AS Engineering and Consulting LLC

Daily Field Report

ASEC Report ID : 62533
Name of the Project : Kilgore Road Tract
Project Location : Buford
Weather : Sunny
Departure Time : 10/18/2023 18:00
ASEC Technician Name : Vidal Dias

Date : 10/18/2023
Project No : 2023G189
Client Company : Travis Pruitt & Assoc./Fern Park Dev.
Arrival Time : 10/18/2023 08:00
Onsite Hours : 10:00

The Kilgore Road Infiltration Test aimed to assess the hydrogeological and ecological characteristics of multiple borehole sites, designated as I-1, I-2, I-3, and I-4.

Methodology:

Percolation tests were conducted in compliance with ASTM D6391 standards, utilizing straight auger bores and offset bores at varying depths.

Findings:

Borehole I-1:

- Proposed Depth: 16 feet
- Encountered refusal at multiple depths, most consistently around 8 feet.
- No groundwater detected after 48-hour monitoring.

Borehole I-2:

- Proposed Depth: 17 feet
- Encountered refusal at depths between 7 and 9 feet.
- No groundwater detected after 48-hour monitoring.

Borehole I-3:

- Proposed Depth: 17 feet
- Actual Drill Depth: 14 feet
- Percolation rates and water level changes monitored. Data captured and documented separately.
- Situated approximately 150 feet from I-4.

- **Percolation Test Data for Borehole I-3**

Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in)	Final Depth to Water (in)	Change in Water Level (in)	Percolation Rate (min./in.)
1:00	1:30	30	96	108	12	2.5
1:30	2:00	30	108	108	0	–
2:00	3:10	70	108	108	0	–

Borehole I-4:

- Estimated Elevation: 1100 feet

- Proposed Depth: 20 feet
- Drill Depth: Not specified
- Percolation rates and water level changes monitored. Data captured and documented separately.
- Located approximately 125 feet from the creek, based on a pace count of 4.9 ft./sec.

Percolation Test Data for Borehole I-4

Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in)	Final Depth to Water (in)	Change in Water Level (in)	Percolation Rate (min./in.)
12:00 PM	12:30 PM	30	204	210	6	5
12:30 PM	1:00 PM	30	210	216	6	5
1:00 PM	1:30 PM	30	216	222	6	5
1:30 PM	2:00 PM	30	222	228	6	5
2:00 PM	2:30 PM	30	228	234	6	5
2:30 PM	3:00 PM	30	234	240	6	5

Additional Observations:

- Healthy vegetation observed on the creek banks, indicating a robust ecosystem.
- Water level elevation in the creek measured at 1060 feet.
- Banks of the creek are about 10 feet high.
- Depth of the creek at the observed section: 3 feet.
- Multiple rock outcrops were noted in the creek, particularly near I-1 and I-2.
- A draw exists between I-4 and I-3.

Conclusions:

- Refusal depths indicate a hard substratum or compacted soil layers, constraining the depth of the boreholes.
- No groundwater was detected in monitored boreholes, suggesting a lower water table.
- Percolation tests for I-3 and I-4 indicated consistent rates, implying uniform soil conditions.

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Vidal Dias
-
Project Geologist

Kenneth Mosman