



OSPREY ENVIRONMENTAL ENGINEERING, LLC.

146 EAST MAIN STREET . CLINTON, CT 06413

PHONE: 860.669.8651

Mr. Scott Bartlett, Superintendent, Director of Public Works Operations
Fairfield Department of Public Works
725 Old Post Road
Fairfield, CT 06824

11 July 2018

Re: Air Sampling During Earth Moving Activities
Aggregate Recycling Yard Berm Project, Fairfield, CT
Collection date: 26 June 2018

Per your request samples were collected from the area downwind of earth moving activities at the above referenced location. Air samples were collected over an 8-hour period from 6:45 am to 3:45pm. Sample containers (glass ampoules containing sorbent materials and glass filter cassettes) were supplied by ESIS Analytical Laboratory. Samples were collected using personal monitoring pumps with flow rates ranging from 0.1 liters/min. for PCBs to 2.0 liters/min. for metals and polynuclear aromatic hydrocarbons (PNAs). Flow rates were calibrated using a Mesalabs Defender 510 air calibration unit. The samples were submitted to ESIS for PCBs, PNAs, lead, mercury, and arsenic. The following is a summary of results as compared to regulatory Permissible Exposure Limits (PELs).

Parameter → Concentration (mg/m ³) ↓	* PEL	FFN (Northwest)	FFS Southeast
PCBs	0.001	ND<0.0010	ND<0.0010
PNAs	-	ND	ND
Arsenic	0.01	ND<0.00062	ND<0.00062
Lead	0.05	ND<0.0016	ND<0.0016
Mercury	0.1	ND<0.00062	ND<0.00062

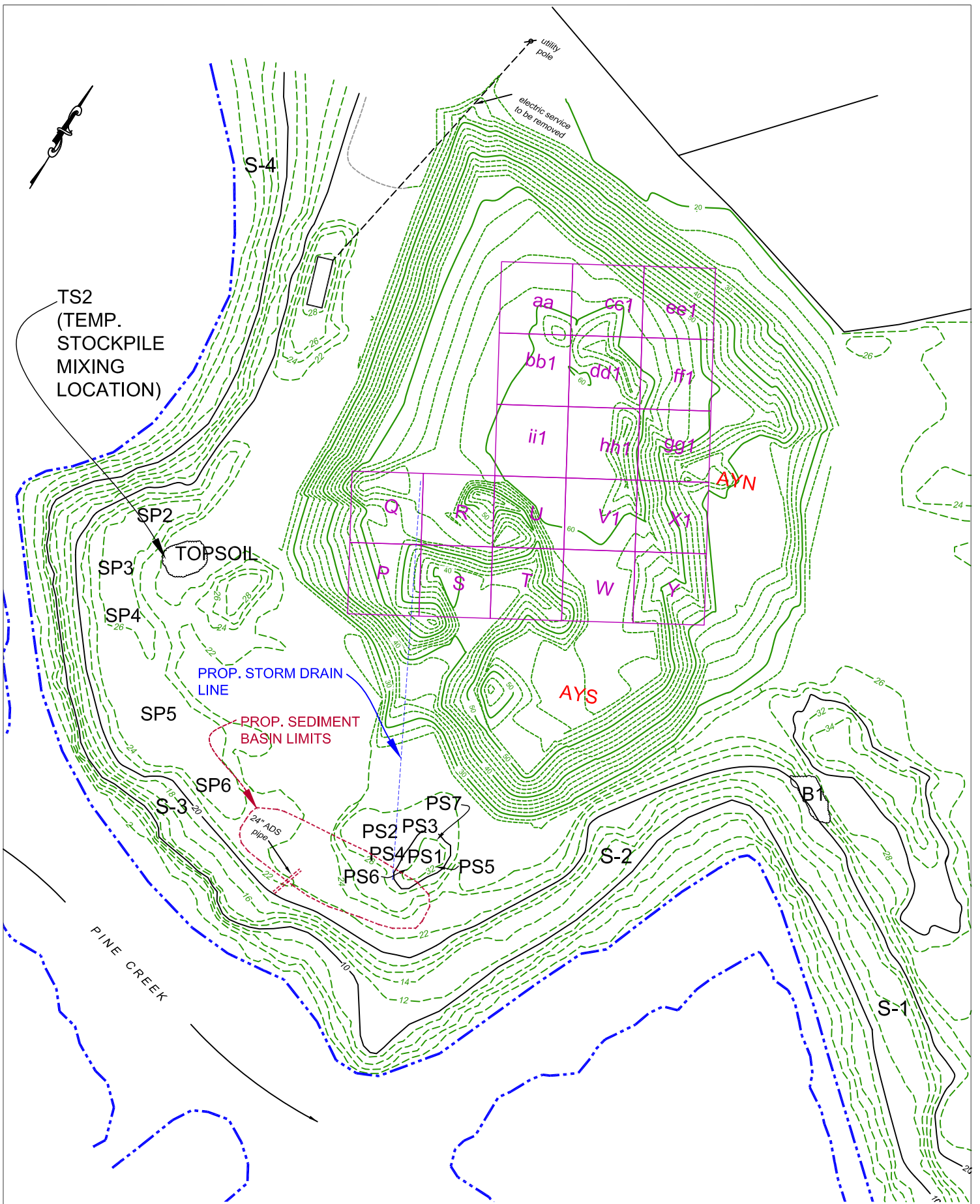
ND = not detected above analytical threshold NE = not established * NIOSH PEL Reference for PCB, arsenic, lead, and mercury

