New York Sand & Stone, LLC

New York Sand & Stone, LLC
Brooklyn Navy Yard
Bldg. 58, Suite 2A
Brooklyn, NY 11205

Phone: 718-596-2897
FAX: 718-624-9369
email:

GRADATION ANALYSIS

#7 (1/2") CRUSHED STONE
NYSDOT #1 EQUIVALENT

SIEVE SIZE	NYSS PRODUCT (% PASSING BY WEIGHT)	JOB SPECIFICATION (% PASSING BY WEIGHT)
3/4"	100	100
1/2"	97.6	90- 100
3/8"	74.6	40-80
#4	10.5	0-15
#8	2.5	0-5

THIS PRODUCT IS TITLED #7 CRUSHED STONE AND IS IN COMPLIANCE WITH NYSDOT ITEM 703-02. OUR NYSDOT SOURCE #10-29R.

3/2003

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Brooklyn, NY 11205

Phone: 718-696-2897
FAX: 718-624-3369
email: NYSSDOOLS@AOL.COM

Monday, March 29, 2004

WILLIAMS ENVIRONMENTAL
1000 Whitehorse Rd., Ste. 612
Voorhees, NJ 08043

Regarding: **CLEANLINESS CERTIFICATION FOR AGGREGATE MATERIALS SUPPLIED FOR THE KEYSPAN PROJECT, BAYSHORE, LONG ISLAND**

Dear Mr. Seliga:

This letter certifies that the following materials, supplied by New York Sand & Stone, LLC to Williams Environmental for the above referenced project are free from any known contaminants and are mined at the Bayside Quarry, Port Bayside, New Brunswick, Canada, a NYSDOT approved stone source:

* NYSDOT #1 Crushed Stone

If you have any questions or comments or require any additional information, please contact me at 917-747-8645.

Very truly yours,

Thomas A. Dooley

East Coast Mines Material Corp.
East Quogue, NY 11942
Summary of Analytical Results for Backfill
Bay Shore/Brightwaters Former MGP Site - OU3

Bay Shore Brightwaters OU-3 IRM
Analytical Results for Proposed Aggregate (Type 1) and Clean Backfill

PARAMETER	*NYSDOT Type 1 Sample*		*Clean Backfill Sample*		*NYSDEC TAGM # 4046 Recommended Soil Cleanup Objective*	*USEPA Analytical Methods*
METALS[A]						
Silver	< 1 mg/kg	U	< 1 mg/kg	U	SB	SW846 3050B/6010B
Mercury	< 0.05 mg/kg	U	< 0.05 mg/kg	U	0.1 mg/kg	SW846 7470
Barium	2.63 mg/kg		< 2 mg/kg	U	300 mg/kg or SB	SW846 3050B/6010B
Cadmium	< 1 mg/kg	U	< 1 mg/kg	U	1 mg/kg or SB	SW846 3050B/6010B
Chromium	3.9 mg/kg		< 2 mg/kg	U	10 mg/kg or SB	SW846 3050B/6010B
Arsenic	< 2 mg/kg	U	< 2 mg/kg	U	7.5 mg/kg or SB	SW846 3050B/6010B
Lead	2.44 mg/kg		< 2 mg/kg	U	SB[B]	SW846 3050B/6010B
Selenium	32.7 mg/kg		< 2 mg/kg	U	SB	SW846 3050B/6010B
POLY AROMATIC HYDROCARBONS (PAH)						
Acenaphthene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Acenaphthylene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	41 mg/kg	SW846 Method 8310
Anthracene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Benzo(a)anthracene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	0.224 mg/kg	SW846 Method 8310
Benzo(a)pyrene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	0.061 mg/kg	SW846 Method 8310
Benzo(b)fluoranthene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	1.1 mg/kg	SW846 Method 8310
Benzo(g,h,i)perylene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Benzo(k)fluoranthene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	1.1 mg/kg	SW846 Method 8310
Chrysene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	0.4 mg/kg	SW846 Method 8310
Dibenz(a,h)anthracene	< 0.01 mg/kg	U	< 0.01 mg/kg	U	0.014 mg/kg	SW846 Method 8310
Fluoranthene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Fluorene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Indeno(1,2,3-cd)pyrene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	3.2 mg/kg	SW846 Method 8310
Naphthalene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	13 mg/kg	SW846 Method 8310
Phenanthrene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
Pyrene	< 0.05 mg/kg	U	< 0.05 mg/kg	U	50 mg/kg	SW846 Method 8310
BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)						
Benzene	< 0.1 mg/kg	U	< 0.1 mg/kg	U	0.06 mg/kg	SW846 Method 8021B
Toluene	< 0.25 mg/kg	U	< 0.25 mg/kg	U	1.5 mg/kg	SW846 Method 8021B
Ethyl Benzene	< 0.25 mg/kg	U	< 0.25 mg/kg	U	5.5 mg/kg	SW846 Method 8021B
M,P-Xylenes	< 0.5 mg/kg	U	< 0.5 mg/kg	U	Total Xylenes = 1.2 mg/kg	SW846 Method 8021B
O-Xylene	< 0.25 mg/kg	U	< 0.25 mg/kg	U	Total Xylenes = 1.2 mg/kg	SW846 Method 8021B
ANALYTICAL TESTS						
Percent Moisture	< 0.5 percent	U	< 0.5 percent	U	NA	SW846 3550 Sec. 7.2

NOTES:

Analyses conducted by Analytics Corp, Richmond VA. NYSDOH Certiciate of Approval for Laboratory Service, NY Lab ID No. 11386

U: Non Detected at the Method Detection Limit (MDL)

ppm: parts per million

ug/L: micrograms per Liter

ug/kg: micrograms per kilogram

SB: Site Background

A.) Comparison to the Heavy Metals Recommended Soil Cleanup Objectives (Table 4) of the New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Memorandum (TAGM) # 4046.

B.) Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan and suburban areas or near highways are much higher and typically higher and typically range from 200-500 ppm.