DEP BWSC CRA TECHNICAL SCREENING AUDIT FORM

<u>Disclaimer</u>: This checklist is for use by DEP in reviewing *Comprehensive Response Actions (CRA)*, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of *CRA* requirements, which are fully set forth in MGL c. 21E and 310 CMR 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.

	0 ,	, , , , , , ,					
Lead RTN:							
SUBMITTAL TYPE	(Circle one)	OHM description: (Source, Type of OHM, Media Affected)	Date Rcv	rd	/ /	1	
Phase II	Phase III						-
Phase IV C-1 Periodic	Phase V/ROS Other:	Site Use:					
Review	Otrier.	Site Ose.					
Related RTNs:							
Town:		Site Name:					
Address:		LSP Name/No.:					
PRP/OP:		Consulting Firm:					
		TECHNICAL SCREENING CHECKLIST					Baga #
I SITE CONCEDNO	S (Scare based upo	Condition n conditions at time of CRA filing)					Page #
	ed upon conditions			Yes	No	?	
		@ residence/school with no soil gas/indoor air					
sampling		<u> </u>					
2. Dite contamina	ants impacting indoor	air					
		d upon conditions at time of submittal)		Yes	No	?	
	NAPL observed in an						
	ial drinking water sour			<u> </u>			
	n IWPA/mapped Zone					<u> </u>	
		NC, NTNC) located within 500 feet of site					
	located within 1000 fe				<u> </u>		
-	ontaminated as a resulupply contaminated as				ш	ш	
	n conditions at time			Yes	No	?	
		, Chromium (200), Cyanide (100), Mercury (300))			<u> </u>	
	, or PCBs (10) in surfa		<i>5)</i> ,		_	_	
D. Environmental	Concerns			Yes	No	?	
	et of surface water an						
		d/or certified vernal pool within 500 feet					
		ter, sediments and/or wetlands with site contame	inants				
	(Choose all that app	oly)		Yes	No	?	
1. School/Institution	/Playground						
2. Residential	/D-:	- (T / - 1)					
	(Primary Contaminal			Yes	No	?	
		I, kerosene, lube oil, MODF, etc.)				<u>-</u>	
2. Gasoline, waste o		aides ashestes DAHs avenido					
	ents or other organic of	cides, asbestos, PAHs, cyanide					
G. Site Complexity		ompounds		Yes	No	?	
		es from one or more sites co-mingled)				<u></u>	
Bedrock contamir	, ,	es nom one or more sites co-mingleu)			-	-	
		porvisor to discuss	1				<u> </u>
ן וו אי conditions CU	rrently exist, see sup	ervisor to discuss.					

<u>Disclaimer</u>: This checklist is for use by DEP in reviewing Comprehensive Response Actions (CRA), and may not be relied upon for any other purpose. This checklist is not a comprehensive list of CRA requirements, which are fully set forth in MGL c. 21E and 310 CMR 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.

