



Department of the Environment

Investigation of PCB Sources Lower Beaver Dam Creek

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February 25 , 2010

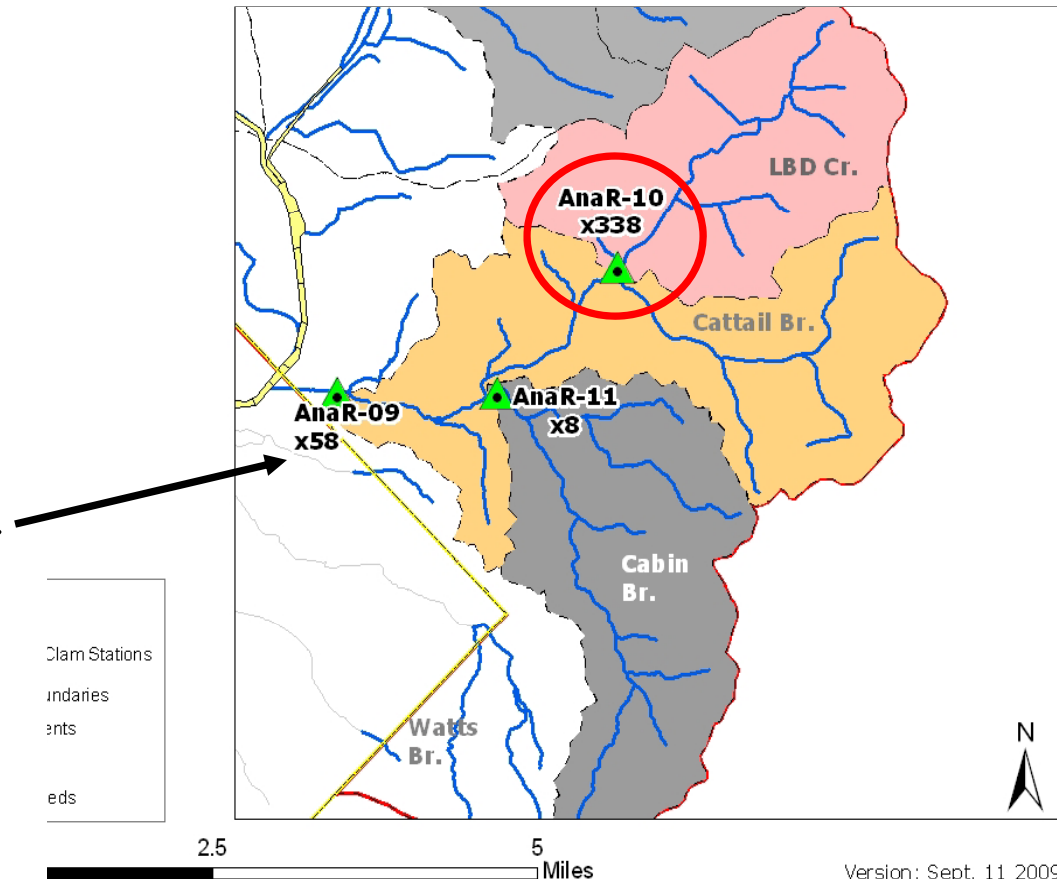




MDE Anacostia PCB Survey

In 2007, station AnaR-10 (Lower Beaverdam Creek) displayed the highest PCB concentration in the Anacostia River watershed.

ID	Σ PCB (ppb)	xRT
07AnaR-01	10.31	x4
07AnaR-02	9.99	x4
07AnaR-03	25.46	x9
07AnaR-04	6.16	x3
07AnaR-05	15.53	x6
07AnaR-06	5.07	x2
07AnaR-08	6.74	x3
07AnaR-09	172.76	x58
07AnaR-10	1008.83	x338
07AnaR-11	21.61	x8
07AnaR-12	16.64	x6
07AnaR-13	4.81	x2
07AnaR-14	7.77	x3
07AnaR-15	18.84	x7
07AnaR-16	8.68	x3
07AnaR-17	13.04	x5
07AnaR-18	15.61	x6
07AnaR-20	1.72	x0



