		- J -			checks b contracto		Scott F	ntative Name	- 5		
Non-Operating	Site Represe		Signat	ure		Has the area bee		Site Rep	resentative	Signature		
sites: to be signed by	Name Contractor h	as discusse	ed lob	Clearance Form	n with me.	tidy and	safe?	Name				Π ,
contractor representative only. Contractor responsibility to	Thinh		5	Had	LR	ls the sil operator of status including remainin	aware of work any		resentative Co	omments	has	John John John John John John John John
inform site of: Hazards of the job, Effects on the site or operation, Any affect to gasoline deliveries, Energy isolation needed, Areas to be barricaded for worker/public safety.						commun All incide near mis	nges to ent nted and icated? ents, sses, ituations					

Please refer to work acknowledgement form for a complete list of parts installed.

Permit to Work

Yes

Yes

Yes

N/A

Yes

Yes

Away

Date:	12/04/2014
Job ID:	43798
Company:	Rucker Food Mart
Site:	Rucker Food Mart
Technician:	Scott Pike

E-Stop switch located

Storm drain(s) located

Identify other contractors

Identify evacuation routes

Assembly Area:

Hand/Eyewash facility located

Identify traffic ingress/egress

Site Evaluation

Scope of Work: Leak Detector Test Annual Tank Monitor Certification Annual Line Test Annual

Hazard Analysis: Hot Work Excavation Checklist Lock-Out Tag-Out Pre Entry Checklist Confined Space One Call Hoisting/Rigging Management Of Change Work Notification Other

	, way					
Personal Protective Equipm	ent	Pre-Operation Checks				
First Aid Kit stocked	Yes	Ladder Inspection **	N/A			
Note Depleted Stock:		Extension Cord Inspection	N/A			
Nitrile Gloves	Yes	Oxygen / Vapor Sensor Calibrated	Yes			
Safety Vest	Yes	Tools / Equipment in Good Repair	Yes			
Safety Glasses	Yes	Equipment Grounding	N/A			
Hard Hat	N/A	Hazard Communication	Yes			
Hearing Protection	N/A	** Work cannot be performed on ladder above 6				
Knee Pads	Yes					
Back Brace	N/A	Pre-Entry Checklist for Confined Sp	расе			
Hamess / Lanyard	N/A	Is the sump greater than 5' deep?	No			
		Is there hazardous liquid/vapor present?	No			
Safety Equipment		Is there a lack of oxygen within the space?	No			
_ockout / Tagout	Yes	IF ANY OF THESE ARE ANSWERED YES A PERMIT	MUST BE			
Dxygen / Vapor Sensor	Yes	ISSUED!				
/entilator	N/A					
Retrieval Equipment	N/A	Job Completion Checklist				
Delineators / Perimeter Fencing	Yes	Have all isolation mechanisms been removed	Yes			
Ground Fault Circuit Interruptor	N/A	Have you pumped from each product?	Yes			
20# Fire Extinguisher	Yes	Are all dispensers out of "stand-alone"	N/A			
Static Grounds	N/A	Have you walked the site for tools or hazards?	N/A			
Explosion-Proof Pump	N/A					
Absorbant Rags	N/A					
Communication Equipment (cell phone)	Yes]				
Scissor Lift**	N/A					
* For work above 6', an elevated work permi	it is required.]				
Refer to your Company Safety manual for st						
operating procedures and equipment standa						
contact your immediate supervisor to clarify	procedures not					

covered in your safety manual.

