1/1/92-01355

SITE SUMMARY

Issue:

- Naval Amphibious Base at Little Creek, Virginia: Sewage Treatment Plant Landfills (Site 10)

Summary:

- Groundwater samples were collected from monitoring wells bordering the landfill area. Concentrations of potential contaminants were all below regulatory standards. These results suggest little or no migration of pollutants from the site and, therefore, little threat to human health.

Background:

- The site was used as the primary landfill for the base from 1949 to 1952. During these years, approximately 46,500 cubic yards of waste were placed in several contiguous landfill areas that together comprise 18.5 acres.

- As the primary landfill for the base, a range of wastes were put here including unknown volumes of asbestos, and PCB's from capacitors and transformers.

Discussion:

- Eight groundwater samples were collected from monitoring wells in May 1986.

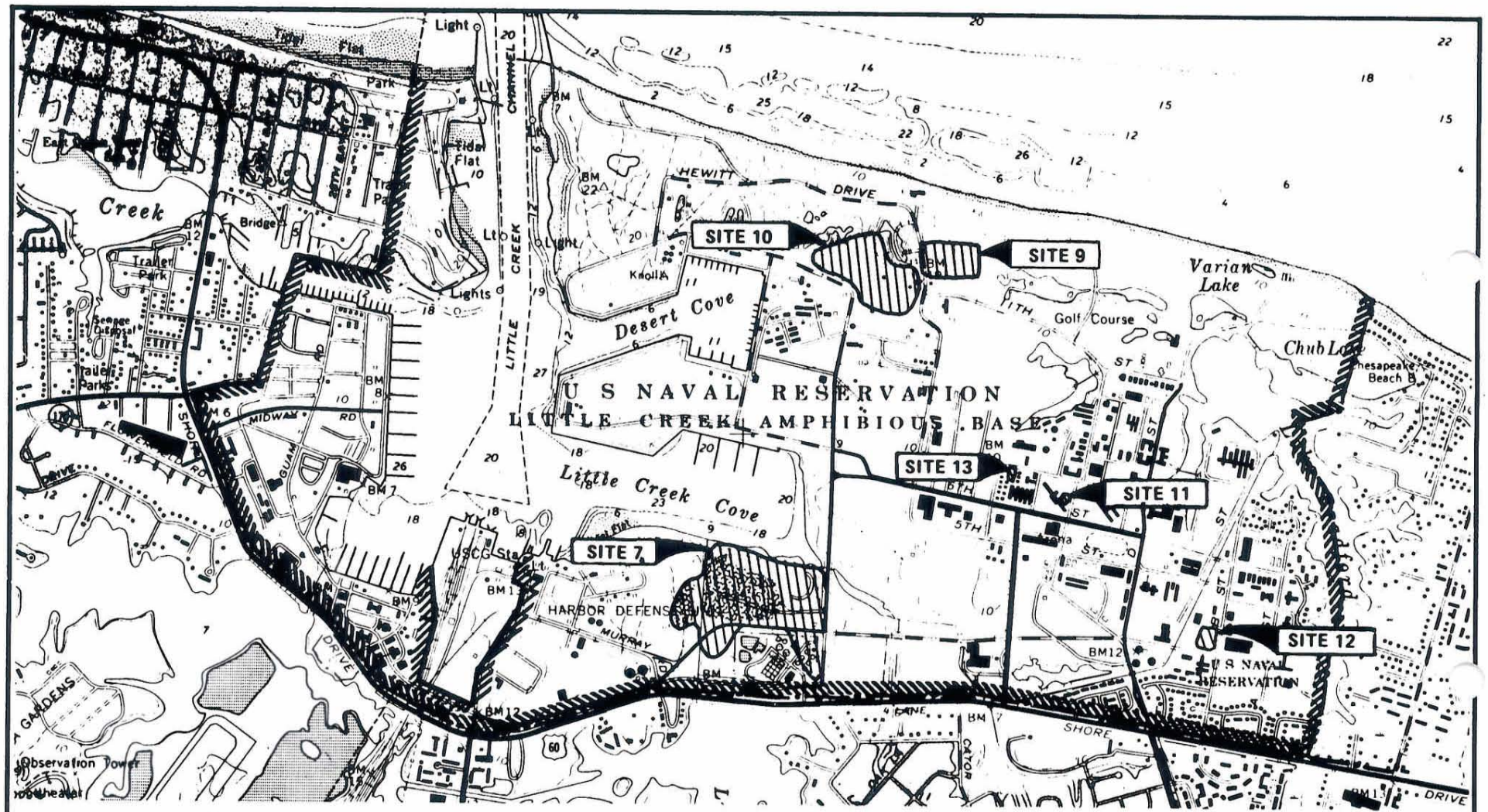
- Almost all of the concentrations of the measured constituents were below or near detection limits and all were below the MCLs. Detectable amounts of 1,1-dichloroethane (16 ppb), 1,1,1-trichloroethane (13 ppb), and zinc (2,800 ppb) were found in well LC10-GW1 in the northeast corner of the site and very low concentration of DDD (0.02 ppb) was found at location LC10-GW6 near the southwest parking lot. However, these levels are not above any established MCLs or criteria.

