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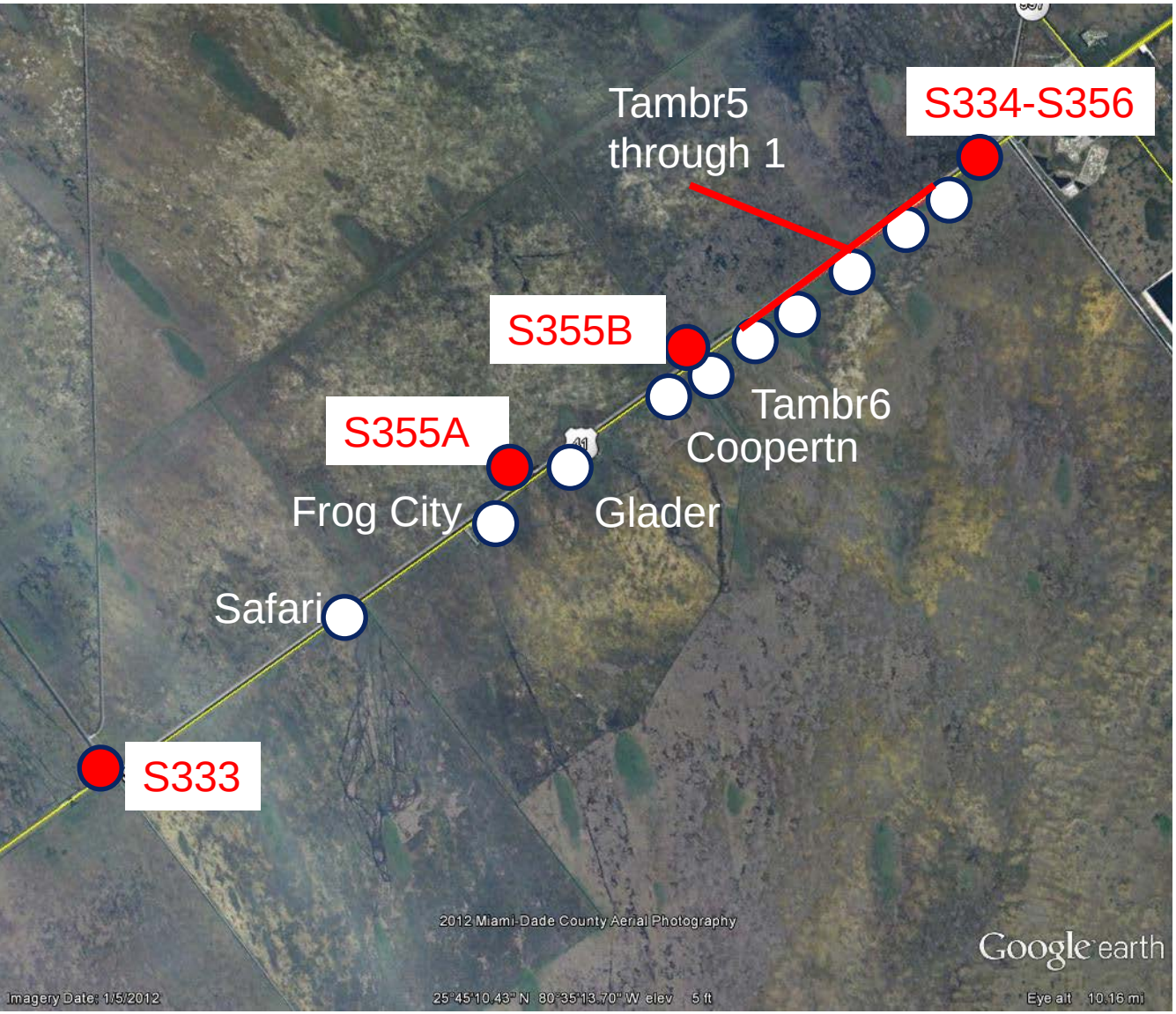
Technical Oversight Committee - April 1, 2014

Monitoring Alterations Along Tamiami Trail in Response to Infrastructure Changes



Monitoring Locations along Tamiami Trail between S333 and S334

Historical Context of Monitoring

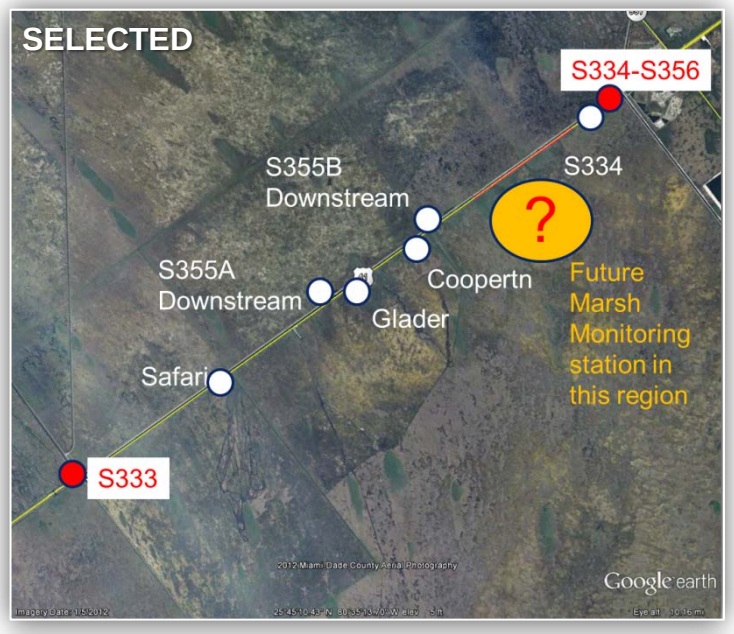
- Under the Settlement Agreement
  - Monitoring of Project CAMB is specifically required, this includes the culverts under the Tamiami Trail between S333 and S334/S356
    - 10 Culverts in total: Safari, Frog City, Glader, Coopertn, and the six culverts designated Tambr1 through Tambr6
    - Data not used in the Appendix A calculations
  - Additionally any new delivery structures to the EvPA must be monitored
    - S355A and S355B were recently constructed by the ACOE
      - To date, these structures are not permitted for use and therefore do not impact Appendix A
- All stations part of Project PIN

Infrastructure Changes Have Created Sampling Issues

- Recently improvements to Tamiami Trail including a bridge and guard rail have made sampling 7 of the culverts a safety hazard
- Additionally, an operating permit for the S355A&B structures has not been issued by FDEP and these structures are not expected to be used in the near future
- An interagency team including representatives of the SFWMD, ENP and LNWR met to discuss alternatives to monitoring this area and formulate a new monitoring strategy for those sites which are not included in Appendix A for inflows to ENP

Interagency Team Selected Option

- Cease monitoring on the upstream side of S355A&B until operating permits are granted
- Characterize the water quality in the L29 Canal between S333 and S334, by monitoring the south side of S355A&B, as well as the western side of the S334/S356, biweekly for TP, DO, pH, Sp. Conductance, and Temperature
- Continue monitoring three culverts associated with tourist operations on the south side of Tamiami Trail: Safari, Glader and Coopertn, biweekly for TP, DO, pH, Sp. Conductance, and Temperature
- A new marsh site downstream of the one-mile bridge which will be added into the monthly marsh monitoring and sampled for Turbidity, TSS, Alkalinity, color, TP, OPO4, TKN, NOX, NO2, NH4, Ca, K, Na, Cl, SO4, DO, pH, Sp. Conductance, and Temperature



District Recommendation

- Modify Project PIN along L-29
  - If approved, new strategy could begin in May
- Defer selection and implementation of marsh monitoring site to Appendix A subteam