



Supporting Document 5-2 Aquatic Chemistry Findings for North Fork Colorado River and Supply Creek in the UCRWG ETF Project Area

Brief prepared for the Upper Colorado River Watershed Group

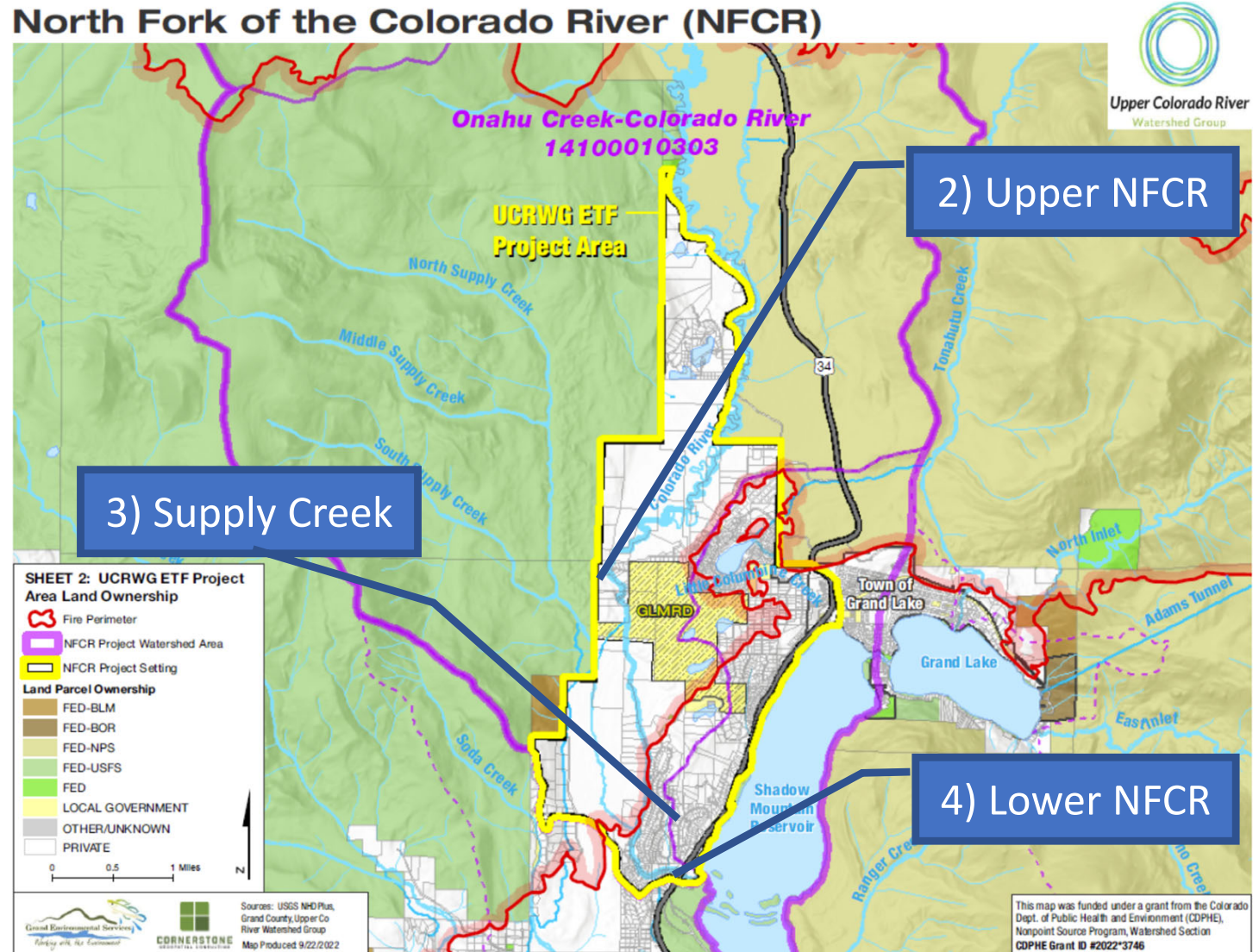
Under CDPHE Grant #2022-3746

And Fire on the Mountain, Inc. Grant 2022

December 2022

1) Aquatic Chemistry – Overall Study Area

