



# 2015 Las Vegas Wash Capital Improvements Plan

Southern Nevada Water Authority  
July 16, 2015



# **Las Vegas Wash Capital Improvements Plan**

**July 16, 2015**



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# **Las Vegas Wash**

## **Capital Improvements Plan**

### **1.0 Introduction**

#### **1.1 Purpose**

The Lower Las Vegas Wash (Wash), in Clark County, Nevada, is the primary urban runoff, wastewater and floodwater outlet from the Las Vegas Valley into Lake Mead and the Colorado River. The Wash is considered a critical component in the many environmental and water resource issues facing Southern Nevada today. This Southern Nevada Water Authority Las Vegas Wash Capital Improvements Plan (Wash CIP) presents a summary of planned capital expense activities necessary to support long-term enhancement and management of the Wash.

#### **1.2 Background**

Since 1975, the Wash has undergone significant erosion and degradation due to increasing flows resulting from expanding upstream urbanization in the Las Vegas Valley. To combat the changes in the Wash, the Las Vegas Wash Coordination Committee (LVWCC), a 29-member interagency group of federal, state, and local agencies, and private interests, was formed and has developed a Comprehensive Adaptive Management Plan (CAMP). The Southern Nevada Water Authority (SNWA) Board of Directors approved the CAMP in April 2000.

Of 44 recommendations, the CAMP identifies erosion control and stream stabilization of the Wash as one of the highest recommended priority efforts. To accomplish this goal, in 2002, a Cooperative Agreement was signed between the local government agencies considered major stakeholders in the Wash. In 2012, the Cooperative Agreement was amended and retitled as the “First Amended Agreement Regarding the Las Vegas Valley Watershed Advisory Committee” (Amended Agreement). As described in the Amended Agreement, the SNWA has been designated by the members of the Las Vegas Valley Watershed Advisory Committee (LVVWAC), as the lead agency to coordinate and manage the enhancement of the Wash. Among many assigned tasks, the SNWA is responsible for maintaining this Wash CIP.

The Amended Agreement establishes the LVVWAC to provide advice and consultation to SNWA on issues regarding this Wash CIP. Local government agency members of the LVVWAC include:

- City of Las Vegas
- City of Henderson
- City of North Las Vegas
- Clark County
- Las Vegas Valley Water District
- Clark County Water Reclamation District
- Clark County Regional Flood Control District
- Southern Nevada Water Authority

## **2.0 Plan Scope**

### **2.1 General Scope**

This Wash CIP covers the geographical area of the Wash from the City of Las Vegas Wastewater Treatment Plant to the western boundary of the Lake Mead National Recreational Area. The Wash CIP is intended to describe all presently identified construction and construction support projects supporting the management and enhancement of the Wash. Project elements included in this Wash CIP include:

- Channel bed and bank stabilization;
- Revegetation; and
- Comprehensive programs.

The purpose of channel bed stabilization is to reduce channel bed erosion by slowing stream flow to less erosive conditions while providing a stable platform for vegetation re-establishment. Gradient control weirs or dams are planned for installation to accomplish the stabilization needs. Channel bank protection installations are planned to be completed as a part of channel bed stabilization projects, and focus on reducing the ability of Wash flows to undercut, erode and collapse channel banks. Capital expenditures for bank protection will include installation of rock or concrete riprap armor and revegetation of stream banks, where appropriate.

Revegetation of the Wash channel bed, banks, disturbed overbank locations and floodplain areas will provide surface erosion protection, aid ecosystem restoration, support water quality goals and meet environmental permitting requirements. Revegetation activities may include wetlands or dry land revegetation, installation of temporary irrigation systems and establishment of vegetation protection measures.

Comprehensive programs include design and support activities serving multiple capital projects or the Wash as a whole. Activities under this element may include acquisition of rock and concrete materials for use as riprap, installation of construction access roads, location of materials storage sites, long term dust control practices, sediment and sediment transport studies, hydraulic studies, topographic mapping, water quality monitoring, stream gauging, and other supporting capital expense activities which are necessary to support construction efforts.

## **2.2 Facility Information**

The following information pertaining to specific facilities is presented in this Wash CIP:

- General description and location of each planned facility;
- Anticipated construction schedules;
- Estimated cost of each proposed facility;
- Proposed funding mechanism(s) for each facility in the Work Plan;
- Total projected Wash CIP cost in current and midpoint dollars;
- Cash flow forecasts by year; and
- A list of SNWA operated and maintained facilities.

## **3.0 Organization**

General information regarding the background, scope, approval process, current revenues, anticipated expenditures, prioritization, and funded Project Work Plan are presented in this Wash CIP report. Specific details defining anticipated projects, project costs, implementation schedules, prioritization analysis, and other information are included as appendices to this Wash CIP.

All identified, individual projects requiring expenditure of capital funds are described in the appendix as Candidate Projects to this Wash CIP. A unique project number and

letter designation and a location name describe each project. Channel bank protection and revegetation projects are named and project numbers are assigned with a letter designation which conforms to the name of the next downstream channel bed stabilization facility to which they are associated.

## **4.0 Plan Implementation**

### **4.1 Cooperative Agreement**

In 2002, SNWA entered into a Cooperative Agreement pertaining to the long-term management and enhancement of the Wash with Clark County, City of Las Vegas, City of Henderson, City of North Las Vegas, Clark County Water Reclamation District, and Clark County Regional Flood Control District. The current Amended Agreement establishes roles and responsibilities for the above agencies in managing the Wash. The development, review, and update of this Wash CIP are identified in the Amended Agreement as a responsibility of the SNWA. The Amended Agreement further defines the contents of the Wash CIP as presented herein.

### **4.2 Annual Plan Review**

The SNWA annually reviews, reaffirms, or revises the Wash CIP, as necessary to meet the goals and requirements of the Amended Agreement. In performing the annual review, the SNWA consults with the local agency stakeholders to the Wash through the Operations Study Team of the LVWCC and through the LVVWAC.

