## UNDERGROUND STORAGE TANK CLOSURE REPORT

## FORMER ROBINSON TERMINAL NORTH 501 NORTH UNION STREET ALEXANDRIA, VIRGINIA

## Prepared for:

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ICOR Project No. 16-CI.02

**APRIL 25, 2016** 

## **SIGNATURE SHEET**

This *Underground Storage Tank Closure Report* (USTCR) was prepared in accordance with Commonwealth of Virginia Department of Environmental Quality requirements. The report details the tank closure procedures implemented in March 2016 to properly close three out-of-service 8,000-gallon diesel fuel underground storage tanks located at the Former Robinson Terminal North property, 501 North Union Street, in Alexandria, Virginia. The USTCR was prepared by:

April 25 2016

Ike L. Singh Date Program Manager

ICOR, Ltd.

The USTCR was reviewed and approved for release by the below Commonwealth of Virginia Certified Professional Geologist (CPG):

April 25, 2016

Michael A. Bruzzesi, CPG Date Project Manager/Senior Geologist

VA CPG No. 2801 001428

ICOR, Ltd.

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and total xylenes

CPG Certified Professional Geologist

CWT-WTNCs groundwater concentrations for a construction worker in a trench, water

table not contacted

CWT-WTCs groundwater concentrations for a construction worker in a trench, water

table contacted

ICOR ICOR, Ltd.

mg/kg milligrams per kilogram
mg/l milligrams per liter
PSS Phase Separation Sciences
PID photo-ionization detector
PMI Petroleum Management, Inc.

PMI Petroleum Management, Inc.
RRR Release Reporting Requirements
T2SCUs Tier II screening concentrations for

T2SCUs Tier II screening concentrations for unrestricted (residential) land use T3CGSLs Tier III groundwater screening levels for restricted groundwater use

unrestricted (commercial) land use inhalation of indoor air

T3RGSLs Tier III groundwater screening levels for restricted groundwater use

unrestricted (residential) land use inhalation of indoor air

T3SCRs Tier III screening concentrations for restricted (commercial/industrial) land

use

TPH total petroleum hydrocarbons

TPH-DRO diesel range TPH

UST underground storage tank

USTCR Underground Storage Tank Closure Report

VDEO Commonwealth of Virginia Department of Environmental Quality

VOC volatile organic compound VOV volatile organic vapor

WQS water quality standards for contaminants of concern for other surface waters

## 1.0 INTRODUCTION

This *Underground Storage Tank Closure Report* (USTCR) details the underground storage tank (UST) closure activities conducted in March 2016 to properly close three out-of-service 8,000-gallon diesel fuel underground storage tanks (USTs) located at the Former Robinson Terminal North property (herein referred to as the SITE), 501 North Union Street, in Alexandria, Virginia. The closure of the USTs was supervised and documented by ICOR, Ltd. (ICOR) under contract by the owner of the SITE (Alexandria North Terminal, LLC). The closure activities were conducted under supervision of a Commonwealth of Virginia Certified Professional Geologist (CPG).

The UST closure activities were conducted in accordance with protocols established in the Commonwealth of Virginia Department of Environmental Quality's *Storage Tank Program Technical Manual* (VDEQ's guidance document #01-2024D, dated 10 May 2011). A detailed discussion of the UST closure activities is provided in the following sections. Photodocumentation of the tank closure activities is included as Attachment 1.

### 2.0 SITE DESCRIPTION

The SITE is located at 501 North Union Street in Alexandria, Virginia, at the intersection of Oronoco Street and North Union Street. A site location map is included as Figure 1. The SITE is situated in a mixed commercial and residential land use area. Adjacent property use is depicted on the aerial photograph included as Figure 2.

The SITE is currently improved with two 1-story, slab-on-grade brick and concrete warehouse, a large concrete dock, railroad spur, a small wood-frame shed (near the dock), gravel and asphalt parking areas, and landscaping. The three USTs that were removed were buried beneath a grassy area located near the northeast corner of the SITE, close to the Potomac River. The tanks were reportedly installed in the 1970s. The USTs were surrounded by several tankfield observation and monitoring wells (discussed in detail in Section 3.0). The USTs were taken out of use several months before they were removed and were previously used to store and dispense diesel fuel. Diesel fuel was dispensed via two dispensers located on the east-central portion of the SITE, next to the small wood shed. A site plan depicting existing conditions is included as Figure 3.

Topography at SITE is relatively flat. The SITE is bound to the north and east by the Potomac River, to the south by Oronoco Street across which is Founders Park, and to the west by North Union Street across which is another warehouse associated with the Former Robinson Terminal North.

## 3.0 BACKGROUND

In November 2005, a release of diesel fuel was suspected from one of the three diesel USTs. The tanks were in use at the time of the suspected release. A release was suspected because a

small volume of diesel fuel (12 ounces) was recovered from a tankfield observation well. Following the suspected release, all three of the tanks were precision (integrity) tested and found to be sound. The VDEQ assigned the suspect release PC# 2006-3131 and requested that a Site Characterization Study (SCS) be performed.

In April 2006, TEC advanced 13 test borings (designated TEC-B1 through TEC-B13) adjacent to the USTs and fuel dispensers. Monitoring wells were installed within seven of the borings (designated TEC-MW1 through TEC-MW7). The boring and well locations are depicted on Figure 4. During advancement of the borings, TEC collected soil samples for field and laboratory analysis. The soil samples were submitted to a laboratory for analysis of gasoline and diesel range total petroleum hydrocarbons (TPH-GRO and TPH-DRO, respectively). TEC also checked the wells for the presence of free product on two occasions and collected groundwater samples for laboratory analysis from the wells on one occasion. The groundwater samples were submitted to a laboratory for analysis of TPH-GRO, TPH-DRO, benzene, toluene, ethylbenzene, total xylenes, methyl tertbutyl either (MTBE), and naphthalene.

TEC noted evidence of impact to soil in only a few of the test borings advanced (TEC-B6 and TEC-B9) and the impacts appeared to be limited and localized. TPH-GRO and TPH-DRO were detected in soil samples collected from these borings at relatively low concentrations. Free product was not observed in the monitoring wells. MTBE was the only constituent detected in the groundwater samples and was detected in a few of the well samples (TEC-MW1 through TEC-MW4) at relatively low concentrations. Groundwater was encountered at depths ranging from approximately 6 to 8 feet below grade and groundwater flow was inferred to the east (towards the Potomac River) under both high and low tide conditions. TEC did not believe the limited and localized nature of impacts and relatively low detections of petroleum constituents in soil and groundwater warranted further assessment or cleanup and recommended "case closure" of PC# 2006-3131. PC# 2006-3131 is listed as closed by the VDEQ; thus, the VDEQ concurred with TEC's recommendation.

## 4.0 UST CLOSURE

The UST closure activities consisted of removing the dispensers; emptying the tanks and associated distribution piping; excavating and removing the tanks and associated distribution and vent piping; cleaning the tanks; collecting confirmatory soil samples for laboratory analysis from the resulting tank excavation; and restoring the disturbed area with clean backfill. It should be noted that a small portion of the distribution piping leading from the tankfield to the dispenser island was temporarily left in place because it was overlain by thick concrete. This portion of the pipeline was cleaned in place and will be removed in conjunction with demolition of the warehouse and redevelopment of the SITE in the near future. To assess the pipelines left in place, test borings were advanced adjacent to the pipeline and soil samples were collected for laboratory analysis.

The tank closure activities were supervised by ICOR and were performed by Petroleum Management, Inc. (PMI) of Crofton, Maryland. PMI is a qualified and experienced tank removal contractor.

Before conducting the tank removal, a permit was obtained from the City of Alexandria and PMI contacted Virginia One Call to mark out subsurface utilities within the work area. A copy of the permit is included as Attachment 2.

## 4.1 Emptying and Cleaning the USTs

On March 22 and 23, 2016, the tanks were cleaned and emptied. All fuel distribution piping was also emptied. Cleaning and emptying of the tanks consisted of removing remaining fuel, unearthing the tops of each tank, cutting a hole in each tank, entering each tank, and thoroughly cleaning each tank using a heated pressure washer. All necessary safety precautions were taken before entering, during entering, and during cleaning of the tank. Safety precautions included checking each tank for the potential presence of explosive gases before cutting an access hole, checking each tank for proper oxygen levels and explosive vapors before entering, entering the tank according to a confined space entry permit, and proper use of personal protective equipment. Fuel distribution piping was emptied using a vacuum truck, with recovery performed at strategic locations where the piping was cut. It should be noted that the piping was relatively "dry" with little fuel recovered.

Remnant fuel, rinse water, and sludge recovered during emptying and cleaning of the tanks and piping were recovered using a vacuum truck. The vacuum truck was provided and operated by PMI. An estimated 545 gallons of fuel, 415 gallons of rinse water, and 100 gallons of sludge were recovered. The fuel, fluids, and sludge were transported to PMI for treatment. Manifests for the fuel, fluids, and sludge are included in Attachment 3.

## 4.2 Dispenser Removal

The dispensers were removed on March 23, 2016. The dispensers were removed by PMI and disposed with other tank debris.

## 4.3 UST Excavation and Removal

The tanks were unearthed and removed between March 23 and 24, 2016. Removal consisted of exposing the entire top of each tank, removing each tank, and demolishing each tank. The tops of the tanks were encountered at a depth of approximately 2 to 3 feet below ground surface (bgs). The tanks and associated piping were covered with and surrounded by soil. Soil overlying and surrounding the tanks and piping was excavated and removed using a trackhoe provided and operated by PMI.

Soil generated during removal of the tanks was stockpiled on plastic sheeting adjacent to the tank excavations. The soil was inspected by ICOR for visual and olfactory evidence of a release (i.e., petroleum staining and petroleum odors) and was field screened with a photo-ionization detector (PID). The PID was used to screen the soil for volatile organic vapors (VOVs). No evidence of impact was noted. During excavation and removal of the tanks, the work area was periodically monitored with an explosive meter and PID. No elevated explosive meter or PID readings were noted in the work area. After exposing the top of each tank, their

fill port, vent pipe, pumps, and all access plugs were removed. Additionally, all exposed fuel piping was also removed as it was exposed.

After each tank was exposed enough to allow for removal, it was removed from the excavation and placed on plastic sheeting pending an inspection. The removed tanks were inspected by ICOR with no holes or breaches observed. The tanks and open excavations were also inspected by the VDEQ and City of Alexandria. A copy of the City of Alexandria Inspection report is included in Attachment 2.

Following the inspections, the tanks were crushed into manageable pieces using the excavator bucket. The tank pieces were crushed into small enough pieces to fit into a roll-off container. The tank debris, fuel and vent piping, and other tank system components were placed in roll-offs for transport to King George Landfill in King George, Virginia. PMI provided the roll-offs and transported the tank system debris to the landfill. Manifests for the tank system debris are included in Attachment 3.

Each tank was constructed of double-walled fiberglass and measured approximately 20 feet in length and 8 feet in diameter. The tanks were anchored to concrete piers with two steel straps located at each end of the tank. The lower portion of the tank excavation contained a small volume of water (about 1 to 2 feet). Based on the findings of past studies at the SITE (e.g., SCS), the water is believed to be groundwater. Free product was not observed to be floating on the excavation water and the water did not exhibit petroleum odors or sheens. All three tanks were in good condition and an inspection of the tanks prior to and after removal did not identify any holes or breaches. All fuel piping was also in good condition with no holes or breaches observed.

Soil surrounding and comprising the base of the tank excavation consisted mainly of silty sand with little clay. To assess the soil for potential impacts, samples were collected from the excavation sidewalls for inspection and field screening by ICOR. The samples were collected using the excavator bucket. The soil was inspected for visual and olfactory evidence of a release (i.e., petroleum staining and petroleum odors) and was field screened with a PID. The PID was used to screen the soil for VOVs. The vast majority of soil appeared to be "clean"; however, faint petroleum odors and slightly elevated PID readings were noted near the base of the excavation at the two southern-most tank locations.

## 4.4 Post-Excavation Soil and Groundwater Sampling

After all three tanks were removed, ICOR collected confirmatory soil samples for laboratory analysis from the tank excavation sidewalls near the soil/groundwater interface. The samples were collected at locations and depths approved by the VDEQ and were biased o locations where impacts were noted. A total of six samples were collected and were designated UST-1A, UST-1B, UST-2A, UST-2B, UST-3A, and UST-3B. The samples were collected at a depth of approximately 9 to 9.5 feet bgs. Additionally, a direct-push sampling rig was mobilized to the SITE on March 30, 2016 to advance test borings and collect soil samples adjacent to the fuel pipelines left in place. A total of four samples were collected and were

designated PL1 through PL4. The samples were collected at a depth of approximately 2 to 3 feet bgs. The approximate sampling locations are depicted on Figure 4.

The soil samples collected from the tank excavations were collected directly from the bucket of the excavator and were grab samples. The test boring samples were collected directly from sample cores generated during boring advancement and were grab samples. Each grab sample represented an approximately 0.5 to 1 foot layer of soil. The soil samples were collected by hand and were transferred directly into sample containers. Disposable sample gloves were worn during sampling and were changed between sample locations.

In addition to the tank excavation samples, two composite samples were collected from the stockpiled soil generated during tank removal. The composite samples were collected by hand, were prepared by combining several aliquots distributed throughout the stockpile, and were transferred directly into sample containers. Disposable sample gloves were worn during sampling and were changed between sample preparations.

At the request of the VDEQ, groundwater samples were collected from select existing wells surrounding the removed tanks. Samples were collected from wells TEC-MW2 through TEC-MW5. The samples were collected after adequate purging of the wells using a peristaltic pump. The samples were transferred directly from the sample tubing into sample containers. Disposable sample gloves were worn during sampling and were changed between sample locations. The samples were unfiltered grab samples.

Immediately after the collection, the samples were placed in an ice-filled cooler. At the conclusion of sampling, the cooler was shipped to the project laboratory by courier. The soil and groundwater samples were submitted to Phase Separation Sciences (PSS) of Baltimore, Maryland for analysis of TPH-DRO using United States Environmental Protection Agency (EPA) Method 8015. The groundwater samples were additionally analyzed for select volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX) and naphthalene using EPA Method 8260B. PSS is a Commonwealth of Virginia-certified laboratory.

The soil analytical results for the excavation, test boring, and composite samples are presented on Tables 1, 2 and 3, respectively. Copies of the laboratory reports of analysis are included in Attachment 4. The analytical results were compared to VDEQ Release Reporting Requirements (VDEQ-RRRs), VDEQ Tier II screening concentrations for unrestricted (residential) land use (VDEQ-T3SCRs), and Tier III screening concentrations for restricted (commercial/industrial) land use (VDEQ-T3SCRs). TPH-DRO were detected in three of the excavation samples (UST-2B, UST-3A, and UST-3B) at concentrations above VDEQ-RRRs. VDEQ-T2SCUs and VDEQ-T3SCRs have not been established for TPH-DRO.

The groundwater analytical results are presented on Table 4. A copy of the laboratory report of analysis is included in Attachment 4. The analytical results were compared to VDEQ Tier III groundwater screening levels for restricted groundwater use unrestricted (residential) and commercial land use inhalation of indoor air (VDEQ-T3RGSLs and VDEQ-T3CGSLs, respectively), VDEQ groundwater concentrations for a construction worker in a trench, water

table not contacted and water table contacted (VDEQ-CWT-WTNCs and VDEQ-CWT-WTCs, respectively), and VDEQ water quality standards for contaminants of concern for other surface waters (VDEQ-WCSs). The analytical results were also compared to the previous well sampling event data collected in 2006. Naphthalene was detected in the recent samples collected from wells TEC-MW2 and TEC-MW4 at concentrations above VDEQ-RRRs and VDEQ-T3RGSLs. VDEQ-T3RGSLs, VDEQ-CWT-WTNCs, VDEQ-CWT-WTCs, and VDEQ-WCSs have not been established for TPH-DRO. A comparison to past analytical data shows little to no change in groundwater quality.

## 4.5 Site Restoration

Following removal of the tanks, the excavation was backfilled to grade with the stockpiled soil and imported crusher run (recycled concrete). The soil was placed at that base of the excavation. Backfilling was conducted in 1 to 2-foot lifts, which were compacted using the trackhoe.