VEEDER-ROOT TLS-250 TANK LEVEL SENSOR	
CALENDAR CLOCK: DEC 4, 2014 1:43 PM	VEEDER-ROOT TLS-250 TANK LEVEL SENSOR
LEAK DETECT START: 12:01 AM	INVENTORY REPORT DEC 4, 2014 1:44 PM
LEAK DETECT STOP: 5:01 AM	TANK 1
AUTO PRINT :1 DISABLED	PRODUCT 1 2347 GALLONS FUE& 7674 GALS ULLAGE
AUTO PRINT :2 DISABLED	<pre>% 27.08 INCHES FUEL 1.7 INCHES WATE 54.1 DEGREES F</pre>
AUTO PRINT :3 DISABLED	TANK 2
SECURITY CODE: 000000	PRODUCT 2 1343 GALLONS FUE 8678 GALS ULLAGE
RELAY CONFIGURATION RLY 1 RLY	18.26 INCHES FUEL 0.0 INCHES WATE 52.3 DEGREES F
LEAK ALM NO NO HI WATER NO NO OVERFILL NO YES LO LIMIT NO NO THEFT ALM YES NO EXT.INPUT NO NO	TANK 3 PRODUCT 3 2759 GALLONS FUE 7262 GALS ULLAGE 30.43 INCHES FUEL 0.0 INCHES WATE 54.8 DEGREES F

А

12.5

Monday, December 14, 2015

Rucker Food Mart 4231 Rucker Ave Everett, WA 98203-2244

Rucker Food Mart 4231 Rucker Ave Everett, WA 95959

RE: Job ID 50778

Dear Valued Customer:

The **Official Report** including all test results and any supporting documentation are enclosed. The test data covered in this report are specific to each test conducted. For your convenience, a summary of testing conducted is provided on the report cover page.

Unless stated otherwise, all compliance testing data must be maintained on site for a minimum of **5 years**. Instructions for specific test types may follow.

Please call if you have any questions or require additional information.

Washington State Department of Ecology Tightness Checklist

As an added service to you, Northwest Tank has sent a copy of the Tightness Testing Checklist to the Department of Ecology. Please sign the final page of the DOE checklist marked "Tank Owner / Authorized Representative" if applicable and keep a copy on site for Five years. You DO NOT need to send an additional copy to the DOE.

Sincerely,

Svetlana Voukalin



Work Acknowledgement Form

Customer Name: Rucker Food Mart
Site Name: Rucker Food Mart
Site Address: 4231 Rucker Ave, Everett
Job Number: 50778
Ticket / PO#: COD
Date Of Service: 12/01/2015

Signature:

Testing Company: Northwest Tank & Environmental Services, Inc. Primary Technician: Address: 17407 59th Ave SE City/State/Zip: Snohomish, WA 98296 PH: (800) 742-9620

Start Time:	09:14:03	End Time:	10:31:21	Number of Technicians:	2

Scope of work scheduled: Leak Detector Test Annual Tank Monitor Certification Annual Line Test Annual

Monitoring System Issues Observed Upon Arrival:	Dispenser and UST System Issues Observed Upon Arrival:
None	None

Dispatch Notes:

Technician Comments:

All Good

-----Leak Detector-----

Comments - Site pass all LLD's restricted the flow when a leak was simulated

Site Representative Upon Checkin: Thinh

Umporto

Parts Installed

Qty	Part #	Model	Name	Serial	#	Core Re	etained	Repair Time
1	DISC	NWT	Discount	null		null		0
Monitoring System Issues Noted at Departure: Dispenser and UST System Issues Noted at Departur			oted at Departure:					
None					None			

Monthly Monitoring Records for the last 12 Months

	Tanks				
Tank State ID	Product	Tank Overfill and Monthly Monitoring Verification	Verification Method	Monthly Monitor	Records Maintained 12 Months
2	Premium	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes
3	Regular	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes
1	Diesel	DTFV = Drop Tube Flapper Valve	Visual	ATG	Yes

		Lines	
Line ID	Tank State ID	Line Monthly Monitoring Verification	Records Maintained 12 Months
1	3	Annual Line Test	Yes
2	2	Annual Line Test	Yes
3	1	Annual Line Test	Yes

Post-Operation Checks

Technician has pumped from each product? Yes

Technician has walked the site for remaining tools and hazards? Yes

Technician Signature:

45

Have all isolated mechanisms been removed? Yes Dispensers out of stand-alone? N/A

Site Representative at Checkout:

Monitoring System Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information

Company Name: Rucker Food Mart Site Address: 4231 Rucker Ave Facility Contact Person: Mr. Kim Make / Model Monitoring System: V-R TLS 250

B. Inventory of Equipment Tested/Certified

Date Of Testing: 12/01/2015 Site Name: Rucker Food Mart City, State, ZIP: Everett, WA 95959 Facility Phone Number: 425-339-1212 Serial #: 4774

Tank #: 2 Premium		Tank #: 3 Regular	
In-Tank Gauging Probe	Mag 1 Probe	In-Tank Gauging Probe	Mag 1 Probe
Annular Space or Vault Sensor:	N/A	Annular Space or Vault Sensor:	N/A
Piping Sump / Trench Sensor:	N/A	Piping Sump / Trench Sensor:	N/A
Fill Sump Sensor:	N/A	Fill Sump Sensor:	N/A
Mechanical Line Leak Detector:	FX1V	Mechanical Line Leak Detector:	FX1V
Electronic Line Leak Detector:	N/A	Electronic Line Leak Detector:	N/A
Tank Overfill / High Level Sensor:	Emco DT	Tank Overfill / High Level Sensor:	Emco DT
Other:		Other:	
Tank #: 1 Diesel			
In-Tank Gauging Probe	Mag 1 Probe		
Annular Space or Vault Sensor:	N/A		
Piping Sump / Trench Sensor:	N/A		
Fill Sump Sensor:	N/A		
Mechanical Line Leak Detector:	FX1DV		
Electronic Line Leak Detector:	N/A		
Tank Overfill / High Level Sensor:	Emco DT		
Other:			

Dispenser ID:	1/2	Dispenser ID:	3/4
Dispenser Containment Sensors Model:	N/A	Dispenser Containment Sensors Model:	N/A
Shear Valves: Yes	Floats & Chains: N/A	Shear Valves: Yes	Floats & Chains: N/A
Dispenser ID:	5/6	Dispenser ID:	7/8
Dispenser Containment Sensors Model:	N/A	Dispenser Containment Sensors Model:	N/A
Shear Valves: Yes	Floats & Chains: N/A	Shear Valves: Yes	Floats & Chains: N/A

C. Certification

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report (check all that apply):

Technician Name: Scott Pike Certification Number: 5053249-U3 Expiration Date: 11/22/2015 Signature:

Testing Company Name: Northwest Tank & Environmental Services, Inc. Address: 17407 59th Ave SE Snohomish, WA 98296 Date of Testing: 12/01/2015

D. Results of Testing/Service

D. Results	of resultg/service
Yes	Is the audible alarm operational?
Yes	Is the visual alarm operational?
N/A	Were all sensors visually inspected, functionally tested, and confirmed operational?
N/A	If alarms are relayed to a remote monitoring station, is all communications equipment operational?
N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected?
N/A	If yes: which sensors initiate positive shut-down?
N/A	Did you confirm positive shut-down due to leaks and sensor failure/disconnection?
N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly?
N/A	If so, at what percent of tank capacity does the alarm trigger?
No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E below.
N/A	Was liquid found in any secondary containment systems designed as dry systems?
	If yes, what type of liquid?
Yes	Was monitoring system set-up reviewed to ensure proper settings? Attach setup reports, if applicable.
Yes	Is all monitoring equipment operational per manufacturers specifications?

In section E. below, describe how and when these deficiencies were or will be corrected. **E. Comments**

State Tank ID	Product	Manual Stick Readings(inches)	Gauge Readings(inches)	Difference
2	Premium	34	32.13	1.87
3	Regular	32.5	30.98	1.52
1	Diesel	73	71.14	1.86

F. In-Tank Gauging / SIR Equipment

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Yes	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
No	Were all tank gauging probes visually inspected for damage and residue buildup?
Yes	Was accuracy of system product level readings tested?
Yes	Was accuracy of system water level readings tested?
No	Were all probes reinstalled properly?
Yes	Were all items on the equipment manufacturer's maintenance checklist completed?