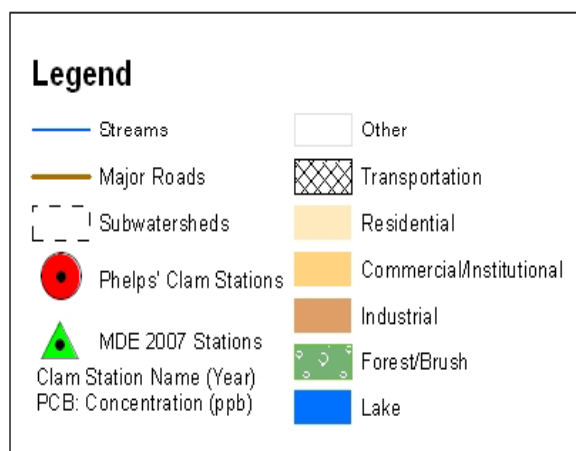
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Consistent Caged Clam Results

- MDE results confirm Dr. Phelps' results – PCB “hot spot” near Landover Metro (AnaR-10 & LMT).
- Potential sources include transportation, storm water infrastructure, and industry.



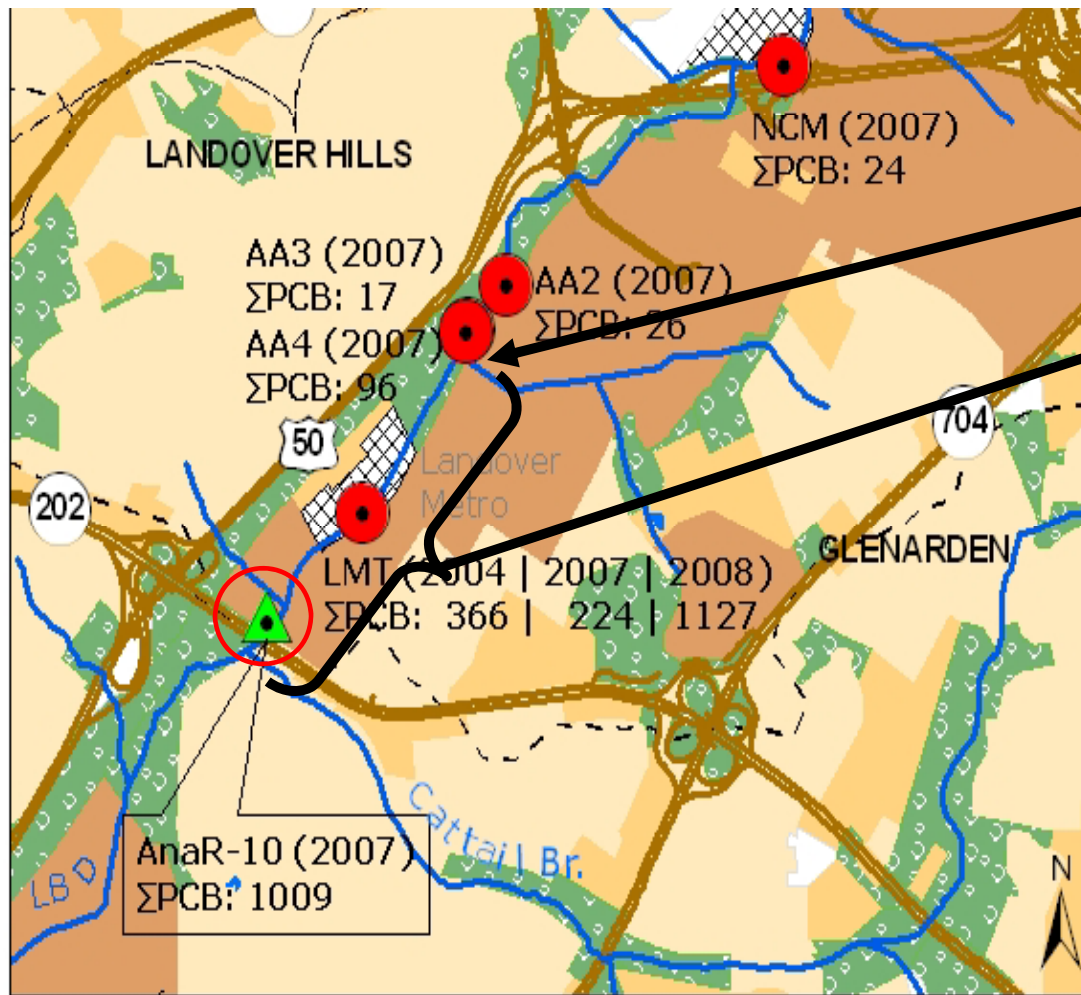
0 0.5 1 Miles

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Area of Further Evaluation

- Past Monitoring Suggests Area of Further Investigation:



