CHAPTER V

CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

- Foamed asphalt procedure by inject water into the hot bitumen at temperature
 of 160-200°C with water measure of 2.0-2.5% while the water and hot
 bitumen mix together it will be a foamed, during this time find out two
 parameters they were expansion ratio and half-life
- 2. This study used AC 60/70 grade which the test result at the temperature of 170°C and water measure of 2.5% find out the expansion ratio of 14 by half-life of 10.92 seconds
- 3. The expansion ratio and half life within the temperature and water for foamed asphalt range
- 4. Possible resource materials and compaction
- 5. 100%RAP ITS, M_R, fatigue, deformation worse than 50%RAP and 0%RAP
- 6. Increase temperatures, the result in lower M_R
- 7. Higher cement content and longer curing time result in higher UCS
- 8. According to DOH specification, 3.45% cement content
- 9. ITS and M_R of 100%RAP with 3% cement and 2.5% foamed asphalt are similar

5.2 Recommendations

- Foamed asphalt stabilization is a suitable and practical rehabilitation for deteriorated flexible pavement. It will provide a very high quality base layer for the new pavement
- 2. Quality control of foamed asphalt mixtures are foamed asphalt and aggregates

- 3. Portland cement is suitable and practical rehabilitation for deteriorated flexible pavement. It will provide a very high quality base layer for the new pavement
- 4. Quality control of Portland cement mixtures are cement contents and aggregates
- 5. Further study for other mix proportions of foamed asphalt mixtures with greater cement samples
- 6. Properties of foamed asphalt mixtures from the field.