All air results were below applicable Permissible Exposure Limits, where standards have been established.

Should you have any questions regarding the above, please contact me.

Sincerely,
Osprey Environmental Engineering, LLC.

Robert Grabarek, P.E., L.S., LEP
President



A-7

AGGREGATE YARD SAMPLES
DEPARTMENT OF PUBLIC WORKS FACILITY
90 ROD HIGHWAY, FAIRFIELD, CT

OSPREY
ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651

DRAWN BY: RJC
SCALE: 1"=100'
DATE: 07.11.18
REVISIONS:

Analysis: Polychlorinated Biphenyls

Analytical Method: Gas Chromatography; NIOSH 5503 - Florisil

Prep Date: 06/28/18

Analysis Date: 06/28/18

Sample Number	Air Volume (Liters)	Component	ug	mg/m ³
AYN (PCBs)	96.0	Chlorodiphenyl (1254)	<0.0500	<0.00052
AYS (PCBs)	96.0	Chlorodiphenyl (1254)	<0.0500	<0.00052
		Chlorodiphenyl (1254)		Reporting Limit: 0.0500 ug

A blank was not submitted with the samples. EHL recommends that a blank be submitted to check for contamination. No other Aroclors were detected in the samples.

Samples analyzed by gas chromatography are quantitated by matching the retention times of sample peaks with those of known compounds. A matching retention time is not proof of chemical identity.

On all sorbent tubes and 3M 3520 organic vapor monitors the front and back section were analyzed separately.

Unless indicated by an asterisk, significant breakthrough was not detected.

Concentrations reported are based on air volumes provided.

Unless noted, the condition of samples on receipt was acceptable. Results relate only to items tested in the condition received.

Analysis: Metals in Air

Analytical Method: Inductively Coupled Plasma; NIOSH 7300 - MCE Filter

Prep Date: 07/02/18

Analysis Date: 07/05/18

Sample Number	Air Volume (Liters)	Component	ug	mg/m ³
AYN (Metals)	960	Arsenic	<0.600	<0.00062
		Lead	<1.50	<0.0016
AYS (Metals)	960	Arsenic	<0.600	<0.00062
		Lead	<1.50	<0.0016
		Arsenic		Reporting Limit: 0.600 ug
		Lead		Reporting Limit: 1.50 ug

A blank was not submitted with the samples. EHL recommends submitting a blank to check for possible contamination. Analytical results do not require blank correction.

Concentrations reported are based on air volumes provided.

Unless noted, the condition of samples on receipt was acceptable. Results relate only to items tested in the condition received.

