

**HALIFAX COUNTY ASH MONOFILL
STREAM SEDIMENT SAMPLING AND MONITORING PLAN**



February 1994

This plan is intended to establish locations, frequency and protocol for sediment sampling and testing procedures for the Coal Ash Monofill.

Stream sediment will be sampled at two locations, as shown on the attached Figure 1. Sample SS-2, is located at the centerline of the stream channel approximately 10' downstream of the Internal Stormwater Settling Basin's effluent channel. This is adjacent to Surface Water Monitoring point SW-C3 and represents the "downstream" sample. The "upstream" sample, SS-1, is located approximately 150-ft upstream of SS-2 and approximately 150-ft east of MW-10. This location was selected to isolate the outfall channel for the Internal Stormwater Settling Basin which retains runoff from within the Ash Monofill. It is downstream of outfalls from existing sediment basins, but upstream of the Internal Stormwater Settling Basin.

The sampling will be performed semi-annually and will correspond to monitoring well and surface water monitoring events. The sediment samples will be analyzed for the parameters (metals only) set forth in "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities" utilizing the Toxicity Characteristics Leaching Procedure (TCLP) as specified in USEPA Manual SW-846.

The analyses will be reviewed after each sampling event. If the analyses indicate a statistically significant increase over background for one or more constituent, the County will notify the Solid Waste Section within 14 days. Plans for resampling and testing or alternate treatment of the stormwater will be prepared if necessary. Any required permits will be obtained as part of these plans.

Sampling procedures will be as follows: A minimum of 1/2 liter of decanted solids sample will be removed at each location to a depth of 6" from the center of the stream channel using a clean plastic sample container. Samples will be placed

in a clean, inert container of sufficient volume to hold one sample and will be clearly marked with date, sampling location and name of technician testing the sample. The sampling device will be cleaned according to accepted groundwater sampling protocols prior to obtaining each sample. At the time of sampling, the sampling technician will also perform a visual inspection of the sampling location at the effluent pipe for evidence of ash sediments in the streambed. The County will be responsible for performing visual inspections of this area on a monthly basis, or after a significant precipitation event.

LEGEND



MW-10



DENOTES MONITORING WELL LOCATION

SW-C1

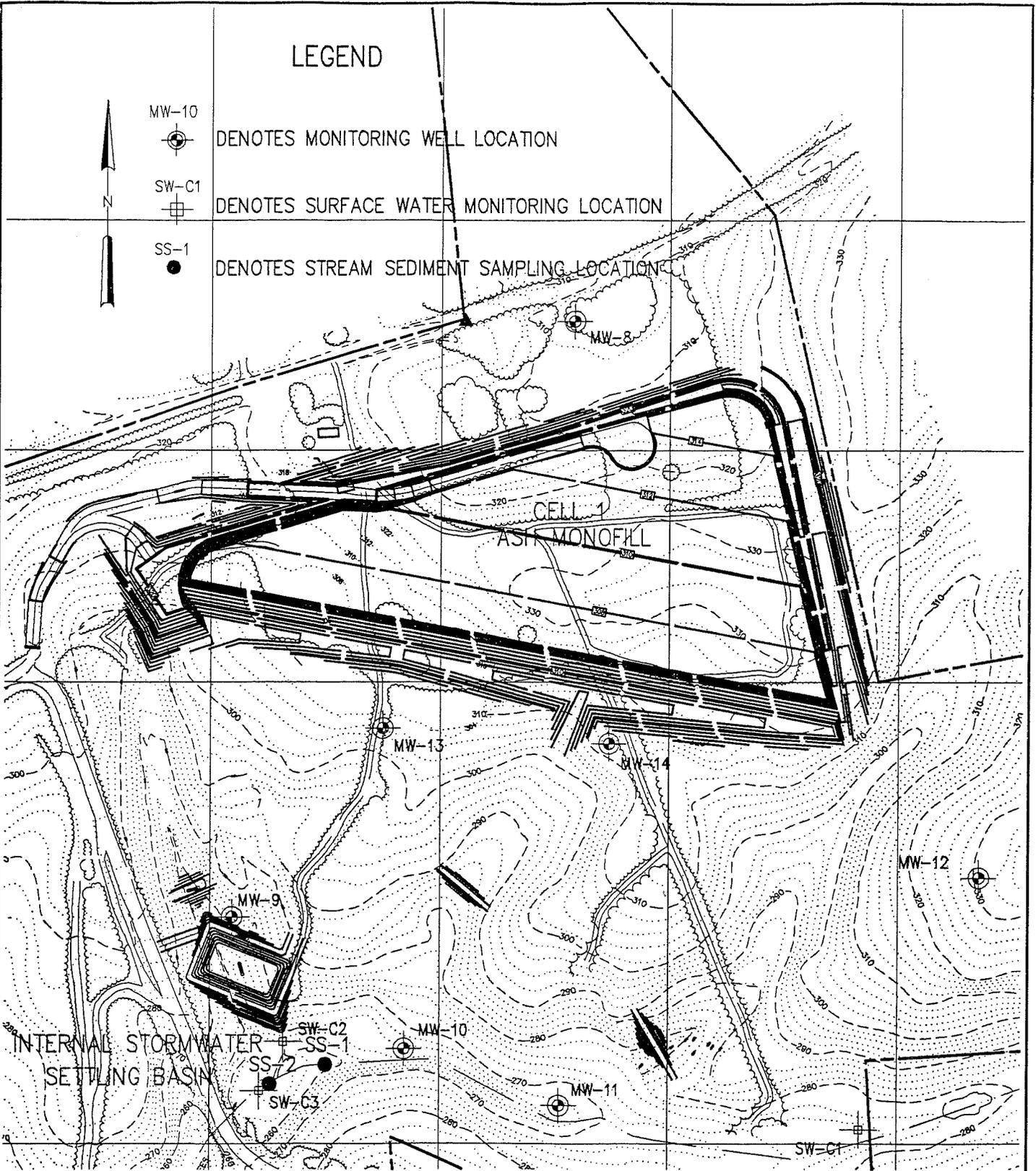


DENOTES SURFACE WATER MONITORING LOCATION

SS-1



DENOTES STREAM SEDIMENT SAMPLING LOCATION



PLAN

1"=300'

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HALIFAX COUNTY
ASH MONOFILL

FIGURE 1
STREAM SEDIMENT SAMPLING
LOCATION LAYOUT