			Off	Plymouth St	treet, B	ridg	ew	ial Re-use Area ater, MA 02324 L REQUEST)				
Instructions: Complete this At least three (3) business day	s will be 1	requ	uired at ired to 1	tachments an eview a Soil	d subm Re-Use	it to App	M pro	arilyn MacDonald				
questions should be directed t	o Richard	Stro	mberg,	LSP the point	t of cont	tact.						
Technical Point of Contact:		Te	Bos elephone	Mr. Richard S ton Environn 338 How Brockton, e: 508-897-80 omberg@bos	nental C ard Stre MA 023 051 (cell	orpo eet 302 l) 61	orat 7-9	008-7094				
SECTION A:												
Project												
Name: Site Location/Address:					Site or	Sul	)-A	rea Identifier (if a	pplicable	e)		
Site Owner's Name/Address					Conta	of D	O MC	on for Soils Appro	vol.			
Site Owner's Name/Address					Name: Compa Addres Email: Teleph Fax:	any: ss:		on for Sons Appro	vai:			
Estimated Quantity of Soil f	or Approv	val:			Cubic Yards Tons							
Anticipated Shipping Durat	ion:				Start		/	/ 201	End	/	/ 201	
Description of Source, Type of Release, and Contamination												
Current and Former Site Usage:												
Has this soil been impacted by a release from a known specific petroleum source?												
•	_			Location at	Time o	f Te		ng (check one):	_			
		_	In-Situ				_	ockpiled				
	Has the	Gen	erator i	ised Due Dil	igence i	n C	nar	acterizing the Soil YES	(check o	ne):		
		Is t		being genera	ted fro	m ai	n N	ICP Site? (check or				
			NO					YES	RTN#			
Have any other i	eleases or	· spi	lls occu	rred in the v	icinity	of th	ie s	ite which may hav	e affecte	d the site	(check one)	:
			YES			[		NO				

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#### **SECTION B**

# **Testing Frequency:**

The following are Minimum Sampling Frequencies established based on input from MassDEP for soil re-use at the Generator or Candidate Site (i.e. The Sending Site). The sampling frequencies shall be completed from the Candidate Site, prior to shipping to the Receiving Site.

Multi-point composite samples (3-5 grab samples per composite) shall be used for test samples, except use discreet samples for VOC analyses of the highest PID screening result for that test profile. PID results must be less than 5 ppmv. Soil density is to be considered at 1.5 tons per cyd., for a stockpile sample, and less than 1.7 ton per cyd. for in-situ samples from borings or test pits. Technical justification is required for the acceptance of soil with an assumed density greater than 1.7 ton per cyd.

**TABLE 1: Testing Frequency** 

SOIL CATERGORY	GENERAL SOURCE/ORIGIN DESCRIPTION	MINIMUM TEST PROFILE FREQUENCY
1. Nat. Soil	Naturally Deposited Soil: Not from an area of known or suspected high background levels of constituents (i.e., not Worcester County arsenic belt or Boston Blue clay); not proximate to urban fill soil; no MCP disposal sites nearby; and no industrial or manufacturing history.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial review.
2. Nat. Soil	Naturally Deposited Soil: In proximity to urban fill or an MCP disposal site.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial re-view.
3. Nat. Soil	Naturally Deposited Marine Soils and Boston Blue Clay: From areas of known or suspected naturally occurring high background levels of constituents or otherwise regulated soil.	1 test profile per 1,000 cubic yards (1,500-1,700 tons) for initial review. Test Profile must include MCP-14 metals.
4. Fill	Urban Fill Soil/Street Sweepings	1 test profile per 500 cubic yards (750- 850 tons) for initial review. Additional Tests at QEP/LSP Discretion. Test Profile must include MCP-14 metals.
5. Fill	Catch Basin Cleanings	Urban Center Roads: 1 sample per 100/CY* Non-Urban Center Roads: 1 sample per 500/CY *Minimum of 2 samples per 500 cy)

#### **Notes:**

- 1.) Supplemental testing of specific areas for specific contaminants that exceed any Soil Acceptance Criteria (SAC) to define/confirm limits of acceptable soil at 1 test per 100 cyds or as accepted by LSPs.
- 2.) Soil includes Remediation Waste as defined in the MCP and Non-remediation Waste

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### **SECTION B (cont.)**

## **Laboratory Testing Requirements (Minimum Analytical Data):**

The following parameters are to be analyzed at the Sending Site for each sample prior to shipment to the Receiving Site. Attach a legible copy (not a faxed copy) of laboratory analytical data, including all results and QA/QC information, from a Massachusetts Certified laboratory, for the following parameters, as required per the Revised Soil Re-use Management Plan.

