



Appendix A. Overall Research Program Funding Sources and the Status of the Research Activities

City of Glendale, California

Implementation Phase/ Cost	Objective	Participants/ Financial Partners
Phase I Bench Study \$400,000 (completed)	<ul style="list-style-type: none"> • Investigate chromium redox chemistry • Screen technologies at bench-scale • Evaluate national chromium occurrence 	<i>Project Management: LADWP/WaterRF</i> Los Angeles Dept. of Water and Power (LADWP) Water Research Foundation (WaterRF) City of Glendale, California City of Burbank, California City of San Fernando, California National Water Research Institute
Phase II Pilot Study \$750,000 (completed)	<ul style="list-style-type: none"> • Test mature industrial technologies and best bench study performers • Evaluate long term column performance • Estimate treatment costs 	<i>Project Management: Glendale</i> City of Glendale, California U.S. Environmental Protection Agency (USEPA)
Phase III Bridge and Demonstration Study \$4.45 Million (completed)	<ul style="list-style-type: none"> • Identify Weak Base Anion Exchange (WBA) mechanism • Construct and operate demonstration facilities • Evaluate residuals handling and disposal • Assess operational needs • Confirm and further develop treatment costs 	<i>Project Management: Glendale</i> City of Glendale, California USEPA Association of California Water Agencies (ACWA) Water Research Foundation California Dept. of Public Health (CDPH)/ California Dept. of Water Resources (DWR) Proposition 50 Local industry
Phase IIIA Operate Demonstration Facilities and Microfiltration Pilot Testing (MF) \$2.5 Million (close out activities)	<ul style="list-style-type: none"> • Operate demonstration facilities • Operate MF pilot facilities • Evaluate Reduction-Coagulation-Filtration (RCF) treatment performance with MF • Develop design criteria for MF in the RCF process • Interim Report and cost update to CDPH • Project Report to CDPH 	<i>Project Management: Glendale</i> USEPA City of Glendale, California Water Research Foundation CDPH/DWR Proposition 50 Local Industry US Bureau of Reclamation Metropolitan Water District of Southern California
Phase IIIB Resin/Media Pilot Testing \$600,000 (underway)	<ul style="list-style-type: none"> • Test promising WBA resins & two adsorptive media • Compare technology effectiveness in two water qualities (Glendale and Livermore, California) • Project report • Supplemental Project Report 	<i>Project Management: Glendale and California Water Service Company</i> City of Glendale, California California Water Service Company Water Research Foundation DWR/CDPH Proposition 50 North American Höganäs