- The primary potential pathway for contaminant migration away from the site is likely to be by groundwater transport to the southwest based on water level measurements. These results suggest little or no contamination is leaving the landfill area.

Future Plans:

- Future plans are to to perform an additional round of sampling and analysis of water from these eight monitoring wells to verify the 1986 data.

WDR06/041



LEGEND

- Base Boundary
- Site Boundary
- SITE 7 – Amphibious Base Landfill
- SITE 9 – Driving Range Landfill
- SITE 10 – Sewage Treatment Plant Landfill
- SITE 11 – School of Music Plating Shop
- SITE 12 – Exchange Laundry Waste Disposal Area
- SITE 13 – Public Works Compound PCP Dip Tank/Metals Shop

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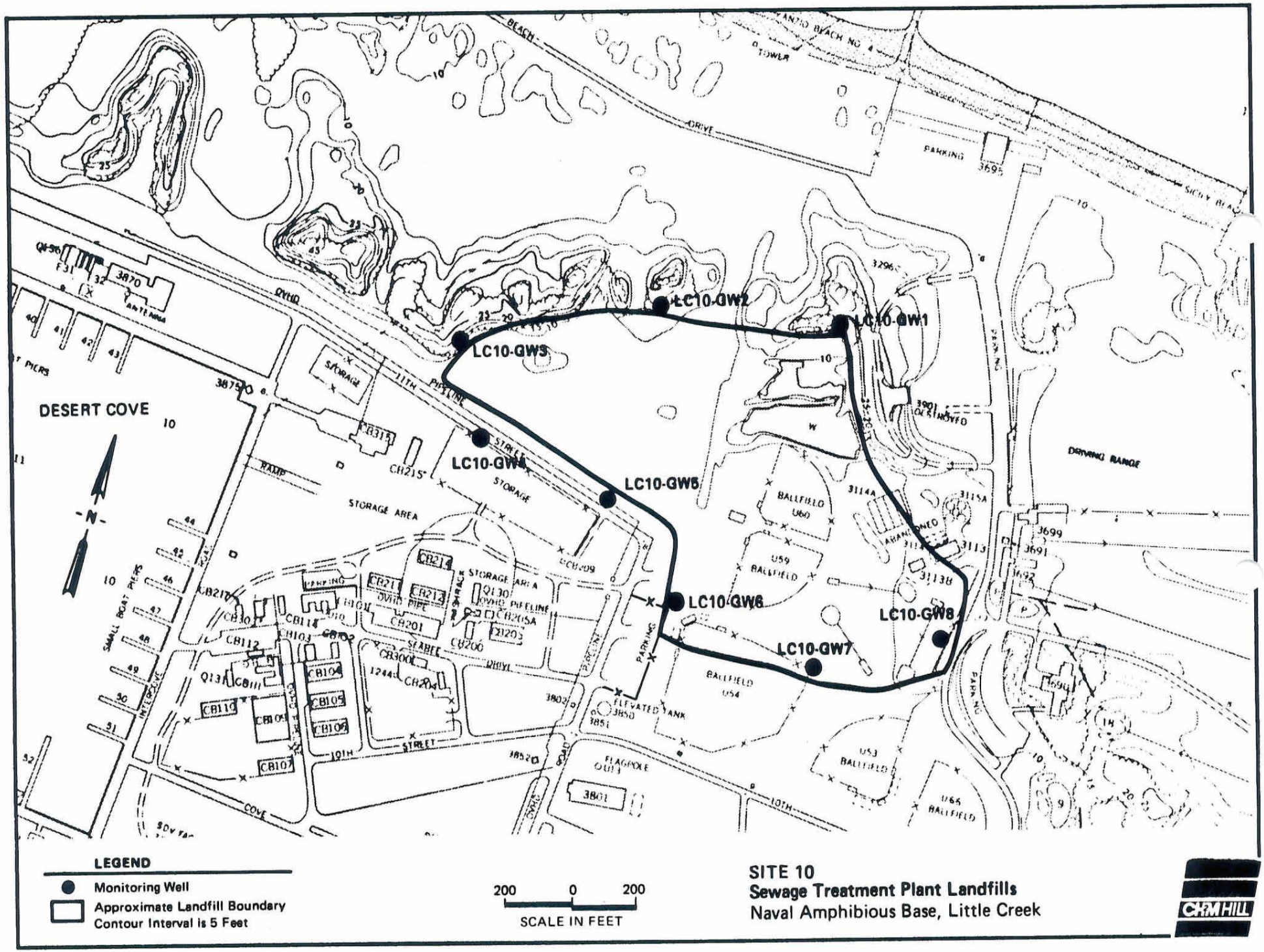
SCALE IN FEET

Site Locations
Naval Amphibious Base, Little Creek

CH2M HILL


LC10-GW1
LC10-GW2
LC10-GW3
LC10-GW4
LC10-GW5
LC10-GW6
LC10-GW7
LC10-GW8
DESERT COVE
N
STORAGE AREA
DRIVING RANGE
LEGEND
Monitoring Well
Approximate Landfill Boundary
Contour Interval is 5 Feet
200 0 200
SCALE IN FEET
SITE 10
Sewage Treatment Plant Landfills
Naval Amphibious Base, Little Creek
CH2M HILL