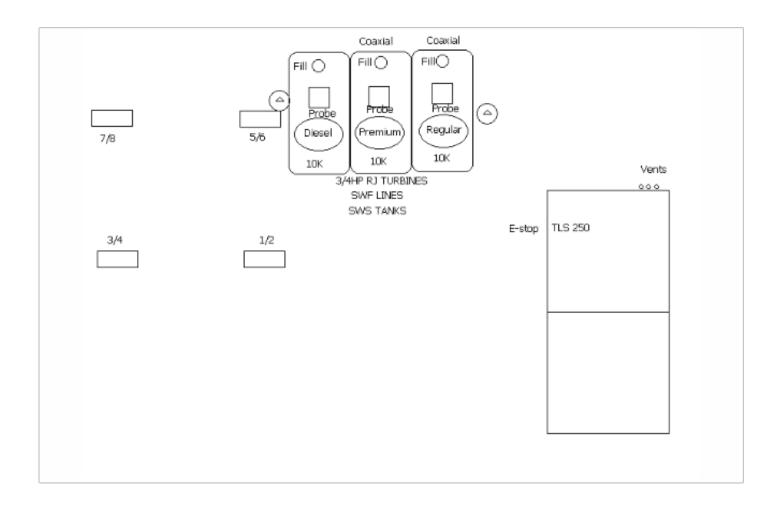
G. Line Leak Detectors (LLD):

Yes	For equipment startup or annual equipment certification, was leak simulated to verify LLD performance?
3 GPH	Leak Rate
Yes	Were all LLDs confirmed operational and accurate within regulatory requirements?
Yes	Was the testing apparatus properly calibrated?
Yes	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
N/A	Were all items on the equipment manufacturer's maintenance checklist completed?

Site Map

Customer Name: Rucker Food Mart Site Name: Rucker Food Mart

Site Address: 4231 Rucker Ave, Everett Job Number: 50778



Company Name: Rucker Foo	d Mart	Job ID Number: 50778				
Site Name: Rucker Food Mar	t	Technician Name: Scott Pike				
Address: 4231 Rucker Ave Ev	verett, WA 95959	License Number: 5053249-U3				
Test Date/Time: 12/01/2015 0	9:14:03 am	Expiration Date: 11/2	22/2015			
Product: Diesel	Make: Red Jacket	Operating Pressure: 30	Result: Pass			
Tank ID: 1	Model: FX1DV	Holding Pressure: 30				
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 100				
Additional Data For Mechan	ical Leak Detectors Only					
Metering Pressure: 17						
Step Through Time: 3						
Product: Premium	Make: Red Jacket	Operating Pressure: 25	Result: Pass			
Tank ID: 2	Model: FX1V	Holding Pressure: 25				
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 200				
Additional Data For Mechan	ical Leak Detectors Only					
Metering Pressure: 13						
Step Through Time: 3						
Product: Regular	Make: Red Jacket	Operating Pressure: 27	Result: Pass			
Tank ID: 3	Model: FX1V	Holding Pressure: 27				
LD Type: Mechanical	Serial#: UNK	Bleedback (ml): 200				
Additional Data For Mechan	ical Leak Detectors Only					
Metering Pressure: 14						
Step Through Time: 3						

Leak detector testing conducted in accordance with the procedures and limitations of the LDT 890 leak detector tester. A leak is simulated at the highest point in the line using the LDT 890 calibrated to 3 gph at a metering pressure of 10 psi. The owner or operator of the UST system is required to ensure any failed leak detector is replaced before placing the line back in service.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments: Site pass all LLD's restricted the flow when a leak was simulated

