



Long Beach **Water**

Exceptional Water • Exceptional Service

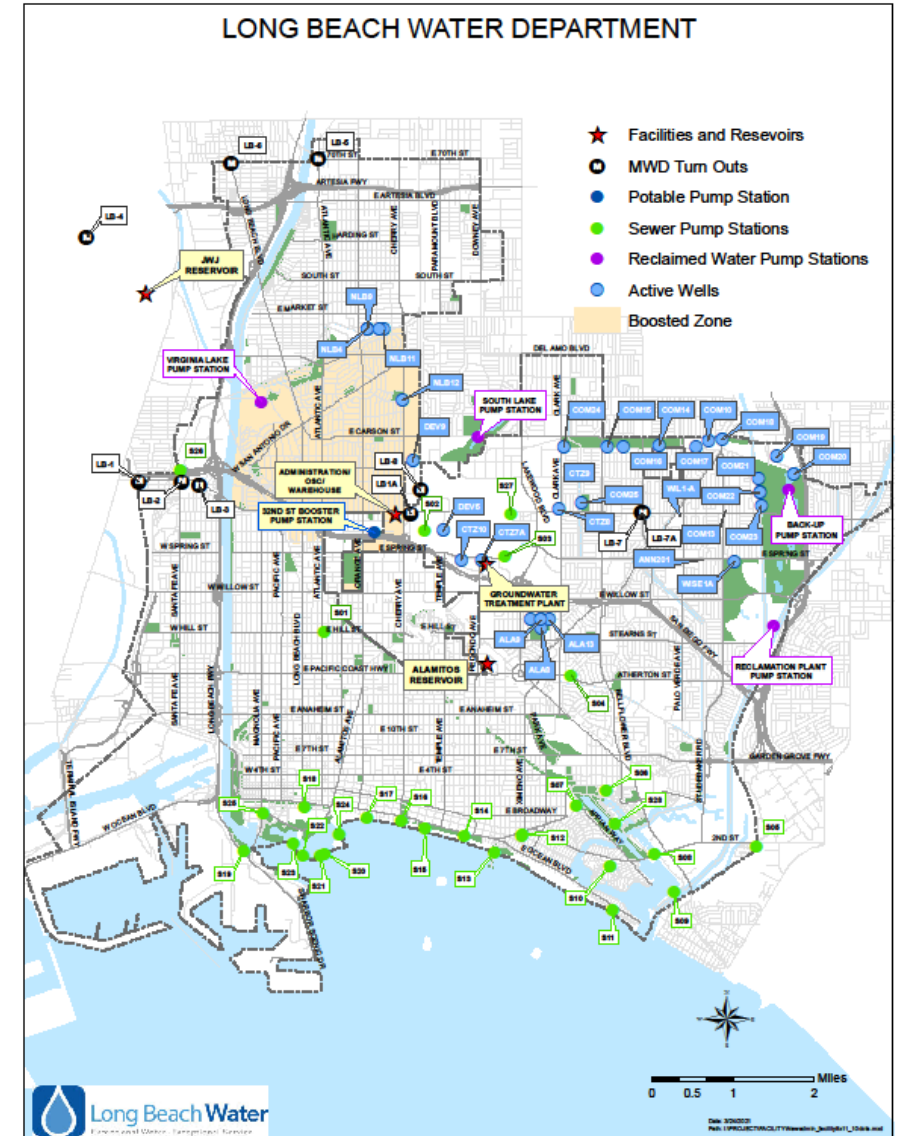
SCADA Support Services

Board of Water Commissioners

April 15, 2021

Project Background

- LBWD Supervisory Control and Data Acquisition (SCADA) System
 - Monitor and control of all facilities
 - Groundwater Treatment Plant
 - 76 Remote facilities
 - 90 programmable logic controllers (PLCs), 2 Control Centers
 - Specialized expertise needed to maintain the system
 - Hardware
 - Software
 - Communication networks
 - Old and new technologies coexist



Project Background

- Ongoing SCADA Upgrade Program
 - 10-year multi-phase program

Phases	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Phase I (infrastructure and pilot sites)	■	■	■	■							
Phase IIA (Treatment Plant-chemical and sludge removal)				■	■						
Phase IIB (Treatment Plant-filtration and pumping)						■	■				
Phase III (Sewer Stations/Reservoirs)							■	■	■		
Phase IV (Wells/MWD turnouts/Recycle water system)									■	■	■
Remaining communication Infrastructure					■	■	■	■	■	■	■



RFP Scope

- Technical and field support to maintain and troubleshoot existing system
 - 24/7 support
 - SCADA hardware, software, network systems
 - Radio and microwave communication systems including SCADA, voice and mobile radios, control centers, etc.
- Engineering and technical integration support
 - Ongoing SCADA Upgrade Program
 - Ongoing Engineering facility capital improvement projects (CIP)
 - As needed integration support



RFP Timeline and Evaluation

- RFP posted on 2/23/21, due 3/16/21
- 3 vendors submitted proposals

	Systems Integrated	Mitra Automation	Enterprise Automation
Consultant Expertise & Experience	3	1	1
Past Performance	2	1	2
Work Methodology	3	1	1
Reasonableness of Fee	2	1	3
Overall Ranking	3	1	2



Cost

- SCADA Upgrade Budget

Phases	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Phase I (infrastructure and pilot sites)	\$	1,865,094									
Phase IIA (Treatment Plant-chemical and sludge removal)					\$ 598,419						
Phase IIB (Treatment Plant-filtration and pumping)						\$ 635,340					
Phase III (Sewer Stations/Reservoirs)								\$ 1,663,108			
Phase IV (Wells/MWD turnouts/Recycle water system)										\$ 2,247,859	
Remaining communication Infrastructure					\$						265,875

- Proposal Cost

	Systems Integrated	Mitra Automation	Enterprise Automation
3 yr total	\$ 1,350,000	\$ 750,000	\$ 1,515,000



Award Recommendation

- Recommendation
 - Adopt Request for Proposal for SCADA and Radio Communication Network Support Services and authorize the General Manager to enter into a contract with Mitra Automation Inc. to provide SCADA and radio communication network services in an amount not to exceed \$750,000 for a period of three years.





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