SNWA's consultation with local agency stakeholders and revisions to the Wash CIP focus upon current changes in priority, planning, design, cost, funding, and/or capital needs associated with the elements of the Wash CIP. Revisions to the Wash CIP reflect the elimination of capital items previously completed or revisions proposed by a party to the Amended Agreement and agreed to by the LVVWAC.

Upon revision by SNWA and approval by the LVVWAC, the annual Wash CIP update is submitted to the SNWA Board of Directors for review and action.



### 4.3 Funding Approval

As appropriate, SNWA prepares and submits Wash CIP funding agreements to the LVVWAC for review. Funding agreements prepared and submitted by SNWA may also define the process whereby entities other than the parties to the Amended Agreement may either fund or contribute to the Wash CIP.

Subsequent to the LVVWAC's review of funding agreements, SNWA submits the funding agreements to each of the local governmental agencies comprising the LVVWAC for consideration and possible approval by their respective Governing Boards as a part of the individual Party's overall budgeting process.

## 5.0 Funding and Expenditures

### 5.1 Funding-To-Date

**Sales Tax and Grant Funding:** The Wash CIP has been partially funded through receipt of local sales tax revenues. The Wash currently receives four percent (4%) of a ¼ cent sales tax allocated for funding water and wastewater projects in Clark County. The Wash has also received capital grant funding commitments from the Southern Nevada Public Lands Management Act (SNPLMA), for current and future projects.

**Other Local Agency Funding:** In addition to local sales tax revenues and SNPLMA grants, the Wash CIP has received funding or funding commitments from other local agencies through in-kind construction activities or direct funding to SNWA.

**Interfund Loans:** Periodically, projected, near-term capital expenses for construction of stabilization facilities in the Wash will exceed available cash on hand generated from sales tax and grant funding. In these cases, the Wash CIP will borrow money from SNWA's New Expansion Debt Service fund accounts, as available.

Funding and funding sources to-date are shown in Table 1 below:

**Table 1**  
**Funding-to-Date**  
**1999 – 2014**

| <b>Funding Source</b>   | <b>Estimated<br/>Funding-to-Date</b> | <b>%</b>     |
|---|--------------------------------------|--------------|
| Sales Tax & Interest (Includes Actuals through December 2014) | \$ 47,894,246                        | 34.9         |
| US Bureau of Reclamation Grants                               | \$ 5,979,224                         | 4.3          |
| SNPLMA Funding  | \$ 39,764,927                        | 29.0         |
| Miscellaneous State and Federal Grants                        | \$ 445,500                           | 0.3          |
| Other Local Agency Funding                                    | \$ 14,460,000                        | 10.5         |
| Interfund Borrowings  | \$ 28,768,611                        | 21.0         |
| <b>Total:</b>   | <b>\$ 137,312,508</b>                | <b>100.0</b> |

## **5.2 Expenditures**

### **5.2.1 Expenditures-To-Date**

From 1999 through December 2014, Wash CIP total expenditures have been as shown in Table 2 below. These expenditures include contributions by other stakeholder agencies for capital improvements to the Wash.

Other stakeholder agency expenditures have included: Clark County, design and construction of the Pabco Road Weir at approximately \$4,700,000; Lake Las Vegas Resort, design and construction of the Fire Station Weir at approximately \$63,000; SNWA Water CIP, design and construction of the Rainbow Gardens Weir as part of the East Valley Water Lateral crossing of the Wash, at approximately \$7,238,000; and US Bureau of Reclamation construction activities.

Expenditures include repayment with interest, of funds borrowed from the New Expansion Debt Service fund account.

Capital construction expenditures to-date are shown in Table 2 below:

**Table 2**  
**Total Expenditures-to-Date**  
**1999 - 2014**

| <b>Program</b>                          | <b>Total Expenditures-to-Date</b> | <b>%</b>     |
|---|-----------------------------------|--------------|
| Channel Stabilization                   | \$ 103,496,882                    | 74.7         |
| Revegetation                            | \$ 1,918,018                      | 1.4          |
| Comprehensive Programs                  | \$ 8 302,997                      | 6.0          |
| Interfund Borrowing Repayments          | \$ 24,019,308                     | 17.3         |
| Interfund Borrowing Interest Repayments | \$ 852,575                        | 0.6          |
| <b>Total:</b>                           | <b>\$ 138,589,780</b>             | <b>100.0</b> |

### 5.2.2 Future Expenditures

Current projections of future capital expenditures for the Wash CIP are detailed in the Construction Program Master Plan shown in Appendix C. Projected expenditures are shown in both current dollars and projected expenses, accelerated to future construction mid-point dollar is cost, based upon an estimated current three percent (3%) annual growth. Funding commitments for individual projects will be based upon availability of funds at the time the commitment is made. Estimated capital expenditures are summarized in Table 3 below:

**Table 3**  
**Projected Expenditures**  
**2015-2019 (Present \$)**

| <b>Wash CIP Component</b>            | <b>Projected Expenditures</b> | <b>%</b>     |
|--------------------------------------|-------------------------------|--------------|
| Channel Stabilization                | \$ 23,205,530                 | 89.8         |
| Revegetation Programs                | \$ 2,010,728                  | 7.8          |
| Comprehensive Programs               | \$ 615,923                    | 2.4          |
| <b>Total Projected Expenditures:</b> | <b>\$ 25,832,181</b>          | <b>100.0</b> |

## 6.0 Priority Assessment

The Operations Study Team of the LVWCC has developed a methodology for prioritization of each proposed gradient control and bank protection capital expenditure in the Wash. Rating factors utilized in establishing proposed project priorities are described in Appendix E of this plan.