Technician Name: Scott Pike Signature:

Date: 12/01/2015



1. UST SYSTEM LOCATION AND OWNER	
UBI Number: 602-886-207	Site ID Number: 4063
Site / Business Name	Rucker Food Mart Rucker Food Mart
Site Address	4231 Rucker Ave Snohomish
	Everett, WA 98203-2244
Telephone	425-339-1212
UST Owner/Operator	Rucker Food Mart
Mailing Address	4231 Rucker Ave
	Everett, WA 98203-2244
Telephone	425-339-1212
2. FIRM PERFORMING WORK	
Service Company	Northwest Tank & Environmental Services, Inc.
Service Co Address	17407 59th Ave SE
	Snohomish, WA 98296
IFCI Certification Number: 5053249-U3	Certification Issue Date (Month/Year): 2013-11-22 00:00:00
Telephone	(800) 742-9620
I. TIGHTNESS TESTING METHOD	Date Of Test: 12/01/2015

1. Tightness testing method(s) used (indicate if more than one method was used): Test method name/version/Manufacturer:

ATG

Note: A tank must be tested up to the product level limited by the overfill prevention device. If an overfill prevention device is not installed, a tank must be tested up to the 95% full level. When underfill volumetric testing methods are used, the tank must be: 1) filled with product to the 95% full level or 2) the portion of the tank above the product level must be tested using a non volumetric method which meets performance standards, for tightness testing.

2. Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (required for single wall tanks): N/A

 Method used for release detection: ATG
 Type of test conducted: Line and Leak Detectors 4. Reason for conducting tightness test: Required Release Detection Method6. Test method type: Volumetric

II. TEST METHOD CHECKLIST

The following items shall be initialed by the Certified Supervisor whose signature appears on this form:

1. Has the tightness testing method used been demonstrated to meet the performance standard specified in the UST rules for the conditions under which the test was conducted? (e.g. detecting a 0.10 gallon per hour leak rate with probability of detection of at least 95% and a probability of false alarm no more than 5%)

2. Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being setup.

3. Was the product level in the tank during the test within the limitations of the test methods performance standards?

4. If groundwater was present above the bottom of the tank, have the testing procedures accounted N/A for its presence? (required for single wall tanks)

5. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? (Note: Tank owner must report a failed tightness test as a suspected release within 24 hours N/A to UST staff at the appropriate Ecology office.

II. TANK INFORMATION CHECKLIST			-	÷		<u>.</u>
1. Tank ID Number (tank name registered with Ecology)	2	3	1			
2. Date Installed	1986-01-01	1986-01-01	1986-01-01			
3. Tank capacity in gallons	10000	10000	10000			
4. Last substance stored	Premium	Regular	Diesel			
5. Number of tank compartments	1	1	1			
6. Tank type (S) Single Wall; (D) Double Wall; (P) Partitioned	SW	SW	SW			
7. Is overfill device present? (Yes/No)	Drop Tube	Drop Tube	DTFV = Drop Tube Flapper Valve			
Tank ID associated to each tank	2	3	1			
 Percentage of product in tank during test? (Volume % must comply with test method certification requirements) 						
9. The test method used can detect a leak of how many GPH?	.05	.05	.05	.05	.05	.05
10. The numerical tank test results are? (In gallons per hour)						
11. Based on evaluating test results and conducting any retesting as necessary as per test protocol to obtain conclusive test results; the test results are?						

