Lower Platte Basin Wide

Management Plan

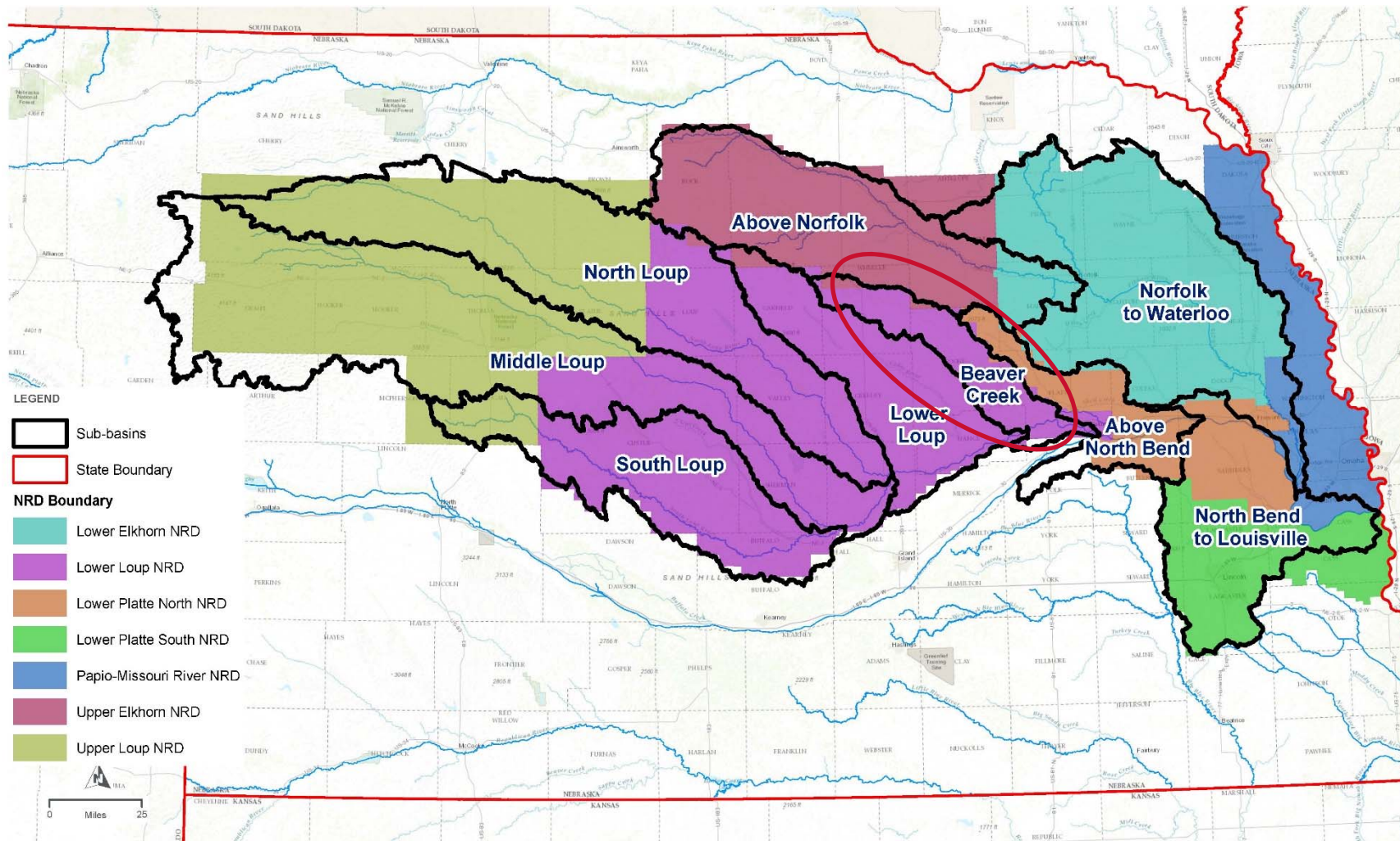**Management Committee Meeting**

September 5, 2017

Agenda

- Introductions and Administrative Items
- Summary of last Coalition Board Meeting (October 2016) and subsequent actions regarding Beaver Creek Sub-basin in basin accounting analysis.
- Review draft Plan as group
- Decision - Coalition Board meeting or move directly to NRD Board presentations?
- Path Forward
  - ○ ILCA
  - ○ Role of Coalition Board
- Other
- Adjourn

Subsequent Actions

- Beaver Creek sub-basin was previously included in the Above North Bend sub-basin – consistent with INSIGHT watershed boundaries.