Unless otherwise noted, bank protection capital investments will occur during implementation of the next downstream gradient control facility. Where severe bank erosion is occurring, stabilization may precede downstream gradient control implementation. Revegetation investments normally follow channel bed and bank stabilization, where practical. Unless otherwise noted, revegetation projects are planned for implementation following channel stabilization projects and are not shown in a separate priority evaluation within this Wash CIP.

Over the long-term life of the Wash CIP, priorities may change as need, funding, and other issues arise. Therefore SNWA, acting through the Operations Study Team and the LVVWAC, will annually review the prioritization schedule, evaluation criteria, proposed candidate project list, and available funding to assess current priorities. A summary of the criteria applied to assess prioritization, as developed by the Operations Study Team, and as approved by the LVVWAC are as follows:

- Upstream Stability
- System Relationship
- Water Quality Enhancement
- Recreational Opportunity
- Public Safety
- Regulatory Permitting Requirements
- Access
- Cost Avoidance
- Availability of Other Funding

Detailed descriptions of these criteria are found in Appendix F of this plan.

Annually, the SNWA staff calculates priority values for each proposed project based upon the prioritization criteria outlined herein. These values and proposed project

rankings are then reviewed, discussed, and/or modified by the Operations Study Team of the LVVWAC. Project activity is then scheduled, as much as practical, to follow priority rankings described in Appendix E. Issues such as land ownership, construction conflict, potential cost savings in grouping several projects together under a single construction contract, and similar issues may cause some projects of lower priority to be scheduled for construction in conjunction with higher priority projects.

After SNWA develops a proposed project implementation schedule, the draft priority and project rankings are submitted to the Operations Study Team of the LVWCC for further review and/or modification. SNWA then publishes those findings in annual updates of the Wash CIP and submits the update to the LVVWAC and SNWA Board of Directors for review and action.

## **7.0 2015-16 Project Work Plan**

The Project Work Plan presented in Appendix A, represents a series of projects scheduled for activity during the next two years for which funding sources have been or are expected to be identified. Approximately 32 percent (32%) of the Project Work Plan will be funded through SMPLA. The remaining funding for individual capital projects will come from revenues generated from sales taxes. Funding commitments for individual projects will be based upon availability of funds at the time the commitment is made. The Project Work Plan is a sub-set of the Construction Program Master Plan detailed in Appendix C.

The Project Work Plan budget is based upon current estimates of present cost and projected actual cost, accelerated to anticipated midpoints of design and construction period activities. Project costs may change depending upon final design configuration, modified design criteria, or construction prices at the time of construction bidding. Where construction cost estimates or bids exceed expected revenues at the scheduled time of construction, a project may be delayed to a future time when revenues become available. Where expenditures are found to be less than available funding, with LVVWAC approval, additional candidate projects may be incorporated into the Project Work Plan for implementation.

## **8.0 Ownership**

The planned erosion control facilities lie within the boundaries of the Clark County Wetlands Park. Consistent with the Amended Agreement, SNWA will transfer ownership to Clark County of stabilization facilities, including channel stabilization facilities, revegetated areas, and other facilities when deemed appropriate by the SNWA and Clark County.

## **9.0 Operations and Maintenance**

In accordance with the Amended Agreement, SNWA operates and maintains Wash facilities, including channel stabilization projects and revegetated areas described in this Wash CIP and Project Work Plan until such time that ownership is transferred to Clark County.

The SNWA conducts these activities in conformance with the Operations and Maintenance Plan for the Wash. Currently, SNWA's operations and maintenance activities are financed through assessments levied to individual LVVWAC member agencies, through the utilization of Bureau of Reclamation construction grant funding or through flood control maintenance funds allocated to SNWA by Clark County.