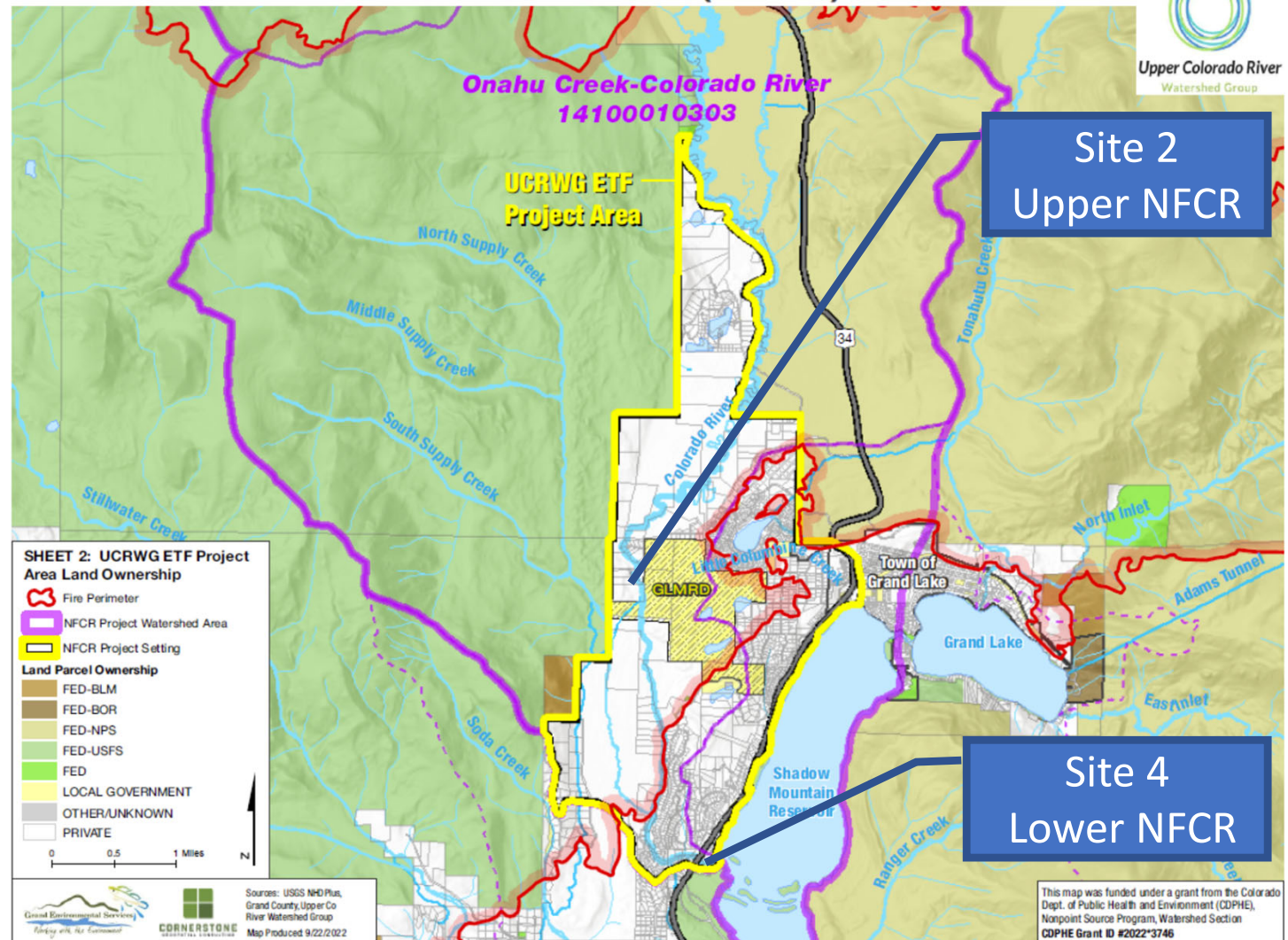
- Findings from Gatesman Environmental Consulting and Engineering, LLC, report received 1Dec22
- Observations here represent locations 2, 3, and 4, the downstream ends of stream reaches; Site number 1 off map to north
- Temperatures and most analytes increase during sampling season
- NO_2 and NO_3 below detection in all samples
- Zinc and Arsenic not analyzed



