HYBRID EARLY CONTRACTOR TENDERER INVOLVEMENT CONTRACT
The Program

- $100M - 8 PWTP/WWTP’s
- Supporting Trunk Infrastructure
- 4 SPS’s, 40km Pipelines, Reservoir
- Other Infrastructure
- 20ha Golf Course Irrigation
- 12ha Hazardous Waste Storage Dams
Presentation Structure

- Background
- WDRC’s Traditional Project Delivery Model
- Problems / Learnings / Solution
- Outline of the HECTIC Process & Outcomes
- Conclusion
Background

- Surat Basin - Insane Population Growth
- Miles
- Minimise Time taken to deliver infrastructure
- Original HECTIC Driver - Other Benefits
WDRC’ Traditional Project Deliver Model

- Reference Design & Tender Documents
- Publicly Advertised Tenders
- Design and Contract
Outline of HECTIC Process

- Asset Owner, Operator, Maintenance Provider, 2 x Construction Contractors (& Design Partners)
- 30% Design Prepared By Group - 7 Design Workshops
- Contractors Tender on 30% Design
- Lump Sum, Fixed Price D&C
HECTIC Outcome 1-Increased Clarity In Scope

- WDRC’s TPDM - Significant Interpretation
- Miles WWTP - TPDM
- Council’s 7 Page Design Brief
- Consultants 97 Page Design Submission
- Consultants 642 Page Tender Document
- Contractors 670 Page Tender Submission
- Principal’s 956 Page Compiled Contract
- End Result - Opportunity for Misinterpretation
By comparison - HECTIC Model

- 30% Design Developed in Workshops
- Contractors Questions Are Raised & Answered
- End Result - Less Interpretation > Increased Clarity
HECTIC Outcome 2- Increased Functionality

- Miles WWTP (TPDM)
- Recycled Water - Constant Pressure / Variable Flow - Interpretation - Fixed Speed Pumps 😞
- HECTIC 30% Design Developed in Workshops
- Asset Owner, Operator, Maintenance Provider & Contractor
- Chinchilla WWTP Decanter & Changing Aqua Blades 😊
HECTIC Outcome 3- Improved Risk Allocation

- WDRC’s TPDM Contract Prepared by Consultant
- Wandoan WWTP - TPDM Issue Practical Completion
- HECTIC Risks Identified in Workshops
- Risks Apportionment
- Management of Uncontrollable Risk - Cost
HECTIC Outcome 4- Stronger Relationships

- Principal - Superintendent - Contractor
- WDRC’s TPDM - Compulsory Tenderer Site Inspection
- Miles Pipelines Contract - TPDM - No Relationship
- HECTIC
- 7 Design Workshops
- Strong Relationships
- When Things Go Wrong
20km & 2 regional pump stations
Matthew Sullivan, 25/09/2015
HECTIC Outcome 5 - Lower Contractor Risk

- When you combine:
  - Increased Clarity in Scope
  - Improved Risk Allocation
  - Strong Relationships
  - LOWER CONTRACTOR RISK
  - Risk Is Priced Into Tender
  - Lower Risk - Lower Tendered Price
HECTIC Outcome 6 - Innovation

- WDRC’s TPDM - Reference Design By Consultant
- Allows Apples with Apples Comparison
- More Detailed the Design/ Less Room for Innovation
- HECTIC
- Start with Concept
- No Predetermined Solution
- Encourage Innovation
- Chinchilla WWTP
HECTIC Outcome 7 - Time

- TPDM - Tara RO WTP
- 32 months from Concept to Commissioning
- HECTIC - Miles RO WTP
- 19 months from Concept to Commissioning
- 41% Reduction in Time
HECTIC Outcome 8 - Lower Project Costs

- HECTIC Provides:
  - Less Risk & Increased Clarity in Scope
  - Lower Tendered Prices
  - Less Variations
  - Less Administrative Time
  - Design & Contract Administration & Project Management
  - < 4% of Project Value
  - All Combined for Lower Project Cost
Conclusion - HECTIC

- 40% Reduction in Deliver Time
- Reduction Overall Project Costs
- Improved Functionality
- Simple Design Principals to Complex Design
THE END

QUESTIONS