## **Appendix A**

# **2015-16 Work Plan Budget Allocation**

**2015 Las Vegas Wash Capital Improvements Plan**  
**2015-16 WORK PLAN BUDGET ALLOCATION**

| Proj.<br>No. | Project Title   | Project<br>Start<br>Date | Project<br>Finish<br>Date | Mid-Point Cost |             |             |             |             |                       |
|--------------|---|--------------------------|---------------------------|----------------|-------------|-------------|-------------|-------------|-----------------------|
|              |   |                          |                           | 2015           | 2016        | 2017        | 2018        | 2019        | Total<br>Project Cost |
| 810S         | <u>Design</u><br>Tropicana Outfall Weir                               | 1/1/2015                 | \$42,095                  | \$75,000       |             |             |             |             | \$75,000              |
|              | <b>Design, Total:</b>   |                          |                           | \$75,000       |             |             |             |             | \$75,000              |
| 810K         | <u>Construction</u><br>Three Kids Weir                                | 1/1/2015                 | 6/30/2015                 | \$2,422,399    |             |             |             |             | \$2,422,399           |
| 810C         | Historic Lateral Weir   | 8/1/2015                 | 7/1/2017                  | \$1,457,901    | \$3,498,962 | \$874,741   |             |             | \$5,831,604           |
| 810W         | Sunrise Mountain Weir   | 8/1/2015                 | 7/1/2017                  | \$1,384,213    | \$3,322,110 | \$830,528   |             |             | \$5,536,851           |
|              | <b>Constrution, Total:</b>  |                          |                           | \$5,264,513    | \$6,821,072 | \$1,705,269 |             |             | \$13,790,854          |
| 880G         | <u>Revegetation</u><br>Up. Narrows, Duck Cr. Conf.,<br>DU No. 1 Weirs | 1/1/2015                 | 12/1/2015                 | \$236,558      | \$236,558   |             |             |             | \$473,116             |
| 880K         | Three Kids Weir   | 9/1/2015                 | 8/30/2017                 |                | \$79,346    | \$238,039   | \$158,693   |             | \$476,078             |
| 880U         | Silver Bowl Weir  | 9/1/2015                 | 8/30/2017                 |                | \$43,123    | \$129,369   | \$86,246    |             | \$258,738             |
| 880Z         | Archery Weir  | 9/1/2015                 | 8/30/2017                 |                | \$43,123    | \$129,369   | \$86,246    |             | \$258,738             |
| 880C         | Historic Lateral Weir   | 9/1/2017                 | 8/30/2019                 |                |             | \$21,389    | \$64,167    | \$42,778    | \$128,334             |
| 880W         | Sunrise Mountain Weir   | 9/1/2017                 | 8/30/2019                 |                |             | \$22,079    | \$66,237    | \$44,158    | \$132,474             |
|              | <b>Revegetation Total:</b>  |                          |                           | \$236,558      | \$402,150   | \$540,245   | \$461,589   | \$86,936    | \$1,727,478           |
| 860P         | <u>Comprehensive Programs</u><br>Emergency Flood Repair Allocation    | 1/2/2015                 | 1/1/2017                  | \$50,000       | \$50,000    |             |             |             | \$100,000             |
| 860P         | Flood Damage Repair   | 2/10/2015                | 3/11/2017                 | \$171,923      |             |             |             |             | \$171,923             |
| 860V         | BOR Materials and Equipment   | 2/10/2015                | 3/11/2017                 | \$122,000      | \$122,000   |             |             |             | \$244,000             |
|              | <b>Comprehensive, Total:</b>  |                          |                           | \$343,923      | \$172,000   |             |             |             | \$515,923             |
|              | <u>Work Plan Cost Summary</u>   |                          |                           |                |             |             |             |             |                       |
|              | <b>Design</b>   |                          |                           | \$75,000       |             |             |             |             | \$75,000              |
|              | <b>Construction</b>   |                          |                           | \$5,264,513    | \$6,821,072 | \$1,705,269 |             |             | \$13,790,854          |
|              | <b>Revegetation</b>   |                          |                           | \$236,558      | \$402,150   | \$540,245   | \$461,589   | \$86,936    | \$1,727,478           |
|              | <b>Comprehensive</b>  |                          |                           | \$343,923      | \$172,000   |             |             |             | \$515,923             |
|              | <b>Interest Expense</b>   |                          |                           | \$662,998      | \$711,637   | \$857,772   | \$947,235   | \$929,378   | \$4,109,020           |
|              | <b>Total Program:</b>   |                          |                           | \$6,582,992    | \$8,106,859 | \$3,103,286 | \$1,408,824 | \$1,016,314 | \$20,218,275          |

## **Appendix B**

# **Project Descriptions**

## Project Descriptions

|  |                                 |  |                               |         |
|--|---------------------------------|--|-------------------------------|---------|
| <b><u>Project Title:</u></b>   | Historic Lateral Weir Expansion |  | <b><u>Project Number:</u></b> | 810C    |
|  |                                 |  | <b><u>Project Status:</u></b> | Bidding |
| <b><u>Project Description:</u></b><br><p>The existing Historic Lateral Weir was constructed as SNWA Project 910AR in 2000. This facility is located at the site of the first Las Vegas Valley Water Lateral crossing of the Las Vegas Wash. This 518 foot long, 9 foot high, rock riprap structure provides channel bed stabilization upstream to the Pabco Road Erosion Control Structure. This project will increase hydraulic capacity and provide channel bed stabilization to the new, downstream C-1 Channel outfall. This Project will be funded by sales tax revenues.</p> |                                 |  |                               |         |

|   |                 |  |                               |              |
|---|-----------------|--|-------------------------------|--------------|
| <b><u>Project Title:</u></b>  | Three Kids Weir |  | <b><u>Project Number:</u></b> | 810K         |
|   |                 |  | <b><u>Project Status:</u></b> | Construction |
| <b><u>Project Description:</u></b><br><p>This project involves the construction of a permanent weir facility to replace an existing temporary facility installed following a 1999 flood event. This new facility will provide toe erosion protection for the future Homestead Weir while controlling approximately 18 feet of vertical erosion potential in the Las Vegas Wash. The Three Kids Weir will be approximately 490 feet in length, 528 feet wide, and 18.5 feet high. This Project is being funded by SNPLMA grants.</p> |                 |  |                               |              |

|  |                        |  |                               |        |
|--|------------------------|--|-------------------------------|--------|
| <b><u>Project Title:</u></b>   | Tropicana Outfall Weir |  | <b><u>Project Number:</u></b> | 810S   |
|  |                        |  | <b><u>Project Status:</u></b> | Design |
| <b><u>Project Description:</u></b><br><p>This facility is planned to be located immediately downstream of the confluence of the Tropicana Channel outfall in the Las Vegas Wash, at the Clark County Nature Preserve. The facility is expected to be 9 feet in height and 200 feet long. This Project is currently unfunded.</p> |                        |  |                               |        |

|  |                       |  |                               |         |
|--|-----------------------|--|-------------------------------|---------|
| <b><u>Project Title:</u></b>   | Sunrise Mountain Weir |  | <b><u>Project Number:</u></b> | 810W    |
|  |                       |  | <b><u>Project Status:</u></b> | Bidding |
| <b><u>Project Description:</u></b><br><p>This facility is to be located approximately 0.4 mile upstream of the Pabco Road Erosion Control Structure. This 350 foot long facility will stabilize approximately five feet of potential channel headcut erosion. This Project will be funded by sales tax revenues.</p> |                       |  |                               |         |

