

LAS VEGAS VALLEY WATERSHED ADVISORY COMMITTEE
REGIONAL WATER QUALITY PLAN



Lake Mead, Nevada

2009

Las Vegas Valley Watershed Advisory Committee

Regional Water Quality Plan

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- In 2007, an agreement was approved among nine local agencies to form the Las Vegas Valley Watershed Advisory Committee (LVVWAC).
- The LVVWAC was formed to coordinate efforts related to water quality and watershed protection throughout the Las Vegas Valley.
- In addition, the LVVWAC assumed the functions of the Las Vegas Wash Management Advisory Committee (MAC).



LVVWAC Membership

City of Henderson

City of Las Vegas

City of North Las Vegas

Clean Water Coalition

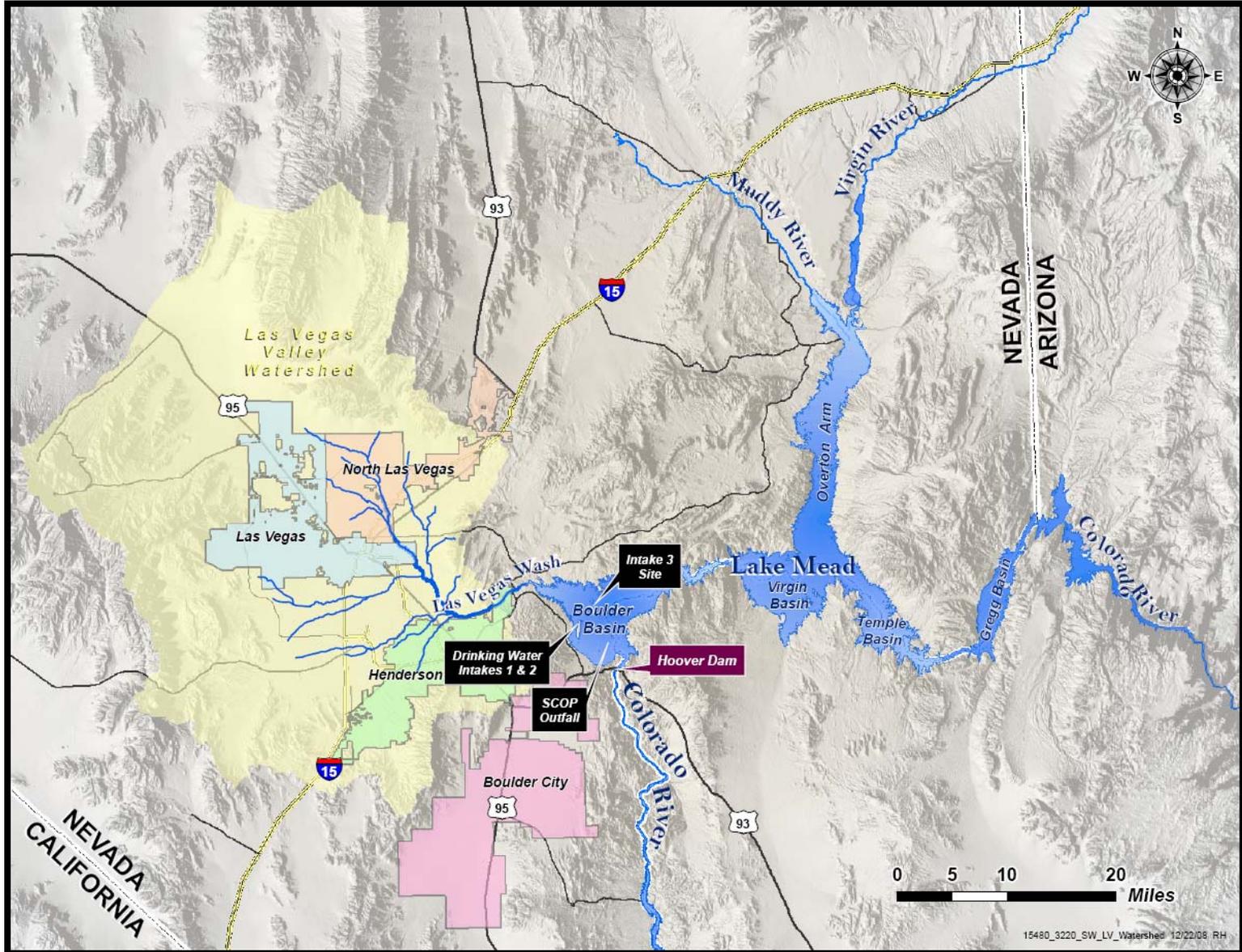
Clark County

Clark County Regional Flood Control District

Clark County Water Reclamation District

Las Vegas Valley Water District

Southern Nevada Water Authority





- The LVVWAC provides a forum to coordinate the efforts of all existing water and wastewater-related committees and efforts including:
 - Las Vegas Wash Coordination Committee
 - Boulder Basin Adaptive Management Plan
 - Lake Mead Water Quality Forum
 - Sewage and Wastewater Advisory Committee
 - Stormwater Quality Management Committee
- The LVVWAC also coordinates the efforts of water and wastewater treatment plant operators to manage water quality as it relates to intakes from and discharges to Lake Mead.

