Remediation and Redevelopment Program Listening Session – April 20, 2018

CLEAN SOIL GUIDANCE

RR-103

- What is a "clean soil" exemption?
- When can we use the "clean soil" exemption option?
- What may be considered "Clean Soil" excavated during a response action?
- What is the process for managing "Clean Soil"?



NR 500.08(2)(a) lists materials exempt from NR 500-538 requirements for management at an operating, licensed solid waste site or facility or subject to a site-specific exemption:

- clean soil,
- building stone,
- concrete or reinforced concrete not painted with lead-based paint,
- brick,
- broken pavement, and
- wood not treated or painted with preservatives or lead-based paint
- Locational requirements still apply (wetlands, Floodplains)



GUIDANCE APPLICABILITY



• Guidance is intended solely for use by RPs managing soil excavated <u>as part of a response</u> <u>action</u> pursuant to Wis. Stats. ch. 292 and Wis. Admin. Code chs. NR 700 - 754.



- Guidance does not apply to soil excavated as part of:
 - a construction project,
 - utility project or
 - transportation project.
- If those projects also involve an NR 700 response action, this guidance applies only to the soil excavated as a direct result of the response action.

and and a



- Optional approach for RPs when:
- soil is characterized and excavated as part of a response action <u>and</u>
- 2. soil does not need to be managed at a licensed solid waste facility or through a site-specific exemption.
- "Clean soil" does not require Department preapproval or tracking for the material to be excavated and managed.



CLEAN SOIL:SELF-IMPLEMENTING OPTON

Three categories

- Non-Naturally Occurring Compounds
- 2. Naturally Occurring Compounds
- 3. Special Case Naturally Occurring Compounds PAHs

CLEAN SOIL: SELF-IMPLEMENTING OPTION

- 1. Non-Naturally Occurring Compounds
 - VOCs

- PCBs
- Pesticides
- Other non- naturally occurring compounds

"Clean" = below Limit of Quantification









CLEAN SOIL: SELF-IMPLEMENTING OPTION

- 2. Naturally Occurring Compounds
 - Metals
 - Other inorganic compounds

"Clean" = Below Background Threshold value or

Less than the most restrictive of DC or GW RCLs





CLEAN SOIL: SELF-IMPLEMENTING OPTION

- 3. Special Case Naturally/Non-Naturally Occurring Compounds PAHs
- "Clean" = Below GW Protective RCL and
- Either
- a. Below Non-industrial DC RCL per NR720 or
- b. Below Non-industrial DC risk levels on cumulative basis per NR 722.11

Default Clean Soil Concentrations Table: Maximum Allowable Concentrations (mg/kg) of Specific Metals in Soil Excavated at Response Action Sites

Non Industrial DC RCL (mg/kg)	GW Protective RCL (mg/kg)	Background Threshold Value (mg/kg)
		28,721
		8
		364
		1
		14,536*
100,000		
		22
	91.6	
54,800		
		52
		8,290*
		2,937
		31
46,900		
		85
23,500		
	100,000 100,000 54,800 46,900	Industrial DC RCL (mg/kg) Protective RCL (mg/kg) 100,000 91.6 54,800 46,900

^{* -} no RCLs have been established for calcium or magnesium (background threshold values included for reference)



CLEAN SOIL PROCESS

- During NR 700 response action, characterize and segregate soil for appropriate management according to applicable laws.
- Sample according to § NR 716 & NR 718.12 (1)(e). Samples should be obtained and analyzed for all contaminants likely to be present.
- RPs may be able to characterize and segregate a portion of the material excavated as "clean soil" and may elect to use the selfimplementing clean soil management option.



- Responsible parties are required to immediately report hazardous substance discharges to the department pursuant to Wis. Stats. §292.11 and Wis. Admin. Code ch. NR 706.
- The "clean soil" guidelines or RCLs developed for soil cleanup standards per NR 720 should not be used as "reportable quantities" or "de minimis exemptions".
- All discharges of hazardous substances are to be reported to the department.



Questions?

