

Lead RTN:		Site Concerns	Admin/Tech Adequacy	Preliminary actions	Phase I	Tier Classification	Total
4-0026347							

Submittal	Received	Screened	Flags	TSNOAF
IRA Mod/Status	4/14/2017	5/2/2017	N	N

Auditor
Gallagher

Release	PFAS and 1,4-Dioxane
Site Use	Airport
Town	Barnstable
Site Name	Barnstable Municipal Airport
Address	480 Barnstable Road
PRP	Barnstable Municipal Airport
LSP	Mark Nelson
Consultant	Horsley-Witten Group

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

IRA Modification/Status outlines additional actions to be taken, including results and future plan of the private well survey downgradient of the airport. Soil sampling data was provided for the area where fire training occurred in the past.

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. <input checked="" type="checkbox"/> Applicable GW-2 standard exceeded @ residence/school with no soil gas/indoor air sampling		x		
2. <input checked="" type="checkbox"/> Site contaminants impacting indoor air		x		
B. Groundwater/Drinking Water (Based upon conditions at time of submittal)				
	Yes	No	?	Pg#
1. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> Private well contaminated as a result of site			x	
7. <input checked="" type="checkbox"/> 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:	<input type="text"/>	x								40.0300
2. Phase I/TC within 1 yr of notification; Effective Date/Tier		<input type="text"/>						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		<input type="text"/>						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	<input type="text"/>						x			
a. Recycle								x			
b. Landfill								x			
c. Reuse								x			
d. Treat/Stabilize								x			

RTN: _____

TOWN: _____

DATE: _____

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											40.0442(2)(a)
2. On or off-site treatment, recycling, or reuse of > 1500 cubic yards (cum.) of OHM contaminated soil											40.0442(2)(b)
3. Certification of sufficient financial resources if excavation of >1500 cyds (cum.) OHM contaminated soil											40.0442(5)
4. RAM was initiated within one year of receipt of RAM Plan											40.0443(5)
5. RAM fee paid, if prior to Tier Classification/PTS											40.0444(2)
C. Utility-related Abatement Measures – Indication That:											
1. During emergency repair, notification provided within 72-hours of conducting URAM											40.0462(3)
2. A 2-hour or 72-hour reporting condition likely exists											40.0461(3)
3. Excavation of >100 cyds (cum) oil- or waste oil-contaminated soil (LSP required)											40.0462(4)(a)
4. Excavation of >20 cyds (cum.) haz. mat.-contaminated soil or mix (LSP required)											40.0462(4)(b)
5. Temporary relocation of soil is returned to site or otherwise managed within 14 days											40.0462(6)
6. Reasonable attempt made to notify property owner, except during non-business-hour emergency repairs											40.462(7)

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

D. Site Hydrogeological Characteristics, including:	Yes	No	?	NA	Pg#	
1. Concise description of all subsurface investigations and assessments to date						40.0483(1)(d)(1)
2. Documentation of boring advancement, well construction and development, including drilling logs						40.0483(1)(d)(2)
3. Characterization of general site topography (slope, bedrock outcrops, surface drainage features)						40.0483(1)(d)(3)
4. Characterization of geologic and stratigraphic conditions						40.0483(1)(d)(4)
5. Description and graphical depiction of groundwater flow direction including monitoring well locations						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)						40.0483(1)(e)(1)
2. Names, concentrations, and volumes of released OHM						40.0483(1)(e)(2)
3. Laboratory data sheets						40.0483(1)(e)(3)
4. Details on approximate horizontal and vertical extent						40.0483(1)(e)(4)
5. Details on presence and thickness of non-aqueous phase liquids						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						40.0483(1)(f)(1)
2. Description of known and potential human exposure by inhalation, dermal contact, or ingestion of OHM						40.0483(1)(f)(2)
3. Description of known and potential impacts to environmental receptors, especially ACECs, etc.						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						40.0483(1)(g)
H. Conclusions	Yes	No	?	NA	Pg#	
1. Presented a summary of findings and a statement of conclusions						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						40.0483(2)

VI. Tier Classification – Numerical Ranking System:	Yes	No	?	NA	Pg#	Citation(s)
1. A Phase I Report (or equivalent) was prepared in accordance with 40.0480						40.0510(1)(a)
2. Tier I Criteria (Zone II, IWPA, GW > RCGW-1) are present at the site						40.0520(2)(a)
3. The site is Tier I as a result of an Imminent Hazard						40.0520(2)(b)
4. Risk Reduction measures resulted in a lower Tier Classification						40.0520(1)(c)
5. The site Classification was correct; or the site was correctly reclassified after Tier 1 Criteria were eliminated.						40.0520(3)
6. DEP review raised the original classification						40.0530(1), (2)