

Appendix D

TESCO ASSESSMENT FOR POSSIBLE ENVIRONMENTAL IMPACT OF STAGE 1B AND STAGE 2 VAPOUR RECOVERY DOC B3.1

B3.1

ASSESSMENT OF POTENTIAL LOCAL ENVIRONMENTAL EFFECTS

The potential for local environmental effects is negligible under normal operating conditions.

During tanker off loading of fuel the stage 1b vapour recovery system operates under negative pressure created by the drop of fuel level in the road tanker compartments. The negative pressure means that emission to atmosphere will not occur under normal operating conditions from the underground storage tank vents.

Towards the end of the delivery positive pressure in the system does occur as the ullage space in the storage tanks is reduced. The levels of pressure have been recorded and are well below the 35mm bar pressure relief setting on the side of the pressure vacuum valve fitted to the vent pipes of the underground storage tanks. Again no emissions to atmosphere occur.

The stage 2 vapour recovery system provides at least a 85% hydrocarbon capture efficiency. Where the automatic monitoring system detects ten consecutive failures to achieve capture of hydrocarbons between 85% and 115% efficiency in the filling operation a fault is notified. If the fault is not rectified within one week the dispenser will automatically shut down until the fault is resolved. Emissions to atmosphere will therefore only fall within the permitted levels.