Unnamed Tributary

Area of Interest

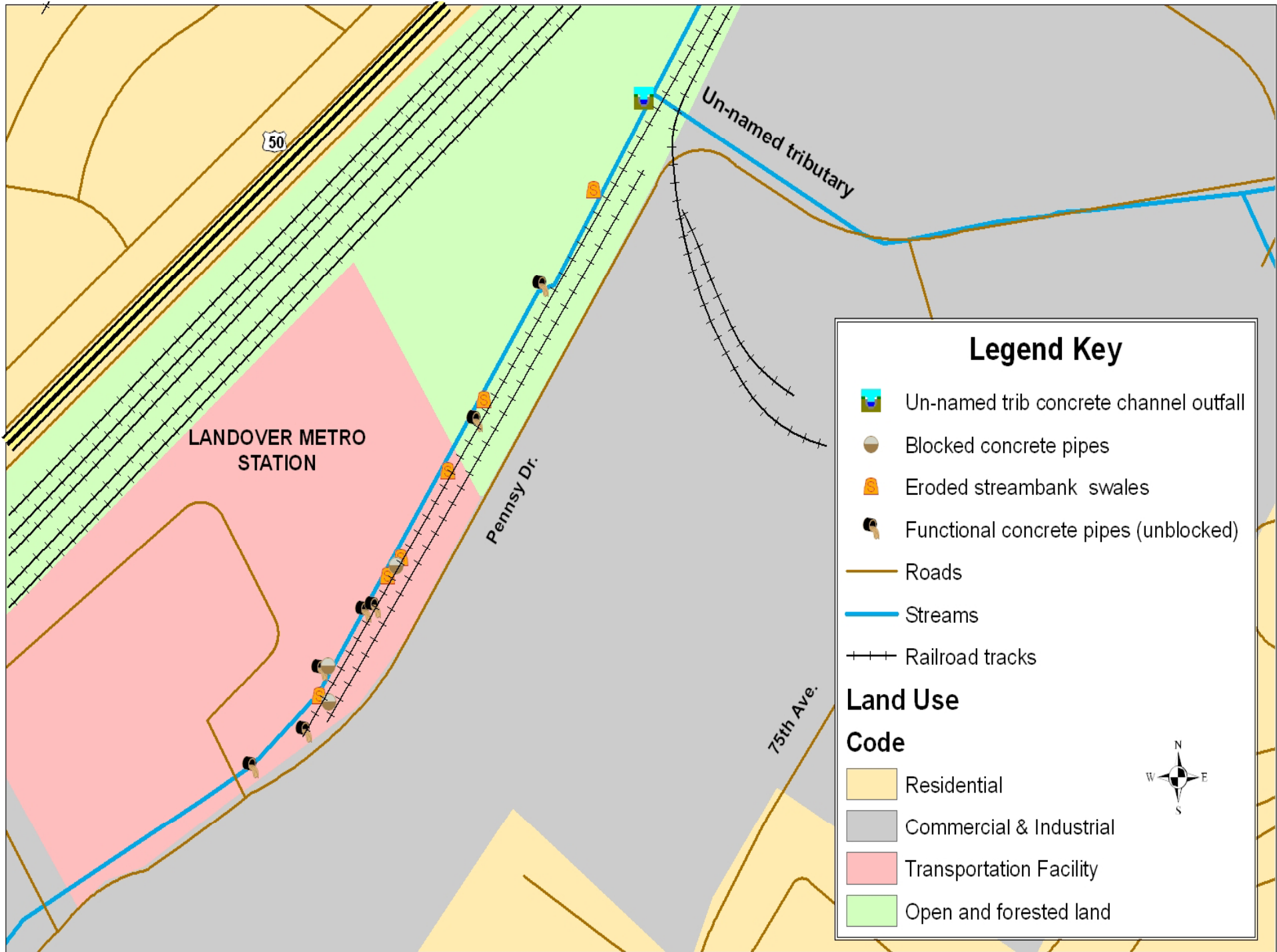











MDE Steam Survey

- MDE/SSA documented all storm water influx points 1100 yards upstream of Landover Metro on 9/25/09.
- A total of 10 functional concrete pipes (including un-named tributary), 12 eroded swales, and 3 blocked pipes were identified.