Yes	45
Yes	45
Yes	Ly SP
N/A	45
N/A	45

Yes/No/NA

Initials

IV. LINE AND LEAK DETECTOR INFORMATION

Tank ID associated to each line	3	2	1		
1. Piping Type: (S) Single Wall; (D) Double Wall	Single	Single	Single		
2. Pump Type: (T) Turbine; (S) Suction	Pressure	Pressure	Pressure		
3. (a) If turbine is leak detector present (Yes/No)	Yes	Yes	Yes		
If present, was lead seal intact (Yes/No)	N/A	N/A	N/A		
(b) If suction, check valve located at: (T)tank; (P)pump	N/A	N/A	N/A		
4. The numerical line test results are? (gallons per hour)	.00000	.00000	.00000		
5. Line tightness test results? (Pass/Fail)	Pass	Pass	Pass		
Tank ID associated to each leak detector	1	2	3		
Leak Detector Test Results (Pass/Fail)	Pass	Pass	Pass		

V. REQUIRED SIGNATURES

I hereby attest, that I have been the Certified Supervisor present during the above listed testing activities, and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures, pertaining to underground storage tanks.

12/01/2015

Ly Sr

Date

Signature of Certified Supervisor

Printed Name

Scott Pike

Date

Signature of Tank Owner/Authorized Representative

Printed Name

Line Tightness Test Results

Company Name:	Rucker Food Mart	Job ID Number:	50778
Site Name:	Rucker Food Mart	Technician Name:	Scott Pike
Address:	4231 Rucker Ave Everett, WA 98203-2244	License Number:	5053249-U3
Test Date:	12/01/2015	Expiration Date:	11/22/2015

Line Tightness Test Data

Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Regular 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	3 Red Jacket 3/4 HP 25 37.5 Impact Valve Ball Valve 0.060 0.060	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result:	09:40 10:10 30mins .00000 Yes N/A Pass
Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Premium 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	2 Red Jacket 3/4 HP 27 40.5 Impact Valve Ball Valve 0.060 0.060	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result:	09:40 10:10 30mins .00000 Yes N/A Pass
Product: Approx Length: Size: Line Material: Wall Type: Boot Back: LD Present: Line Type:	Diesel 25 2 SWF Single N/A 25 Pressure	Tank ID: STP MFG: Operating Pressure: Test Pressure: Isolation Dispenser: Isolation Pump: Initial Cylinder Level: Final Cylinder Level:	1 Red Jacket 3/4 HP 30 45 Impact Valve Ball Valve 0.060 0.060	Start Time: End Time: Total Test Time: Final Leak Rate: Impact Valves Operational: Check Valve Location: Result:	09:40 10:10 30mins .00000 Yes N/A Pass

Line tightness testing conducted in accordance with the procedures and limitations of the Accurite Training and Services Corp. pipeline tester. A consistent leak rate of .01 gph or higher at 150% of normal operating pressure is considered a failure. The owner or operator of the UST system is required to report all failures to the appropriate agency within 24 hours.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments:

Technician Name: Scott Pike Signature:

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Date: 12/01/2015

Permit to work for Petroleum/Convenience Sites

Worker Signatures: I have reviewed and understand of this permit and its attachments. I will report hazard or acts identified on this jobs ite to my supervisor or representative.	dous conditions
Person In Charge: Scott Pike	Location: Rucker Food Mart, 4231 Rucker Ave Everett, WA
Date: 12/01/2015	Time Issued: 12/01/2015 09:40 am
Work Order#: 50778	Time Expires: 12/02/2015 09:40 am
Nearest Hospital: (see hospital map)	Emergency Phone#: 911
REQUI	RED PERMITS AND/OR PROCEDURES
 [] Hot Work [] Excavation Checklist [] Lock-Out Tag-Out [] Pre Entry Checklist [] Confined Space [] One Call [] Hoisting/Rigging [] Management Of Change [] Work Notification [] Other 	
HAZARDOUS ENERG	BY LOCK-OUT TAG-OUT (LOTO)- API 1646 Section 12
Has piece of equipment or system been properly iso Has energy isolation been reviewed by all affected v List All Affected Workers: Scott Pike Juan Carrillo	vorkers? Yes
CONFINED SPACE PRE-ENT	IRY CHECKLIST / RECLASSIFICATION - API 1646 Section 11
Surrounding areas free of hazards? Yes Proper notifications made? Yes Does your knowledge indicate that the area will rema atmoshperic hazards? Yes Are you trained in confined space entry? Yes	Are you trained in the operation of the air monitor used? Yes Has the monitor been calibrated before use? Yes Did you test the atmoshphere in the space before entry? Yes Did the atmosphere check as acceptable? Yes Will the atmosphere be continuously monitored? Yes
Sump Time Isolation Lel Oxygen Toxicity A	Atmosphere Electrical Loto Lines Disconnected Pumps Off Valves Shut
I see a see als to see the large set of the	