## Project Descriptions

|   |  |                                       |
|---|--|---------------------------------------|
| <b><u>Project Title:</u></b> Flood Repair Allocation  |  | <b><u>Project Number:</u></b> 860P    |
|   |  | <b><u>Project Status:</u></b> Planned |
| <b><u>Project Description:</u></b><br>Large flood events may damage existing stabilization facilities or create damage elsewhere in the Las Vegas Wash. This project will allow for the construction repair of stabilization facilities following major flood events where further damage to SNWA stabilization facilities will limit the ability of the facilities to function as intended. This Project will be funded by sales tax revenues. |  |                                       |

|  |  |  |
|--|--|--|
| <b><u>Project Title:</u></b> Historic Lateral Weir Expansion   |  | <b><u>Project Number:</u></b> 880C       |
| Revegetation   |  | <b><u>Project Status:</u></b> Programmed |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project will be funded by sales tax revenues. |  |  |

|   |  |  |
|---|--|--|
| <b><u>Project Title:</u></b> Duck Creek Confluence, Upper Narrows,<br>& DU Wetlands No. 1 Weir Sites  |  | <b><u>Project Number:</u></b> 880G         |
| Revegetation  |  | <b><u>Project Status:</u></b> Construction |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project is being funded by SNPLMA grants and sales tax revenues. |  |  |

|   |  |  |
|---|--|--|
| <b><u>Project Title:</u></b> Three Kids Weir Revegetation   |  | <b><u>Project Number:</u></b> 880K       |
|   |  | <b><u>Project Status:</u></b> Programmed |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project is being funded by SNPLMA grants and sales tax revenues. |  |  |

## Project Descriptions

|   |  |  |
|---|--|--|
| <b><u>Project Title:</u></b> Tropicana Outfall Weir Revegetation  |  | <b><u>Project Number:</u></b> 880S       |
|   |  | <b><u>Project Status:</u></b> Programmed |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project is currently unfunded. |  |  |

|   |  |  |
|---|--|--|
| <b><u>Project Title:</u></b> Silver Bowl Weir Revegetation  |  | <b><u>Project Number:</u></b> 880U         |
|   |  | <b><u>Project Status:</u></b> Construction |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project is being funded by SNPLMA grants and sales tax revenues. |  |  |

|  |  |  |
|--|--|--|
| <b><u>Project Title:</u></b> Sunrise Mountain Weir Revegetation  |  | <b><u>Project Number:</u></b> 880W       |
|  |  | <b><u>Project Status:</u></b> Programmed |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project will be funded by sales tax revenues. |  |  |

|  |  |  |
|--|--|--|
| <b><u>Project Title:</u></b> Archery Weir Revegetation   |  | <b><u>Project Number:</u></b> 880Z         |
|  |  | <b><u>Project Status:</u></b> Construction |
| <b><u>Project Description:</u></b><br>This project is intended to replace wetlands and other vegetation removed during weir construction, stabilize the stream banks, provide erosion control and habitat benefits. This Project will be funded by sales tax revenues. |  |  |



**Appendix C**  
**2015 Las Vegas Wash**  
**Construction Program Master Plan**

## 2015 Las Vegas Wash Construction Program Master Plan

| Design       | Project Name           | Start    | Finish   | Present Value | Future Value | 2015      | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | Total     |
|--------------|------------------------|----------|----------|---------------|--------------|-----------|------|------|------|------|------|------|-----------|
| 810S         | Tropicana Outfall Weir | 1/1/2015 | 4/1/2015 | \$ 75,000     | \$ 75,000    | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 75,000 |
| <b>TOTAL</b> |                        |          |          | \$ 75,000     | \$ 75,000    | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 75,000 |

| Construction | Project Name                    | Start    | Finish    | Present Value | Future Value  | 2015         | 2016         | 2017         | 2018         | 2019         | 2020 | 2021 | Total         |
|--------------|---------------------------------|----------|-----------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|------|------|---------------|
| 810K         | Three Kids Weir                 | 1/1/2015 | 6/18/2015 | \$ 2,422,399  | \$ 2,422,399  | \$ 2,422,399 | \$ -         | \$ -         | \$ -         | \$ -         | \$ - | \$ - | \$ 2,422,399  |
| 810C         | Historic Lateral Weir Expansion | 8/1/2015 | 7/1/2017  | \$ 6,706,344  | \$ 6,706,344  | \$ 1,457,901 | \$ 3,498,962 | \$ 1,749,481 | \$ -         | \$ -         | \$ - | \$ - | \$ 6,706,344  |
| 810W         | Sunrise Mountain Weir           | 8/1/2015 | 7/1/2017  | \$ 6,367,378  | \$ 6,367,378  | \$ 1,384,213 | \$ 3,322,110 | \$ 1,661,055 | \$ -         | \$ -         | \$ - | \$ - | \$ 6,367,378  |
| 810S         | Tropicana Outfall Weir          | 7/1/2018 | 8/30/2019 | \$ 7,315,000  | \$ 7,462,983  | \$ -         | \$ -         | \$ -         | \$ 3,198,421 | \$ 4,264,562 | \$ - | \$ - | \$ 7,462,983  |
| <b>TOTAL</b> |                                 |          |           | \$ 22,811,121 | \$ 22,959,104 | \$ 5,264,513 | \$ 6,821,072 | \$ 3,410,536 | \$ 3,198,421 | \$ 4,264,562 | \$ - | \$ - | \$ 22,959,104 |

