The SAP consists of two parts: (a) **Field Sampling Plan (FSP)** (b) **Quality Assurance project Plan** **(QAPP)** that supplement the Remedial Investigation and Feasibility Study (RI/FS) work plan for the RI/FS at Pepco’s Benning Road Facility (Site). The RI/FS Study Area consists of a “Landside” component that will focus on the Site itself, and a Waterside” components that will focus on the shoreline and sediments in the segment of the river adjacent to and immediately downstream of the Site (Figure 1).

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| **Landside and Waterside Data Collection Program** The samples collected from the Landside and Waterside Study Areas including surface soil samples, subsurface soil samples, water and sediment samples from Storm drains, groundwater samples surface, surface and subsurface sediment samples, surface water samples will be analyzed for the combinations of the analysis including TPH, VOCs, PCBs, metals, total and dissolved metals in water samples, EPA 16 PAHs, SVOCs, pesticides, and dioxins/furans. Select samples from all the sampling media will be submitted for forensic analysis for PCBs (209 congeners), PAH fingerprinting, and dioxin/furans to evaluate the origin and contribution of the contaminants. The Landside and Waterside Data Collection Program is summarized in Tables 4 and 5 of the SAP Part 1.  |

**Field Sampling Plan (FSP)** provides guidance for all fieldwork by defining in detail the sampling and data-gathering methods to be used on the project for Landside and Waterside investigations. Fieldwork will be conducted to evaluate impacts to the environmental media in the Study Area. Field work will include drilling of soil borings, installation of monitoring wells, groundwater measurements, and collection of soil, sediment, surface water, and groundwater samples for field screening and laboratory analysis. A set of standardized project Operating Procedures (POPs) following USEPA and other applicable standard protocols, for the proposed field sampling and data collection program is included in Appendix A of the SAP Document Part 1. The field investigation activities for Landside and Waterside Study Area described below:

**Landside Investigation program** will include three phases of work, each phase providing necessary information for the planning of the successive phase of work.

**Phase I** involves screening surface soil samples using PID (for VOCs), XRF (for metals) and sampling storm drains. In addition, Phase I will involve screening of the Site using electric resistivity imaging (ERI) to identify potential anomalies, which will be investigated further in Phase II.

**Phase II** involves sampling subsurface soil using direct push technology (DPT) to delineate potential zones of impact identified during the Phase I ERI investigation. Additional direct push borings will be advanced to collect soil and groundwater samples and characterize horizontal and vertical extent of any impacts found during the Phase I photoionization detector (PID) and X-ray florescence (XRF) screenings. Soil samples will be collected at three different depths from each boring. The samples will then be subjected to screening using an XRF field instrument, TPH and PCB aroclors using an on-site mobile laboratory. Groundwater samples will also be collected from these borings.

**Phase III** involves installing monitoring wells for a detailed hydrogeological investigation including groundwater level gauging, aquifer testing, and groundwater monitoring.

**Waterside Investigation Program** is designed to evaluate potential sources of contaminants in the sediments of the River near the Site. The Waterside investigation will focus on defining the nature and extent of constituents of potential concern in sediment adjacent to the Site. Data for the Waterside Study Area will be collected in two phases.

**Phase I** will involve bathymetric and utility survey at on-site and background sampling locations.

**Phase II** will involve surface water and sediment sampling from the Waterside Study Area. A total of 45 sampling locations are selected for sediment samples within Waterside Study Area. A total of twenty (20) water samples will be collected from immediately above the sediment-water interface prior to sediment sampling. Ten (10) samples will be collected within the Waterside Study Area and ten (10) samples will be collected from background sampling locations. Surface sediment grab samples (0 to 6 inches below the sediment surface) and subsurface sediment samples (to maximum depth of 10 feet below sediment surface) will be collected at all 45 of the sampling locations in addition to 10 background locations.

**Quality Assurance Project Plan (QAPP):** The purpose of the QAPP is to present the organization, objectives, planned activities, and specific quality assurance/quality control (QA/QC) procedures associated with the Remedial Investigation (RI) activities to be conducted at the Site. Specific protocol for sampling, sample handling and storage, Chain of Custody, laboratory and field analysis are also described in the QAPP. This QAPP has been prepared in accordance with the United States Environmental Protection Agency (USEPA) QAPP policy as presented in USEPA Requirements for Quality Assurance Project Plans (USEPA QA/R-5, March 2001).

**Health and safety Plan (HASP) Summary**

The Health and Safety Plan (HASP) provides a general description of the levels of personal protection and safe operating guidelines expected of each employee or subcontractor associated with the Remedial Investigation/Feasibility Study (RI/FS) project planned at the Pepco Benning Road Facility (Site). The HASP also includes Site Control procedures to minimize potential contamination of workers, protect the public from Site hazards, and prevent vandalism during RI/FS field activities.