## 4.6 VDEQ UST Notification Form

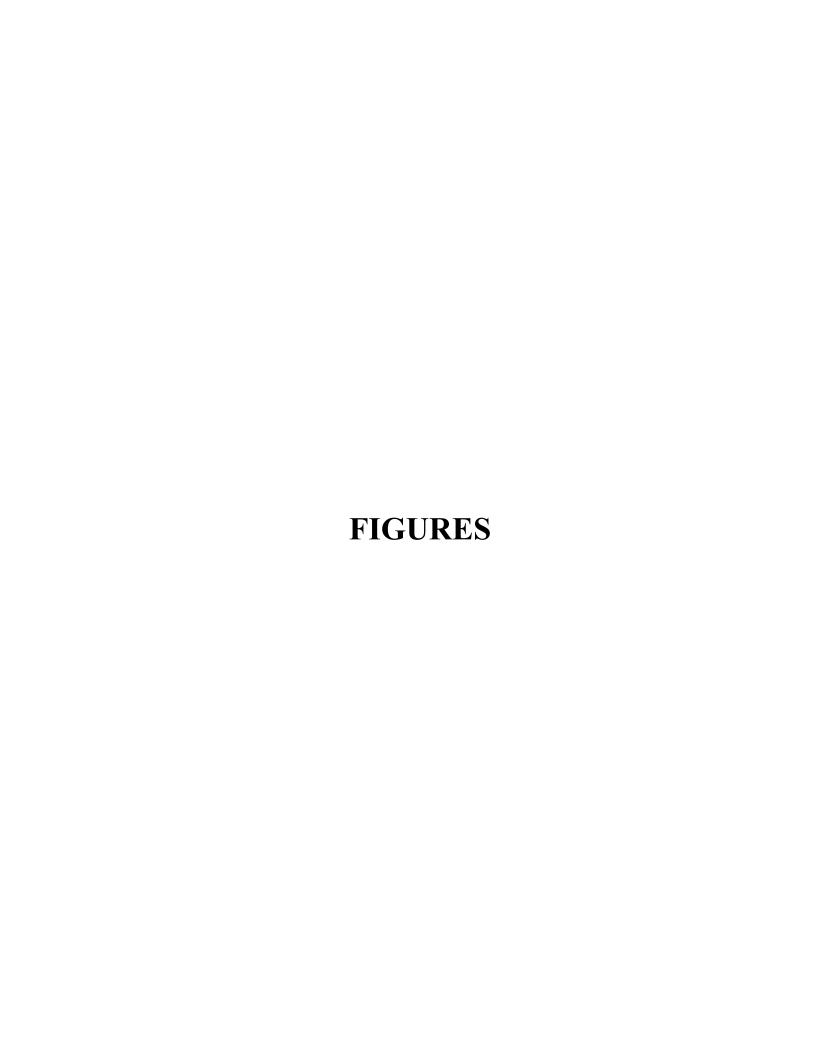
As required, the owner of the tank completed a VDEQ Notification for Underground Storage Tanks (USTs) Form 7530-2 for the closed USTs. A copy of the completed form is included as Attachment 5.

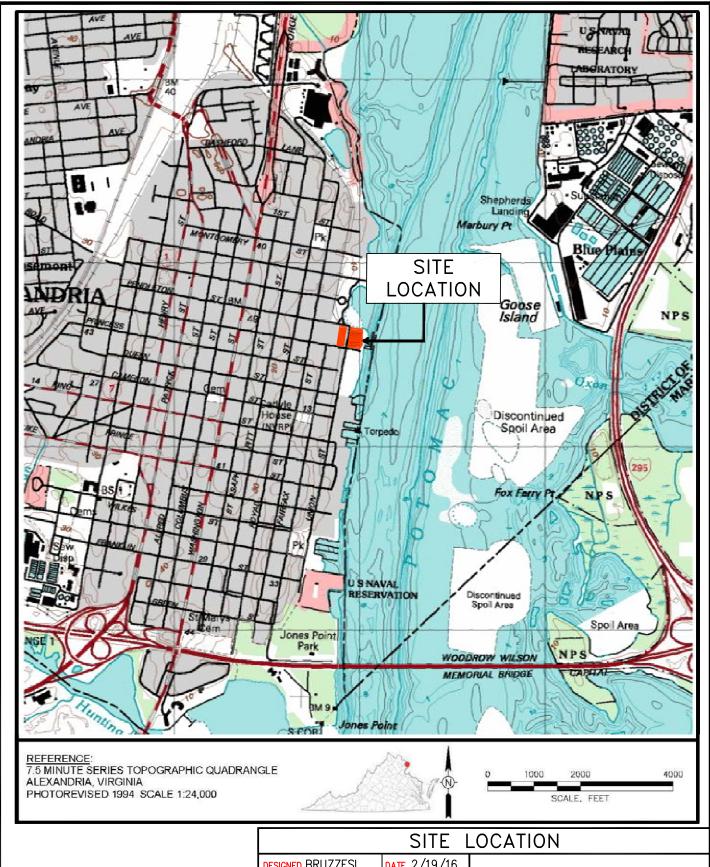
## 4.7 Release Reporting

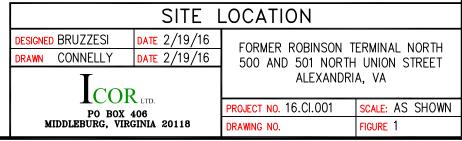
Release reporting was not required because a petroleum release has already been documented at the SITE and site conditions are reflective of conditions noted at the time of case closure of PC# 2006-3131.

### 5.0 CONCLUSIONS

Minimal impact was noted during the removal of the USTs and associated dispensers and fuel and vent piping. Based on the aforementioned, ICOR does not believe that further assessment and/or corrective actions are warranted.







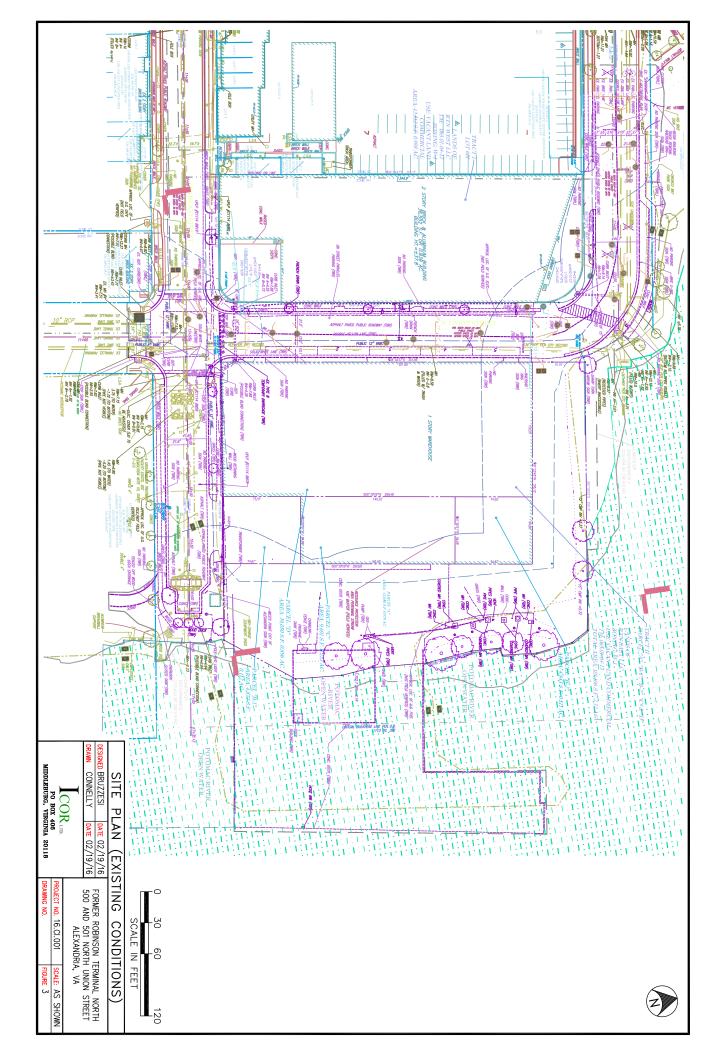


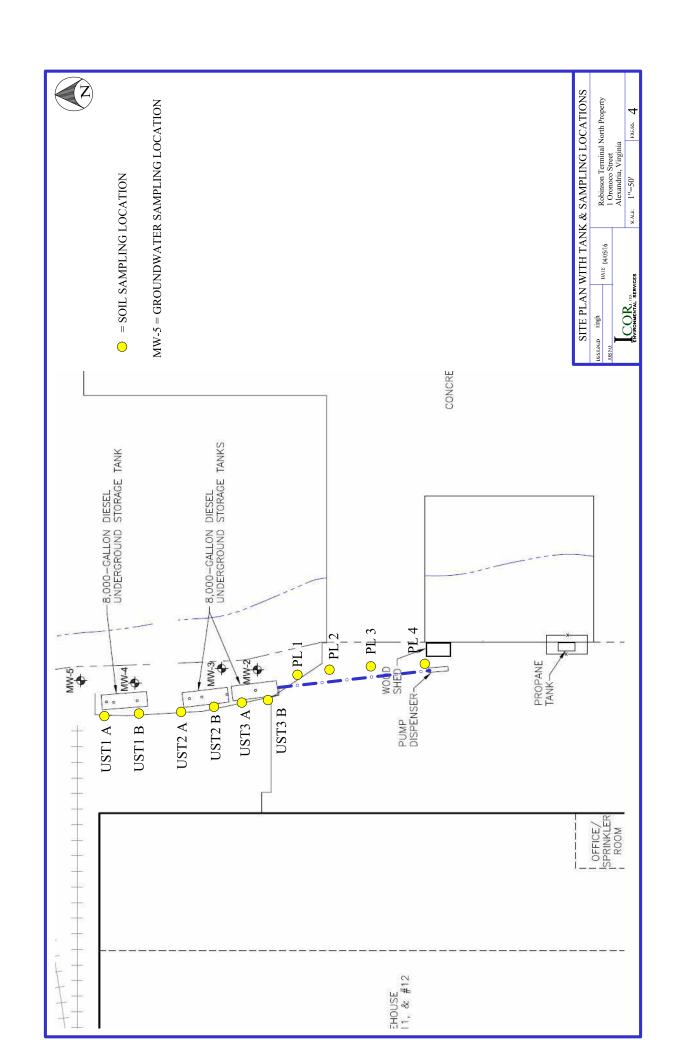


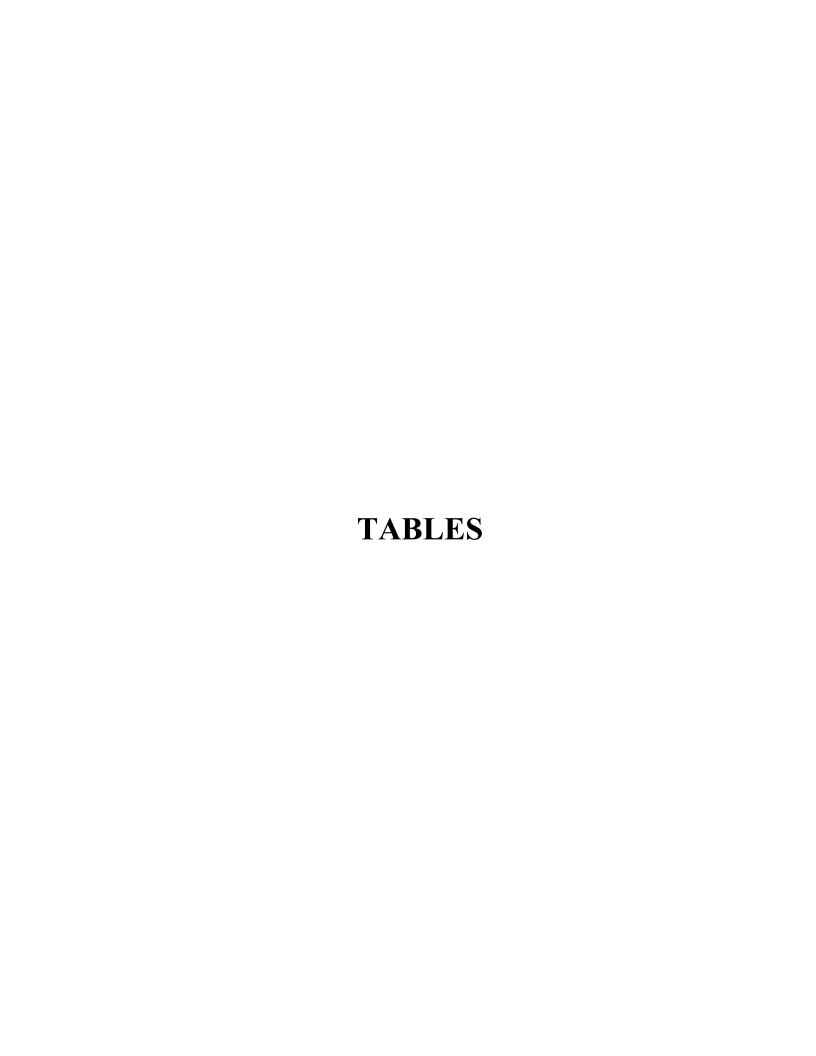
MICROSOFT CORPORATION 2016



## DESIGNED BRUZZESI DATE 02/19/16 DRAWN CONNELLY DATE 02/19/16 TORAWN CONNELLY DATE 02/19/16 PO BOX 406 MIDDLEBURG, VIRGINIA 20118 DATE 02/19/16 FORMER ROBINSON TERMINAL NORTH 500 AND 501 NORTH UNION STREET ALEXANDRIA, VA PROJECT NO. 16.CI.001 SCALE: AS SHOWN DRAWNG NO. FIGURE 2







# TABLE 1. EXCAVATION SIDEWALL SOIL ANALYTICAL RESULTS

# FORMER ROBINSON TERMINAL NORTH 501 NORTH UNION STREET ALEXANDRIA, VA

Sample ID:	Units	CAS No.	VDEQ-RRR	VDEQ-T2SCU	VDEQ-T3SCR	VDEQ-T3SCR UST-1A(9-9.5)	UST-1B(9-9.5)	UST-1B(9-9.5)   UST-2A(9-9.5)   UST-2B(9-9.5)		(3.6-6)AE-TSU	UST-3B(9-9.5)
Sample Date:						3/23/16	3/23/16	3/23/16	3/23/16	3/23/16	3/23/16
<b>TPH EPA 8015</b>											
TPH-DRO	mg/kg	C10C28DRO	100	ЭN	NE	<12	<11	12	088	510	620
CLHOI											

NOTES: EB = designates an excavation bottom sample

(9-9.5) = approximate depth below grade that sample was collected TPH = total petroleum hydrocarbons TPH-DRO = diesel range TPH EPA 8015 = United States Environmental Protection Agency SW-846 analytical method

The Colon of the Commonwealth of Virginia Department of Environmental Quality

VDEQ = Commonwealth of Virginia Department of Environmental Quality

VDEQ-TSCR = VDEQ release reporting requirement

VDEQ-TSCR = VDEQ Tire II screening concentration for unrestricted use soil (residential)

VDEQ-TSCR = VDEQ Tire II screening concentration for unrestricted use soil (commercial/industrial)

\*VDEQ-TSCR = VDEQ Tire II screening concentration for restricted use soil (commercial/industrial)

\*VDEQ-TSCR = VDEQ Tire II screening concentration for restricted use soil (residential)

\*VDEQ-TSCR = VDEQ Tire II screening concentration for restricted use soil (residential)

\*TOP TIRE II screening to the VDEQ-TSCR II streening to the VDEQ-TSCR II at the VDEQ-TSCR II at least 1 sample

Vellow highlighting designates target compound was detected at a concentration above a VDEQ-RRR and/or VDEQ-TSCR II at least 1 sample

# TABLE 2. PIPELINE TEST BORING SOIL ANALYTICAL RESULTS

## FORMER ROBINSON TERMINAL NORTH 501 NORTH UNION STREET ALEXANDRIA, VA

Sample ID:	Units	CAS No.	VDEQ-RRR	VDEQ-RRR   VDEQ-T2SCU   VDEQ-T3SCR	VDEQ-T3SCR	PL1(3-4)	PL2(3-4)	PL3 (3-4)	PL4(3-4)
Sample Date:						3/30/16	3/30/16	3/30/16	3/30/16
<b>TPH EPA 8015</b>									
TPH-DRO	mg/kg	C10C28DRO	100		NE	19	<12	<12	<12

PL = designates a pipeline test boring sample

(3-4) = approximate depth below grade that sample was collected

TPH = total petroleum hydrocarbons

TPH-DRO = diesel range TPH EPA 8015 = United States Environmental Protection Agency SW-846 analytical method

mg/kg = milligrams per kilogram

VDEQ = Commonwealth of Virginia Department of Environmental Quality

VDEQ-RRR = VDEQ release reporting requirement

VDEQ-T2SCU = VDEQ Tier II screening concentration for unrestricted use soil (residential)

VDEQ-T3SCR = VDEQ Tier III screening concentration for restricted use soil (commercial/industrial)

<12 = not detected above analytical method reporting limit (RL)

Bold and right justification designates target compound was detected at a concentration above RL

Green highlighting designates target compound was detected at a concentration above the RL in at least 1 sample

Yellow highlighting designates target compound was detected at a concentration above a VDEQ-RRR and/or VDEQ-T3SCR in at least 1 sample

1 of 1

# TABLE 3. STOCKPILED SOIL ANALYTICAL RESULTS

## FORMER ROBINSON TERMINAL NORTH 501 NORTH UNION STREET ALEXANDRIA, VA

Sample ID:	Units	Jnits CAS No.	VDEQ-RRR	VDEQ-T2SCU	VDEQ-RRR	Comp Backfill 1	Comp Backfill 2
Sample Date:						3/23/16	3/23/16
<b>TPH EPA 8015</b>							
TPH-DRO	mg/kg	C10C28DRO	100		NE	<b>18</b> <56	>56
NOTES:							

TPH = total petroleum hydrocarbo s

TPH-DRO = diesel range TPH

TPH = total petroleum hydrocarbo s TPH-DRO = diesel range TPH

EPA 8015 = United States E vironme tal Protectio Age cy SW-846 a alytical method

mg/kg = milligrams per kilogram

 $\label{eq:volume} VDEQ = Commonwealth of Virginia Departme \ t \ of \ E \ vironme \ tal \ Quality \ VDEQ-RRR = VDEQ \ release \ reporting \ requirement \ t$ 

VDEQ-T2SCU = VDEQ Tier II screening concentratio for unrestricted use soil (reside tial) VDEQ-T3SCR = VDEQ Tier III screening concentration for restricted use soil (commercial/i dustrial)

