4. UST's

There are several areas (gas stations) within the project corridor where Underground Storage Tanks (UST's) will be encountered. Two of these gas stations have monitoring wells either on or adjacent to their property.

Their locations are as follows:

-Station-	-Offset-
14+74.0 -L-	12.0m Rt.
14+97.0 –L-	9.5m Rt.
15+25.0 –L-	8.5m Rt.
15+47.0 –L-	5.0m Rt.
29+82.5 -L-	15.0m – 30.0m Rt.

Please refer to the GeoEnvironmental report for a more detailed discussion of these issues. In addition, three transcontinental gas lines cross the project corridor between Stas. 22+00 and 23+00 –L-.

5. Alluvial Deposits

Alluvial soils within the project corridor are one to two meters thick and consist primarily of medium dense silty sand (A-2-4) and medium stiff sandy silt (A-4). These soils were encountered in the boring right of Sta. 52+00 –L- and between Stas. 54+50 and 54+90 –L-.

6. Artificial Fills / Retaining Wall

Artificial fill was encountered in three areas within the project corridor. These areas are as follows:

Line	Station(s)
-L-	10+04.00 to 11+53.00
"	51+59.00 to 53+05.00
"	53+90.00 to 55+10.00

A retaining wall has been proposed for the interval from 51+82 to 52+60 –L-, 13.80 meters right. A 1.75-meter layer of organic matter (wood) and soil was encountered in the borings performed at 51+85 –L-, 6.0m right and 52+20 –L-, 9.0m right. Hydrocarbon contamination was not encountered in any of the above listed locations. Glass and metal, combined with soil material, were also encountered at the last two sites. The first site encountered clean soil only. Please refer to the cross sections of the attached plans (pgs. 25 – 33).

Soils Properties

Residual soils, derived from the weathering of parent rock materials, occur in the uplands as cut materials, in the flanks of hillsides as foundation soils for proposed fills, and underneath alluvial deposits in floodplains. Red and brown clays (A-7-5, A-7-6) cap most of the hills and are two to three meters in thickness. In addition to these clays, a variety of saprolite soils are present. These include sandy clays (A-6), sandy silts (A-5), clayey sands (A-2-6), and micaceous silty sands (A-2-4, A-2-5).

If we can furnish any further information on this project please advise.

Respectfully submitted,

J P Rogers

J. P. Rogers

cc: Div. 12 Engineer