The title slide features a background image of a large concrete dam with multiple spillways, situated in a dry, hilly landscape under a clear blue sky. The title "Regional Water Quality Plan" is overlaid in a large, bold, black sans-serif font.

Regional Water Quality Plan

- The Regional Water Quality Plan represents the work of the committee to coordinate all existing plans, policies, documents and efforts related to water quality in the Las Vegas Valley watershed and Lake Mead.
- The Plan includes the water quality goals and strategies developed by the LVVWAC and each regional agencies Operating Plan will provide implementation plans for achieving these goals.



Mission

Protect, preserve and enhance the quality and quantity of water resources in the Las Vegas Valley watershed to sustain economic wellbeing and protect the environment for present and future generations.



Goal 1

Protect Lake Mead as a source of water for Southern Nevada and downstream users.

Strategies

- Monitor and respond to upstream inflows to Lake Mead — TCD, Lake Powell Pipeline, Muddy River discharge, SCOP
- Manage non-point sources from the Las Vegas valley — Stormwater, Conservation, ECS, SE Management Plan
- Manage the operations and facilities of the Systems Conveyance and Operations Program (SCOP) — BBAMP Management Tool, CMT
- Manage, coordinate and optimize water reclamation facilities — Coordinate Ops, Optimization, Operating Plans, Research



Goal 2

Meet or surpass federal, state and local standards and regulations.

Strategies

- Endeavor to protect Lake Mead, the Las Vegas Wash and associated tributaries to meet or surpass environmental quality standards
 - SCOP Ops, Coordinated Flow – Wash, SCOP, Drinking Water Intakes
- Continue to ensure drinking water standards are met or surpassed – Monitor, Research, WQ out of Hoover Dam, Optimization, Disinfection



Goal 3

Preserve and enhance the natural, cultural, historic and recreational values of the watershed and Lake Mead.

Strategies

- **Manage wildlife and habitats** — Coordinate Wildlife and Habitat Management, Share Studies, Maintain Wash as Wastewater Conduit, Support Wash Habitat
- **Minimize impacts to cultural and historic values**
 - Impacts to Cultural Resources, Mitigate Lost Values
- **Endeavor to prevent and control invasive species**
 - Monitor Quagga Mussels, Use LV Wash Weed Partnership and 100th Meridian, Research on Control
- **Support recreational uses and the health of fisheries and other water dependent wildlife.**
 - Manage Nutrients for Fishery, Meet Full Body Contact Standards, Research Effects of Contaminants



Goal 4

Coordinate water resource management.

Strategies

- Balance ecosystem, flows and other functions of the Las Vegas Wash and Lake Mead
 - Balance Flows in Wash and Boulder Basin, Prevent Future Erosion in Wash
- Optimize use of recycled water
 - Adopt Recycling Policy, Implement SN Water Recycling Study, Continue Recycling
- Ensure the development of and compliance with the Clark County 208 Water Quality Management Plan
 - Coordinate Regional Water Quality Planning and Management Efforts



Goal 5

Manage flood risks.

Strategy

- Minimize the loss of life and property from the impacts of flooding
 - Update and Prepare Master Plan, Identify Future Flood Control Infrastructure, Monitor Rainfall, Maintain Floodplain Development Ordinances, Public Education



Goal 6

Sustain water and energy resources for future generations.

Strategies

- Optimize use of renewable energy
 - Seek and Share Renewable Energy Regionally, Develop Goals, Implement Hydropower and Energy Recovery
- Consider the net environmental benefit
 - Balance Natural Resources and Environmental Impacts, Standardize Carbon Footprint, Establish Environmental Impact Baseline
- Enhance energy and water conservation programs
 - Annual Reviews of Consumption, Methods to Reduce Consumption, Develop Sustainability Plan, Support Water and Energy Conservation, Inventory Energy Resources



Goal 7

Build community awareness and support for regional watershed management.

Strategies

- Develop communication and education programs
 - Identify Communication Tools, Coordinate Education Programs
- Integrate existing stakeholder programs to specifically address watershed issues
 - Opportunities for Stakeholder Input, Utilize Stakeholder Groups, Inform Employees



Policy Recommendation

- The Plan also presents areas where policy issues regarding emerging water quality issues will require future consideration.
- *Candidate Policy Recommendations*, which require further consideration and may warrant policy development in the future, include the following topics:
 - Water Resources
 - Environmental Resources
 - Public Outreach
 - Operations



- LVVWAC regional member agencies (Clean Water Coalition, Clark County Regional Flood Control District and Southern Nevada Water Authority) will begin developing an Annual Operating Plan that outlines agency-specific actions to meet the goals set forth in the Regional Water Quality Plan.