

**Clean Earth Sampling Protocol
Southeast PA (Morrisville)**

PARAMETERS	TPH	TOX	RCRA 8 - TOTAL METALS - Nickel & Zinc	TCLP METALS - RCRA RCRA 8 - TOTAL METALS - Copper,	IGNITABILITY	CORROSIVITY (PH)	REACTIVITY - SULFIDE AND CYANIDE	PCBs	TCLP VOLATILE ORGANICS - Run for Non Volatile Sources	TCLP SEMI VOLATILE ORGANICS - Run for Non Volatile Sources	
METHODS (1)		8015M	9023	6000/7000	1311/6010	1030	9045D	SW846 CHAPTER 7.3	8082A	1311/8260B	1311/8270D
FREQUENCY											
LIGHT END HYDROCARBONS	Grab - 1st 90 tons; 2nd 90 tons; every 180 tons thereafter	X	X								
	Grab - Every 900 tons									X	
	5 point grab composite 1st 900 tons and every 900 tons thereafter			X	X	X	X	X	X		X
Limit		*<45,000		End Use Criteria	Below RCRA Toxicity Level	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<4	Below RCRA Toxicity Level	Below RCRA Toxicity Level
HEAVY END HYDROCARBONS	Grab - 1st 90 tons; 2nd 90 tons; every 375 tons thereafter	X	X								
	Grab - Every 1500 tons									X	
	5 point grab composite 1st 1500 tons and every 1500 tons thereafter			X	X	X	X	X	X		X
Limit		*<45,000		End Use Criteria	Below RCRA Toxicity Level	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<4	Below RCRA Toxicity Level	Below RCRA Toxicity Level

* If TPH is >10,000 ppm a PADEP Form U must be submitted

(1) The methods provided are standard EPA methods. The method revisions are subject to change and the most current method should always be utilized by the laboratory.

This is to be used as a guideline for sampling. Sampling frequencies and parameter requirements may be modified at the discretion of the CE Approval staff based items such as site history, levels of contamination and/or source of contamination, etc.