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Attorney/Client Privileged – Republican River Basin Compact
Tasks for 2007

DRAFT MEMORANDUM

TO:	Ann Bleed
	Mike Thompson
FROM:	Marc Groff
RE:	Tasks for 2007
DATE:	4 January 2007

The Flatwater Group, Inc (TFG) has developed this draft list of tasks related to the Republican River Compact settlement for the purposes of discussion.

<u>Tasks related to Depletion Reductions:</u>

- Continue documentation of 15-50 runs
  1. Documentation needs to consist of:
     a) General discussion of scenario assumptions
     b) Full acreage (GWEX, SWEX, GWCO, phreatophyte) and water balances (GWEX pumpage, GWCO pumpage, SW deliveries, Phreatophyte ET, storage, recharge, precipitation, etc) from model by NRD Upland Area, NRD Quick Response Area, NRD sub-basin

- Continue refinement of 15-50
  1. Develop optimized target pumpage volumes for Upland and Quick Response areas in each Republican River Basin NRD.
     a) Optimization needs to account for water short year sub-basin compliance
     b) Determine optimization goals
        i) Minimize ET reduction for the basin as a whole without regard to geographical/political boundaries
        ii) Reduce ET considering geographical/political boundaries. Would need to develop what the optimization zones are and what equalizing metrics to use

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iii) Reduce ET considering an areas "depletion charge" (i.e. relate a given areas ET reduction to its percentage of the total depletion overage)

2. Develop scenarios targeting improvement of Imported Water Supply (IWS) credit
   a) Targeted pumpage reductions along IWS flow path
3. Develop cost estimates for depletion control measures
   a) Estimate the cost of achieving an AF of depletion reduction in a given NRD using currently available tools for that NRD (EQIP, conversion to dryland outside of EQIP, surface water buyouts, phreatophyte control, etc)
      i) Develop table listing estimated one to two year water savings from costed options

- Develop tools to predict future state water supply allocations

Tasks related to Water Supply Enlargement

- Develop additional water importation strategies
  1. Identify most likely potential options
     a) Look at Little Blue Transfer concept
  2. Identify potential legal issues which would need to be addressed
  3. Develop feasibility level design concepts and costs

- Phreatophyte control issues
  1. Ensure that current phreatophyte coverage used in the model still reflects current conditions. A natural reduction in phreatophyte acreage may have occurred due to the drought. (can't be accurately measured)
  2. Work with UNL, USGS, and others on developing estimates of potential water savings from control of invasive species. grant.

- Pursue re-timing projects
  1. Develop feasibility level design and cost estimates of off stream/off season storage projects whose purpose is to deliver stored water to downstream states during the irrigation season and which could also be used to store imported water for future delivery.

LR Replan Study

Meeting – list on going activities