

Lead RTN:		Site Concerns	Admin/Tech Adequacy	Preliminary actions	Phase I	Tier Classification	Total
4-27363							

Submittal	Received	Screened	Flags	TSNOAF
IRA Plan	8/30/2018	8/31/2018	N	N

Auditor
A.Cooney

Release	viscous black petroleum based liquid in excavation
Site Use	residential
Town	Dartmouth
Site Name	Terceira Construction
Address	85 McCabe Street
PRP	Terceira Construction
LSP	Geoffrey Souza
Consultant	SITEC Environmental

	IRA	RAM	URAM	Phase 1	T-Class
Plan	x				
Modification					
Status					
Monitoring					
Completion					

Disclaimer: This checklist is for use by DEP in reviewing Preliminary Response Action (PRA) Statements, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of PRA requirements, which are fully set forth in MGL c. 21E and 310CMR 40.0000. Completion of this checklist by DEP does not constitute a final agency decision, and does not create any legal rights or relieve any party of obligations that exist pursuant to applicable laws.

Related RTNs	
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Comments

Plan does not specify volume of contaminated soils that will be excavated/removed from the site. Soils pile is covered with plastic sheeting (2 layers) but plan does not include dust control plan for excavation and load out of soils. Plan should include sampling and analysis for asbestos if SACMs are identified during soils test pitting and loadout.

I. SITE CONCERNS (Based upon conditions at time of PRA submittal)					
A. Indoor Air (Based upon conditions at time of submittal)		Yes	No	?	Pg#
1. O Applicable GW-2 standard exceeded @ residence/school with no soil gas/indoor air sampling			x		
2. O Site contaminants impacting indoor air			x		
B. Groundwater/Drinking Water (Based upon conditions at time of submittal)		Yes	No	?	Pg#
1. O More than 0.5" NAPL observed in any monitoring well			x		
2. Site within potential drinking water source area (PDWSA)			x		
3. Site located within IWPA/mapped Zone II			x		
4. Private/Non-municipal public well(s) (TNC, NTNC) located within 500 feet of site			x		
5. Municipal well(s) located within 1000 feet of site			x		
6. O Private well contaminated as a result of site			x		
7. O Public water supply contaminated as a result of site			x		
8. SRM Condition and no groundwater controls			x		
C. Soil (Based upon conditions at time of submittal)		Yes	No	?	Pg#
1. IH levels of Arsenic (40), Cadmium (60), Chromium (200), Cyanide (100), Mercury (300), Methyl Mercury (10), or PCBs (10) in surface soil (< 1 foot)		x			
D. Environmental Concerns		Yes	No	?	Pg#
1. Site within 500 feet of surface water and/or wetlands		x			
2. Endangered species habitat, ACEC and/or certified vernal pool within 500 feet			x		
3. Confirmed contamination of surface water, sediments and/or wetlands with site contaminants			x		
4. SRM condition			x		
E. Site & Area Use (Choose all that apply)		Yes	No	?	Pg#
1. School/Institution/Playground			x		
2. Residential		x			
F. Released OHM (Primary Contaminant Type(s))		Yes	No	?	Pg#
1. Petroleum Fuel Oils (#2, #4, #6, Jet fuel, kerosene, lube oil, MODF, etc.)			x		
2. Gasoline, waste oil			x		
3. Metals, coal tar, PCBs, pesticides/herbicides, asbestos, PAHs, cyanide		x			
4. Chlorinated solvents or other organic compounds		x			
G. Site Complexity (Check all that apply)		Yes	No	?	Pg#
1. Co-mingled plumes (i.e., different sources from one or more sites co-mingled)			x		
2. Bedrock contamination			x		
If 0 conditions currently exist, see supervisor to discuss.					

RTN:_____

TOWN:_____

DATE:_____

II. ADMINISTRATIVE ADEQUACY:						Yes	No	?	NA	Pg #	Citati
A. Regulatory Deadlines											
1. Notification Made On Time	Date:	7/30/2018	x								40.0300
2. Phase I/TC within 1 yr of notification; Effective Date/Tier								x			40.0406
3. Phase II submitted within 3 years of Tier Classification Date								x			40.0560(2)(b)
4. Phase III submitted with 4 years of Tier Classification Date								x			40.0560(2)(c)
5. Phase IV submitted within 4 years of Tier Classification Date								x			40.0560(2)(d)
6. P/TS submitted within 5 years of Tier Classification Date								x			40.0560(2)(e)
7. Tier II Extension: submitted/ # of Extensions								x			40.0560(7)
8. For IRAs, submittal deadlines have been met: Plan within 60 days.			x								40.0404(2)
9. For IRAs, submittal deadlines have been met : Status Report within 120 days and every 6 months from approval or receipt of Plan, Completion Report within 60 days following completion of IRA activities, Remedial Monitoring Report monthly for IH/SRM or every 6 months for non-IH/SRM								x			40.0425(1), (2), (7)
10. For RAMs, submittal deadlines have been met: Status Report within 120 days and every 6 months from approval or receipt of Plan, Remedial Monitoring Report every 6 months.								x			40.0404(2)
11. For RAMs, submittal deadlines have been met: Completion Report within 60 days following completion of RAM activities,								x			40.0446(1)
12. For URAMs, submittal deadlines have been met (Letter of Intent within 7 days)								x			40.0404(2)
13. For URAMs, submittal deadlines have been met (Status Report within 120 days and every 6 months from notification, Completion Report within 60 days following completion of URAM activities, Remedial Monitoring Report every 6 months)								x			40.0465(1)(5)
III. TECHNICAL ADEQUACY:						Yes	No	?	NA	Pg #	
A. Response Action Type											
1. Assessment Only			x								40.0332
2. Innovative Technology								x			
3. Soil Excavation	Volume	up to 100 cu yds	x								
a. Recycle			x								
b. Landfill			x								
c. Reuse								x			