- Volatile Organic Compounds (VOCs) by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Total MCP-14 by EPA Methods 6010, 7470 (for mercury) and 7010 (for thallium) (refer to Section XIV for analyte list);
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082; (non-soxhlet extraction acceptable)
- Pesticides by EPA Method 8081 (may be excluded or limited based on site history);
- Herbicides by EPA Method 8151 (may be excluded or limited based on site history);
- Total Petroleum Hydrocarbons (TPH) (summation of EPH fractions can be substituted);
- Reactivity (cyanide/sulfide) by EPA Method Ch. 7.3;
- pH/Corrosivity by EPA Method 9045;
- Ignitibility/flashpoint by EPA Method 1010;
- Specific Conductance (Conductivity) by EPA Method SM2510; and
- Any other potential constituents based on location-specific history;
- Analysis for hexavalent chromium will be required on every sample that exceeds RCS-1 for total chromium, and
- TCLP analysis is required of each sample that exceeds potential threshold values.
- Fecal Coliform SM18-20-9222
- Averaging of concentrations is not acceptable!

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# **SECTION C**

**Site Soil Acceptance Criteria:** The MassDEP's derivation of the Soil Acceptance Criteria (SAC) for the Site is summarized below. The complete SAC is provided in Table 1 of the Revised SRMP.

PARAMETER	SOIL ACCEPTANCE CRITERIA
VOCs (EPA 8260)	List analytes individually, with criteria based on < 10% of RCS-1 in Table 1. Lab Report to MDLs to achieve some SAC.
SVOCs (EPA 8270)	List analytes individually. SVOCs < RCS-2 except 5 PAHs 50% of RCS-2 in Table 1.
ЕРН	Total of carbon ranges < 3,000 ppm (TPH RCS-2 equivalent).
TPH	RCS-2 (i.e., 3,000 mg/kg)
Pesticides (EPA 8081)	List analytes individually, with criteria based on < 10% of RCS-1 in Table 1. Lab Report to MDLs to achieve some SAC.
Herbicides (EPA 8151)	List analytes individually, with criteria based on < 10% of RCS-1 in Table 1. Lab Report to MDLs to achieve some SAC.
PCBs (EPA 8082)	Each PCB isomer at or Below 10% of RCS-1 Value, 0.1 ppm, See note on Table 1.
MCP-14 (with Vanadium)	See SAC on Table 1 of SRMP.
Hexavalent Chromium	See SAC on Table 1 of SRMP.
Specific Conductance (EPA SM2510)	2,000 umhos/cm (1/2 COMM 97-001 limit)
Flashpoint (EPA 1010)	> 140 degrees
pH/Corrosivity (EPA 9045)	5.0-9.0
Reactive Sulfide/Cyanide (EPA Ch. 7.3)	500/250
PID Screening	<5 ppmV
Fecal Coliform	1,000 MPN/Gram Dry Weight

#### **Notes:**

1.) See also Table 1 of SRMP.

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SECTION D					
Was additional analysis required besides those listed in Minimum Analytical Data (SECTION B) of this application? (check one)					
	YES	NO			
Was there any detection	on of additional chemicals besides t	those listed in Minimum Analytica	al Data (SECTION B)? (check one)		
	YES	□ NO			
	(Fill out <b>SECTION D</b> )	(Skip to SECTION E)			
If additional chemicals are det applicable condition(s).	ected, the soil shall be deemed acce	eptable if one or both of the follow	ing conditions are met. Please check the		
A) The detected chemicals are solely the result of background conditions and not the result of a release at the site or anthropogenic activities.					
B) The concentrations of detected chemicals are less than the applicable RCS-1 reporting concentrations as defined in 310 CMR 40.1600.					
1. If Box A is checked, please include the additional information in <b>SECTION F</b> with the LSP Opinion Letter as detailed below.					
SECTION E					
LSP Opinion Letter (Required Statements): Attach a letter from a Licensed Site Professional or a Qualified Environmental Professional indicating they have reviewed the analytical data and have formed the opinion that the soil is suitable for use as subgrade fill at the Marilyn's Landing Commercial Re-use Area. At a minimum, the letter MUST contain the following statements:					
- "In my opinion, the analyses performed and submitted for review are sufficient to adequately characterize the identity and concentrations of contaminants in the soil proposed for reuse at the Marilyn's Landing Commercial Re-use Area in Bridgewater, Massachusetts."					
- "Based on my review of the attached data, it is my opinion as a Licensed Site Professional (or Qualified Environmental Professional) that					

