

Terry Lake Neighborhood Regional Detention Pond Design Longmont, Colorado

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The Terry Lake Neighborhood (TLN) is located north of the City of Longmont, Colorado and has a contributing drainage area of just over 10.5 square miles. This drainage basin has the potential to generate 3,900 cfs during a 100-year (1-percent annual chance of occurrence) storm event, which greatly exceeds the existing conveyance capacity of downstream drainage facilities (roughly 87 cfs). Consequently, the City of Longmont has identified the need to detain storm runoff to a level that downstream drainage facilities can accommodate. One of these detention facilities is the TLN Regional Detention Pond that, once completed, will occupy over 40 acres of land and will potentially provide over 300 acre-feet of detention storage.

The design of the TLN Regional Detention Pond is in its initial stages and is scheduled to be completed by the end of 2009. As a result, by the time the project is completed it will consist of the following:

- Hydrologic modeling of the tributary drainage basin using CUHP/EPA SWMM to define design discharges and to evaluate various alternatives (being conducted as part of the TLN Master Drainage Plan);
- Formulation and hydraulic design of the regional detention facility;
- Final design of the TLN Regional Detention Pond;
- Final design of a jurisdictional dam embankment;
- Preparation of an Emergency Action Plan for the jurisdictional dam;
- Preparation of either a Nationwide or Individual 404 Permit;
- Preparation of final construction plans, technical specifications, and contract documents;
- Construction management services during the construction time period; and
- Preparation of as-built drawings.