RTN:_____

TOWN:_____

DATE:_____

d. Treat/Stabilize				x		
4. Cap/Cover/Engineered Barrier	x					
a. Ph III was completed before a cap/engineered barrier was proposed or constructed as part of a Permanent Solution				x		40.0414(7)
5. Construction of Building in Contaminated Area				x		
6 Groundwater Treatment				x		
a. Pump & Treat				x		
b. Removal (Vacuum)				x		
c. Free Product Recovery	x					
d. Bioremediation: Application within 50' surface water/100' private well/800' public well or within 100 ft of a school, daycare, child care, or occupied residential dwelling.				x		40.0046(3)
7. Venting/Sub Slab Depressurization System				x		
8. Soil Vapor Extraction/Air Sparging				x		
9. Chemical Oxidation				x		
a. Application within 50' surface water/100' private well/800' public well				x		40.0046(3)
B. Description of Response Actions – Indication That:						
	Yes	No	?	NA	Pg #	
1.a Plan/Status Report/Completion Report is adequate/complete (IRA/RAM)	x					40.0420
1.b Plan/Status Report/Completion Report is adequate/complete (URAM)				x		40.0460
2.a IRA Response actions taken were in accordance with MassDEP approvals (i.e., special conditions, Interim deadlines, etc.)				x		40.0404(1)
2.b RAM/URAM Response actions taken were in accordance with MassDEP approvals (i.e., special conditions, Interim deadlines, etc.)				x		40.0443(3)
3. Response actions proposed or taken demonstrate the level of diligence necessary, consider relevant policies, methods or practices, or have been technically justified	x					40.0191
4. Monitoring of response actions is adequate (soil, groundwater, air, dust, etc.)	x					40.0405(2)
5. Analytical or environmental monitoring data is scientifically valid and defensible, and of a level of precision and accuracy commensurate with its stated or intended use	x					40.0017
6. System shutdown/operational problems				x		40.0027

IV. Preliminary Response Action Type						Yes	No	?	NA	Pg#	Citation(s)
A. Immediate Response Actions (required for 2/72-hr release) – Indication That:											
1. Release/TOR has been adequately assessed or additional assessment is planned		x									40.0405
2. An Imminent Hazard condition has been eliminated/controlled									x		40.0427
3. A condition of Substantial Release Migration has been mitigated									x		40.0414
4. An Imminent Hazard condition has been assessed									x		40.0414(3)&(4)
5. . Excavation and stockpiling of >100 cyds (cum.) UST-related oil- or waste oil- contaminated soil before notification									x		40.0421(3)
B. Release Abatement Measures – Indication That:											
1. Off-site disposal of > 500 cubic yards (cumulative) of OHM-contaminated soil									x		40.0442(2)(a)
2. On or off-site treatment, recycling, or reuse of > 1500 cubic yards (cum.) of OHM contaminated soil									x		40.0442(2)(b)
3. Certification of sufficient financial resources if excavation of >1500 cyds (cum.) OHM contaminated soil									x		40.0442(5)
4. RAM was initiated within one year of receipt of RAM Plan									x		40.0443(5)
5. RAM fee paid, if prior to Tier Classification/PTS									x		40.0444(2)
C. Utility-related Abatement Measures – Indication That:											
1. During emergency repair, notification provided within 72-hours of conducting URAM									x		40.0462(3)
2. A 2-hour or 72-hour reporting condition likely exists									x		40.0461(3)
3. Excavation of >100 cyds (cum) oil- or waste oil-contaminated soil (LSP required)									x		40.0462(4)(a)
4. Excavation of >20 cyds (cum.) haz. mat.-contaminated soil or mix (LSP required)									x		40.0462(4)(b)
5. Temporary relocation of soil is returned to site or otherwise managed within 14 days									x		40.0462(6)
6. Reasonable attempt made to notify property owner, except during non-business-hour emergency repairs									x		40.462(7)

