

Client: Warrumbungle Shire Council
Project Number: P-WMA1334

Green = completed
 Purple = not completed
 Yellow = Comments not yet supplied by Council

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	HOLD	Week 9	Week 10	Week 11	Week 12	Week 13	DPI	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	
PART A - PRELIMINARY INVESTIGATIONS, DESIGN BASIS AND OPTIONS ASSESSMENT																								
Task A1: Inception Meeting	Inception Meeting																							
Task A2: Review of previous studies and documentation	Task A2.1: Propose locations for coagulation/oxidation dosing																							
	Task A2.2: Identify issues (if any) with raw water blending																							
	Task A2.3: Determine required capacity and dosing rate of new chlorine system																							
	Task A2.4: Review the current status of the reservoirs/CWT																							
	Task A2.5: Review reticulation design and storage to identify opportunities for improved network residuals																							
	Task A2.6: Review existing chlorine dosing system at Coolabah reservoir																							
	Task 2.7: Review existing monitoring scheme and instrumentation																							
	Task 2.8: Review water quality of emergency bores & alternate river off take to determine suitability																							
	Task 2.9: Review and update CCPs based on previous recommendations																							
Task A3: Complete site inspection	Site inspection (inc travel to and from site at half rate) - approx 8 hrs on site																							
Task A4: Update existing P&IDs	Task A4.1: Update P&IDs for WTP																							
	Task A4.2: Update P&IDs for reticulation system (note: agreed budget used to draft AutoCAD copies of original P&IDs)																							
Task A5: Preliminary Hazard Analysis (PHA)	Task A5.1: PHA Workshop (teleconference)																							
	Task A5.2: Draft PHA report (note: a combined report was submitted with the Site Constraint Report)																							
	CLIENT REVIEW - 1 WEEK																							
	Task A5.3: Final PHA report																							
Task A6: Site Constraint Report	Task A6.4: Develop Project Risk Management Plan (PRMP)																							
	Task A6.1: Draft report to summarise Tasks A2-A5																							
	CLIENT REVIEW - 1 WEEK																							
Task A7: Design Basis and Options Assessment Report	Task A6.2: Final Site Constraint Report																							
	Task A7.1: Review of water quality and capacity data																							
	Task A7.2: Produce process design envelope																							
	Task A7.3: Design criteria for each process unit																							
	Task A7.4: Options summary																							
	Task A7.5: Draft Design Basis and Options Assessment Report																							
	Task A7.6: Design Basis/Options Assessment Workshop (teleconference)																							
	CLIENT REVIEW - 1 WEEK																							
Task A7.7: Final Report																								
Task A7.8: Update PRMP																								
PART B - CONCEPT DESIGN																								
Task B1: Process Design	Task B1.1: Process equipment sizing																							
	Task B1.2: Utilities requirement																							
	Task B1.3: Process flow diagram + mass and flow balance																							
	Task B1.4: P&IDs																							
	Task B1.5: Hydraulic profile																							
	Task B1.6: Operation and control philosophy																							
Task B2: Civil, Structural and Mechanical Design	Task B2.1: GA drawings for equipment																							
	Task B2.2: Preliminary selection of key process equipment																							
	Task B2.3: Preliminary foundation design																							
	Task B2.4: GA drawings for pipework (above/underground)																							
Task B3: Electrical and SCADA Data	Task B3.1: Site single line diagram																							
	Task B3.2: Motor and instrumentation list																							
	Task B3.3: Control and telemetry architecture																							
	Task B3.4: Power upgrades requirements																							
	Task B3.5: Requirement for standby generator																							
	Task B3.6: Control/alarms/communication philosophy																							
Task B4: Cost Estimate (±20%)	Capital and O&M cost estimates + NPV																							
Task B5: Concept Design	Task B5.1: 80% draft design drawings																							
	CLIENT REVIEW - 1 WEEK																							
Drawings (scoped in other subtasks)	Task B5.2: Issued for tender design drawings																							
Task B6: Concept Design Report	Task B6.1: Draft Concept Design Report																							
	Task B6.2: Concept Design Workshop																							
	CLIENT REVIEW - 1 WEEK																							
	Task B6.3: Final Concept Design Report																							
Task B7: Safety in Design Assessment	Tasks B6.4: Update PRMP																							
	Task B7.1: Create/maintain Designer Risk Register																							
Task B8: Project approval	Rask B7.2: Safety in Design Assessment meeting																							
	Gather project approval documents																							
PART C - D&C CONTRACT DOCUMENTATION																								