| Revegetation | Project Name  | Start    | Finish    | Present Value | Future Value | 2015       | 2016       | 2017       | 2018       | 2019       | 2020       | 2021      | Total        |
|--------------|---|----------|-----------|---------------|--------------|------------|------------|------------|------------|------------|------------|-----------|--------------|
| 880G         | Duck Creek Confluence, Upper Narrows, & DU Wetlands No. 1 Weirs | 1/1/2015 | 12/1/2015 | \$ 465,728    | \$ 473,116   | \$ 473,116 | \$ -       | \$ -       | \$ -       | \$ -       | \$ -       | \$ -      | \$ 473,116   |
| 880K         | Three Kids Weir   | 9/1/2015 | 8/30/2017 | \$ 460,000    | \$ 476,078   | \$ 79,346  | \$ 238,039 | \$ 158,693 | \$ -       | \$ -       | \$ -       | \$ -      | \$ 476,078   |
| 880U         | Silver Bowl Weir  | 9/1/2015 | 8/30/2017 | \$ 250,000    | \$ 258,738   | \$ 43,123  | \$ 129,369 | \$ 86,246  | \$ -       | \$ -       | \$ -       | \$ -      | \$ 258,738   |
| 880Z         | Archery Weir  | 9/1/2015 | 8/30/2017 | \$ 250,000    | \$ 258,738   | \$ 43,123  | \$ 129,369 | \$ 86,246  | \$ -       | \$ -       | \$ -       | \$ -      | \$ 258,738   |
| 880C         | Historic Lateral Weir Expansion                                 | 9/1/2017 | 8/31/2019 | \$ 124,000    | \$ 128,334   | \$ -       | \$ -       | \$ 21,389  | \$ 64,167  | \$ 42,778  | \$ -       | \$ -      | \$ 128,334   |
| 880W         | Sunrise Mountain Weir   | 9/1/2017 | 8/31/2019 | \$ 128,000    | \$ 132,474   | \$ -       | \$ -       | \$ 22,079  | \$ 66,237  | \$ 44,158  | \$ -       | \$ -      | \$ 132,474   |
| 880S         | Tropicana Outfall Weir  | 9/1/2018 | 8/30/2020 | \$ 253,000    | \$ 261,843   | \$ -       | \$ -       | \$ -       | \$ -       | \$ 43,640  | \$ 130,921 | \$ 87,282 | \$ 261,843   |
| <b>TOTAL</b> |   |          |           | \$ 1,930,728  | \$ 1,989,321 | \$ 638,708 | \$ 496,777 | \$ 374,653 | \$ 130,404 | \$ 130,576 | \$ 130,921 | \$ 87,282 | \$ 1,989,321 |

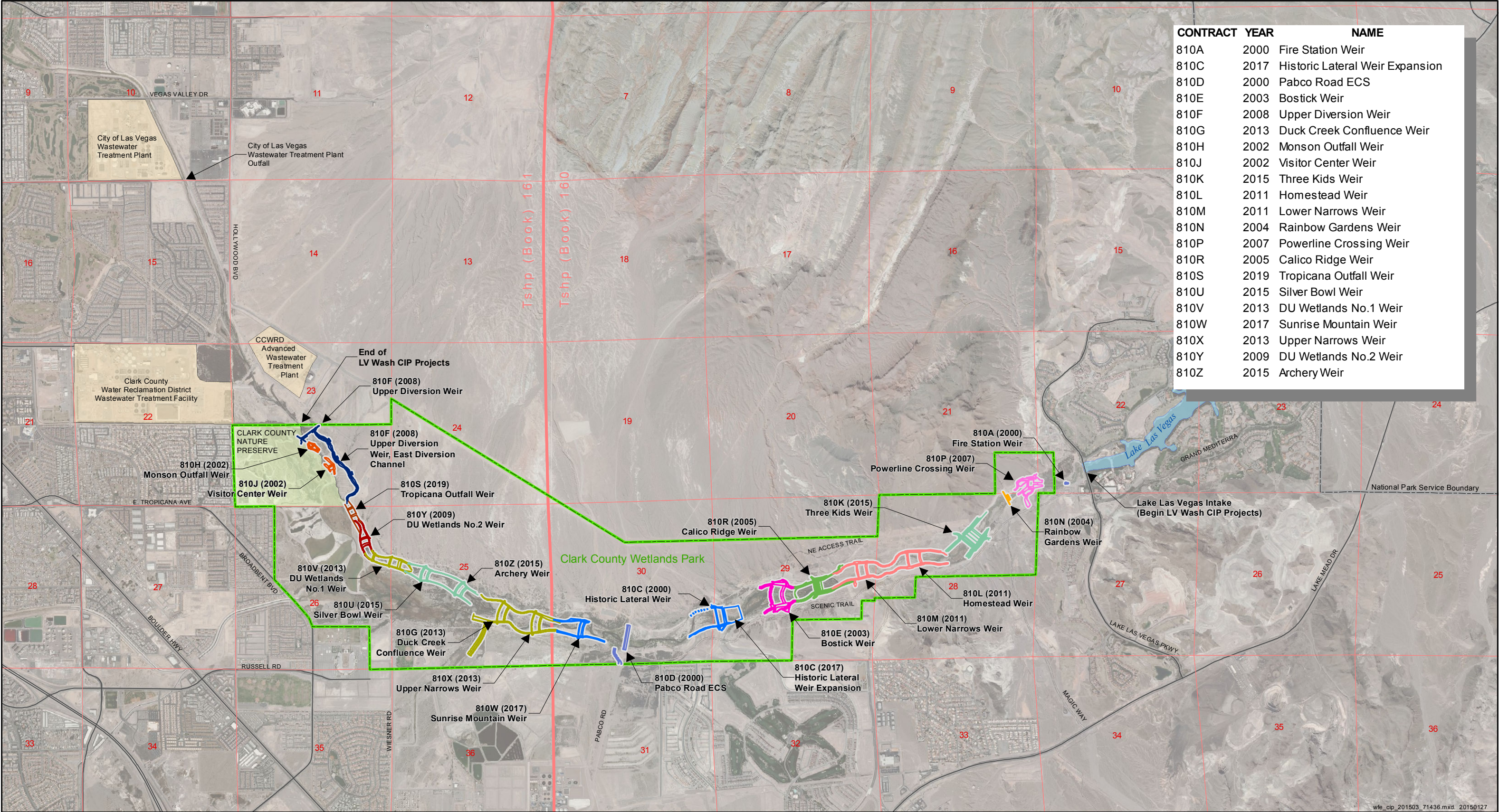
| Comprehensive | Project Name              | Start     | Finish    | Present Value | Future Value | 2015       | 2016       | 2017 | 2018 | 2019 | 2020 | 2021 | Total      |
|---------------|---------------------------|-----------|-----------|---------------|--------------|------------|------------|------|------|------|------|------|------------|
| 860P          | Flood Repair Allocation   | 1/2/2015  | 1/1/2017  | \$ 100,000    | \$ 100,000   | \$ 50,000  | \$ 50,000  | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 100,000 |
| 860P          | Flood Damage Repair       | 1/2/2015  | 5/2/2015  | \$171,923     | \$ 171,923   | \$ 171,923 | \$ -       | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 171,923 |
| 860V          | BOR Materials & Equipment | 2/10/2015 | 3/11/2017 | \$ 244,000    | \$ 244,000   | \$ 122,000 | \$ 122,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 244,000 |
| <b>TOTAL</b>  |                           |           |           | \$ 515,923    | \$ 515,923   | \$ 343,923 | \$ 172,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 515,923 |

