



**EXPERIENCES IN THE STABILIZATION OF  
A LARGE GULLY AT SPRINGS AREA  
PROPERTY FROM AGUA MINALBA  
VENEZUELA.**

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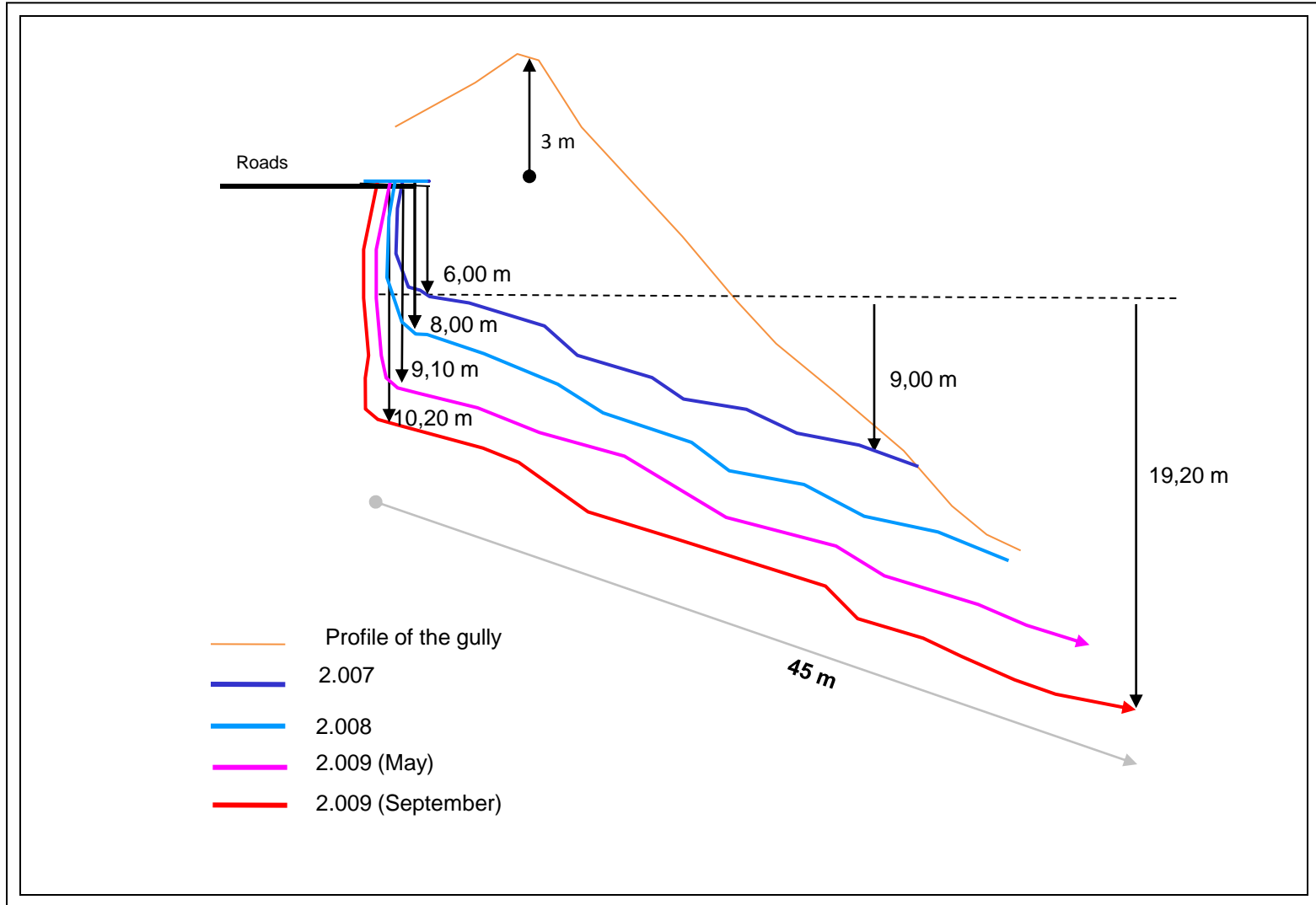
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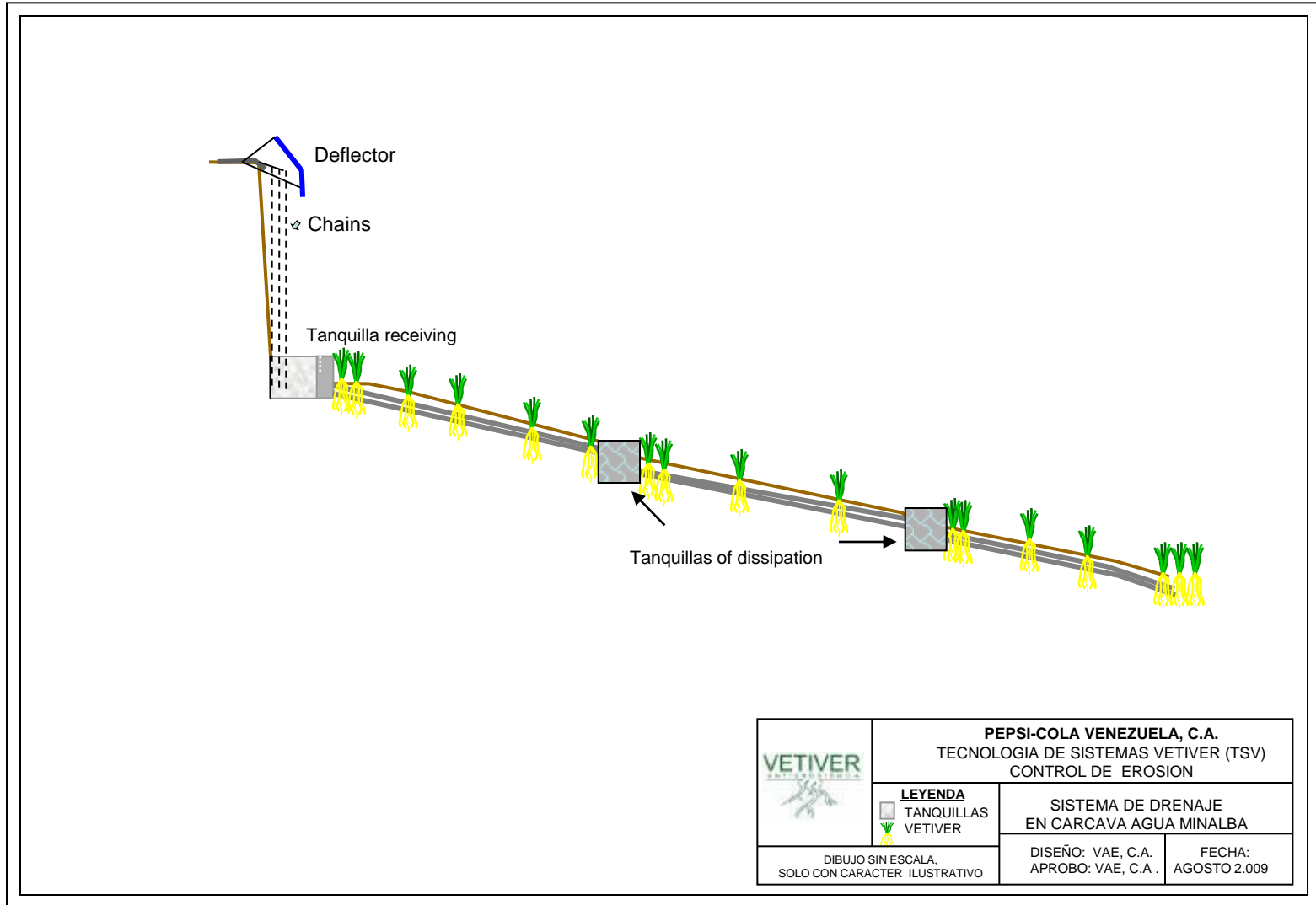






































































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## CONCLUSIONS

- 1.- The VS estabilized the gully.
- 2.- The VS worked well under high water flows.
- 3.- The failure was caused by mishandling of the barriers.
- 4.- The failure occurred only in the bed of the gully
- 5.- The wall of the slopes are stable
- 6.- It is shown that the roots penetrate and anchor in the shale
- 7.- The roots alone, without the foliage, do not support strong water flows





## RECOMMENDATIONS

- 1.- Check vetiver pruning recommendations formulated in the green book
- 2.- Never prune vetiver working on water flows
- 3.- Remove only the weeds that would provide shade to the vetiver
- 4.- Make urea fertilization 2 times a year to strengthen the foliage
- 5.- Control the sediment input to the system
- 6.- Use larger diameter pipes for underground drainages





