

**Clean Earth
Sampling Frequency Protocol**

**Southeast PA
(Morrisville)**

PARAMETERS	TPH	TOX	TOTAL METALS Via Cr, Hex, Chromium (if total Cr > 100 ppm)	TCLP METALS Run for Non-Volatile Sources or if Total results are greater than 20 times TCLP RCRA: Cu, Ni, Zn	IGNITABILITY RCRA: Cu, Ni, Zn	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		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	See Cross Reference Parameter List	See Cross Reference Parameter List	See Cross Reference Parameter List	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<4	See Cross Reference Parameter List	See Cross Reference Parameter List
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	See Cross Reference Parameter List	See Cross Reference Parameter List	See Cross Reference Parameter List	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<4	See Cross Reference Parameter List	See Cross Reference Parameter List

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

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..