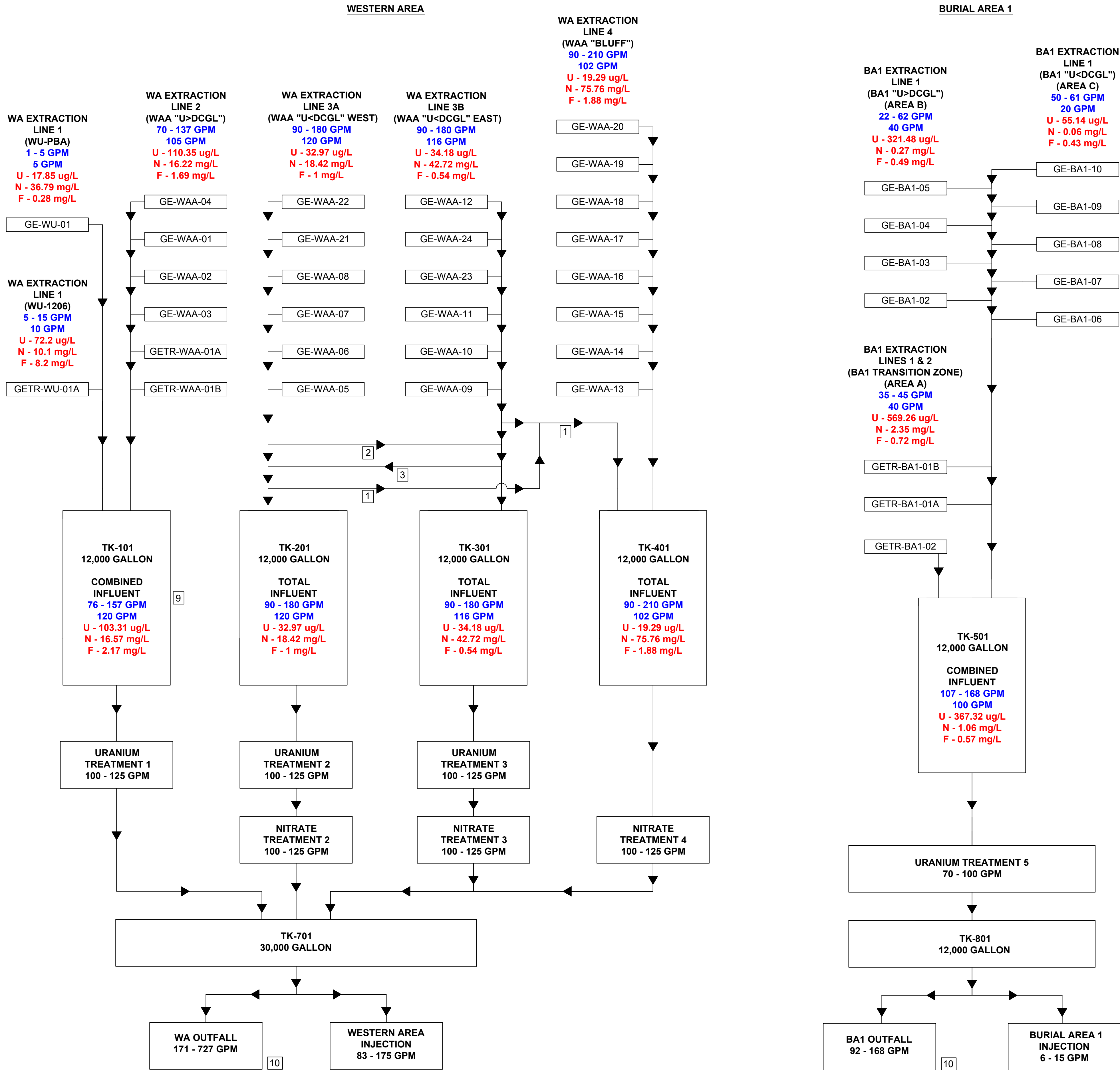


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NOTES:

- IF THE URANIUM CONCENTRATION IN THE WAA "U<DCGL" EAST OR WEST INFLUENTS REACHES THE MCL BEFORE THE NITRATE CONCENTRATION REACHES THE MCL, THE EXTRACTION RATE FOR WAA "U<DCGL" EAST AND/OR WEST CAN BE INCREASED ABOVE 125 GPM, WITH THE EXCESS FLOW DIVERTED TO NITRATE TREATMENT UNIT 4. THE EXTRACTION RATE FOR THE WAA "BLUFF" AREA WILL BE REDUCED TO ACCOMODATE THE ADDITIONAL FLOW.
- IN THE EVENT THE COMBINED INFLUENT FOR WAA "U<DCGL" EAST NO LONGER REQUIRES TREATMENT (SEE NOTE 6 BELOW), THE EXTRACTION RATE FOR WAA "U<DCGL" WEST WILL BE INCREASED ABOVE 125 GPM, WITH THE EXCESS FLOW DIVERTED TO THE WAA "U<DCGL" EAST TREATMENT SYSTEM.
- IN THE EVENT THE COMBINED INFLUENT FOR WAA "U<DCGL" WEST NO LONGER REQUIRES TREATMENT (SEE NOTE 6 BELOW), THE EXTRACTION RATE FOR WAA "U<DCGL" EAST WILL BE INCREASED ABOVE 125 GPM, WITH THE EXCESS FLOW DIVERTED TO THE WAA "U<DCGL" WEST TREATMENT SYSTEM.
- GETR-BA1-02 WILL DISCHARGE THROUGH A DEDICATED LINE (BA1 EXTRACTION LINE 2).
- THIS SCHEMATIC IS CONCEPTUAL IN NATURE AND IS NOT INTENDED TO CONVEY ALL PIPING OR PROCESS COMPONENTS THAT WILL BE REQUIRED FOR PROPER SYSTEM DESIGN, CONSTRUCTION, OR OPERATION.
- INDIVIDUAL GROUNDWATER STREAMS FOR THE IDENTIFIED REMEDIATION AREAS (WU-PBA/1206 [COMBINED], WAA "U>DCGL", WAA "U<DCGL" WEST, WAA "U<DCGL" EAST, WAA "BLUFF", AND BA1 [COMBINED] WILL BE MONITORED AND THE TREATMENT SYSTEM ASSOCIATED WITH EACH OF THESE WILL CONTINUE TO OPERATE (I.E., WILL NOT BE BYPASSED) UNTIL THE INFLUENT CONSISTENTLY REMAINS BELOW THE MCL FOR SITE CONTAMINANTS OF CONCERN (URANIUM, NITRATE, AND FLUORIDE). REFER TO 60% WATER TREATMENT DESIGN PLANS AND SPECIFICATIONS (KUR-ENVIO1-001) FOR TREATMENT UNIT BYPASS PIPING AND OTHER SYSTEM PROCESS DETAILS.
- SOME TREATMENT SYSTEMS WILL ACCEPT GROUNDWATER FROM MULTIPLE REMEDIATION AREAS. FOR EXAMPLE, URANIUM TREATMENT UNIT 1 WILL TREAT GROUNDWATER FROM WU-1206 AND WU-PBA (COMBINED) AND WAA "U>DCGL". IF UNDER THIS SCENARIO, GROUNDWATER COC CONCENTRATIONS FOR ONE OR MORE INFLUENT STREAMS ASSOCIATED WITH AN INDIVIDUAL REMEDIATION AREA FALL BELOW THE MCLs, THE GROUNDWATER STREAM ASSOCIATED WITH THIS REMEDIATION AREA MAY BYPASS TREATMENT. IF SUCH A BYPASS RESULTS IN A SIGNIFICANT DECREASE IN THE COMBINED TREATMENT SYSTEM INFLUENT FLOW RATE, THE TREATMENT SYSTEM MAY BE DOWNSIZED. REFER TO 60% WATER TREATMENT DESIGN PLANS AND SPECIFICATIONS (KUR-ENVIO1-001) FOR TREATMENT UNIT BYPASS PIPING AND OTHER SYSTEM PROCESS DETAILS.
- THE EXTRACTION FLOW RATE RANGE AND NOMINAL FLOW RATES FOR EACH LINE ARE DENOTED IN BLUE IN GALLONS PER MINUTE (GPM), AND THE AVERAGE URANIUM (U), NITRATE (N) AND FLUORIDE (F) CONCENTRATIONS FOR EACH LINE ARE SHOWN IN RED IN MICROGRAMS PER LITER (ug/L) OR MILLIGRAMS PER LITER (mg/L).
- THE ELEVATED WA EXTRACTION LINE 1 / LINE 2 INFLUENT NITRATE CONCENTRATION (>10 mg/L) IS PREDOMINANTLY ATTRIBUTED TO NITRATE CONCENTRATION DATA FOR THREE MONITORING WELLS (T-62, T-65, MWWA-09) LOCATED IN AREAS THAT ARE NOT EXPECTED TO CONTRIBUTE SIGNIFICANTLY TO THE COMBINED VOLUMETRIC GROUNDWATER EXTRACTION RATE ASSOCIATED WITH THE WAA "U>DCGL" AREA. IN ADDITION, WELL FIELD OPERATIONAL PARAMETERS FOR THIS AREA CAN BE CONTROLLED TO MAINTAIN INFLUENT NITRATE CONCENTRATIONS BELOW THE MCL.
- MINIMUM OUTFALL DISCHARGES ASSUME MINIMUM GROUNDWATER EXTRACTION RATES FOR ALL WELLS/TRENCHES AND MAXIMUM TREATED WATER INJECTION RATES FOR ALL WELLS/TRENCHES. MAXIMUM OUTFALL DISCHARGES ASSUME BYPASS OF TREATMENT (I.E. TREATMENT SYSTEM CAPACITY LIMITS DO NOT APPLY), MAXIMUM GROUNDWATER EXTRACTION RATES FOR ALL WELLS/TRENCHES, AND NO TREATED WATER INJECTION.



Figure 8-3
WELL FIELD & WATER
TREATMENT LINE DIAGRAM
DECOMMISSIONING PLAN
CIMARRON SITE, OKLAHOMA