I ensure this permit has been filled out completely and in conjunction with all applicable OSHA requirements to provide a safe workplace for all workers and myself. I will take action to eliminate hazardous conditions or acts identified on this job site.

Person in Charge Signature:



Job Clearance Form

	ctions prior to start o									of th	is form	. 2. Inform
Station #: Rucker Food Ma		ation Ad			poten	lial safety cor	Wo	ns and obtain sigr rk Order Number: 778	nature.	Date 12/	e: 01/201	5
Northwest Tank & Environmental Charge			ontact Person in	t Person in p: Number of		JFA Reference Number (if required):		End Time: time: 12/1/2015	10:31:21	Labor: 0.00	Travel Time: 0.00	Travel Distance: 0
Problem / Work Description						Return Damag						
	P	PE REQ	UIRED (CHECK AL	L THAT A	APPLY A	ND/OR FILL IN "(OTHE	R" BLANK SPACE)				
Safety Vest: Yes	Hard Hat: N	/A	Shoes/Boots: Yes	8		Hearing F	Protec	ction: N/A			Respirat	or: N/A
Protective Clothing: Ye	es Gloves: Yes		Safety glasses/go	oggles: Ye	es	Fire Resi	st Clo	othing/Welding PPE: N/A	١		Other:	
C	Contractor to complete sect	ion belo	w if circumstances of	on site or	specific	to this job may ge	nerate	e additional hazards not	t described in	n the JS	SA.	
Task Step					Hazards	not covered by .	JSA	How to reduce or elimi	nate risk - in	clude e	extra PPE	to be worn
	o Work Permit Leak											
Work documentation re may apply Examples of higher/me	equirements: <u>Lower Risk</u> - ⁻	This forr	m may be used as J	ISA <u>Mediu</u>	um Risk/ł	<u>Higher Risk</u> - JSA	Requ	uired <u>Higher Risk</u> - JSA	Required an	d other	r custome	er requirements
Hot Work Excavation Checklist Lock-Out Tag-Out Pre Entry Checklist Confined Space One Call Hoisting/Rigging Management Of Chang Work Notification Other	je											
-	This form must be cor	npleted	for each job and up	dated and	l re-signe	ed if circumstance	s cha	inge or additional hazar	ds are identi	fied.		
SIGN IN					S	IGN OUT AND O	PERA	TOR VERIFICATION (of work			
Operating sites: to be signed by the site representative. Non-	Contractor Representative Name	Signati	ure			eneral safety necks by contract		Contractor Representative Name	Signature			
Operating sites: to be signed by contractor representative only.	Scott Pike	2	- - - - 		be sa	as the work area een left tidy and afe?		Scott Pike	L	1.54	\supset	
Contractor	Site Representative Name					the site operator ware of status of	S	Site Representative Nam	ne Signature			
site of: Hazards of the job,	Contractor has discussed Thinh	Contractor has discussed Job Clearance Form with me. Thinh				ork including any maining isolation re changes to		Thinh		Ĥ	\sum	
Effects on the site or operation, Any affect to gasoline deliveries, Energy isolation needed, Areas to be barricaded for worker/public safety.	Thinh Church Mars A			do co Al m	upment ocumented and ommunicated? I incidents, near isses, unsafe tuations reported?	N	Site Representative Con	interits				

Please refer to work acknowledgement form for a complete list of parts installed.