2) Aquatic Chemistry – NFCR Trends from Upstream to Downstream

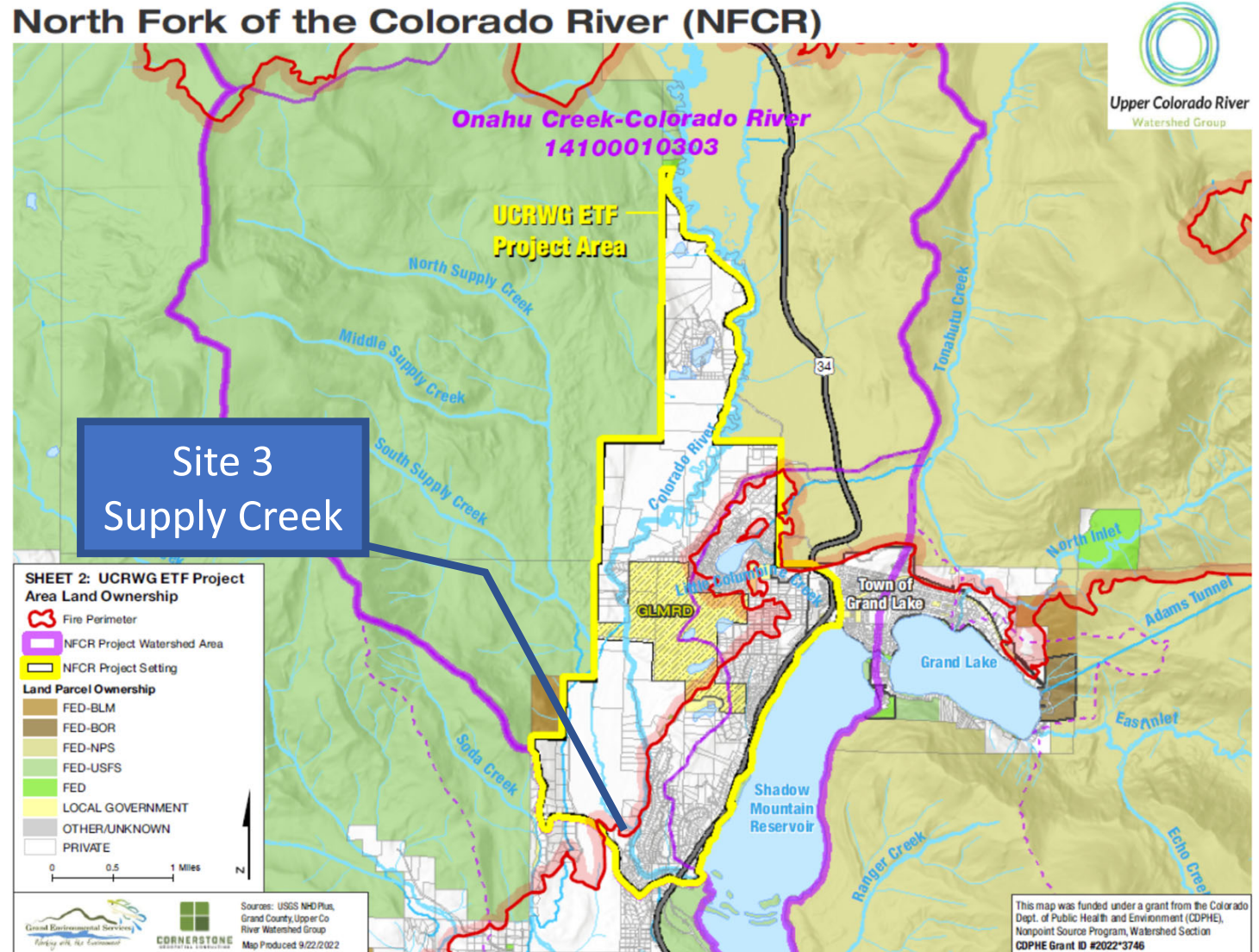
- NH₃ ammonia detected at Site 2 but not Site 4
- pH, PO₄ Phosphate, and turbidity increase downstream
- Total Suspended Solids (TSS) decreased downstream

North Fork of the Colorado River (NFCR)



3) Aquatic Chemistry – NFCR Trends Downstream

- No NH₃ ammonia detected at Site 3 Supply Creek
- PO₄ Phosphate and TSS greater than NFCR
- Turbidity increased late season (after Red Top Ditch diversions curtailed?)



Thank You, Happy to Answer Questions or Schedule a Field Trip



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