Construction in Wetlands
Floating Over Organics
Floating Over Organics – Vine Road After
Floating Over Organics – Vine Road Boring

**Material Description**

- **Approx. Elevation:** 344.5 ft
- **Soil Description:**
  - Filled to very loose to very dense, brown, Silty Gravel with Sand (SGS), undisturbed, trace to few cobble (based on drill action) [FILL]
  - 30% gravel, 60% sand, 10% fines (15% gravel)

**Penetration Resistance**

- **Soil Type:** Dense
- **Soil Weight:** 110 kPa
- **Soil Type:** Medium dense
- **Soil Weight:** 110 kPa

**Ground Water**

- **Soil Type:** Medium dense
- **Soil Weight:** 110 kPa

**Notes**

1. The delineation lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The description in the title of the report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated, is for the date specified and may vary.

**Log of Boring B-19**

- **February 2014**
- **301-0342-002**

**Shannon & Wilson, Inc.**

**Geotechnical and Environmental Consultants**
Floating Over Organics – Parks and Glenn Flyover
Floating Over Organics – PMRE
Overexcavation and Replacement
Overexcavation and Replacement
Construction on Slopes
Construction on Slopes – Drainage

Photo Credits: DOWL Engineers for DOT&PF Zone 1 Earthquake Repair Project
Critical Decision Making Factors

- Consequences of failure
- Construction and schedule impacts
- Incremental costs
- Cost/constructability of repair
- Importance of facility
Geotechnical Engineers Need to Communicate:

• Realistic expectation of performance and chances of failure
• Consequences of decisions made during construction
• Information that will help the owner understand the cost/risk balance so that they may make informed decisions

Don’t Forget the Long View! Decisions you make today may impact outcomes far into the future.