Permit to Work

Date: Job ID: Company: Site:	12/01/2015 50778 Rucker Food Mart Rucker Food Mart		Scope of Work: Leak Detector Test Annual Tank Monitor Certification Annual Line Test Annual
Technician:	Scott Pike		Hazard Analysis: Hot Work
	Site Evaluation		Excavation Checklist
E-Stop switch locate	ed	Yes	Lock-Out Tag-Out
Storm drain(s) locate	ed	No	Pre Entry Checklist Confined Space
Hand/Eyewash facil	ity located	Yes	One Call
Identify other contract	ctors	Yes	Hoisting/Rigging
Identify traffic ingress/egress		Yes	Management Of Change
Identify evacuation r	outes	Yes	Work Notification
Assembly Area:		away	Other

Personal Protective Equipme	ent	Pre-Operation Checks			
First Aid Kit stocked	Yes	Ladder Inspection **	N/A		
Note Depleted Stock:	·	Extension Cord Inspection	N/A		
Nitrile Gloves	Yes	Oxygen / Vapor Sensor Calibrated	Yes		
Safety Vest	Yes	Tools / Equipment in Good Repair	Yes		
Safety Glasses	Yes	Equipment Grounding	N/A		
Hard Hat	N/A	Hazard Communication	Yes		
Hearing Protection	N/A	** Work cannot be performed on ladder above 6'.			
Knee Pads	Yes				
Back Brace	N/A	Pre-Entry Checklist for Confined S	bace		
Harness / Lanyard	N/A	Is the sump greater than 5' deep?	No		
		Is there hazardous liquid/vapor present?	No		
Safety Equipment		Is there a lack of oxygen within the space?	No		
Lockout / Tagout	Yes	IF ANY OF THESE ARE ANSWERED YES A PERMIT MUST BE			
Oxygen / Vapor Sensor	Yes	ISSUED!			
Ventilator	N/A				
Retrieval Equipment	N/A	Job Completion Checklist			
Delineators / Perimeter Fencing	Yes	Have all isolation mechanisms been removed	Yes		
Ground Fault Circuit Interruptor	N/A	Have you pumped from each product?	Yes		
20# Fire Extinguisher	Yes	Are all dispensers out of "stand-alone"	N/A		
Static Grounds	N/A	Have you walked the site for tools or hazards?	N/A		
Explosion-Proof Pump	N/A				
Absorbant Rags	N/A				
Communication Equipment (cell phone)	Yes				
Scissor Lift**	N/A				
** For work above 6', an elevated work permit is	required.				
Refer to your Company Safety manual for stand					
procedures and equipment standards. Please co					
immediate supervisor to clarify procedures not c	overed in your				
safety manual.					

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VEEDER-ROOT TLS-250 TANK LEVEL SENSOR ALENDAR CLOCK: EC 1, 2015 0:03 AM EAK DETECT START: 2:01 AM SAK DETECT STOP: 5:31 AM JTO PRINT :1 SABLED TO PRINT :2 SABLED TO PRINT :3 SABLED CURITY CODE: 0000 LAY CONFIGURATION: RLY 1 RLY 2 ΆK ALM NO NO WATER NO NO ERFILL NO YES LIMIT NO NO NO SFT ALM YES . INPUT NO NŌ NO A. ast

VEEDER-ROOT TLS-250 NK LEVEL SENSOR ENTORY REPORT i, 2015 04 AM K i DUCT i 935 GALLONS FUEL 065 GALS ULLAGE .13 INCHES FUEL 1.8 INCHES WATER 3.2 DEGREES F K 2 DUCT 2 GALLONS FUEL GALS ULLAGE 790 210 INCHES FUEL .98 INCHES WATES 0.0 DEGREES F 51.9 NK 3 染动的 (1.77 7940 GALLONS FUEL 2060 GALS ULLAGE

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