#### **SECTION F**

LSP Opinion Letter (Additional Information): Only if BOX A is checked in SECTION D, include the following statement and information in the LSP Opinion Letter:

the soil is appropriate for fill material at the Marilyn's Landing Commercial Re-use Area in Bridgewater, Massachusetts."

- "In my opinion, the chemicals that were detected that are not specifically listed in Table 1 of the Soil Re-use Management Plan for the Marilyn's Landing Commercial Re-use Area in Bridgewater, Massachusetts represent background conditions (naturally occurring) and are not the result of a release or anthropogenic activities and are therefore appropriate for reuse as fill material at the Marilyn's Landing Commercial Re-use Area in Bridgewater, MA." The letter shall include sufficient information concerning the site of generation, regional background concentrations, and contaminants associated with those releases, and any additional information sufficient to justify this opinion.

SECTION G					
Receiving Facility Information	The receiving facility information	for use on any shipping documents is a	as follows:		
	Operator/Facility Name:	Marilyn's Landing Commercial Re- use Area, Bridgewater, MA			
	Contact Person:	Ms.Marilyn MacDonald			
	Street:	Off Plymouth Street			
	City/Town:	Bridgewater			
	State and Zip Code:	MA, 02324			
	Phone:	508-294-0173 (508-294-0174 Dave)			

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SECTION H				
	ed Information Checklist (check box if "yes"):			
	Is there 1 test profile for every 500 cubic yards Fill soil, 1 sample for 100/500 CY Catch Basin Cleanings, or 1 test profile for every 1,000 cubic yards Natural Soil listed on Table 1 in SECTION B of the Soil Re-Use Approval Request Form?			
	Is there a signed Licensed Site Profession (LSP) or Qualified Engineering Professional (QEP) Opinion letter containing the mandatory statements specified in SECTION E and SECTION F (if applicable) of the Soil Re-Use Approval Request Form?			
	Does the QEP Opinion letter describe current and former site usage/history justifying the applicable Category?			
	Does the QEP Opinion letter describe site contaminants?			
	Is a site sketch included? Does it identify soil source location and sample locations?			
	Is material free of visual signs of impact or nuisance conditions, such as staining and discoloration?			
	Is material free of solid wastes?			
	Is field screening data from the time of sample collection provided?			
	Is sample data from multi-point composite samples (3-5 grab samples per composite), with the exception of discrete samples for VOC analysis?			
	Is all of the Minimum Analytical Data Analysis performed as identified in SECTION B of the Soil Re-Use Approval Request Form?			
	Is there a data table(s) comparing the laboratory analytical results to the applicable Marilyn's Landing SAC on Table 1 of the SRMP (Jan. 2022)?			
	Are the detection limits for all analysis parameters lower than the maximum acceptable levels listed in Table 1 of the SRMP, or there is a statement in the LSP/QEP opinion letter explaining why this is not the case?			
	Is material free of visible asbestos?			
	Are complete copies of the laboratory data, chain(s) of custody, and the QA/QC package for the analysis performed included?			
	If there is data for any sample(s) that are included with the submitted laboratory reports that are <u>not</u> part of the material package and should be disregarded during our review, are they crossed-out in the submittal and is there a statement in the QEP Opinion letter explaining why the data should not be considered in the review?			
	Was TCLP testing performed for metals or organic compounds when the total concentrations in the material are above the theoretical 20:1 levels?			
	Is asphalt, brick, and/or concrete mixed with reclamation materials?			
	Is there a signed Material Shipping Record? Does the quantity of material requested for acceptance match the quantity listed on the MSR?			
	Is there a signed Soil Reuse Application Form with all fields completed, including Marilyn's Landing Trucking Rules?			

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SECTION I					
Additional Information / Comments					
SECTION J					
Generators Signature: The Generator or duly authorized representative of the Generator shall sign and date this soils approval request certifying the					
following:					
"To the best of my knowledge, I certify the information					
on this form is accurate and complete."					
		_			
	Signature	Date			

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