Legend Key

-  Un-named trib concrete channel outfall
-  Blocked concrete pipes
-  Eroded streambank swales
-  Functional concrete pipes (unblocked)
-  Roads
-  Streams
-  Railroad tracks

Land Use

- Code**
-  Residential
 -  Commercial & Industrial
 -  Transportation Facility
 -  Open and forested land





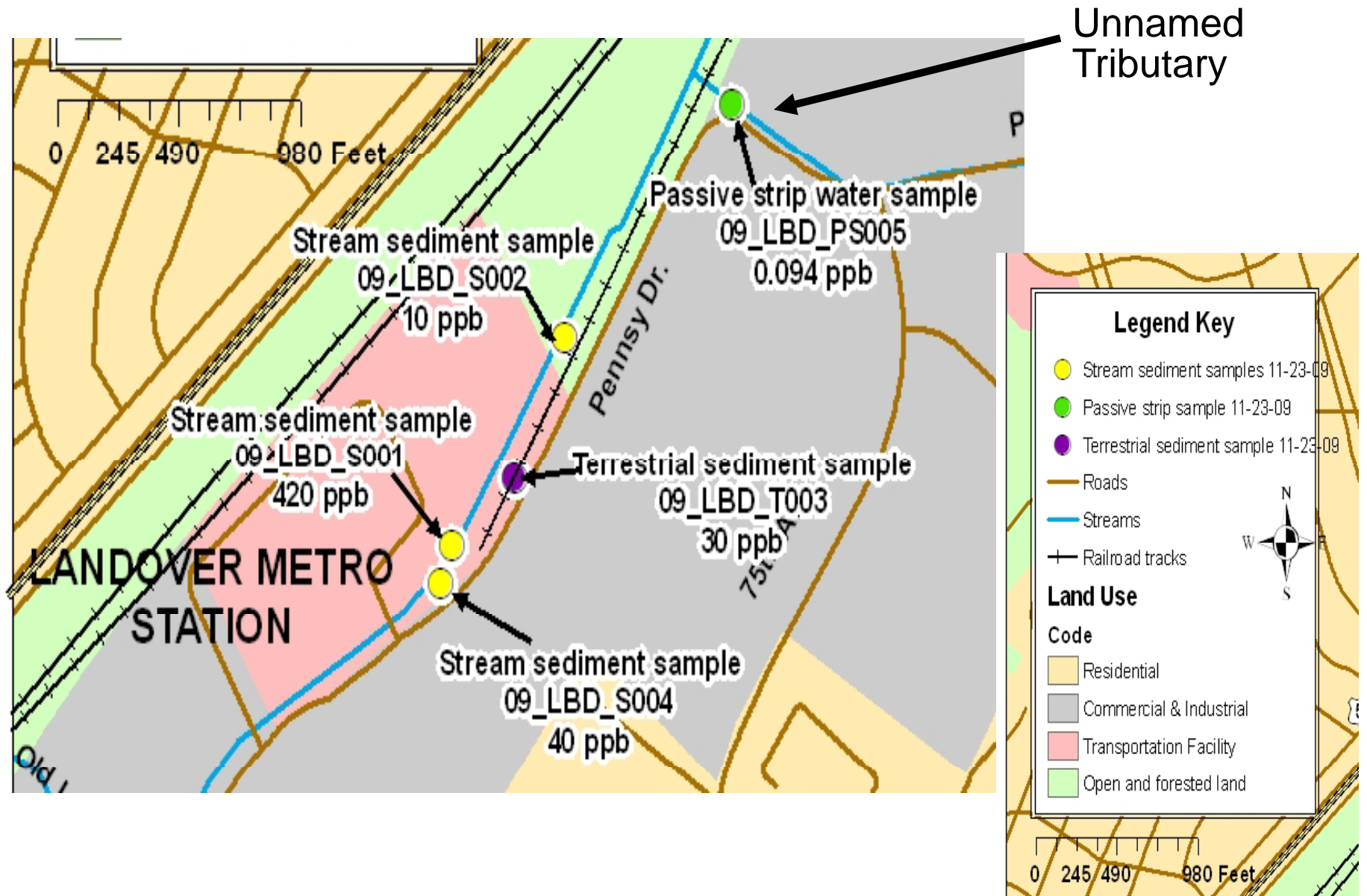
Initial Follow-up PCB Samples

- Four Samples Collected (November 2009):
 - 3 Stream Sediment
 - 1 Terrestrial Sediment
 - 1 Passive Strip Sample in Upstream Unnamed Tributary
- Results: Only one stream sample had notable PCB value (420 ppb – Station 09_LBD_S001)
- Interpretation: Inconclusive. Further Source Assessment Needed.