<12 = not detected above analytical method reporting limit (RL)

Bold and right justification designates target compound was detected at a co ce tratio above RL Green highlighting designates target compound was detected at a co ce tratio above the RL i at

Yellow highlighti g desig ates target compou d was detected at a co ce tratio above a VDEQ-RRR a d/or VDEQ-T3SCR in at least 1 sample least 1 sample

# TABLE 4. GROUNDWATER ANALYTICAL RESULTS

## FORMER ROBINSON TERMINAL NORTH 501 NORTH UNION STREET ALEXANDRIA, VA

						יייי		, נו		I EC-IMIWZ		EC-IMINS	_	- LC-IMA		
		RRR	T3RGSL	T3CGSL	WTNC	WTC	င	WCS								
						Dermal Contact &	Inhalation									
						Incidential										
Date:									5/1/06	3/30/16	2/1/06	3/30/16	5/1/06	3/30/16	5/1/06	3/30/16
FPH 8015																
TPH-DRO	mg/L	1	N.	NE	NE	NE	NE	NE	ND	0.29	ND	0.13	QN	0.75	ON	<0.12
VOCs 8021B																
Benzene enserne	ng/L	DF	941	941	1050	863	15	빙	QN	<1.0	ΔN	<1.0	QN	<1.0	QN	<1.0
oluene Foluene	ng/L	DF	1920	8070	63100	32000	1020	0009	QN	<1.0	ΩN	<1.0	QN	<1.0	QN	<1.0
Ethylbenzene ug	ng/L	DF	27.6	27.6	3380	1410	61	2100	QN	<1.0	ΩN	<1.0	QN	<1.0	QN	<1.0
m,p-Xylenes	ng/L	DL	71.5	149	1330	5270	21.8	NE	ND	<2.0	ND	<2.0	QN	<2.0	ND	<2.0
o-Xylenes	ng/L	DL	51.9	207	1830	5870	21.9	NE	ND	<1.0	ND	<1.0	QN	<1.0	ND	<1.0
Fotal Xylenes	ng/L	DF	492	2070	5940	11100	87.4	N.	QΝ	<2.0	ΔN	<2.0	QN	<2.0	QN	<2.0
Naphthalene uç	ng/L	DL	3.98	20.1	73.5	257	0.722	¥	ND	4.9	ND	<1.0	ND	4.3	DN	<1.0
NOTES:																
FPH = total petroleum hydrocarbons FPH-DRO = diesel range TPH																
TPH-GRO = gasoline range TPH																
VOCs = volatile organic compounds																
ug/L = micrograms per liter																
mg/L = milligrams per liter																
VDEQ = Commonwealth of Virginia Department of Environmental Quality	Environme	ental Quality														
VDEQ-RRR = VDEQ release reporting requirement		Total Control														
VDEQ-13NGSL = VDEQ Tier III commercial groundwater screening level	water scre	ening level														
VDEQ-CWT = VDEQ contaminants of concern for a construction worker in a trench	a construct	tion worker in a	trench													
WTNC = water table not contacted																
WTC = water table contacted																
VDEQ-WQS = VDEQ water quality standards for contaminants of concern for other surface waters	ontaminant	ts of concern fo	or other surface	waters												
ND of <0.12 = not detected above anaytical method reporting limit	d reporting	limit														
Bold and center justification designates target compound was detected at a concentration above RL	pound was	detected at a	concentration a	above RL												
Green highlighting designates target compound was detected at a concentration above the RL in at least 1 sample	as detected	l at a concentra	ation above the	RL in at least 1	sample											

## ATTACHMENT 1 PHOTO-DOCUMENTATION OF UST CLOSURE ACTIVITIES



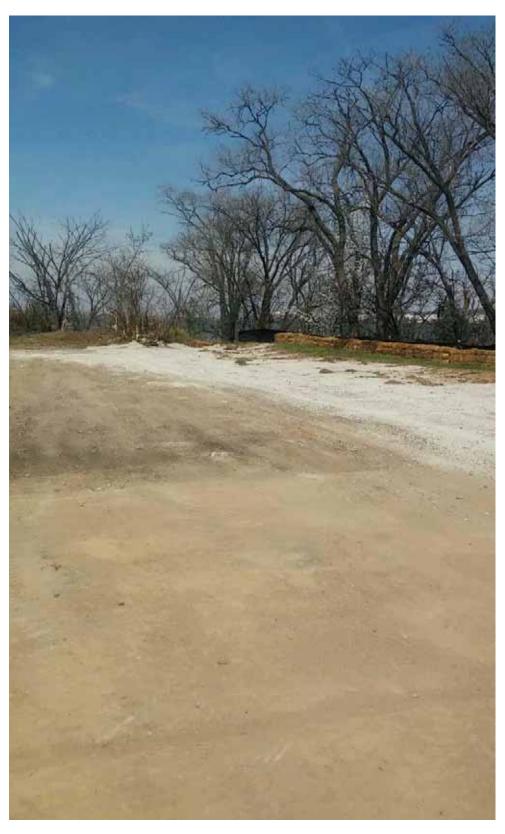
USTs exposed



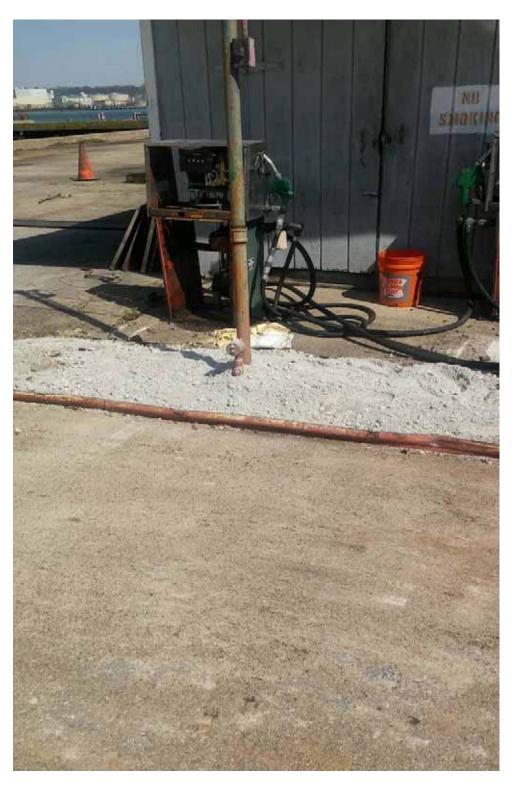
USTs staged on ground



USTs, cleaned, dismantled and placed in roll off container for disposal



Former UST area backfilled



Former dispenser area



Sampling monitoring well adjacent to former tank pit



Direct push sampling near former dispenser



Direct push sampling along former piping run

## ATTACHMENT 2 PERMITS AND INSPECTION FORMS



## City of Alexandria, Virginia



**Department of Code Administration** 301 King Street, Suite 4200 Alexandria, Virginia 22314 email: permit.center@alexandriava.gov

## **DEMOLITION PERMIT**

**Case Number:** *DEM2016-00023* 

**Issued:** 

03/11/2016

Expires: 09/11/2016

MASTER BUILDING PERMIT NUMBER: DEM2016-00023

PARCEL RESTRICTIONS:

**Project Address:** 1 ORONOCO ST

FloodPlain 2011 Resource Protec

**Project Name:** 

FUEL PUMP REMOVAL

**Project Description:** 

REMOVE (3) 8,000 GALLON DIESEL FIBERGLASS USTS, 2 FUEL PUMPS AND PRODUCT

LINES.

**Project Details:** 

CODE EDITION: N/A N/A USE GROUPS:

CONSTR TYPE: N/A

OCCUPANT LOAD: N/A

OWNER INFORMATION:

ROBINSON TERMINAL WAREHOUSE CORP PO BOX 5420

SPRINGFIELD VA 22150

FEES:

Total:	\$330.50
Va Tng - Permit	\$5.00
Training - Permit	\$0.50
PermCtr - Permit	\$27.50
InfoTech - Permit	\$12.50
Admin - Permit	\$35.00
PERMIT	\$250.00

**BUILDING AREA:** 

GROSS N/A ALTERED N/A sf

NEW N/A sf EST. CONSTRUCTION COST:

CATEGORIES OF WORK:

**CONTRACTOR INFORMATION:** 

PETROLEUM RECOVERY AND REMEDIATION

5218 CURTIS AVENUE BALTIMORE MD 21226

Contact Information:

Primary Phone: (410) 354-0200

License Information:

License Type:

Contractor, Class A

License Number: 2705114965

License Exp. Date: 05/31/2017

**Prohibited Hours of Construction:** 

Day Before Mon-Fri 7 a.m.

After 6 p.m.

Saturday

9 a.m.

6 p.m.

Sunday All hours

Holidays per 11-5-5(a)5(a)\* All Hours

\* Section 11-5-5 (a)5(a) defines holidays as

January 1st, Memorial Day, July 4th, Labor Day,

Thanksgiving Day, Christmas Day.

ACTING BUILDING OFFICIAL: GREGG FIELDS

Please visit the Online Alexandria Permit Center at permits.alexandriava.gov to apply for additional permits.

RIGHT IS RESERVED TO INSPECT WORK AUTHORIZED BY THIS PERMIT AS OFTEN AS NECESSARY TO DETERMINE COMPLIANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE. AUTHORIZATION TO ALTER, USE, OR CROSS PUBLIC SIDEWALKS, CURBS, OR OTHER PUBLIC SPACES MUST BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES. THIS PERMIT EXPIRES IF WORK IS NOT STARTED OR IF WORK IS ABANDONED FOR SIX MONTHS. ONE & TWO-FAMILY DWELLING CONSTRUCTION PERMITS, INCLUDING NEW DWELLINGS, ADDITIONS, ALTERATIONS, AND/OR ACCESSORY STRUCTURES, MUST BE COMPLETED WITHIN THREE YEARS OF PERMIT ISSUANCE. IF WORK WILL BE PERFORMED WITHIN 15 FEET OF OVERHEAD ELECTRICAL WIRES, PERMITEE MUST OBTAIN ASSISTANCE FROM THE VIRGINIA POWER OFFICE. CALL 703.934.9660. THIS PERMIT MUST BE POSTED ON THE WORK SITE AND VISIBLE FROM THE PUBLIC WAY UNTIL THE WORK RECEIVES AN APPROVED FINAL

PLEASE CALL 703.838.4900 TO SCHEDULE OR CANCEL INSPECTIONS AND OBTAIN INSPECTION RESULTS 24 HOURS A DAY,

Please fill out our Customer Service Survey at <a href="mailto://alexandriava.gov/Code">



## CaseConditions.rpt Case #: DEM2016-00023

Condition				Status		Updat	ed
Code	Title	Nachd	Status	Changed By	Tag	Date	By

NO CONDITIONS ASSIGNED

## FIELD COPY

This copy shall be available at the job site for inspection



## PETROLEUM MANAGEMENT, INC.

5218 Curtis Avenue, Baltimore, Maryland 21226

Approved for installation, subject (610) 354-0200 \* Fax: (410) 354-0201





Approved for the Approved for the Uniform such changes as may be necessary to such changes as may be necessary to make it conform to the Uniform make it conform to the Uniform make it conform to the Uniform and Example Alexandria A

FEBRUARY 22 NA 2016

SUBJECT TO FIELD INSPECTION

RE: ROBINSON TERMINAL

#1 ORONOCO STREET

ALEXANDRIA, VA. 22313

TO WHOM IT MAY CONCERN:

CONSTRUCTION AUTHORIZED
CODE ADMINISTRATION
ALEXANDRIA, VA

MAR 1 0 2016

THESE DOCUMENTS APPEAR TO COMPLY WITH APPLICABLE CODES AND REGULATIONS.

PETROLEUM MANAGEMENT, DAGE. ON BEHALF OF THE OWNER, PROPOSES TO REMOVE THREE (3) EACH 8,000 GALON DIESEL FUEL FUEL UNDER FRODE TOWNS, AND TWO (2) DIESEL FUEL PUMPS ALONG WITH THE PRODUCT AND VENT LINES! THE UNDERGROUND TANKS ARE CONSTRUCTED OF RIBERBUSS. THE PRINKS CONTENTS WILL BE PUMPED OUT BEFORE THE TANKS ARE REMOVED. THE TANKS WILL BE CLEAVED BEFORE REMOVAL FROM FITE SITE. SOIL SAMPLES WILL BE TAKEN 34 DUCHS BELOW THE TANKS BOTTOM, BELOW THE KNEL PUMPS, AND ALONG THE FUEL LINES DU ACCORDANCE WITH DEO REQUIREMENTS. THE TANK REMOVALS WILL BE IN ACCORDANCE WITH N.F.P.A. 30, IFC, 2012 EDITIONS AND VIRGINIA'S STAFE WIDE FIRE PREVENTION CODE 108.1 FIRE PREVENTION CODE 5ELTION 37-98 CODE OF VIRGINIA. BACKFILL OF EXCUSTION WITH CR-6 STONE TO GRADE.

PETROLEUM BANAGEMENT, DUC. ON BENALF OF FIRE OWNER, RESPECTENTLY REQUISET APPOUND AND ISSUE THE PROPER PREMITORS.

Yours FOR A CLEANER ENVIRONMENT

APPROVED

PLANNING & ZONING DEVELOPMENT DIVISION

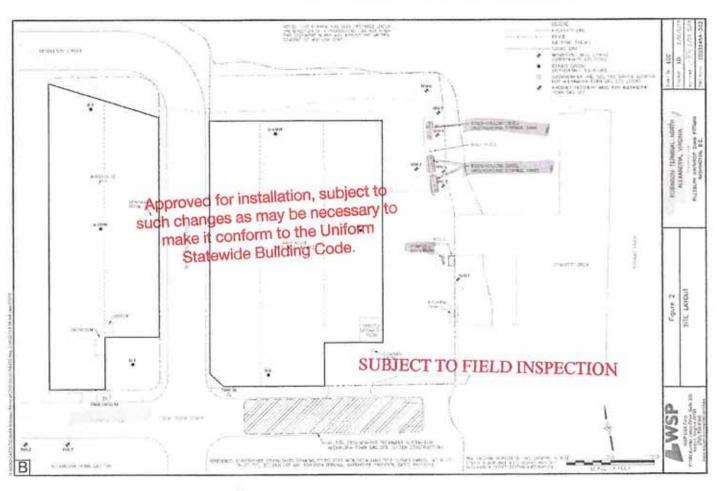
> -12.29 16 DATE

THOMAS A. Cooks EY.

EROSION & SEDIMENT CONTROL
EROSION & SEDIMENT CONTROL MEASURES
WUST BE INSTALLED AND APPROVED PRIOR
TO ANY EARTH DISTURBANCE.

ANY EXCAVATION, CONSTRUCTION, STOPPAGE OF MATERIALS, OR ERECTION OF LADDERS OR SCAFFOLDING IN THE RIGHT-OF-WAY (SIDEWALK, GRASS STRIP, OR PAVED STREET) REQUIRES A SEPARATE PERMIT FROM TRANSPORTATION & ENVIRONMENTAL SERVICES, ROOM 4130. A PERMIT IS ALSO REQUIRED IF IT IS NECESSARY TO DRIVERHIOLE ACROSS THE SIDEWALK ANSWOR OURS & GUTTEP

LAND DISTURBANCE
ANY LAND DISTURBANCE GREATER THAN
2,500 SQUARE FEET REQUIRES A SEPARATE
EROSION & SEDIMENT CONTROL PLAN



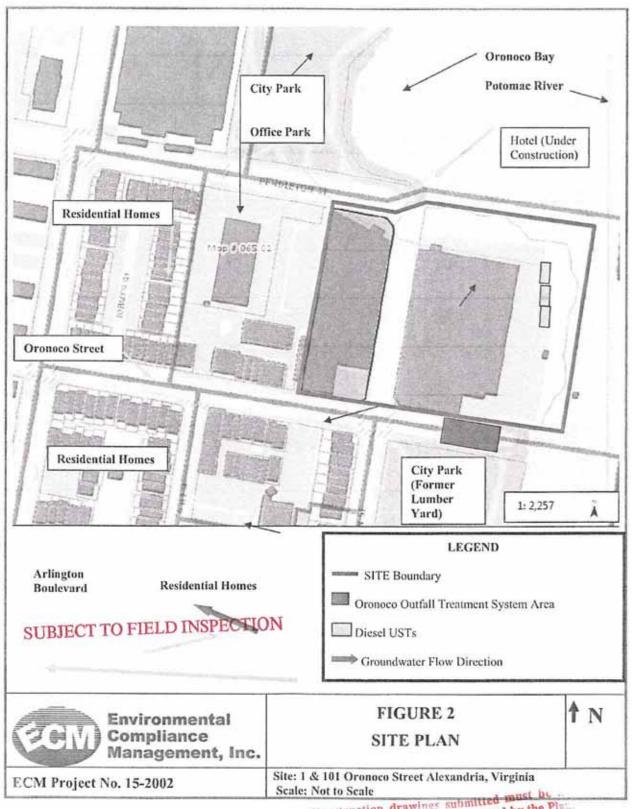
#1 GRONDCO STREET
ALEXANDRIA, VA. 22313

BEFORE YOU DIG CALL MISS UTILITY 1-800-552-7001

> Approved for installation, subject to such changes as may be necessary to make it conform to the Uniform Statewide Building Code.