V. Phase I – Initial Site Investigation – Information Regarding:						Citation(s)
Yes	No	?	NA	Pg#		
A. General site information including:						
1. Address and Geographical Location (Street, Lat./Long. and UTM Coordinates)			x			40.0483(1)(a)(2)
2. Disposal Site Locus Map with 500 foot and ½ mile radii			x			40.0483(1)(a)(3)
3. Estimated number of workers on-site			x			40.0483(1)(a)(4)
4. Estimated residential population within ½ mile			x			40.0483(1)(a)(5)
5. General description of land uses surrounding the disposal site			x			40.0483(1)(a)(6)
6. Number of Institutions within 500 feet			x			40.0483(1)(a)(7)
7. Natural Resources within 500 feet (surface waters, wetlands, drinking water supplies, ACECs, etc.)			x			40.0483(1)(a)(8)
B. Disposal Site Map, including:						
Yes	No	?	NA	Pg#		
1. Disposal Site Boundaries			x			40.0483(1)(b)(1)
2. Property boundaries located within the disposal site boundaries			x			40.0483(1)(b)(2)
3. On-site buildings			x			40.0483(1)(b)(3)(a)
4. Floor and storm drains			x			40.0483(1)(b)(3)(b)
5. Subsurface utilities			x			40.0483(1)(b)(3)(c)
6. OHM storage and disposal structures			x			40.0483(1)(b)(3)(d)
7. Location of known OHM releases			x			40.0483(1)(b)(3)(e)
8. Monitoring wells, borings, test pits, and other relevant screening and/or sampling points			x			40.0483(1)(b)(3)(f)
C. Disposal Site History, including:						
Yes	No	?	NA	Pg#		
1. Owner/Operator and Operations History			x			40.0483(1)(c)(1)
2. Release History (source and locations, cause, approx. date and duration, type of OHM, volume, etc.)			x			40.0483(1)(c)(2)
3. OHM Use and Storage History (type, chemical name, uses, quantities, periods, storage locations)			x			40.0483(1)(c)(3)
4. Waste Management History (land disposal, subsurface, surface water, WWTP, etc.)			x			40.0483(1)(c)(4)
5. Environmental Permits and Compliance History (21E, OHM, WW, GW, Air, RCRA, NPDES permits)			x			40.0483(1)(c)(5)

6. Potentially Responsible Parties (names and addresses of all PRPs)				x		40.0483(1)(c)(6)
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D. Site Hydrogeological Characteristics, including:					Yes	No	?	NA	Pg#	
1. Concise description of all subsurface investigations and assessments to date								x		40.0483(1)(d)(1)
2. Documentation of boring advancement, well construction and development, including drilling logs								x		40.0483(1)(d)(2)
3. Characterization of general site topography (slope, bedrock outcrops, surface drainage features)								x		40.0483(1)(d)(3)
4. Characterization of geologic and stratigraphic conditions								x		40.0483(1)(d)(4)
5. Description and graphical depiction of groundwater flow direction including monitoring well locations								x		40.0483(1)(d)(5)
E. Nature and Extent of Contamination, including:					Yes	No	?	NA	Pg#	
1. Evidence of releases (visual, olfactory, field screening, lab analysis, historical knowledge)								x		40.0483(1)(e)(1)
2. Names, concentrations, and volumes of released OHM								x		40.0483(1)(e)(2)
3. Laboratory data sheets								x		40.0483(1)(e)(3)
4. Details on approximate horizontal and vertical extent								x		40.0483(1)(e)(4)
5. Details on presence and thickness of non-aqueous phase liquids								x		40.0483(1)(e)(5)
F. Migration Pathways and Exposure Potential, including					Yes	No	?	NA	Pg#	
1. Description and evaluation of known and potential migration by air, soil, groundwater, surface water								x		40.0483(1)(f)(1)
2. Description of known and potential human exposure by inhalation, dermal contact, or ingestion of OHM								x		40.0483(1)(f)(2)
3. Description of known and potential impacts to environmental receptors, especially ACECs, etc.								x		40.0483(1)(f)(3)
G. Evaluation of the need for Immediate Response Actions					Yes	No	?	NA	Pg#	
1. Evaluated the need for Immediate Response Actions								x		40.0483(1)(g)
H. Conclusions					Yes	No	?	NA	Pg#	
1. Presented a summary of findings and a statement of conclusions								x		40.0483(1)(h)
I. Technical Justification for omission of any of the above categories					Yes	No	?	NA	Pg#	
1. Presented technical justification for omission of any of the above categories								x		40.0483(2)

VI. Tier Classification – Numerical Ranking System:						Citation(s)
Yes	No	?	NA	Pg#		
			x			40.0510(1)(a)
			x			40.0520(2)(a)
			x			40.0520(2)(b)
			x			40.0520(1)(c)
			x			40.0520(3)
			x			40.0530(1), (2)