|                            |  |  |  |                      |                      |                     |                     |                     |                     |                     |                   |                  |                      |
|----------------------------|--|--|--|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|------------------|----------------------|
| <b>TOTAL 2015 WASH CIP</b> |  |  |  | <b>\$ 25,332,772</b> | <b>\$ 25,539,348</b> | <b>\$ 6,322,144</b> | <b>\$ 7,489,849</b> | <b>\$ 3,785,189</b> | <b>\$ 3,328,825</b> | <b>\$ 4,395,138</b> | <b>\$ 130,921</b> | <b>\$ 87,282</b> | <b>\$ 25,539,348</b> |
|----------------------------|--|--|--|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|------------------|----------------------|


## **Appendix D**

### **Location Map**





| CONTRACT | YEAR | NAME                            |
|----------|------|---------------------------------|
| 810A     | 2000 | Fire Station Weir               |
| 810C     | 2017 | Historic Lateral Weir Expansion |
| 810D     | 2000 | Pabco Road ECS                  |
| 810E     | 2003 | Bostick Weir                    |
| 810F     | 2008 | Upper Diversion Weir            |
| 810G     | 2013 | Duck Creek Confluence Weir      |
| 810H     | 2002 | Monson Outfall Weir             |
| 810J     | 2002 | Visitor Center Weir             |
| 810K     | 2015 | Three Kids Weir                 |
| 810L     | 2011 | Homestead Weir                  |
| 810M     | 2011 | Lower Narrows Weir              |
| 810N     | 2004 | Rainbow Gardens Weir            |
| 810P     | 2007 | Powerline Crossing Weir         |
| 810R     | 2005 | Calico Ridge Weir               |
| 810S     | 2019 | Tropicana Outfall Weir          |
| 810U     | 2015 | Silver Bowl Weir                |
| 810V     | 2013 | DU Wetlands No.1 Weir           |
| 810W     | 2017 | Sunrise Mountain Weir           |
| 810X     | 2013 | Upper Narrows Weir              |
| 810Y     | 2009 | DU Wetlands No.2 Weir           |
| 810Z     | 2015 | Archery Weir                    |

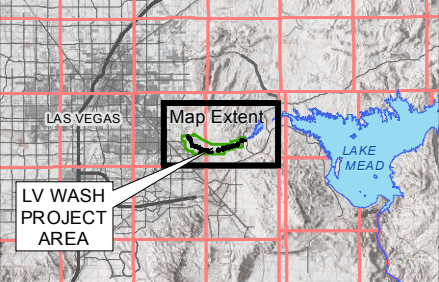


# SNWA LAS VEGAS WASH

## CAPITAL IMPROVEMENTS PLAN

## GRADE CONTROL STRUCTURES

### 2015



### Project Construction


#### Year of Completion

|      |      |      |      |      |
|------|------|------|------|------|
| 2000 | 2004 | 2008 | 2013 | 2019 |
| 2002 | 2005 | 2009 | 2015 |      |
| 2003 | 2007 | 2011 | 2017 |      |

0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

SNWA Wash Facilities Engineering  
Official Capital Improvements Plan map.  
Board approval date: March 19, 2015.

Map produced by SNWA Engineering,  
ETS, Geospatial Solutions Team. (GIS)  
SPC NV-E, NAD83, US Feet.  
Analyst: EN