II. PHASE II Comprehensive Site Assessment – Indication That:	Citation(s)	Yes	No	?	NA	Dogo #
A Phase II SOW has been developed and submitted to the Department	40.0832(1)					Page #
2. The Phase II Report was received within 2 years of Tier Classification or within 2 years of the effective date	40.0550(2)(b), 40.0560(2)(b)					
of the Tier 1 Permit	40.0330(2)(b), 40.0300(2)(b)					
3. The source, nature, extent, and potential impacts of the release(s) of OHM have been identified	40.0833(1)(a)					
4. The need to conduct remedial actions at the disposal site have been identified	40.0833(1)(c)					
5. A Completion Statement (including an Opinion and certification) have been completed	40.0836(3)					
6. If appropriate, the disposal site has been re-scored using the Numerical Ranking System (NRS)	40.0840(2)					
7. Public Involvement Activities have been completed	40.0839, 40.1403(3)(a)(e)(f),					
'	40.1406					
Risk Characterization						
Background has been identified or characterized	40.0904(2)(b), 40.1020					
The correct risk characterization method has been used	40.0941, 40.0942					
10. The appropriate soil/groundwater categories have been properly identified	40.0930					
11. EPC calculations have been provided (spatial or temporal) and EPCs have been properly calculated	40.0926					
12. Hot Spot(s) addressed, identified (as Hot Spot) and have not added in to other EPCs	40.0924(4), 40.0926(5)					
13. Migration Pathways (air, groundwater, etc.) assessed and evaluated (All Methods, media dependent)	40.0904(2)(c), 40.1004(1)(a)					
14. Applicable soil and/or groundwater standards have not been exceeded (Method 1 or 2) or AUL applied	40.0974, 40.0975, 40.0988(2)					
15. All receptors have been accounted for (construction worker, trespassers, wetland, etc.) (Method 3)	40.0920-40.0922					
16. Proper Exposure Scenario assumptions (exposure period, etc.) (Method 3)	40.0923-40.0925					
17. All Exposure Pathways (dermal, inhalation, etc.) have been presented (Method 3)	40.0925					
18. Total site risk has been calculated (Method 3)	40.0992, 40.0993(7),(8), (9)					
III. Phase III (RAP) Identification, Evaluation and Selection of Comprehensive Remedial Action	, , , , , , , , , , , , , , , , , , , ,	Yes	No	?	NA	Page #
Alternatives – Indication That:						1 age #
1. The evaluation of remedial technologies was documented in a Ph III Remedial Action Plan (RAP)	40.0861(1)					
2. The RAP was received w/in 2 years of Tier Class. or w/in 2 years of the effective date of the Tier 1 Permit.	40.0550(2)(b), 40.0560(2)(b)					
A description of all identified remedial action alternatives was included	40.0861(2)(a)					
4. The results of an initial screening of the remedial action alternatives was included	40.0856(1), 40.0861(2)(a)					
5. A detailed evaluation of the remedial technologies (except as provided in 40.0857(2)) was included	40.0857(1), 40.0861(2)(b)					
(comparative effectiveness, short- & long-term reliability, difficulty, costs, risks, benefits, and timeliness)	40.0858(1-7)					
6. Justification for the selection of the proposed remedial action alternative	40.0861(2)(c)					
If a Permanent Solution was chosen:	40.0859(2), 40.0861(2)(e)					
7. Discussion of how the Permanent Solution is likely to achieve No Significant Risk	40.0861(2)(e)					
8. Evaluation of the feasibility of reaching/approaching background (unless RAA will result in A-1 RAO)	40.0861(2)(g)					
9. If RAA leaves OHM above UCLs at depths >15 ft or beneath an engineered barrier, an evaluation of the	40.0860(4)					
feasibility of reducing OHM below UCLs is included						
10. A projected schedule for the implementation of Phase IV activities was included	40.0861(2)(i)					
11. A Completion Statement (including an Opinion and certification) have been completed	40.0862(3)(a)(b)					
12. Public Involvement Activities have been completed	40.0863, 40.1403(3)(e)					
If a Temporary Solution was chosen:	40.0859(2), 40.0861(2)(f)					
13. Evaluation of the feasibility of implementing a Permanent Solution which is more cost-effective and timely	40.0860(2), 40.0861(2)(d)					
14. Discussion of how a Temporary Solution is likely to eliminate any Substantial Hazards is included	40.0861(2)(f)					
15. A detailed description of definitive and enterprising steps to identify and develop a likely Permanent	40.0859(2), 40.0861(2)(h)					
Solution and a schedule of such steps have been completed						
16. A projected schedule for the implementation of Phase IV activities was included	40.0861(2)(j)					
	40.0000(0)(.)(1)					
17. A Completion Statement (including an Opinion and certification) have been completed 18. Public Involvement Activities have been completed	40.0862(3)(a)(b) 40.0863, 40.1403(3)(e)					

 Ver. MCP4/3/06
 Page 2
 CRA 8/16/06
 RTN ______

<u>Disclaimer</u>: This checklist is for use by DEP in reviewing *Comprehensive Response Actions (CRA)*, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of *CRA* requirements, which are fully set forth in MGL c. 21E and 310 CMR 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.

