



## VCGI/VTrans Technical Assistance Contract

### FFY'2005 Summary Report

FFY 2005 (April, 2005 *≈* September 30<sup>th</sup>, 2005)  
November 4<sup>th</sup>, 2005

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## Summary

This report provides an overview of FFY'2005 accomplishments. Significant progress was made in several areas, including 2005 LRS updates and Bridge/Culvert updates. A detail review of FFY'2005 accomplishments are outlined below.

## Accomplishments in FFY 2005

- A. **VTrans Linear Referencing and Route Log Systems:** VTrans and VCGI worked closely in 2005 to update two data layers critical to VTran's new Route Log System. They included a completely new LRS data layer (LRS2005) and updates to an integrated route log intersection and calibration layer (RTLOGPTS2005).  
  
?? **LRS2005:** VTrans' *Linear Referencing System* (Route System) GIS layer was completely regenerated in FFY 2005. The latest RDS data was used (7/2005 version of HMS RDS data). VCGI and VTrans worked collaboratively to cleanup LR\_ETE coding problems in the RDS attribute table. MRDTABLE (Master Route Definition Table) issues were also identified and resolved. The new LRS coverage is called LRS2005. The coverage includes End-to-End and Town-based routes consistent with 2002 Route Logs. The routes have been fully calibrated using a higher density set of calibration points (RTLOGPTS2005).

?? **RTLOGPTS2005:** VCGI and VTran's updated the integrated Route Log Intersection and Calibration point layer in FFY'2005. This layer was designed to support 1) annual regeneration/calibration of VTran's LRS data layer 2) and rendering of road intersections on VTran's new Route Log System.

B. VCGI's updates to RTLOGPTS focus on increasing the density of calibration points along each route, with a minimum of one calibration point every 2 miles. VCGI verified that there was a point at least every two miles tagged as a calibration point for every TWN/ETE route (USEFORCAL = Y within RTLOGPTS2005). VCGI tagged additional RTLOGPTS2005 points as needed. If a point was not available for tagging, VCGI wrote the FROM\_MM/TO\_MM and Route ID (ETE\_LR/TWN\_LR) for the given section to a "linear event table". VTrans provided file to VCGI which included LRS and mile-marker information for bridges on Interstate, US, and State highways. VCGI wrote a python script which snagged points from VTrans bridge data within the identified areas which did not meet the 2 mile specification. All of these procedures added over 2000 points to RTLOGPTS2005.

C. **Bridge and Culvert Data:** VCGI worked with Vermont's Regional Planning Commissions (RPCs) to integrate detailed culvert data into Vermont's statewide bridge and culvert dataset (TRANSTRUC). VCGI integrated 36 towns into TRANSTRUC in 20045. The table in **Appendix A** lists all of the town-level data integrated into TRANSTRUC in FFY' 2005.

VCGI also migrated TRANSTRUC to the new *VGIS Bridge & Culvert Data Exchange Standard*. The new data was submitted to VTrans and posted on the VGIS Data Warehouse.

If you have any questions or concerns regarding the status of existing or future initiatives, please don't hesitate to contact me at [steves@vcgi.org](mailto:steves@vcgi.org) (1-802-882-3006).



## ATTACHMENT A

### Town Bridge/Culvert Data Integrated into TRANSTRUC in 2005

TOWNNAME	FIPS6	DATE_RECEIVED	DATE_INTEGRATED	PROVIDED_BY
Baltimore Town	27011	8/2/2005	9/30/2005	SWRPC
Berlin Town	23015	7/19/2005	9/30/2005	CVRPC
Brookfield Town	17015	5/3/2005	9/30/2005	TRORC
Brookline Town	25015	9/13/2005	9/30/2005	WRC
Buels Gore	7010	9/7/2005	9/30/2005	CCRPC
Cabot Town	23020	7/19/2005	9/30/2005	CVRPC
Calais Town	23025	7/19/2005	9/30/2005	CVRPC
Chittenden Town	21020	5/4/2005	9/30/2005	RRPC
Clarendon Town	21025	5/4/2005	9/30/2005	RRPC
Danby Town	21030	5/4/2005	9/30/2005	RRPC
Dorset Town	3015	8/31/2005	9/30/2005	BCRC
Duxbury Town	23030	7/19/2005	9/30/2005	CVRPC
Elmore Town	15020	9/28/2004	9/30/2005	LCPC
Essex Junction Village	7030	9/6/2005	9/30/2005	CCRPC
Essex Town	7030	5/9/2005	9/30/2005	CCRPC
Fayston Town	23040	7/19/2005	9/30/2005	CVRPC
Halifax Town	25040	6/17/2005	9/30/2005	WRC
Hubbardton Town	21040	5/4/2005	9/30/2005	RRPC
Jamaica Town	25045	12/3/2004	9/30/2005	WRC
Marshfield Town	23045	7/19/2005	9/30/2005	CVRPC
Mount Holly Town	21060	5/4/2005	9/30/2005	RRPC
Northfield Town	23065	7/19/2005	9/30/2005	CVRPC
Plainfield Town	23070	7/19/2005	9/30/2005	CVRPC
Proctor Town	21090	5/4/2005	9/30/2005	RRPC
Rockingham Town	25070	9/15/2005	9/30/2005	WRC
Roxbury Town	23075	7/19/2005	9/30/2005	CVRPC
St. George Town	7060	9/7/2005	9/30/2005	CCRPC
Tinmouth Town	21120	5/4/2005	9/30/2005	RRPC
Underhill Town	7075	5/6/2005	9/30/2005	CCRPC
Warren Town	23085	7/19/2005	9/30/2005	CVRPC
Waterbury Town	23090	8/26/2005	9/30/2005	CVRPC
Whitingham Town	25100	9/1/2005	9/30/2005	WRC
Windham Town	25110	6/10/2005	9/30/2005	WRC
Wolcott Town	15050	9/28/2004	9/30/2005	LCPC
Woodstock Town	27120	8/16/2005	9/30/2005	TRORC
Worcester Town	23100	8/26/2005	9/30/2005	CVRPC