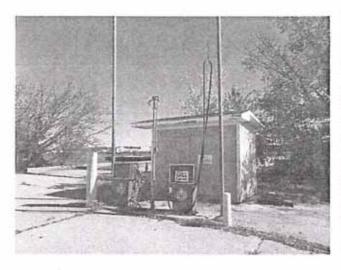
Construction drawings submitted must be in full conformance with all plans approved by the Planning Commission, Board of Zoning Appeals and the Boards of Architectural Review. Planning and Zoning Department approval of a building permit does not constitute approval of any changes, additions or amendments to such plans unless they are specifically identified by the applicant and approved by the City.

Approved for installation, subject to such changes as may be necessary to make it conform to the Uniform Statewide Building Code.

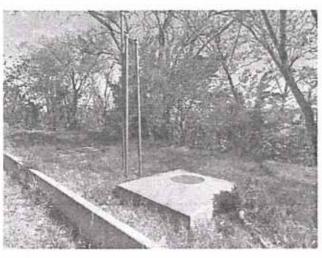


Construction drawings submitted must be conformance with all plans approved by the Planton approved. On the Board of Zoning Appeals and the Board Architectural Review. Planning and Zoning Department approval of a building permit does not constitute approval of any changes, additions or amendments to such plans unless they are specifically identified by the applicant and approved by the City.

## Approved for installation, subject to such changes as may be necessary to make it conform to the Uniform Statewide Building Code.



View of the fueling area outside the 1
 Oronoco Street warehouse



 View of three diesel fuel USTs outside the 1 Oronoco Street warehouse

## SUBJECT TO FIELD INSPECTION



15. View of one of several monitoring wells present in the area of the diesel USTs outside the 1 Oronoco Street warehouse

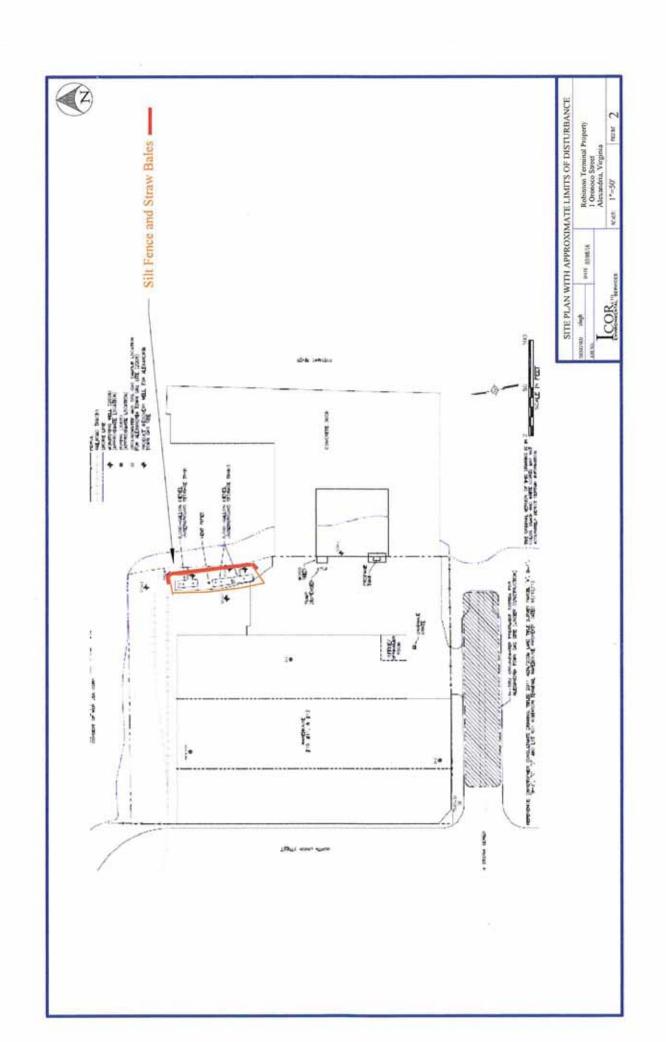


View of the former propane AST area outside the 1 Oronoco Street warehouse.

Construction drawings submitted must be in conformance with all plans approved by the Planning Commission, Board of Zoning Appeals and the Boards of Architectural Review. Planning and Zoning Department approval of a building permit does not constitute approval of any changes, additions or amendments to such plans unless they are specifically identified by the applicant and approved by the City.

Project Number: 15-2002





### CITY OF ALEXANDRIA, VIRGINIA

Office of Building and Code Administration 301 King Street, Room 4200 Alexandria, Virginia 22314

### **Demolition Permit** INSPECTION TICKET

Phone: 703.746.4200 Schedule Inspections: 703.838.4900 Http://Alexandriava.gov/Code

Permit:

DEM2016-00023

Master Permit:

DEM2016-00023

Job Location:

1 ORONOCO ST

Work Description:

Remove (3) 8,000 gallon diesel fiberglass USTs, 2 fuel pumps and

product lines.

Notes: Contact: Steve 301.318.7036

Project Name:

FUEL PUMP REMOVAL

Owner:

Dates:

ROBINSON TERMINAL WAREHOUSE CORP

Insp

Contractor:

PETROLEUM RECOVERY AND REMEDIATION

Construction Type:

N/A Use Group:

- Tank Removal

Type of Inspection:

Requested:

3/22/2016

0-6-7-2

3/23/2016

N/A

Inspected:

Inspector Assigned: Dave Demaree

DETAILED COMMENTS OR ACTIONS:

TANKS Removed - Soil + Water SAMples Taker - Sont Report To OFFice
INSPECTED ITEMS CONFORM TO APPROVED DRAWINGS { }YES { }NO { }N/A  ACTIONS: APPROVED DISAPPROVED DIDN'T INSPECT STOP WORK ORDER SURVEY
SERVED ON (NAME):  DATE:
SERVED BY (NAME): Call Man DATE: 3-15-14

### ATTACHMENT 3 WASTE MANIFESTS

### Petroleum Management, Inc.

MD. Off Operations Permit No: 2011-OPT:38311 EPA Identification No: MDR000525278 Federal ID No: 52-2014536

5218 Curtis Avenue • Baltimore, Maryland 21226 • Phone 410-354-0200 • Fax 410-721-1390

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#2 Fuel Oil, 3, NA1993, PGIII		1	Hazardous Waste, Solid, 9 NA3077, PGIII	, J			JP#5			
#4 Fuel Oil, 3 NA1993, PGIII			Paint Thinners, 3, UN1263	PGI		1	Jet A	, a		
#6 Fuel Oil, 3, NA1993, PGIII		1	Ethylene Glycol, 9, UN3082, PGIII			1	Sludge			
Diesel, 3, NA1993, PGIII			Lube Oil			1	Petroleum Co	ntaminated V	Nater /	1340
Flammable Liquids, NOS, 3, UN1993, PGI			Waste Oil			1	Other:			
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** Baltimore		<sup>Zip</sup> 2	1226	Phone	7	11	7 (	and for	031	
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### Petroleum Management, Inc.

MD. Oil Operations Permit No: 2011-0PT-38311 EPA identification No: MDR000525278 Federal ID No: 52-2014536

5218 Curtis Avenue • Baltimore, Maryland 21226 • Phone 410-354-0200 • Fax 410-721-1390

210 Curus Avenue V Da	Illiavay aramaya.	IIII MAMAY - A LIVAL			of Lading/Manifes	n No -	1776
			The state of the s			N:	
Generator/Shipper: Robins	ON Term	INAL	Billing Name	<u>E</u>	ICOR		
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Phone:( )	Contact:		Phone (7%	3) 980	-8515 0	ontact II/K	
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,	MATER	HAL CHARACTERIZA					
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#2 Fuel Oil, 3, NA1993, PGIII		Hazardous Waste, Soli NA3077, PGIII	id, 9		JP#5		
#4 Fuel Oil, 3 NA1983, PGIII		Paint Thinners, 3, UN1	263, PGI		Jet A		
#6 Fuel Oil, 3, NA1993, PGIII		Ethylene Glycol, 9, UN3082, PGIII		,	Sludge		100
Diesel, 3, NA1993, PGIII	545	Lube Oil		,	Petroleum Contar	minated Water	
Flammable Liquids, NOS, 3, UN1993, PGI		Waste Oil			Other: RINS	& WATER	75
Corrosive Liquids, NOS, 8, UN1760, PGII		Kerosene			Other:		
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5218 Curtis			Driver Signal	ure .			
Baltimore	State Zip	21226	Phone	110 354	·0200		
have been received by this facility and will be handled in	Facility Name	ACILITY ACCEPTA	NCE				
rules and regulations. All quantities are subject to final	Acceptance Signature					\$40.00 \$4	
verification by this facility and are indicated in far right box.	Phone	and the second of the second o			Total Quantity R	(Carver)	

### Petroleum Recovery & Remediation Management, Inc.

5218 Curtis Avenue + Baltimore, MD 21226 + (410) 354-0200 + Fax (410) 721-1390

### **CERTIFICATE OF DISPOSAL**

**Issued To:** 

Icor, LTD

Site Address:

1 Oronoco Street

Alexandria, VA

Petroleum Management, Inc. certifies acceptance of the material referenced on this document. The material has been disposed of in accordance with United States Environmental Protection Agency, MD Regulations, and API Recommended Practice 1604.

**Items Received** 

Quantity/Description:

Three (3) 8,000 gallon fiberglass tanks

Disposal Facility:

Curtis Creek Recovery 23 Stahls Point Rd,

Baltimore, MD 21226

I certify that the information contained in or accompanying this document is true, accurate and complete as to the identification of the materials received from the waste generating company and the processing of the waste in accordance with United States Environmental Protection Agency and local MD regulations.

ъу.\_\_\_\_

Date:

-121/2016

### ATTACHMENT 4 LABORATORY REPORTS OF ANALYSIS

### **Analytical Report for**

Icor Ltd.

Certificate of Analysis No.: 16032809

Project Manager: Ike Singh
Project Name: RTN-USTs
Project Location: Alexandria, VA



April 4, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

### PHASE SEPARATION SCIENCE, INC.



April 4, 2016

Ike Singh Icor Ltd. PO Box 406 Middleburg, VA 20118

Reference: PSS Work Order(s) No: 16032809

Project Name: RTN-USTs

Project Location: Alexandria, VA

### Dear Ike Singh:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16032809**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 2, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



### **Sample Summary**

Client Name: Icor Ltd. Project Name: RTN-USTs

Work Order Number(s): 16032809

The following samples were received under chain of custody by Phase Separation Science (PSS) on 03/28/2016 at 01:00 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected	
16032809-001	UST 1 A	SOIL	03/23/16 12:00	
16032809-002	UST 1 B	SOIL	03/23/16 12:15	
16032809-003	UST 2 A	SOIL	03/23/16 12:30	
16032809-004	UST 2 B	SOIL	03/23/16 12:45	
16032809-005	UST 3 A	SOIL	03/23/16 13:00	
16032809-006	UST 3 B	SOIL	03/23/16 13:15	
16032809-007	Comp Backfill 1	SOIL	03/23/16 13:30	
16032809-008	Comp Backfill 2	SOIL	03/23/16 13:35	

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

### Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

### **Certifications:**

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

### PHASE SEPARATION SCIENCE, INC.



### **CERTIFICATE OF ANALYSIS**

No: 16032809

Icor Ltd., Middleburg, VA

April 4, 2016

Project Name: RTN-USTs Project Location: Alexandria, VA

Sample ID: UST 1 A		Date/Time \$	-				D: 1603280	09-001
Matrix: SOIL		Date/Time F					olids: 86	
Total Petroleum Hydrocarbons - DRO	Analytica	al Method: SW	V-846 8015	С	Р	reparation Meth	od: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	12		1	03/29/16	03/30/16 16:0	08 1055
Sample ID: UST 1 B		Date/Time S	•			PSS Sample	e ID: 1603280	09-002
Matrix: SOIL	ı	Date/Time F	Received:	03/28/	2016 13:00	% S	olids: 87	
Total Petroleum Hydrocarbons - DRO	Analytica	al Method: SW	V-846 8015	С	P	reparation Meth	od: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	11		1	03/29/16	03/30/16 16:5	8 1055
Sample ID: UST 2 A		Date/Time \$	Sampled:	03/23/2	2016 12:30	PSS Sample	e ID: 1603280	09-003
Matrix: SOIL	ı	Date/Time F	Received:	03/28/	2016 13:00	% S	olids: 82	
Total Petroleum Hydrocarbons - DRO	Analytica	al Method: SW	V-846 8015	С	Р	reparation Meth	od: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	12	mg/kg	12		1	03/29/16	03/30/16 17:2	23 1055
Sample ID: UST 2 B		Date/Time \$	Sampled:	03/23/2	2016 12:45	PSS Sample	e ID: 1603280	09-004
Sample ID: UST 2 B Matrix: SOIL		Date/Time S Date/Time R	-				e ID: 1603280 olids:  85	09-004
•	ı		Received:	03/28/2	2016 13:00		olids: 85	
Matrix: SOIL	ı	Date/Time F	Received: V-846 8015	03/28/2	2016 13:00	% S	olids: 85	
Matrix: SOIL	Analytica	Date/Time R	Received: V-846 8015	<b>03/28/</b> 2	<b>2016 13:00</b> P	% S reparation Meth	<b>olids: 85</b> nod: SW3550C	, Analyst
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO	Analytica Result 380	Date/Time Fall Method: SW	<b>Received:</b> V-846 8015 <b>RL</b>	<b>03/28</b> /3	<b>2016 13:00</b> P <b>Dil</b> 1	% S reparation Method Prepared 03/29/16	olids: 85 nod: SW3550C Analyzed	<b>Analyst</b> 13 1055
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)	Analytica Result 380	Date/Time Fall Method: SW Units mg/kg	Received: V-846 8015 RL 60 Sampled:	03/28/2 C Flag 03/23/2	2016 13:00 P Dil 1 2016 13:00	% S Preparation Method Prepared 03/29/16 PSS Sample	olids: 85 nod: SW3550C Analyzed 03/30/16 18:1	<b>Analyst</b> 13 1055
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A	Analytica Result 380	Date/Time Fall Method: SW  Units  mg/kg  Date/Time \$	Received: V-846 8015 RL 60 Sampled: Received:	03/28/2 C Flag 03/23/2 03/28/2	Dil 1 2016 13:00 2016 13:00	% S Preparation Method Prepared 03/29/16 PSS Sample	olids: 85 nod: SW3550C Analyzed 03/30/16 18:1 e ID: 1603280 olids: 83	Analyst 13 1055 09-005
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL	Analytica Result 380	Date/Time For the second secon	Received: V-846 8015 RL 60 Sampled: Received: V-846 8015	03/28/2 C Flag 03/23/2 03/28/2	Dil 1 2016 13:00 2016 13:00	% S Preparation Method Prepared 03/29/16 PSS Sample % S	olids: 85 nod: SW3550C Analyzed 03/30/16 18:1 e ID: 1603280 olids: 83	Analyst 13 1055 09-005
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL	Analytica  Result  380  I  Analytica	Units mg/kg Date/Time S Date/Time S Method: SW	Received: V-846 8015 RL 60 Sampled: Received: V-846 8015	03/28/2 C Flag 03/23/2 03/28/2	2016 13:00 P Dil 1 2016 13:00 2016 13:00	% S Preparation Method Prepared 03/29/16 PSS Sample % S Preparation Method	olids: 85 nod: SW3550C  Analyzed 03/30/16 18:1 e ID: 1603280 olids: 83 nod: SW3550C	Analyst 13 1055 09-005 Characteristics Analyst
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL  Total Petroleum Hydrocarbons - DRO	Analytica Result 380  Analytica Result 510	Units mg/kg Date/Time S Date/Time S al Method: SW	Received: V-846 8015 RL 60 Sampled: Received: V-846 8015 RL 61	03/28/2 C Flag 03/23/2 03/28/2 C Flag	2016 13:00 P Dil 1 2016 13:00 2016 13:00 P Dil 5	% S Prepared 03/29/16 PSS Sample % S Prepared 03/29/16	Analyzed Olids: 85 Analyzed 03/30/16 18:1 E ID: 1603280 Olids: 83 Anod: SW3550C Analyzed	Analyst 13 1055 09-005 Analyst 33 1055
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)	Analytica Result 380  Analytica Result 510	Units mg/kg Date/Time S Date/Time S al Method: SW Units Date/Time S Method: SW Units Mg/kg Date/Time S	Received: V-846 8015  RL 60 Sampled: Received: V-846 8015  RL 61 Sampled:	03/28/2 C Flag 03/23/2 C Flag 03/28/2 C	Dil 1 2016 13:00 2016 13:00 P Dil 5 2016 13:15	% S Prepared 03/29/16 PSS Sample % S Prepared 03/29/16 Prepared 03/29/16 PSS Sample	olids: 85 nod: SW3550C  Analyzed 03/30/16 18:1 e ID: 1603286 olids: 83 nod: SW3550C  Analyzed 03/30/16 16:3	Analyst 13 1055 09-005 Analyst 33 1055
Matrix: SOIL Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 B	Analytica Result 380  Analytica Result 510	Units mg/kg Date/Time S Date/Time S Date/Time S Mathod: SW Units mg/kg	Received: V-846 8015  RL 60 Sampled: Received: V-846 8015  RL 61 Sampled: Received:	03/28/2  Flag  03/23/2  03/28/2  03/28/2  03/28/2	Dil 5 Dil 5 2016 13:00	% S Prepared 03/29/16 PSS Sample % S Prepared 03/29/16 Prepared 03/29/16 PSS Sample	Analyzed 03/30/16 18:1 e ID: 1603286 olids: 83 nod: SW35500 Analyzed 03/30/16 16:3 e ID: 1603286 olids: 87	Analyst 13 1055 09-005 Analyst 33 1055 09-006
Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 A  Matrix: SOIL  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Sample ID: UST 3 B  Matrix: SOIL	Analytica Result 380  Analytica Result 510	Units mg/kg Date/Time F al Method: SW Units mg/kg Date/Time F al Method: SW Units mg/kg Date/Time S Date/Time S	Received: V-846 8015  RL 60 Sampled: Received: V-846 8015  RL 61 Sampled: Received: V-846 8015	03/28/2  Flag  03/23/2  03/28/2  03/28/2  03/28/2	Dil 5 Dil 5 2016 13:00	% S Preparation Method Prepared 03/29/16 PSS Sample % S Preparation Method Prepared 03/29/16 PSS Sample % S	Analyzed 03/30/16 18:1 e ID: 1603286 olids: 83 nod: SW35500 Analyzed 03/30/16 16:3 e ID: 1603286 olids: 87	Analyst 13 1055 09-005 Analyst 33 1055 09-006

### PHASE SEPARATION SCIENCE, INC.



### **CERTIFICATE OF ANALYSIS**

No: 16032809

Icor Ltd., Middleburg, VA

April 4, 2016

Project Name: RTN-USTs Project Location: Alexandria, VA

Sample ID: Comp Backfill 1 Matrix: SOIL			e Sampled: e Received:			•	e ID: 1603280 olids:  94	9-007
Total Petroleum Hydrocarbons - DRO	Analytica	I Method:	SW-846 8015	С	F	Preparation Meth	nod: SW3550C	
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	18	mg/kg	11		1	03/29/16	03/30/16 17:4	8 1055
Sample ID: Comp Backfill 2		Date/Tim	e Sampled:	03/23/	2016 13:35	PSS Sample	e ID: 1603280	9-008
Matrix: SOIL	I	Date/Time	e Received:	03/28/	2016 13:00	% S	olids: 90	
Total Petroleum Hydrocarbons - DRO	Analytica	I Method:	SW-846 8015	С	F	Preparation Meth	od: SW3550C	
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	56		1	03/29/16	03/30/16 18:1	3 1055



### **Case Narrative Summary**

Client Name: Icor Ltd.