IV. Phase IV Implementation of the Selected Remedial Action Alternative – Indication That:	Citation(s)	Yes	No	?	NA	Page#
The Remedial Implementation Plan (RIP) was received within 3 years of Tier Classification or within 3 years	40.0550(2)(c), 40.0560(2)(c)			<u> </u>		1 ayem
of the effective date of the Tier 1 Permit.	40.0550(2)(0), 40.0560(2)(0)	Ц	ш	ш	ш	
2. The selected Remedial Action Alternative (RAA) has been documented in a RIP, unless technically justified	40.0874(1,2)					
3. A list of relevant contacts including the PRP, the LSP, and the person who will operate and maintain RAA	40.0874(1,2) 40.0874(3)(a)					
4. Engineering designs (including goals, changes, disposal site map, proposed locations, environmental media	40.0874(3)(b)					
to be treated, conceptual plan, design and operational parameters, etc.) are included	40.0674(3)(b)	ш	ш	ш	ш	
5. Construction Plans and Specifications (including a construction schedule) are included	40.0874(3)(c)					
6. An Operation, Maintenance and/or Monitoring Plan, containing names & phone #s, general operating	40.0874(3)(d)					
procedures, frequency & type of monitoring, is included	40.0674(3)(d)	ш	ш	ш	ш	
7. A Health and Safety Plan is included	40.0874(3)(e)					
	40.0874(3)(f)					
8. A list of federal, state, or local permits, licenses, and/or approvals is included 9. A discussion of property access issues (with a plan & timetable to resolve such issues) is included	40.0874(3)(1) 40.0874(3)(g)					
10. If significant variation from RIP occurred, or if an engineered barrier, or containment/immobilization system	40.0875(1)(b,c)					
was installed, an As-Built Construction Report has been submitted.	40.0675(1)(b,c)	Ц	ш	ш	ш	
11. The As-Built Construction Report contains a description of construction activities, tests and measurements,	40.0875(2)					
significant modifications of the design or construction, and as-built drawings	40.0675(2)	ы	ш	ы	ш	
12. Remedial Monitoring and Phase IV Status Reports have been submitted in accordance with deadlines,	40.0877(1)(2)					
where Active Operation and Maintenance is conducted prior to submittal of Final Inspection Report and	40.0677(1)(2)	ы	ш	ы	ш	
Phase IV Completion Statement						
13. Phase IV Status Report includes descriptions of type and frequency of OM&M activities, significant	40.0877(4)					
modifications since preceding report, performance of remedial action, problems noted which may affect	40.0877(4)	ш	ш	ш		
performance, corrective measures taken, and the name, license number, signature and seal of LSP						
14. The Final Inspection Report was completed	40.0878(3)					
15. The Final Inspection Report contains a description of activities/findings, modifications from the RIP, any	40.0878(1,2,3)					
required permits, and a determination that the CRA meets projected design standards	40.0070(1,2,3)			ш		
16. A Completion Statement (including an LSP Opinion and certification) have been completed	40.0879(2)					
17. Public Involvement Activities have been completed	40.0880, 40.1403(3)(a)(e)					
V. Phase V Operation, Maintenance, and/or Monitoring or ROS – Indication That:	40.0880, 40.1403(3)(a)(e)	Yes	No	?	NA	Page#
OM&M follows the OM&M plan developed as part of the Remedy Implementation Plan	40.0891(3)			<u>'</u>		1 ayem
2. Phase V Status Reports have been submitted 6 months from receipt of Phase IV Completion Statement	40.0892(1)					
and every 6 months thereafter	40.0692(1)	Ц	ш	Ы	Ц	
Status Report includes descriptions of type and frequency of OM&M activities, significant	40.0893(2)					
modifications since preceding report, performance of remedial action, problems noted which may affect	40.0693(2)	ы	ш	ш	ш	
performance, corrective measures taken, and the name, license number, signature and seal of LSP						
	40.000(0)					
4. Remedial Monitoring Reports have been submitted in accordance with deadlines for disposal sites	40.0892(3)					
where Active Operation and Maintenance is being conducted	10.000					
5. A Completion Statement (including an Opinion and certification) have been completed	40.0894					
6. Public Involvement activities have been completed	40.0895, 40.1403(3)(e)(f)					
Remedy Operation Status						<u> </u>
7. ROS applies: Active O&M is being conducted to achieve a Permanent Solution	40.893(1)					
Phase III and Phase IV Comprehensive Response Actions have been completed	40.0893(2)(a)					
The remedial system is being operated and maintained according to Phase V OM&M	40.893(2)(c)					
10. Each source has been eliminated or controlled	40.893(2)(d)					
11. Any Substantial Hazard has been eliminated	40.893(2)(e)					

 Ver. MCP4/3/06
 Page 3
 CRA 8/16/06
 RTN

<u>Disclaimer</u>: This checklist is for use by DEP in reviewing *Comprehensive Response Actions (CRA)*, and may not be relied upon for any other purpose. This checklist is not a comprehensive list of *CRA* requirements, which are fully set forth in MGL c. 21E and 310 CMR 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.

12. Information and data on OM&M have been documented in Status and Remedial Monitoring Reports in	40.0893(2)(f)					
accordance with deadlines						
13. ROS submittal contains a transmittal form, an ROS Opinion, and certification under 40.0009	40.893(3)					
14. Written notification of mechanical failure and/or need to substantially modify remedial system or program	40.0893(6)(b)					
have been completed						
15. A Completion Statement (including an Opinion and certification) have been completed	40.0894					
]]	
16. Public Involvement activities have been completed	40.0895, 40.1403(3)(e)(f)	Ш	Ш	Ш	Ш	
VI. C-1 RAO Periodic Review- Indication That:	40.0895, 40.1403(3)(e)(f)	Yes	No	?	NA NA	Page#
	40.0895, 40.1403(3)(e)(f) 40.1051(3)(b)	Yes	No	?	NA	Page#
VI. C-1 RAO Periodic Review- Indication That:		Yes	No	?	NA □	Page#
VI. C-1 RAO Periodic Review- Indication That: 1. Periodic Reviews have been conducted and submitted every 5 years and contain:	40.1051(3)(b)		No	?	NA D	Page#

 Ver. MCP4/3/06
 Page 3
 CRA 8/16/06
 RTN ______