- Beaver Creek sub-basin lies within the LLNRD.

- HDR worked with NeDNR to break out the Beaver Creek sub-basin and updated the basin accounting.

- Beaver Creek accounts for approximately 2% of the Basin Water Supply.

  => Loup Basin's % BWS increased from 44% to 46% of overall Lower Platte BWS

  => The Lower Platte sub-basin's % BWS decreased from 24% to 22% of overall Lower Platte BWS

- Excess Supply for Lower Platte Basin divided between Sub-basin's based on % BWS.

LEGEND

Sub-basins

State Boundary

NRD Boundary

- Lower Elkhorn NRD
- Lower Loup NRD
- Lower Platte North NRD
- Lower Platte South NRD
- Papio-Missouri River NRD
- Upper Elkhorn NRD
- Upper Loup NRD

Above Norfolk

North Loup

Middle Loup

Lower Loup

South Loup

Beaver Creek

Norfolk to Waterloo

Above North Bend

North Bend to Louisville

0 Miles 25

	Average Annual Available Flow (AF)		10%Target Limit (AF) (Total over next 5 yrs.)	
% BWS	Non-peak	Peak	Non-peak	Peak
Full Lower Platte	581,528	188,073	58,153	18,807
Elkhorn (32%)	168,723	60,183	16,872	6,018
Loup (44%)	285,529	82,752	28,553	8,275
Beaver Creek (2%)	11,562	3,761	1,156	376
Lower Platte Subbasin (22%)	116,243	41,376	11,624	4,138

Review Draft Plan as Group

October 2016 – Plan Recommendations

Goal 1: Develop and maintain a water supply and use inventory based on the best available data and analysis

- Utilize the INSIGHT methodologies for consistency in basin water supply and use
- accounting.
- Using the INSIGHT methodologies, new uses (depletions and consumptive use) will be tracked and reported by Coalition members.
- Utilize best available tools and information for estimating uses
- Collaborate on consistent reporting methodologies to be used by Coalition members.

October 2016 – Plan Recommendations

<u>Goal 2</u>: Implement a water management plan for the Lower Platte Basin that maintains a balance between current and future water supplies and demands

- For the first 5-year increment of the Plan:
  - Allowable new uses will be limited to 10% of the 25-year average annual basin-wide excess during the peak season.
  - Allowable new uses apportioned to Elkhorn, Loup, and Lower Platte River sub-basins based on sub-basins' contribution to flows at Louisville gage.
  - Allowable cumulative development accounting based on peak season depletions.
  - Compute and track the full consumptive use of new uses

- Collaborate with Coalition members and potential partners on water supply enhancements.
- Continue discussions on water banking framework for the Lower Platte River Basin .

October 2016 – Plan Recommendations

<u>Goal 3</u>: Develop and implement water use policies and practices that contribute to the protection of existing surface and groundwater uses while allowing for future water development.

- Implement plan through Inter-Local Cooperation Agreement (ILCA) among Coalition members and subsequent incorporation into individual Integrated Management Plans (IMPs) and/or NRD rules and regulations.

- Conduct annual meeting to discuss activities, provide annual summary, and coordination activities amongst NRDs, DNR, and stakeholders.

- Keep plan current - update following the first 5-yr increment, coincident with INSIGHT database update on supplies to be performed by DNR.

% BWS	Average Annual Available Flow (AF)		10%Target Limit (AF) (Total over next 5 yrs.)	
	Non-peak	Peak	Non-peak	Peak
Full Lower Platte	581,528 ~~598,602~~	188,073 ~~194,843~~	58,153 ~~59,860~~	18,807 ~~19,484~~
Elkhorn (32%)	168,723 ~~173,677~~	60,183 ~~61,960~~	16,872 ~~17,368~~	6,018 ~~6,196~~
Loup (44%)	285,529 ~~293,912~~	82,752 ~~85,171~~	28,553 ~~29,391~~	8,275 ~~8,517~~
Beaver Creek (2%)	11,562	3,761	1,156	376
Lower Platte Subbasin (22%)	116,243 ~~131,013~~	41,376 ~~47,712~~	11,624 ~~13,101~~	4,138 ~~4,771~~