Clean Earth Sampling Protocol Philadelphia

| PARAME | CHAN CA CON THE THE CAN CONTROLLEM TO ENTROLLEM TO ENTROL | BIET GRAB SAMPLE! | TOTAL OF SP. MAPLE | TOTAL SEMMEORGANG | TOTAL META | CLP ME. | ARIS . 8 RCRA * CO. | CORS. | REACTIVITY (BA) | A. SULIDE M. | PCBS | TOTAL SULLIK | TOLE GO RESAMPLE | THE SEMINOUNTILE OF | TCLP HERRECORES | TOLY PRESTRIBLES | |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|-------------------|------------|---------|---------------------|------------------------------|-----------------|----------------|-------------------------------|--------------|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| METHODS (1) | FREQUENCY | 8015M (expanded to C44) | 8260B | 9020 or 9023 | 8260B | 8270D | 6010/7471 | 1311/6010/ 7470A | 1010A | 9040C | SW846 CHAPTER 7.3 | 8082A | ASTM D129 or equivalent | 1311/8260B | 1311/8270D | 1311/8151A | 1311/8081B |
| | FREQUENCY | | | | | | | | | | | | | | | | |
| | Grab Sample Every 250 tons | х | | | | | | | | | | | | | | | |
| VIRGIN PETROLEUM | Grab sample every 1000 tons | | х | | | | | | | | | | | | | | |
| | 5 point composite sample every 1000 tons | | | | | | х | х | х | х | х | | | | | | |
| Limit (mg/Kg) | | GRO <30,000; DRO <100,000 | | <1000 | <30,000 | | End Use Criteria | Below RCRA Toxicity Level | Negative | > 2 - <12.5 | Sulfide <500; Cyanide <250 | <48 | No Limit | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level |
| | Grab Sample Every 250 tons | х | | | | | | | | | | | | | | | |
| HISTORIC FILL/ WASTE PETROLEUM/ USED (WASTE) OIL | Grab sample every 1000 tons | | | | х | | | | | | | | | х | | | |
| | 5 point composite sample every 1000 tons | | | | | х | х | х | х | х | х | х | | | х | х | х |
| Limit (mg/Kg) | | GRO <30,000; DRO <100,000 | | <1000 | <30,000 | | End Use Criteria | Below RCRA Toxicity Level | Negative | > 2 - <12.5 | Sulfide <500; Cyanide <250 | <48 | No Limit | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level |
| | Grab Sample Every 250 tons | х | | | | | | | | | | | | | | | |
| MGP (COAL TAR) | Grab sample every 1000 tons | | | х | х | | | | | | | | | х | | | |
| | 5 point composite sample every 1000 tons | | | | | х | х | х | х | х | х | х | х | | х | х | х |
| Limit (mg/Kg) | | GRO <30,000; DRO <100,000 | | <1000 | <30,000 | | End Use Criteria | Below RCRA Toxicity Level | Negative | > 2 - <12.5 | Sulfide <500; Cyanide <250 | <48 | No Limit | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level | Below RCRA Toxicity Level |

⁽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

Virgin petroleum soils, less than 50 tons from a residential source, require only TPH-DRO to C44 (EPA 8015M) and TOX (EPA 9020 or 9023) analysis for acceptance. Residential is defined as a single family home or multiple unit dwelling containing no more than 4 units and cannot be part of a commercial building.