



## **Diesel Fuel Evaluation Pilot Study**

**Commonwealth Transportation Board  
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# Study Proposal

- Evaluate use of standard diesel fuel grade.
- Desirable Outcome – Realize Potential cost savings from use of less expensive grade fuel. (\$400,000 to \$500,000 minimum annually)
- Need to make sure cost savings are not shifted to equipment maintenance.
- Ensure operational reliability.



## **Study Background Information**

- **Approximately 7500 pieces of equipment.**
- **6.5 Million gallons of diesel fuel used in FY13.**
  - **DGS Fuel Contract. (Premium & Standard)**
  - **Some manufacturers recommend the use of premium diesel fuel. Industry use is mixed.**
- **Some preliminary research have been done. No singular conclusion at this time.**
- **No documented studies found to determine if the lower grade fuel reduces operational reliability or increases maintenance costs.**

# Study Phases

- **Phase I – Start up/Logistics Base**
  - Establish Framework for testing protocols.
  - Logistical plan to administer remaining premium grade fuel in the piloting Districts.
  - Expected completion no later than September 1, 2014
- **Phase II – Testing and Evaluation**
  - Must be done during a winter season.
  - May include a platform for the evaluation of additives in the fuel.
  - Expected completion no earlier than June 1, 2015.
- **Phase III – Final Documentation and Reporting**
  - Documentation of the results.
  - Expected completion no later than August 1, 2015.



# Study Organizational Roles

**Project Sponsor: Chief Engineer, Garrett Moore, P.E.. Project Steering Committee Chairs Emmett Heltzel, P.E., State Maintenance Engineer, and Jose Gomez, P.E., PhD, VCTIR Director.**

**Project Teams: District Maintenance, Equipment, and Business Staffs.**

**Additional members: Maintenance Division Staff, VCTIR research scientists, Administrative Services Division Procurement/Contract Administration staff. Project team may be supplemented by outside consultants if needed.**

**Partnering Agencies/Entities: DGS, Department of Environmental Quality, equipment manufacturing community, fuel vendors on contract.**