**Project Name: RTN-USTs** 

Work Order Number(s): 16032809

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

### Sample Receipt:

All sample receipt conditions were acceptable.

### **Analytical:**

Total Petroleum Hydrocarbons - DRO

Batch: 131375

Matrix spike and/or matrix spike duplicate (MS/MSD) exceedances identified; see MS summary form.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



# Analytical Data Package Information Summary

Work Order(s): 16032809
Report Prepared For: Icor Ltd., Middleburg, VA
Project Name: Icor Master Price List
Project Manager: Ike Singh

Method	Client Sample Id	Analysis Type Lab Sampl	Lab Sample Id	Analyst	Mtx	Prep Batch	Prep Batch Analytical Batch	Sampled	Prepared	Analyzed
<b>ASTM D2216 05</b>	UST 1 A	Initial	16032809-001	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	UST 1 B	Initial	16032809-002	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	UST 2 A	Initial	16032809-003	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	UST 2 B	Initial	16032809-004	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	UST 3 A	Initial	16032809-005	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	UST 3 B	Initial	16032809-006	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	Comp Backfill 1	Initial	16032809-007	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
	Comp Backfill 2	Initial	16032809-008	1051	S	131295	131295	03/23/2016	03/28/2016 16:26	03/28/2016 16:26
SW-846 8015 C	UST 1 A	I itial	16032809-001	1055	S	\$6009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 16:08
	UST 1 B	Initial	16032809-002	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 16:58
	UST 2 A	Initial	16032809-003	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 17:23
	UST 2 B	Initial	16032809-004	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 18:13
	UST 3 A	Initial	16032809-005	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 16:33
	UST 3 B	Initial	16032809-006	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 18:39
	Comp Backfill 1	Initial	16032809-007	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 17:48
	Comp Backfill 2	Initial	16032809-008	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 18:13
	60095-1-BKS	BKS	60095-1-BKS	1055	S	96009	131375		03/29/2016 09:41	03/30/2016 12:21
	60095-1-BLK	BLK	60095-1-BLK	1055	S	96009	131375		03/29/2016 09:41	03/30/2016 11:56
	60095-1-BSD	BSD	60095-1-BSD	1055	S	96009	131375		03/29/2016 09:41	03/30/2016 12:46
	UST 3 A S	MS	16032809-005 S	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 14:27
	UST 3 A SD	MSD	16032809-005 SD	1055	S	96009	131375	03/23/2016	03/29/2016 09:41	03/30/2016 14:52

Page 7 of 12

Final 1.000

### PHASE SEPARATION SCIENCE, INC. QC Summary 16032809

### Icor Ltd. RTN-USTs

Analytical Method Seq Number: PSS Sample ID:	1: <b>SW-846 8015 C</b> 131375 16032809-001		Matrix: Soil		Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl		65		42-129	%	03/30/16 16:08
Analytical Method Seq Number: PSS Sample ID:	<b>1: SW-846 8015 C</b> 131375 16032809-002		Matrix: Soil		Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl		72		42-129	%	03/30/16 16:58
Analytical Method Seq Number: PSS Sample ID:	1: <b>SW-846 8015 C</b> 131375 16032809-003		Matrix: Soil		Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
		<b>%Rec</b> 80	Flag	<b>Limits</b> 42-129	Units %	
Surrogate			Flag			Date
Surrogate o-Terphenyl  Analytical Method	I: SW-846 8015 C				% Prep Method:	Date 03/30/16 17:23 SW3550C
Surrogate o-Terphenyl			Flag  Matrix: Soil		%	Date 03/30/16 17:23 SW3550C
Surrogate o-Terphenyl  Analytical Method Seq Number:	I: <b>SW-846 8015 C</b> 131375				% Prep Method:	Date 03/30/16 17:23 SW3550C
Surrogate o-Terphenyl  Analytical Method Seq Number: PSS Sample ID:	I: <b>SW-846 8015 C</b> 131375	80	Matrix: Soil	42-129	% Prep Method: Date Prep:	Date 03/30/16 17:23 SW3550C 03/29/2016 Analysis
Surrogate o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate	I: <b>SW-846 8015 C</b> 131375	80 %Rec	Matrix: Soil	42-129 Limits	% Prep Method: Date Prep: Units	Date 03/30/16 17:23  SW3550C 03/29/2016  Analysis Date
Surrogate o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate	<b>I: SW-846 8015 C</b> 131375 16032809-004	80 %Rec	Matrix: Soil	42-129 Limits	% Prep Method: Date Prep: Units	Date 03/30/16 17:23  SW3550C 03/29/2016  Analysis Date 03/30/16 18:13  SW3550C
Surrogate o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate o-Terphenyl  Analytical Method Seq Number:	I: SW-846 8015 C 131375 16032809-004 I: SW-846 8015 C 131375	80 %Rec	Matrix: Soil Flag	42-129 Limits	% Prep Method: Date Prep: Units % Prep Method:	Date 03/30/16 17:23  SW3550C 03/29/2016  Analysis Date 03/30/16 18:13  SW3550C

### PHASE SEPARATION SCIENCE, INC.

QC Summary 16032809

### Icor Ltd. RTN-USTs

Analytical Method: SW-846 8015 C

Seq Number: 131375

PSS Sample ID: 16032809-006 Prep Method: SW3550C

> Date Prep: 03/29/2016

%Rec Flag Limits Units **Analysis** Surrogate Date

% o-Terphenyl 89 42-129 03/30/16 18:39

Matrix: Soil

Analytical Method: SW-846 8015 C

Seq Number: 131375

Matrix: Soil

Prep Method: SW3550C

> Date Prep: 03/29/2016

PSS Sample ID: 16032809-007

%Rec Surrogate

Flag

Limits

Units

Analysis Date

o-Terphenyl 80

42-129

%

03/30/16 17:48

Analytical Method: SW-846 8015 C

Seq Number:

131375

Matrix: Soil

Prep Method: SW3550C

Date Prep:

03/29/2016

PSS Sample ID: 16032809-008

%Rec Surrogate

Flag

Limits Units

**Analysis** Date

o-Terphenyl

66

42-129

%

03/30/16 18:13

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

### PHASE SEPARATION SCIENCE, INC.

QC Summary 16032809

### Icor Ltd. RTN-USTs

Analytical Method: SW-846 8015 C

131375

Matrix: Solid

Prep Method: 03/29/16

SW3550C

Seq Number: MB Sample Id:

Date Prep:

LCSD Sample Id: 60095-1-BSD

**Parameter** 

60095-1-BLK MB LCS Sample Id: 60095-1-BKS

LCS

**Analysis** 

TPH-DRO (Diesel Range Organics)

Result **Amount**  Result %Rec 22.77

LCS

LCSD LCSD %Rec Result

RPD %RPD Limit

Units Date

Flag

<10.16 33.86

**Spike** 

67

20.87

62 56-117 **LCSD** 

Limits

25

42-129

mg/kg 03/30/16 12:21

Surrogate o-Terphenyl

MB MB %Rec Flag 59

LCS Result 67

**LCS** Flag

LCSD Result Flag

62

Limits

Units

%

**Analysis** Date

03/30/16 12:21

**Analysis** 

Date

03/30/16 14:27

Analytical Method: SW-846 8015 C

Matrix: Soil

Prep Method: Date Prep:

SW3550C

Seq Number: Parent Sample Id: 16032809-005

131375

MS Sample Id:

16032809-005 S

%RPD Limits

MSD

Flag

MSD Sample Id: 16032809-005 SD

03/29/16

**Parameter** 

**Parent** Result

Spike Amount

MS MS Result %Rec

MSD Result %Rec 303.4

**RPD** Limit 30

Limits

42-129

Units Analysis Date

Flag

TPH-DRO (Diesel Range Organics)

512 40.36

335.3

MS

Flag

47-114 MSD

Result

72

MSD

10

Units

%

03/30/16 14:27 Χ

Surrogate o-Terphenyl

MS Result 77

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits L = Recovery of BS,BSD or both below the laboratory control limits

### A CHANGE OF A SOUTH OF THE PARTY OF THE PART

# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com email: info@phaseonline.com

# PHASE SEPARATION SCIENCE, INC.

UCLIENT: ICOR	OFFICE	OFFICE LOC. MBRG	Sign		PSS Work Order #:	der #:	10032809	328	60	PAGE 1	OF 1
PROJECT MGR: Singh	PHONE NO:	NO:			Matrix Codes: SW=Surface Wtr	DW=Drinkir	ig Wrt GW=G	round Witr W	W=Waste Wtr 0	Oil S=Soil WL=Waste L	Matrix Codes: SW=Surface Wtr DW=Drinking Wrt GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe
FM4II icor27@aol.com	FAX NO				O O						Preservative Used
PROJECT NAME: RTN - USTS	STS		PROJECT NO.:		O N H			sletə			•
SITE LOCATION: 1 HEXAMORIA	Ria V	A PO.NO.	10.		A COMP	0	>	M AЯ			Analysis, Method
SAMPLERS: Sing	3	CERT NO	.:		N G = GRAB		O (3T	ь вс ЭС	Н		Required
LAB NO. SAMPLE IDENTIFICATION	NTION	DATE	TIME	MATRIX (See Codes)		ЯĐ	B. DK	_	_		REMARKS
( USTIA		2/23/16	1200	Tig S	1 6		t				Click to enter Remarks
2 175513		1	1215	J	1		t				
3 1552A			1230				+				
4 25T2B		200	1245		N.		+				
S UST 3A			1300				+				
6 UST 3B			1315		7		+				
7 Comp Backful	1 1	_	1330		110		×				
8 Comp Back Cill 2	21112	3	1335	>	7		×				
Reling/Ishe/By: (1)	Date	Time	Received By:	34:		<u>،</u> ا	Request	ed Turnar	Requested Turnaround Time	# of Coolers:	
	318/16	25	a.	d	911	S-Day	ay [	3-Day Emergency	Cy Other	Custody Seal:	ABS
Relinguished By: (2) Game	Date 2 2 28	Time (300)	Received By	Jun	C	Data	Data Deliverables Required:	s Required	#	Ice Present: M. Shipping Carrier:	Aus Temp: 3°C ier: TTE
Relinquished By: (3)	Date	Time	Received By	Эу:		Speci	Special Instructions:	ons:			
Relinquished By: (4)	Date	Тіте	Received By:	3y:							

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. 6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

### Phase Separation Science, Inc

### **Sample Receipt Checklist**

COMO PAR STAND		Gampio itto	ooipi onoonii	
Work Order#	16032809		Received By	Rachel Davis
Client Name	Icor Ltd.		Date Received	03/28/2016 01:00:00 PM
Project Name	RTN-USTs		Delivered By	Trans Time Express
Disposal Date	05/02/2016		Tracking No	Not Applicable
			Logged In By	Rachel Davis
Shipping Conta No. of Coolers				Drecont
Custody Seal(s Seal(s) Signed	·	N/A N/A	lce Temp (deg ( Temp Blank	Present C) 3 Present No
Documentation				
COC agrees w Chain of Custo	vith sample labels? ody	Yes Yes	Sampler Na	me <u>Not Provided</u> <u>N/A</u>
Sample Contair Appropriate for Intact? Labeled and La	r Specified Analysis?	Yes Yes Yes	Custody Sea	al(s) Intact? Not Applicable ned / Dated Not Applicable
Total No. of Sa	amples Received 8		Total No. of	Containers Received 8
Preservation				
Metals			(pH<2)	N/A
Cyanides			(pH>12)	N/A
Sulfide			(pH>9)	N/A
TOC, COD, Pł			(pH<2)	N/A
TOX, TKN, NH			(pH<2)	N/A
•	OA Vials Rcvd Prese	•	(pH<2)	N/A
	nave zero headspace			N/A
624 VOC (Rcv	d at least one unpres	erved VOA vial)		N/A
For any imprope documentation of should be analyze preservation shall hand delivered or	r preservation condition f any client notification a ed as soon as possible, Il be considered accepta	s, list sample ID, poss well as client instructions, preferably in the field ble when received a llected may not meet	reservative added (in ructions. Samples to the dat the time of same that temperature about these criteria but sh	reagent ID number) below as well as for pH, chlorine and dissolved oxygen pling. Samples which require thermal ove freezing to 6°C. Samples that are hall be considered acceptable if there is
Samples Inspected	/Checklist Completed By:	Lacled Dame		Date: 03/28/2016
F	PM Review and Approval:	Simon C	risp	Date: <u>03/29/2016</u>

### **Analytical Report for**

Icor Ltd.

Certificate of Analysis No.: 16033016

Project Manager: Ike Singh Project Name: BTN-UST

Project Location: Alexandria, VA



April 6, 2016
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770

Fax: (410) 788-8723

### PHASE SEPARATION SCIENCE, INC.



April 6, 2016

Ike Singh Icor Ltd. PO Box 406 Middleburg, VA 20118

Reference: PSS Work Order(s) No: 16033016

Project Name: BTN-UST

Project Location: Alexandria, VA

### Dear Ike Singh:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order(s) numbered **16033016**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on May 4, 2016, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



### **Sample Summary**

Client Name: Icor Ltd. Project Name: BTN-UST

Work Order Number(s): 16033016

The following samples were received under chain of custody by Phase Separation Science (PSS) on 03/30/2016 at 03:15 pm

Lab Sample Id	Sample Id	Matrix Date/Time	Collected
16033016-001	MW2	GROUND WATER 03/30/10	6 11:00
16033016-002	MW3	GROUND WATER 03/30/10	6 11:45
16033016-003	MW4	GROUND WATER 03/30/10	6 11:20
16033016-004	MW5	GROUND WATER 03/30/10	6 12:00
16033016-005	PL1 (3-4)	SOIL 03/30/10	6 11:00
16033016-006	PL2 (3-4)	SOIL 03/30/10	6 11:15
16033016-007	PL3 (3-4)	SOIL 03/30/10	6 11:30
16033016-008	PL4 (3-4)	SOIL 03/30/10	6 11:45

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

### Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].
- 7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.
- 8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.

### Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

### **Certifications:**

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015

### PHASE SEPARATION SCIENCE, INC.



### **CERTIFICATE OF ANALYSIS**

No: 16033016

Icor Ltd., Middleburg, VA

April 6, 2016

Project Name: BTN-UST

Project Location: Alexandria, VA

Sample ID: MW2 Matrix: GROUND WATER			Sampled: 03 Received: 03			e ID: 1603301	16-001
Total Petroleum Hydrocarbons - DRO	Analytica	l Method: SV	V-846 8015 C		Preparation Meth	nod: 3510C	
_	Result	Units	RL F	lag Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.29	mg/L	0.11	1	03/31/16	03/31/16 16:0	06 1055
Purgeable Aromatics	Analytica	l Method: SV	V-846 8021B		Preparation Meth	nod: 5030B	
USEPA methods recommend that the appearantly analyzed.	earance of detec	ctable levels of Units	the 8021B com RL F		be confirmed when unfa Prepared	amiliar samples a Analyzed	are Analyst
Benzene	ND	ug/L	1.0	1	03/31/16	03/31/16 23:4	2 1035
Ethylbenzene	ND	ug/L	1.0	1	03/31/16	03/31/16 23:4	2 1035
Naphthalene	4.9	ug/L	1.0	1	03/31/16	03/31/16 23:4	2 1035
Toluene	ND	ug/L	1.0	1	03/31/16	03/31/16 23:4	2 1035
m,p-Xylenes	ND	ug/L	2.0	1	03/31/16	03/31/16 23:4	2 1035
o-Xylene	ND	ug/L	1.0	1	03/31/16	03/31/16 23:4	1035
Sample ID: MW3			Sampled: 03		•	e ID: 1603301	16-002
Sample ID: MW3 Matrix: GROUND WATER			Sampled: 03 Received: 03		•	e ID: 1603301	16-002
•		Date/Time F	•		•		16-002
Matrix: GROUND WATER		Date/Time F	<b>Received: <sup>03</sup></b> V-846 8015 C		5:15		16-002 Analyst
Matrix: GROUND WATER	<b>L</b> Analytica	<b>Date/Time F</b> I Method: SV	R <b>eceived: <sup>03</sup></b> V-846 8015 C	3/30/2016 1	5:15 Preparation Meth	nod: 3510C	Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO	Analytica  Result  0.17	Date/Time F I Method: SV Units mg/L	Received: 03 V-846 8015 C RL F	3/30/2016 1 lag Dil	5:15 Preparation Meth	nod: 3510C <b>Analyzed</b> 03/31/16 16:3	Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)	Analytica  Result  0.17  Analytica	Date/Time F I Method: SV Units mg/L I Method: SV	Received: 03 V-846 8015 C RL F 0.10 V-846 8021B	3/30/2016 1 ilag Dil 1	5:15  Preparation Method  Prepared  03/31/16  Preparation Method	nod: 3510C  Analyzed  03/31/16 16:3	<b>Analyst</b> 31 1055
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearance of the process	Analytica  Result  0.17  Analytica earance of detectors	Date/Time F I Method: SV Units mg/L I Method: SV stable levels of	Received: 03 V-846 8015 C RL F 0.10 V-846 8021B	3/30/2016 1  Ilag Dil  1	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared when unfalled Prepared	Analyzed 03/31/16 16:3 nod: 5030B amiliar samples a	Analyst 1055 are Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearancy analyzed.	Analytica  Result  0.17  Analytica earance of detectors	Units  mg/L  I Method: SV  Units  mg/L  I Method: SV  ctable levels of Units	Received: 03 V-846 8015 C  RL F 0.10 V-846 8021B  the 8021B com RL F	al/30/2016 1  lag Dil  1  appounds below	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared when unfairmed wh	Analyzed 03/31/16 16:3 nod: 5030B amiliar samples a	Analyst 31 1055 are Analyst 07 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearalyzed.  Benzene	Analytica  Result  0.17  Analytica earance of detect Result  ND	Units mg/L  I Method: SV  Units mg/L  I Method: SV  ctable levels of Units  ug/L	Received: 03 V-846 8015 C  RL F 0.10 V-846 8021B F the 8021B com RL F 1.0	3/30/2016 1  Flag Dil  1  ppounds below lag Dil  1	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared  03/31/16  03/31/16	Analyzed 03/31/16 16:3 nod: 5030B amiliar samples a Analyzed 04/01/16 00:0	Analyst 31 1055  are Analyst 07 1035 07 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearancy analyzed.  Benzene Ethylbenzene	Analytica  Result  0.17  Analytica earance of detect Result  ND  ND	Units  mg/L  I Method: SV  totable levels of Units  ug/L  ug/L  ug/L	Received: 03 V-846 8015 C  RL F 0.10 V-846 8021B F the 8021B com RL F 1.0 1.0	Slag Dil  1  npounds below Slag Dil  1  1	Preparation Methodology  Preparation Methodology  O3/31/16  Preparation Methodology  Preparation Methodology  O3/31/16  O3/31/16  O3/31/16	Analyzed 03/31/16 16:3  nod: 5030B  amiliar samples a Analyzed 04/01/16 00:0	Analyst 31 1055  are Analyst 07 1035 07 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appeanalyzed.  Benzene Ethylbenzene Naphthalene	Analytica  Result  0.17  Analytica earance of detection Result  ND  ND  ND  ND	Units  I Method: SV  Units  mg/L  I Method: SV  ctable levels of  Units  ug/L  ug/L  ug/L	Received: 03 V-846 8015 C  RL F 0.10 V-846 8021B F the 8021B com RL F 1.0 1.0 1.0	ilag Dil 1 pounds below lag Dil 1 1 1 1 1	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared  03/31/16  03/31/16  03/31/16  03/31/16	Analyzed 03/31/16 16:3 nod: 5030B amiliar samples a Analyzed 04/01/16 00:0 04/01/16 00:0	Analyst 31 1055  are Analyst 07 1035 07 1035 07 1035

### PHASE SEPARATION SCIENCE, INC.



### **CERTIFICATE OF ANALYSIS**

No: 16033016

Icor Ltd., Middleburg, VA

April 6, 2016

Project Name: BTN-UST

Project Location: Alexandria, VA

Sample ID: MW4 Matrix: GROUND WATER			Sampled: 03 Received: <sup>03</sup>			e ID: 1603301	16-003
Total Petroleum Hydrocarbons - DRO	Analytica	l Method: SV	V-846 8015 C		Preparation Meth	nod: 3510C	
_	Result	Units	RL FI	lag Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	0.75	mg/L	0.10	1	03/31/16	03/31/16 16:3	1 1055
Purgeable Aromatics	Analytica	l Method: SV	V-846 8021B		Preparation Meth	nod: 5030B	
USEPA methods recommend that the appearantly analyzed.	earance of detec	ctable levels of Units	the 8021B com RL FI		be confirmed when unfa Prepared	amiliar samples a Analyzed	are Analyst
Benzene	ND	ug/L	1.0	1	03/31/16	04/01/16 00:3	2 1035
Ethylbenzene	ND	ug/L	1.0	1	03/31/16	04/01/16 00:3	2 1035
Naphthalene	4.3	ug/L	1.0	1	03/31/16	04/01/16 00:3	2 1035
Toluene	ND	ug/L	1.0	1	03/31/16	04/01/16 00:3	2 1035
m,p-Xylenes	ND	ug/L	2.0	1	03/31/16	04/01/16 00:3	2 1035
o-Xylene	ND	ug/L	1.0	1	03/31/16	04/01/16 00:3	2 1035
Sample ID: MW5			Sampled: 03		•	e ID: 1603301	16-004
Sample ID: MW5 Matrix: GROUND WATER			Sampled: 03 Received: <sup>03</sup>		•	e ID: 1603301	16-004
•		Date/Time F	•		•		16-004
Matrix: GROUND WATER		Date/Time F	Received: 03 V-846 8015 C		5:15		Analyst
Matrix: GROUND WATER	<b>L</b> Analytica	<b>Date/Time F</b> I Method: SV	Received: 03 V-846 8015 C	3/30/2016 1	5:15 Preparation Meth	nod: 3510C	Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO	Analytica  Result  ND	Date/Time F I Method: SV Units mg/L	Received: <b>03</b> V-846 8015 C RL FI	3/30/2016 19	5:15 Preparation Meth	nod: 3510C <b>Analyzed</b> 03/31/16 16:5	Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)	Analytica  Result  ND  Analytica	Date/Time F I Method: SV Units mg/L I Method: SV	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B f the 8021B com	3/30/2016 19 lag Dil 1	5:15 Preparation Meth Prepared 03/31/16 Preparation Meth	nod: 3510C  Analyzed  03/31/16 16:5	<b>Analyst</b> 7 1055
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearance of the process	Analytica  Result  ND  Analytica earance of detections	Oate/Time F I Method: SV Units mg/L I Method: SV stable levels of	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B f the 8021B com	3/30/2016 19  lag Dil  1	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared when unfalled	Analyzed 03/31/16 16:5 nod: 5030B amiliar samples a	Analyst 7 1055 are Analyst
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearance analyzed.	Analytica  Result  ND  Analytica earance of detect Result	Date/Time F I Method: SV  Units  mg/L I Method: SV  Stable levels of Units	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B  The 8021B comp	Iag Dil 1 pounds below	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared when unfairmed wh	Analyzed 03/31/16 16:5 nod: 5030B amiliar samples a	Analyst 7 1055 are Analyst 8 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearant of the second o	Analytica  Result  ND  Analytica earance of detect Result  ND	Units mg/L  I Method: SV  Whits mg/L  I Method: SV  Stable levels of Units  ug/L	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B f the 8021B comp RL FI 1.0	B/30/2016 15  lag Dil  1  spounds below lag Dil  1	Preparation Methodology  Prepared  03/31/16  Preparation Methodology  Prepared  03/31/16  03/31/16	Analyzed 03/31/16 16:5 anod: 5030B amiliar samples a Analyzed 04/01/16 00:5	Analyst 7 1055  are Analyst 8 1035 8 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appearancy analyzed.  Benzene Ethylbenzene	Analytica  Result  ND  Analytica earance of detect Result  ND  ND	Units  I Method: SV  Units  mg/L  I Method: SV  Stable levels of Units  ug/L  ug/L	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B F the 8021B comp RL FI 1.0 1.0	3/30/2016 15  lag Dil  1  pounds below lag Dil  1	Preparation Methodology  Preparation Methodology  O3/31/16  Preparation Methodology  Preparation Methodology  O3/31/16  O3/31/16  O3/31/16	Analyzed 03/31/16 16:5  nod: 5030B  amiliar samples a Analyzed 04/01/16 00:5	Analyst 7 1055  Are Analyst 8 1035 8 1035 8 1035
Matrix: GROUND WATER  Total Petroleum Hydrocarbons - DRO  TPH-DRO (Diesel Range Organics)  Purgeable Aromatics  USEPA methods recommend that the appeanalyzed.  Benzene Ethylbenzene Naphthalene	Analytica  Result  ND  Analytica earance of detect Result  ND  ND  ND  ND	Units  I Method: SV  Units  mg/L  I Method: SV  table levels of  Units  ug/L  ug/L  ug/L  ug/L	Received: 03 V-846 8015 C  RL FI 0.12 V-846 8021B F the 8021B comp RL FI 1.0 1.0 1.0	1   1   1   1   1   1   1   1   1   1	Preparation Method No. 100 Preparation Method No. 100 Preparation Method No. 100 Preparation Method No. 100 Preparation No. 100 No. 10	Analyzed 03/31/16 16:5 anod: 5030B amiliar samples a Analyzed 04/01/16 00:5 04/01/16 00:5	Analyst 7 1055  Analyst 8 1035 8 1035 8 1035 8 1035

### PHASE SEPARATION SCIENCE, INC.



### **CERTIFICATE OF ANALYSIS**

No: 16033016

Icor Ltd., Middleburg, VA

April 6, 2016

Project Name: BTN-UST

Project Location: Alexandria, VA

Sample ID: PL1 (3-4)		Date/Time	Sampled:	03/30/	2016 11:0	0 PSS Sampl	e ID: 1603301	16-005
Matrix: SOIL		Date/Time	Received:	03/30/	2016 15:1	5 % S	olids: 85	
Total Petroleum Hydrocarbons - DRO	Analytica	l Method: S	W-846 8015	С		Preparation Meth	nod: SW3550C	•
DF/HF - No. 2/diesel fuel and heavier fuel/oil	patterns obse <b>Result</b>	erved in samp <b>Units</b>		Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	19	mg/kg	12	DF	1	03/31/16	04/05/16 13:2	9 1055
Sample ID: PL2 (3-4)		Date/Time	Sampled:	03/30/	2016 11:1	5 PSS Sampl	e ID: 1603301	16-006
Matrix: SOIL		Date/Time	Received:	03/30/	2016 15:1	5 % S	olids: 84	
Total Petroleum Hydrocarbons - DRO	Analytica	ll Method: S	W-846 8015	С		Preparation Meth	nod: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	12		1	03/31/16	04/01/16 14:1	6 1055
Sample ID: PL3 (3-4)		Date/Time	Sampled:	03/30/	2016 11:3	0 PSS Sampl	e ID: 1603301	16-007
Matrix: SOIL		Date/Time	Received:	03/30/	2016 15:1	5 % S	olids: 87	
Total Petroleum Hydrocarbons - DRO	Analytica	l Method: S	W-846 8015	С		Preparation Meth	nod: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	12		1	03/31/16	04/01/16 13:2	25 1055
Sample ID: PL4 (3-4)		Date/Time	Sampled:	03/30/	2016 11:4	5 PSS Sampl	e ID: 1603301	16-008
Matrix: SOIL		Date/Time	Received:	03/30/	2016 15:1	5 % S	olids: 85	
Total Petroleum Hydrocarbons - DRO	Analytica	ll Method: S	W-846 8015	С		Preparation Meth	nod: SW3550C	;
	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/kg	12		1	03/31/16	03/31/16 19:2	9 1055



### **Case Narrative Summary**

Client Name: Icor Ltd.

**Project Name: BTN-UST** 

Work Order Number(s): 16033016

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

The analyses of chlorine, pH, dissolved oxygen, temperature and sulfite for drinking water and non-potable samples tested for compliance have a maximum holding time of 15 minutes. As such, all laboratory analyses for these analytes exceed holding times.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

### Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

Page 7 of 15



# Analytical Data Package Information Summary

Work Order(s): 16033016
Report Prepared For: Icor Ltd., Middleburg, VA
Project Name: Icor Master Price List
Project Manager: Ike Singh

Method	Client Sample Id	Analysis Type	Lab Sample Id	Analyst	Mtx	Prep Batch	Analytical Batch	Sampled	Prepared	Analyzed
4 STATE 105	DI 1 (3.4)	Initial	16033016 005	1050	v	131363	131363	03/30/2016	03/30/2016 16:37	03/30/2016 16:37
CO 01777 MIT CW	PL2 (3-4)	Initial	16033016-006	1059	. v	131363	131363	03/30/2016	03/30/2016 16:37	03/30/2016 16:37
	PL3 (3-4)	Initial	16033016-007	1059	S	131363	131363	03/30/2016	03/30/2016 16:37	03/30/2016 16:37
	PL4 (3-4)	Initial	16033016-008	1059	S	131363	131363	03/30/2016	03/30/2016 16:37	03/30/2016 16:37
SW-846 8015 C	MW2	Initial	16033016-001	1055	$\bowtie$	60121	131419	03/30/2016	03/31/2016 08:22	03/31/2016 16:06
	MW3	Initial	16033016-002	1055	×	60121	131419	03/30/2016	03/31/2016 08:22	03/31/2016 16:31
	MW4	Initial	16033016-003	1055	×	60121	131419	03/30/2016	03/31/2016 08:22	03/31/2016 16:31
	MW5	Initial	16033016-004	1055	M	60121	131419	03/30/2016	03/31/2016 08:22	03/31/2016 16:57
	60121-1-BKS	BKS	60121-1-BKS	1055	M	60121	131419	!	03/31/2016 08:22	03/31/2016 15:16
	60121-1-BLK	BLK	60121-1-BLK	1055	M	60121	131419	-	03/31/2016 08:22	03/31/2016 11:49
	60121-1-BSD	BSD	60121-1-BSD	1055	M	60121	131419	!	03/31/2016 08:22	03/31/2016 15:41
	PL1 (3-4)	Initial	16033016-005	1055	S	60135	131508	03/30/2016	03/31/2016 12:21	04/05/2016 13:29
	PL2 (3-4)	Initial	16033016-006	1055	S	60135	131508	03/30/2016	03/31/2016 12:21	04/01/2016 14:16
	PL3 (3-4)	Initial	16033016-007	1055	S	60135	131508	03/30/2016	03/31/2016 12:21	04/01/2016 13:25
	PL4 (3-4)	Initial	16033016-008	1055	S	60135	131508	03/30/2016	03/31/2016 12:21	03/31/2016 19:29
	60135-1-BKS	BKS	60135-1-BKS	1055	S	60135	131508		03/31/2016 12:21	03/31/2016 17:48
	60135-1-BLK	BLK	60135-1-BLK	1055	S	60135	131508	!	03/31/2016 12:21	03/31/2016 17:22
	60135-1-BSD	BSD	60135-1-BSD	1055	S	60135	131508		03/31/2016 12:21	03/31/2016 18:13
	12301-GP5-13' S	MS	16032911-005 S	1055	S	60135	131508	03/28/2016	03/31/2016 12:21	03/31/2016 17:48
	12301-GP5-13' SD	MSD	16032911-005 SD	1055	S	60135	131508	03/28/2016	03/31/2016 12:21	03/31/2016 18:13
SW-846 8021B	MW2	Initial	16033016-001	1035	M	60149	131404	03/30/2016	03/31/2016 20:44	03/31/2016 23:42
	MW3	Initial	16033016-002	1035	M	60149	131404	03/30/2016	03/31/2016 20:44	04/01/2016 00:07
	MW4	Initial	16033016-003	1035	×	60149	131404	03/30/2016	03/31/2016 20:44	04/01/2016 00:32
	MW5	Initial	16033016-004	1035	M	60149	131404	03/30/2016	03/31/2016 20:44	04/01/2016 00:58
	60149-1-BKS	BKS	60149-1-BKS	1035	M	60149	131404		03/31/2016 20:44	03/31/2016 23:16
	60149-1-BLK	BLK	60149-1-BLK	1035	M	60149	131404		03/31/2016 20:44	03/31/2016 22:25
	MW2 S	MS	16033016-001 S	1035	$\bowtie$	60149	131404	03/30/2016	03/31/2016 20:44	04/01/2016 06:27
	MW2 SD	MSD	16033016-001 SD	1035	*	60149	131404	03/30/2016	03/31/2016 20:44	04/01/2016 06:52