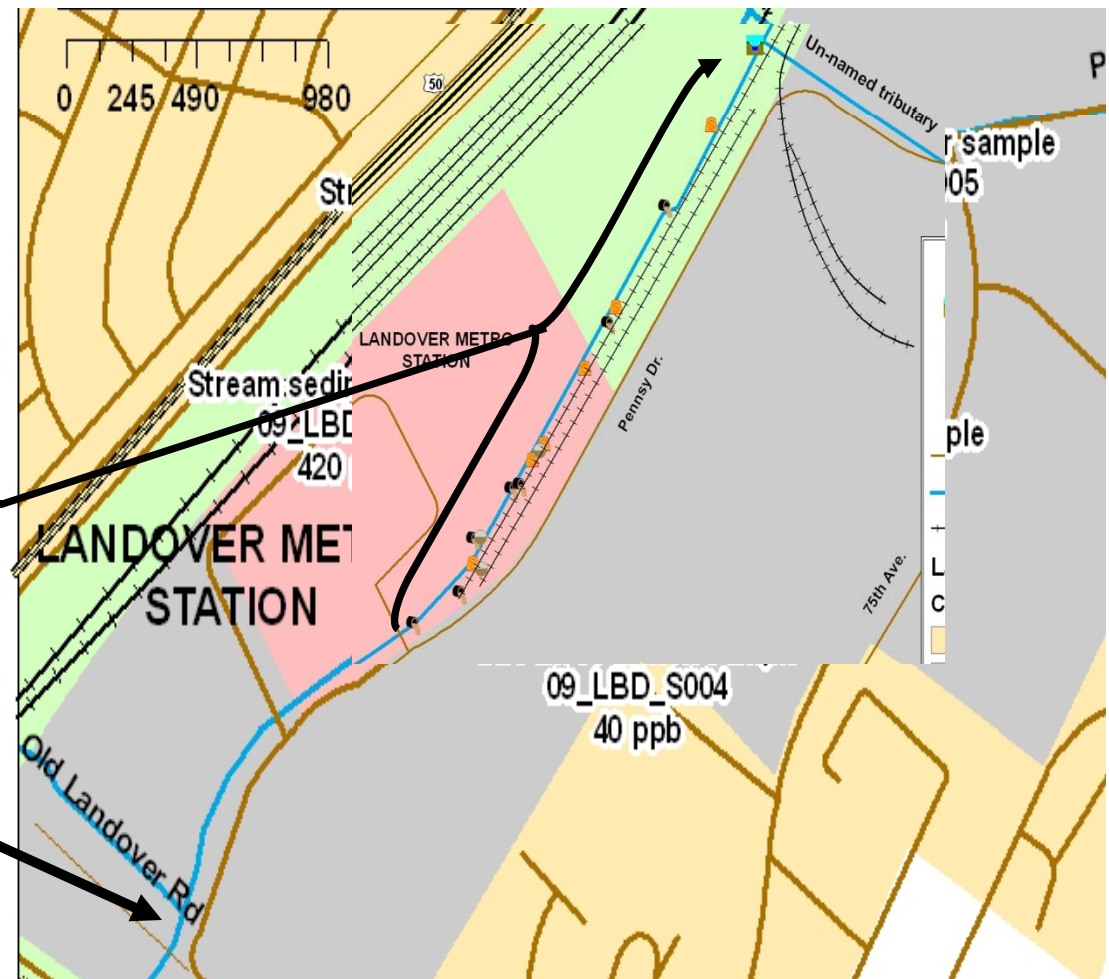
Initial Follow-up PCB Survey





Passive Sample Strips

- Second round of sampling underway 2/4/10
- 13 passive water sample strips
 - 6 storm water pipes, within & below pipes.
 - Locations: Un-named Trib to Landover Metro
 - Plus one at the weir at Old Landover Rd.





Next Steps

- Passive strip samplers to be collected first week in March 2010.
- Laboratory Analysis will be complete by the end of April 2010





Contact Information

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