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NAS CECIL FIELD, FL
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SITUATION REPORT 6 ON 103RD STREET PIPELINE SPILL SITE NAS CECIL FIELD FL
8/1/1997
ABB ENVIRONMENTAL SERVICES INC

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SITREP #6

NAS CECIL FIELD

Situation Report on 103rd Street Pipeline Spill Site

Discovery. On July 12, 1997, stressed vegetation was noticed by NAS Cecil Field Commanding Officer, Captain Bosio, on 103rd Street, near the intersection of "A" Avenue. At first, the stressed vegetation was believed to have been from a garbage truck with a fuel leak that had been parked in the general vicinity. However, due to NAS Cecil Field's concern that it could possibly be the result of a jet fuel pipeline leak, samples were collected and sent to a laboratory for analysis. The samples did indeed indicate that the release was jet fuel, JP-5.

First Response. On July 21st, excavation had begun to find the leak in the pipeline, which runs under the east bound lane of 103rd Street. The road was closed and the traffic was rerouted to Chaffee Road and Normandy Boulevard. On July 30th, a hole about 1/16 to 1/8 inch in diameter was discovered in the pipeline. At that time, it was estimated that about 100 gallons of fuel had been released into the environment. The hole in the pipeline was sealed by welding a sleeve over the hole.

Initial Assessment. To determine extent of the contaminated area, an instrument called an Organic Vapor Analyzer (OVA) was used to detect the organic vapors in the soil. Areas of soil that had OVA readings above 50 parts per million (ppm), the Florida standard, would then be excavated. Due to the naturally high organic character of the soil, the OVA data was inconclusive. Therefore, soil samples were taken at a distance of 30 feet and 60 feet from the leak and sent to the laboratory for analysis. All the samples indicated that the soil was clean at these locations. Therefore, the decision was made to remove all the soil within 30 feet of the pipeline leak.

Clean-up. All soil within 30 feet of the pipeline leak was excavated down to one foot below the surface of the groundwater (referred to as the water table). The excavated soil was brought to Site 3, and is currently awaiting off-site treatment and disposal. Because the soil was excavated to below the water table (where groundwater begins), the remaining hole filled with groundwater along with jet fuel (which tends to float on the water). About 25,000 gallons of water and fuel were collected using a vacuum truck and then separated in an oil/water separator, yielding about 6000 gallons of fuel. The excavation was backfilled with clean soil and the road was re-paved. Due to the fuel leak in the 103rd Street Pipeline, it was proposed by the Defense Fuels Supply Command (DFSC) to take the pipeline out of operation and keep it in standby status. For the base to receive fuel, it will be transported by truck onto the base (approximately 30 truck loads per day). DFSC is the government agency which funded the repair and the environmental clean-up of the pipeline. The cost of the project to date is roughly \$150,000.



Further Action. Monitoring wells will be installed to assess the extent of groundwater contamination and remediation will occur if the assessment indicates a need.