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Final 1.000

### PHASE SEPARATION SCIENCE, INC. QC Summary 16033016

### Icor Ltd. **BTN-UST**

Analytical Method Seq Number: PSS Sample ID:	d: <b>SW-846 8015 C</b> 131419 16033016-001		Matrix:	Ground Water	Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl		63		37-136	%	03/31/16 16:06
Analytical Method					Prep Method:	
Seq Number: PSS Sample ID:	131404 16033016-001		Matrix:	Ground Water	Date Prep:	03/31/2016
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotolue	ene-BTEX	102		63-128	%	03/31/16 23:42
Analytical Method	d: SW-846 8015 C				Prep Method:	
Seq Number: PSS Sample ID:	131419 16033016-002		Matrix:	Ground Water	Date Prep:	03/31/2016
i co campio ib.	10000010 002					
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
Surrogate o-Terphenyl		<b>%Rec</b> 70	Flag	<b>Limits</b> 37-136	Units %	Analysis Date 03/31/16 16:31
			Flag			Date
	d: SW-846 8021B		Flag			<b>Date</b> 03/31/16 16:31
o-Terphenyl  Analytical Method Seq Number:	131404				%	<b>Date</b> 03/31/16 16:31 SW5030B
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID:		70	Matrix:	37-136  Ground Water	% Prep Method: Date Prep:	Date 03/31/16 16:31 SW5030B 03/31/2016
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate	131404 16033016-002	70 %Rec		37-136  Ground Water  Limits	% Prep Method: Date Prep: Units	Date 03/31/16 16:31 SW5030B 03/31/2016 Analysis Date
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID:	131404 16033016-002	70	Matrix:	37-136  Ground Water	% Prep Method: Date Prep:	Date 03/31/16 16:31 SW5030B 03/31/2016 Analysis
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate	131404 16033016-002	70 %Rec	Matrix:	37-136  Ground Water  Limits	% Prep Method: Date Prep: Units	Date 03/31/16 16:31 SW5030B 03/31/2016 Analysis Date
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate a,a,a-Trifluorotolue  Analytical Method	131404 16033016-002 ene-BTEX	70 %Rec	Matrix: Flag	37-136  Ground Water  Limits  63-128	% Prep Method: Date Prep: Units % Prep Method:	Date 03/31/16 16:31  SW5030B 03/31/2016  Analysis Date 04/01/16 00:07
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate a,a,a-Trifluorotolue  Analytical Method Seq Number:	131404 16033016-002 ene-BTEX d: <b>SW-846 8015 C</b> 131419	70 %Rec	Matrix: Flag	37-136  Ground Water  Limits	% Prep Method: Date Prep: Units %	Date 03/31/16 16:31  SW5030B 03/31/2016  Analysis Date 04/01/16 00:07
o-Terphenyl  Analytical Method Seq Number: PSS Sample ID: Surrogate a,a,a-Trifluorotolue  Analytical Method	131404 16033016-002 ene-BTEX	70 %Rec	Matrix: Flag	37-136  Ground Water  Limits  63-128	% Prep Method: Date Prep: Units % Prep Method:	Date 03/31/16 16:31  SW5030B 03/31/2016  Analysis Date 04/01/16 00:07

### PHASE SEPARATION SCIENCE, INC. QC Summary 16033016

### Icor Ltd. BTN-UST

Analytical Method Seq Number: PSS Sample ID:	1: <b>SW-846 8021B</b> 131404 16033016-003		Matrix:	Ground Water	Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
a,a,a-Trifluorotolue	ene-BTEX	101		63-128	%	04/01/16 00:32
Analytical Method Seq Number: PSS Sample ID:	1: <b>SW-846 8015 C</b> 131419 16033016-004		Matrix:	Ground Water	Prep Method: Date Prep:	
Surrogate		%Rec	Flag	Limits	Units	Analysis Date
o-Terphenyl		56		37-136	%	03/31/16 16:57
Analytical Method Seq Number: PSS Sample ID:	<b>I: SW-846 8021B</b> 131404 16033016-004		Matrix:	Ground Water	Prep Method: Date Prep:	
Surrogate a,a,a-Trifluorotolue	ne-BTEX	<b>%Rec</b> 108	Flag	<b>Limits</b> 63-128	Units %	Analysis Date 04/01/16 00:58
a,a,a-Trifluorotolue  Analytical Method	ı: SW-846 8015 C			63-128	% Prep Method:	Date 04/01/16 00:58 SW3550C
a,a,a-Trifluorotolue			Flag Matrix:	63-128	%	Date 04/01/16 00:58 SW3550C
a,a,a-Trifluorotolue  Analytical Method Seq Number:	I: <b>SW-846 8015 C</b> 131508			63-128	% Prep Method:	Date 04/01/16 00:58 SW3550C
a,a,a-Trifluorotolue  Analytical Method Seq Number: PSS Sample ID:	I: <b>SW-846 8015 C</b> 131508	108	Matrix:	63-128 Soil	% Prep Method: Date Prep:	Date 04/01/16 00:58 SW3550C 03/31/2016 Analysis
a,a,a-Trifluorotolue  Analytical Method Seq Number: PSS Sample ID:  Surrogate	I: <b>SW-846 8015 C</b> 131508 16033016-005	108 %Rec 97	Matrix: Flag Matrix:	63-128  Soil  Limits 42-129  Soil	% Prep Method: Date Prep: Units % Prep Method: Date Prep:	Date 04/01/16 00:58  SW3550C 03/31/2016  Analysis Date 04/05/16 13:29  SW3550C 03/31/2016
a,a,a-Trifluorotolue  Analytical Method Seq Number: PSS Sample ID: Surrogate o-Terphenyl  Analytical Method Seq Number:	1: SW-846 8015 C 131508 16033016-005 4: SW-846 8015 C 131508	108 %Rec	Matrix: Flag	63-128  Soil  Limits  42-129	% Prep Method: Date Prep: Units % Prep Method:	Date 04/01/16 00:58  SW3550C 03/31/2016  Analysis Date 04/05/16 13:29  SW3550C

### PHASE SEPARATION SCIENCE, INC.

### QC Summary 16033016

Icor Ltd. **BTN-UST** 

Analytical Method: SW-846 8015 C

Prep Method: SW3550C Seq Number: 131508 Matrix: Soil Date Prep: 03/31/2016

PSS Sample ID: 16033016-007

%Rec Flag Limits Units **Analysis** Surrogate Date 77 % o-Terphenyl 42-129 04/01/16 13:25

Analytical Method: SW-846 8015 C

Prep Method: SW3550C Seq Number: 131508 Matrix: Soil Date Prep: 03/31/2016

PSS Sample ID: 16033016-008

%Rec Flag Limits Units **Analysis** Surrogate Date o-Terphenyl 68 42-129 % 03/31/16 19:29

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

### **ATTACHMENT 5**

### UPDATED NOTIFICATION FOR UNDERGROUND STORAGE TANKS (USTs) FORM 7530-02

### PHASE SEPARATION SCIENCE, INC.

### QC Summary 16033016

### Icor Ltd. BTN-UST

Analytical Method: SW-846 8015 CPrep Method: SW3510CSeq Number:131419Matrix: WaterDate Prep: 03/31/16

MB Sample Id: 60121-1-BLK LCS Sample Id: 60121-1-BKS LCSD Sample Id: 60121-1-BSD

%RPD RPD LCS LCS MB **Spike** LCSD LCSD Limits Units **Analysis Parameter** Flag Limit Date Result **Amount** Result %Rec %Rec Result TPH-DRO (Diesel Range Organics) <0.1000 1.000 0.6600 0.6205 62 61-119 20 mg/L 03/31/16 15:16

MB MB LCS LCS LCSD **LCSD** Limits Units **Analysis** Surrogate Flag Flag Date %Rec Flag Result Result o-Terphenyl 61 71 64 37-136 % 03/31/16 15:16

 Analytical Method: SW-846 8015 C
 Prep Method: SW3550C

 Seq Number:
 131508
 Matrix: Solid
 Date Prep: 03/31/16

 MB Sample Id:
 60135-1-BLK
 LCS Sample Id: 60135-1-BKS
 LCSD Sample Id: 60135-1-BSD

%RPD MB Spike LCS LCS Limits **RPD** Units Analysis LCSD LCSD **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date TPH-DRO (Diesel Range Organics) <9.987 33.29 25.71 24.58 25 03/31/16 17:48 77 73 56-117 mg/kg LCS MB MB **LCS LCSD** Limits **LCSD** Units **Analysis** Surrogate Flag Flag Flag Date %Rec Result Result

68

Analytical Method: SW-846 8021B
Seq Number: 131404
Matrix: Water
Prep Method: SW5030B
Date Prep: 03/31/16

66

MB Sample Id: 60149-1-BLK LCS Sample Id: 60149-1-BKS

72

o-Terphenyl

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec		Limits		Units	Analysis Date	Flag
Benzene	<1.000	50.00	49.94	100	)	80-124		ug/L	03/31/16 23:16	
Ethylbenzene	<1.000	50.00	49.63	99	)	73-137		ug/L	03/31/16 23:16	
Naphthalene	<1.000	50.00	49.17	98	3	57-138		ug/L	03/31/16 23:16	
Toluene	<1.000	50.00	50.25	101		77-129		ug/L	03/31/16 23:16	
m,p-Xylenes	<2.000	100	100.8	101		71-140		ug/L	03/31/16 23:16	
o-Xylene	<1.000	50.00	50.30	101		72-140		ug/L	03/31/16 23:16	
Surrogate	MB %Rec	MB Flag		.CS esult	LCS Flag		Limits	Units	Analysis Date	
a,a,a-Trifluorotoluene-BTEX	106		1	110			63-128	%	03/31/16 23:16	

%

42-129

03/31/16 17:48

### PHASE SEPARATION SCIENCE, INC.

QC Summary 16033016

### Icor Ltd. BTN-UST

Analytical Method: SW-846 8021BPrep Method: SW5030BSeq Number:131404Matrix: Ground WaterDate Prep: 03/31/16

106

Parent Sample Id: 16033016-001 MS Sample Id: 16033016-001 S MSD Sample Id: 16033016-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis F Date	Flag
Benzene	<1.000	50.00	49.05	98	46.51	93	50-119	5	25	ug/L	04/01/16 06:27	
Ethylbenzene	<1.000	50.00	48.93	98	45.94	92	43-135	6	25	ug/L	04/01/16 06:27	
Naphthalene	4.850	50.00	45.44	81	44.71	80	22-158	2	25	ug/L	04/01/16 06:27	
Toluene	<1.000	50.00	49.37	99	46.45	93	48-128	6	25	ug/L	04/01/16 06:27	
m,p-Xylenes	<2.000	100	98.96	99	93.54	94	43-134	6	25	ug/L	04/01/16 06:27	
o-Xylene	<1.000	50.00	48.17	96	45.28	91	43-132	6	25	ug/L	04/01/16 06:27	
Surrogate				VIS sult	MS Flag	MSI Resu			mits	Units	Analysis Date	

109

63-128

a,a,a-Trifluorotoluene-BTEX

04/01/16 06:27

F = RPD exceeded the laboratory control limits

X = Recovery of MS, MSD or both outside of QC Criteria

H= Recovery of BS,BSD or both exceeded the laboratory control limits

L = Recovery of BS,BSD or both below the laboratory control limits

Physics Separation Science

-8851 Orcherd Tree Lans Towson, MD 21286 Phone: 410.825.1151 Fax: 410.825.2126 www.caslabs.net

## 16033016 Chain of Custody Record

SDG Number: E-mail address: Customer:

Sampled by:	PO Number:

Contact/Report to:	716			Project Name:	Name:	RTA	RTN-UST				
Phone:				Project	Project Number:				Sampled by:	.xc	
Fax:				Location:	::	Alex	Hexandrin	رام	PO Number:	9T:	
			0				Analys	Analysis Requested	þ		
					Preservative	tive					
						/	1   3	//	/ / /	///	
						_	da	/	/ /	/ /	
						0	140 X3	/	/ / /	/	
Lab Number	Field Sample ID	Date Sampled	Time	No. of Bottles	Matrix	0	No.		///		Sampling Remarks/ Comments
	Mus	2/30/16 1100	1100	S	GE	メナ	X				
THE REAL PROPERTY.	S WW		1145	S	(5w)	XX	X				
15	mm 4		1120	Ś		X	×				
	MW S.		2021	S	$\rightarrow$	X	×			(9)	
	PL1 (3-4)		1100	_	Seil	<u>ب</u>			aloo Toole	LS:	
	7.1										

	1		1000	-			
Relinquished by:	5/1		Date/Time:	3-30-16/2	3-30-/6 / 20 Deliverables:	Receipt Temperature: Turnaround Time:	Turnaround Time:
Received by:	X	Jan	Date/Time:	3-30-16/1	I II III CLP EDD	3-30-16/32- I II III CLP EDD Temp: On los STD Next Day 2-Day Other	STD Next Day 2-Day Other
Relinquished by:	A	today	Date/Time:	3-30-66/23	Custody Seals:	3-33-16 / 270 Custody Seals: Comments/Special Instructions:	tions:
Received by:		Marin.	Date/Time:	3/30/16/1516	3/30/16 /1519 Sample Cooler		
Relinquished by:			Date/Time:	/ , ,	Delivered by client		
Received by:			Date/Time:			-04	

CAS COC

130

Final 1.000



### Phase Separation Science, Inc

### Sample Receipt Checklist

2000) 798) 3180				
Work Order #	16033016		Received By	Rachel Davis
Client Name	Icor Ltd.		Date Received	03/30/2016 03:15:00 PM
Project Name	BTN-UST		Delivered By	Client
Disposal Date	05/04/2016		Tracking No	Not Applicable
			Logged In By	Rachel Davis
Shipping Contai No. of Coolers	ner(s) 1		lce	Present
Custody Seal(s Seal(s) Signed	•	N/A N/A	Temp (deg (	
Documentation			0 1 1	–
COC agrees wi Chain of Custo	th sample labels? dy	Yes Yes	Sampler Na	me <u>Not Provided</u> <u>N/A</u>
Sample Contain Appropriate for Intact? Labeled and La	Specified Analysis?	Yes Yes Yes	Custody Sea Seal(s) Sign	. ,
Total No. of Sa	mples Received 8		Total No. of	Containers Received 24
Preservation				
Metals			(pH<2)	N/A
Cyanides			(pH>12)	N/A
Sulfide			(pH>9)	N/A
TOC, COD, Ph	enols		(pH<2)	N/A
TOX, TKN, NH	3, Total Phos		(pH<2)	N/A
· ·	OA Vials Rcvd Prese	•	(pH<2)	Yes
Do VOA vials h	ave zero headspace	?		Yes
624 VOC (Revo	d at least one unpres	erved VOA vial)		N/A
Comments: (Ar	ny "No" response	must be detaile	ed in the comm	ents section below.)
documentation of should be analyze preservation shall hand delivered on	any client notification and as soon as possible, be considered accepta	ns well as client instructions or series of the series of	ructions. Samples f d at the time of sam it a temperature abo these criteria but sh	reagent ID number) below as well as for pH, chlorine and dissolved oxygen pling. Samples which require thermal ove freezing to 6°C. Samples that are lall be considered acceptable if there is
Samples Inspected/	Checklist Completed By:	Lacled Dam Rachel D	davis	Date: 03/30/2016
P	M Review and Approval:	Aller J loger Amber Co	onfer	Date: <u>03/31/2016</u>

PART I: PURPOSE OF NOTIFICATION					S	TATE USE ONLY
Date Received Date Entered Entered Entered Entered Entered By Comments  PART I: PURPOSE OF NOTIFICATION  Check all that apply:			und	ID Nombre		MILITER TO A STATE OF THE STATE
Date Received   Date Entered By	Storage Tanks (UST	s)		ISSUED TO THE		
PART I: PURPOSE OF NOTIFICATION   Check all that apply:					_	
PART I: PURPOSE OF NOTIFICATION	Virginia DEQ Water Form 7530-2			10.57		
PART I: PURPOSE OF NOTIFICATION  Check all that apply:  New incit previously registered facility				DESTRUCTOR CONTROLS		
Chack all that apply:	(See reverse for mailing instructions)		Rev. (01/03)	Comments		
New (not previously registered) facility   Temporary closure   Change in lank contents		PART	I: PURPOSE	OF NOTIFIC	ATIC	ON
New tank(s) at previously registered facility	Check all that apply:		T			Change in tank contents
Change in stake (e.g. upgrade)	New (not previously registered) facility				-	Albert Francisco
Change in Janya (e.g., upgrade)  PART II: OWNERSHIP OF TANKS  Comer Name  LEXANDRIA NORTH TERMINAL LLC  Sower Address  B. Facility Name  ROBINSON TERMINAL NORTH  B. Facility Street Address (P.O. Box not acceptable)  501 N UNION STREET  C. City. Zip  J. Name of Contact Person  USS WHEELER  CITY OF ALEXANDRIA, VA 22314  D. County or Municipality where Facility is Located  CITY OF ALEXANDRIA  CITY OF ALEXANDRIA  D. County or Municipality where Facility is Located  CITY OF ALEXANDRIA  CITY OF ALEXANDRIA  D. County or Municipality where Facility is Located  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  DEVELOPMENT MANAGER  F. Fitte of Contact Person  DEVELOPMENT MANAGER  S. Email Address  G. Phone Number  (202) 944-4730  G. Phone Number  (202) 944-4731  F. Fitte of Contact Person  DEVELOPMENT MANAGER  F. Fitte of Contact Person  DEVELOPMENT MANAGER  S. Email Address  G. Phone Number  (202) 944-4731  F. Fitte of Contact Person  DEVELOPMENT MANAGER  F. Fitte of	New tank(s) at previously registered facilities	lity 🔽	COMMERCIAL FOR A	1000000		14.1400-00.000mme
PART II: OWNERSHIP OF TANKS  PART III: LOCATION OF TANKS  Cover Name  LEXANDRIA NORTH TERMINAL LLC  Cover Address  So IN UNION STREET  Cover State 20  Cover Address  So IN UNION STREET  A. Facility Name  B. Facility Street Address (P.O. Box not acceptable)  So IN UNION STREET  ALEXANDRIA, VA 22314  D. Country of Municipality where Facility is Located  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  Fince Number  Fax Number  (202 ) 944-4704  Fax Number  (202 ) 944-4730  Cover So III State Person  RUSS WHEELER  COVERNMENT MANAGER  Fax Number  Fax Number  (202 ) 944-4730  Cover So III State Person  RUSS WHEELER  RUSS WHEELE	Change in tanks (e.g., upgrade)		Piping removal or	closure	Ц	Change in owner address
LEXANDRIA NORTH TERMINAL LLC  ROBINSON TERMINAL NORTH  B. Facility Name  B. Facility Name  B. Facility Street Address (P.O. Box not acceptable)  501 N UNION STREET  C. City, State. Zip  UITE # 401  D. Name of Contact Person  UITE # 401  D. Name of Cont				7000000	Macedia	
LEXANDRIA NORTH TERMINAL LLC  8. Facility Street Address (P.O. Box not acceptable)  900 K STREET NW  501 N UNION STREET  C. City. Zip  UITE # 401  D. County or Municipality where Facility is Located  UITE WASHINGTOR Person  USS WHEELER  E. Title of Contact Person  EVELOPMENT MANAGER  E. Phone Number  (202 ) 944-4704  E. Name of Contact Person  EVELOPMENT MANAGER  E. Phone Number  (202 ) 944-4730  E. VIR WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  EVELOPMENT MANAGER  E. Phone Number  (202 ) 944-4730  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  E. Title of Contact Person  DEVELOPMENT MANAGER  Fax Number  (202 ) 944-4730  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  E. Title of Contact Person  DEVELOPMENT MANAGER  Fax Number  (202 ) 944-4730  E. Name of Contact Person  RUSS WHEELER  E. Title of Contact Person  RUSS WHEELER  E. Title of Contact Person  RUSS WHEELER  E. Title of Contact Person  DEVELOPMENT MANAGER  Fax Number  (202 ) 944-4730  E. Name of Contact Person  RUSS WHEELER  E. Title of Contact Pers	PART II: OWNERSH	IP OF	TANKS	to make an amount of the last	r III:	LOCATION OF TANKS
B. Facility Street Address (P.O. Box not acceptable) 900 K STREET NW 501 N UNION STREET UITE # 401 0. Name of Contact Person UITE # 401 0. Name of Contact Person UITE # 401 0. County or Municipality where Facility is Located UITY OF ALEXANDRIA, VA 22314 0. County or Municipality where Facility is Located UITY OF ALEXANDRIA E. Talle of Contact Person RUSS WHEELER E. Talle of Contact Person RUSS WHEELER E. Talle of Contact Person RUSS WHEELER E. The of Contact Person RUSS WHEELER E. Th	A. Owner Name	110			DIMIN	IAI NORTH
S00 K STREET NW  S01 N UNION STREET C. City. Zip ALEXANDRIA, VA 22314  D. County or Municipality where Facility is Located CITY OF ALEXANDRIA E. Name of Contact Person EVELOPMENT MANAGER E. Name of Person DEVELOPMENT MANAGER  E. Name of Contact Person DEVELOPMENT MANAGER  E. Name		LLC			7. 30 3 5 5 5 1	
C. City. Zip UITE # 401  D. Name of Contact Person  USS WHEELER  CITY OF ALEXANDRIA, VA 22314  D. County or Municipality where Facility is Located CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  CITY OF ALEXANDRIA  E. Name of Contact Person  RUSS WHEELER  Phone Number  Phone Number  (202 ) 944-4704  S. E-mail Address  G. Phone Number  (202 ) 944-4704  Fax Number  (202 ) 944-4704  Fax Number  (202 ) 944-4704  RUSS WHEELER@CITYINTERESTS.COM  H. E-mail Address  RWHEELER@CITYINTERESTS.COM  H. E-mail Address  RWHEELER@CITYINTERESTS.COM  PART IV: TYPE OF OWNER  PART V: TYPE OF FACILITY  Petroleum  State government Private State government Other  Petroleum  Petroleum  Petroleum  Petroleum  State government Other  PART VI: FINANCIAL RESPONSIBILITY  The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms  PART VII: OWNER CERTIFICATION  I certify under penalty of law that I have personality examined and arm familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that this owner of the underground storage tank hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 VAC 25-590-10 et seq. with Gederal regulation 40 C FR Part 280, among other requirements. I warrant and represent that I am the owner of the underground storage tank needly responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that this owner of the underground storage tank needly responsible for obtaining the information. I believe that the submitted information is frue, accurate and complete. I understand that this owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulatio						
ALEXANDRIA, VA 22314  D. County or Municipality where Facility is Located CITY OF ALEXANDRIA  E. Title of Contact Person  EVELOPMENT MANAGER  E. Title of Contact Person  EVELOPMENT MANAGER  Fax Number  (202 ) 944-4730	C. City, State, Zip			C. City. Zip		- 1. C. A. C. L. C.
CITY OF ALEXANDRIA  E. Title of Contact Person  EVELOPMENT MANAGER  Fax Number  (202 ) 944-4730  (202 ) 944-4704  DEVELOPMENT MANAGER  F. Title of Contact Person  RUSS WHEELER  F. Title of Contact Person  DEVELOPMENT MANAGER  F. Title of Contact Person  DEVELOPMENT MANAGER  S. E-mail Address  WHEELER@CITYINTERESTS.COM  I. Name of Previous Owner  HE WASHINGTON POST COMPANY  PART IV: TYPE OF OWNER  Federal government  Private  PART V: TYPE OF FACILITY  Residency  Gas station  Perforbeum  distributor  Gestral mon-military  Industrial  Federal military  Industrial  Farm  PART V: FINANCIAL RESPONSIBILITY  The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms  Self Insurance  Insurance  Insurance  Insurance  PART VI: OWNER CERTIFICATION  Icertify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the owner of the undergroup's price preparation on health of the owner.  PART VII: INSTALLER CERTIFICATION  Icertify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the owner of the undergroup's this certification on behalf of the owner. I understalnd that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.  PART VIII: INSTALLER CERTIFICATION  Index the installation requirements. I warrant and represent that I have the authority to sign this certification on behalf of the installer.  Name and Title (Type or Print)  Signature  Date	SUITE # 401			A 1981 (1981)	Service Services	
E. Name of Contact Person  EVELOPMENT MANAGER  Fax Number  [202 ] 944-4730	D. Name of Contact Person					
RUSS WHEELER  Phone Number  (202 ) 944-4730 (202 ) 944-4704  3. E-mail Address  WHEELER@CITYINTERESTS.COM  (202 ) 944-4730 (202 ) 944-4704  3. E-mail Address  WHEELER@CITYINTERESTS.COM  (202 ) 944-4730 (202 ) 944-4704  H. E-mail Address  RWHEELER@CITYINTERESTS.COM  PART IV: TYPE OF OWNER  PART V: TYPE OF FACILITY  Pederal government  Commercial gas station pertoleum distributor local military industrial pass that government of the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms  PART VI: FINANCIAL RESPONSIBILITY  The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms  Self Insurance Insurance Letter of Credit Virginia Petroleum Storage Tank Fund  PART VII: OWNER CERTIFICATION  I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground's storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9/AC 25-580-10 et seq./and federal regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner of the underground's storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9/AC 25-580-10 et seq./and federal regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner of the underground's storage tanks hereby registered is signature.  PART VIII: INSTALLER CERTIFICATION  I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the owner of the underground storage tanks have been conside						
Figure Number (202 ) 944-4730 (202 ) 944-4704 DEVELOPMENT MANAGER  3. E-mail Address WHEELER@CITYINTERESTS.COM (202 ) 944-4704 H. Name of Previous Owner HE WASHINGTON POST COMPANY  PART IV: TYPE OF OWNER    Federal government   Commercial   Retail   Gas station   Petroleum   Federal military   Industrial   Farm   Industrial   Industrial   Farm   Industrial   Industrial   Farm   Industrial   Industrial   Farm   Industrial   Industrial   Farm   Industrial   Industrial   Farm   Industrial   Industrial						
Q02   944-4730   Q22   944-4704   DEVELOPMENT MANAGER		Number		F. Title of Contact	Person	
Commercial   Part V: TYPE OF OWNER   Part V: TYPE OF AGILITY	(202 ) 944-4730 (20	02)9	44-4704		5700/111	
H. Name of Previous Owner HE WASHINGTON POST COMPANY  PART IV: TYPE OF OWNER    Federal government   Commercial   gas station   Petroleum   Gonn-ristalry   Commercial   Gas station   Petroleum   Federal military   Industrial   Farm   Federal military   Federal milita	G. E-mail Address			The state of the s		W
Retail   Part V: TYPE OF OWNER   PART V: TYPE OF FACILITY		OM				(202 ) 944-4704
PART IV: TYPE OF OWNER    Federal government   Commercial   Gas station   Federal   Goorn-resale   Residence   Goorn-resale		PANY				INTERESTS.COM
Federal government	SP 14-14-15-W TELEVISION SPECIAL SPECI		STEEN BOOK		The second second	
State government	The state of the s			A. 100 100 100 100 100 100 100 100 100 10		L/I Residence
Local government		ivata	yas statio			
PART VI: FINANCIAL RESPONSIBILITY  The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms    Self Insurance		vale				
The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms    Self Insurance		TO AN INCIDENCE OF A	100000000000000000000000000000000000000	ent —		1842/191
Self Insurance   Insurance   Letter of Credit   Virginia Petroleum   Storage Tank Fund						
PART VII: OWNER CERTIFICATION  I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 WAC 25-580-10 et seq. and federal regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner of that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.    O 4 / 2 5 / 2 0 1			y requirements conta		-10 et s	
PART VII: OWNER CERTIFICATION  I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9/AC 25-580-10 et seq. and federal regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner of that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.  PART VIII: INSTALLER CERTIFICATION  I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.  Name and Title (Type or Print)  Signature  Date  Date	Self Insurance	Insurance		Letter of Credit		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 NAC 25-580-10 et seq, and federal regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner or that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.  PART VIII: INSTALLER CERTIFICATION  I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.  Name and Title (Type or Print)  Signature  Date  Taleshees Numbers	Guarantee	Surety Bon	d 🔲	Trust Fund		
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I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.  Name and Title (Type or Print)  Signature  Date	documents, and that based on my inqui submitted information is true, accurate a responsible for compliance with the requirements. I warrant at	iry of those and comple uirements nd represe on form is s	eindividuals immedia ete. I understand the of Virginia Regulation that I am the own ufficient evidence to Signature	ately responsible for at the owner of the ons 9WAC 25-580-1 ler of that I have the establish ownershi	obtain undergr 0 et se author p of tar	ing the information, I believe that the round storage tanks hereby registered is quand federal regulation 40 CFR Part 280, if y to sign this certification on behalf of the iks subject to 9 VAC 25-580-10 et seq.
Name and Title (Type or Print)  Signature  Date		PART	VIII: INSTAL	all federal state and	local in	stallation requirements. I warrant and represent
Name and Title (Type of Finit)	I certify that the installation of this tank wa that I am the installer or that I have the au	thority to si	gn this certification of	n behalf of the installe	er.	ataliativi reguliaritorita. Twaitarit and represent
Company Name ( ) Telephone Number	Name and Title (Type or Print)		Signature			Date //_
	Company Name		Address			Telephone Number

PART IX: TANK DESCRI	PTION	FOR	NEW I	NSTAL	LATIO	NS AN	ID AM	ENDME	NTS	1
	1		2		3					
DEQ Tank Identification Number										
Tank Status	□ New Tank ☑ Amendment		New Tank Amendment		New Tank Amendment		New Tank Amendment		New Tank Amendment	
Date of Installation (MM/DD/YYYY)										
Date of Amendment (MM/DD/YYYY)										
Tank Capacity (Gallons)	8000		8000		8000					
Substance stored (if hazardous, include CERCLA name and/or CAS number)	diesel		diesel		diesel			Distant	Took I	Dining
Material of Construction (√ all that apply)		Piping	Tank	Piping		Piping	Tank	Piping		Piping
Fiberglass Reinforced Plastic	☑	V	Ø	Z	Ø	Ø			므	
Coated and Cathodically Protected/STI-P3®										
Double Walled										
Impressed Current System Steel										
Composite (Steel Clad with Fiberglass)/ACT 100 ®		THE ST				CS TO				
Lined Interior	-									The same
5) TURKUN (MEMB)						R. A. B.		TO COLE		YA SA
Polyethylene Tank Jacket			H		H					E (85)
Concrete				2001		200	-			200
Excavation Liner		LA CO							-	
Asphalt Coated or Bare Steel										
Secondary Containment	The same						44 1/01			
Polyflexible piping			1000		1					
Galvanized Steel	USIL				AN		District			
Other (specify)										
Has tank/piping been repaired?										
Piping Type	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Safe Suction (No Check Valve at Tank)										
U.S. Suction (Check Valve at Tank)		V		V		₩Z				
Pressure					5		100		2 3	
Gravity Fed			-		1 1000		MEMIL		ESTI	
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Pipin
Manual Tank Gauging										
Tightness Testing	Ø	Ø	Ø	V	V	<b>☑</b>				
Inventory Control		100		TO THE		1				
Automatic Tank Gauging	-	Ø	Z	Ø	Ø	Ø				
Vapor Monitoring	-				1 -					
	_	+ =	ᅡ늠	一	十吉	十吉	1	1 =	1	
Groundwater Monitoring			╁∺	믐	ᅥ븜	H	+=	1 =	1 -	1 =
Interstitial Monitoring-Double Walled		무		-	╁∺	남	十十	+ =	1 =	1 1
Interstitial Monitoring-Secondary Containment	STATE OF THE PARTY OF			1 -		_	more	1 1		H
Automatic Line Leak Detectors						무		100000		H
Statistical Inventory Reconciliation									1 -	1 "
Other (specify Spill Containment & Overfill Prevention	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Pipin
Spill Containment & Overmit Prevention		1	V	1000	■ Z					
Overfill Automatic Shutol	-		V	1 1	Ø	74CA		USWIE		FOL
Overfill Alarm	-	12 1	Ø		V			10.		
	_		Z	-	₩ Z	1	In	THE SAME		122
Overfill Ball Float Valve	- IV	7 ( 7 )	OK.	2012000	(X.)			The real Property lies and the least lies and the lies and the lies and the least lies and the least lies and the lies and t	177	0

PART X: TAN	IK CL	OSURE	, REMO	VAL C	R CHA	NGE IN	SER\	/ICE			
Owner Tank Identification Number (assigned or used by owner)	1		2		3	3					
DEQ Tank Identification Number (assigned by DEQ)											
Tank and Piping Status	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Removal	Ø	Ø	Ø	<b>☑</b>	Ø	Ø					
Closure in Place											
Filled with Inert Material		Maril						1.000		N S	
Describe Inert Material											
Temporary Closure											
Change in Service											
Date of Installation (MM/DD/YYYY)	unknown		unknown		unknov	unknown					
Tank Capacity (Gallons)	8000		8000	8000		8000					
Substance Stored (if hazardous, include CERCLA name and/or CAS number)	diesel		diesel		diesel	diesel					
Material of Construction (v all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Fiberglass Reinforced Plastic	Ø	Ø	Ø	Ø	$\square$	$\square$					
Coated and Cathodically Protected/STI-P3®											
Double Walled											
Impressed Current System Steel											
Composite (Steel Clad with Fiberglass)/ACT 100 ®						Lenit.				134	
Lined Interior						26 8					
Polyethylene Tank Jacket										SHE!	
Concrete											
Excavation Liner											
Asphalt Coated or Bare Steel											
Secondary Containment					E P				Henry		
Polyflexible Piping					3						
Galvanized Steel			YELL								
Other (specify)											
Unknown											
Date Last Used (MM/DD/YYYY)	unknown		uknown		unkno	unknown					
Date Closed (MM/DD/YYYY)	3/23/16		3/23/10	3/23/16		3/23/16					
Closure Assessment Completed (Please submit site map, soil sampling results, chain of custody for all samples, copy of building permit, and disposal manifest with this form).	☑ Yes		1.000	☑ Yes □ No		☑ Yes □ No		Yes No		☐ Yes ☐ No	
Evidence of a Leak Detected	☐ Yes ☑ No		☐ Yes ☑ No		U 100 Mas 2000 M	☐ Yes ☑ No		Yes No		Yes No	