1 Inch = 3000 Feet, or Scale = 1:36,000  
(Original 11x17 map only, verify scale)

**MAP-ID: WFE-CIP**  
**DATE: 16 JUL 2015**




# **Appendix E**

## **Ranking Criteria Scoring**

### **Channel Bed Stabilization**

**2014 - 15 Capital Improvements Plan**  
**Ranking Criteria Scoring**  
**Channel Bed Stabilization**

| Factor                            | Criteria  | Score | Criteria Score |                    |                 |                 |           |               |              |         |                  |            |                  |               |            |         |            |               |
|-----------------------------------|---|-------|----------------|--------------------|-----------------|-----------------|-----------|---------------|--------------|---------|------------------|------------|------------------|---------------|------------|---------|------------|---------------|
|                                   |   |       | Fire Station   | Powerline Crossing | Rainbow Gardens | Three Kids Weir | Homestead | Lower Narrows | Calico Ridge | Bostick | Historic Lateral | Pabco Road | Sunrise Mountain | Upper Narrows | Duck Creek | Archery | Silverbowl | DU Wetlands 1 |
| <b>Upstream Stability</b>         | Active headcutting risking upstream channel, structures, or banks                                   | 5     |                | 5                  | 5               | 5               | 5         | 5             | 5            | 5       | 5                | 5          |                  | 5             | 5          | 5       |            | 5             |
|                                   | Moderate headcutting in silty or sandy channel bed, some bank stability threat                      | 3     | 3              |                    |                 |                 |           |               |              |         |                  |            | 3                |               |            |         | 3          |               |
|                                   | Slow headcutting in caliche or bedrock, little bank stability threat                                | 1     |                |                    |                 |                 |           |               |              |         |                  |            |                  |               |            |         | 1          |               |
| <b>System Relationship</b>        | Provides important foundation or stability support for other facilities                             | 5     | 5              | 5                  | 5               | 5               | 5         | 5             | 5            | 5       | 5                | 5          |                  | 5             |            | 5       | 5          | 5             |
|                                   | Provides moderate foundation or stability support to other Wash features                            | 3     |                |                    |                 |                 |           |               |              |         |                  |            | 3                |               | 3          |         |            |               |
|                                   | Provides minor or no foundation or stability support to other facilities                            | 1     |                |                    |                 |                 |           |               |              |         |                  |            |                  |               |            |         |            |               |
| <b>Cost Avoidance</b>             | Will reduce capital cost of other facilities or is a low maintenance facility                       | 5     | 5              | 5                  | 5               | 5               | 5         | 5             |              | 5       | 5                | 5          | 5                |               | 5          | 5       | 5          | 5             |
|                                   | Provides minor capital cost savings for other facilities or minor annual maintenance expected       | 3     |                |                    |                 |                 |           |               | 3            |         |                  |            |                  | 3             |            |         |            |               |
|                                   | Provides no reduction in capital cost for other facilities, high maintenance expected               | 1     |                |                    |                 |                 |           |               |              |         |                  |            |                  |               |            |         |            |               |
| <b>Water Quality</b>              | Provides large volume for sediment capture or 5 or more acres potential wetlands area               | 5     |                |                    | 5               | 5               | 5         | 5             |              | 5       | 5                |            |                  |               | 5          |         |            |               |
|                                   | Provides minor volume of sediment capture or 3 or more acres potential wetlands area                | 3     | 3              | 3                  |                 |                 |           |               |              |         |                  | 3          | 3                | 3             |            | 3       | 3          |               |
|                                   | Provides little or no volume for sediment capture or less than 1 acre of potential wetlands area    | 1     |                |                    |                 |                 |           |               | 1            |         |                  |            |                  |               |            |         | 1          |               |
| <b>Ecosystem Enhancement</b>      | Provides platform for ecosystem enhancement covering greater than 5 acres                           | 5     |                |                    | 5               | 5               | 5         | 5             |              | 5       | 5                | 5          |                  |               | 5          |         |            |               |
|                                   | Provides platform for ecosystem enhancement covering greater than 3 acres                           | 3     | 3              | 3                  |                 |                 |           |               |              |         |                  |            | 3                | 3             |            | 3       | 3          |               |
|                                   | Provides platform for ecosystem enhancement covering 1 acre or more                                 | 1     |                |                    |                 |                 |           |               | 1            |         |                  |            |                  |               |            |         |            |               |
| <b>Recreational Opportunities</b> | Directly reduces threat to recreational features  | 5     |                | 5                  |                 | 5               | 5         | 5             |              |         |                  |            |                  |               | 5          |         |            |               |
|                                   | Provides possible threat reduction to recreational features   | 3     |                |                    | 3               |                 |           |               |              | 3       | 3                | 3          |                  | 3             |            | 3       | 3          |               |
|                                   | Provides little or no threat reduction to recreational features                                     | 1     | 1              |                    |                 |                 |           |               | 1            |         |                  |            | 1                |               |            |         |            |               |
| <b>Public Safety</b>              | Is strongly beneficial to public safety associated with activities in the Wash                      | 5     |                |                    |                 | 5               | 5         | 5             |              |         |                  | 5          |                  |               |            |         |            |               |
|                                   | Provides some improvement to public safety associated with activities in the Wash                   | 3     |                | 3                  | 3               |                 |           |               | 3            | 3       | 3                |            | 3                | 3             |            |         | 3          | 3             |
|                                   | Provides little improvement to public safety associated with activities in the Wash                 | 1     | 1              |                    |                 |                 |           |               |              |         |                  |            |                  |               |            | 1       | 1          |               |
| <b>Permitting</b>                 | Relatively minor permitting issues to be resolved   | 5     | 5              |                    |                 | 5               | 5         |               | 5            | 5       |                  |            | 5                | 5             |            |         |            |               |
|                                   | Wetlands, WQ, Wildlife, or Archeological issues exist and clearance required                        | 3     |                | 3                  | 3               |                 |           | 3             |              |         | 3                |            |                  |               | 3          | 3       |            |               |
|                                   | A sensitive site requiring mitigation or high level of protection                                   | 1     |                |                    |                 |                 |           |               |              |         |                  | 1          |                  |               |            |         | 1          |               |
| <b>ROW &amp; Access</b>           | Local Government Ownership, relatively easy acquisition   | 5     |                | 5                  | 5               |                 | 5         | 5             |              | 5       | 5                | 5          |                  | 5             | 5          | 5       | 5          | 5             |
|                                   | Federal Ownership, requiring federal review and approval  | 3     |                |                    |                 |                 |           |               | 3            |         |                  |            | 3                |               |            |         |            |               |
|                                   | Private Ownership requiring extended negotiations   | 1     | 1              |                    |                 | 1               |           |               |              |         |                  |            |                  |               |            |         |            |               |
| <b>Other Funding</b>              | other local, state, or federal funding assistance for > 50% of project cost                         | 5     | 5              | 5                  | 5               | 5               | 5         | 5             |              |         | 5                | 5          |                  |               |            |         |            |               |
|                                   | Identified possibility for additional local, state, federal funding assistance for > 25% of project | 3     |                |                    |                 |                 |           |               |              |         |                  |            |                  | 3             | 3          |         | 3          |               |
|                                   | No additional funding assistance identified beyond local sales tax revenues or < 25% project        | 1     |                |                    |                 |                 |           |               |              | 1       |                  |            | 1                |               |            | 1       |            |               |

 = In Construction or Completed



**Appendix F**  
**2014-15 Project Prioritization**  
**Channel Bed Stabilization**

## 2014 - 15 Project Prioritization Channel Bed Stabilization

| Facility Description  | Channel Station | Facility ID     | Priority Factor and Weight |              |                |                |                       |                      |               |            |              |               |       | Priority Value | Ranking | In Construction or Completed |
|-----------------------|-----------------|-----------------|----------------------------|--------------|----------------|----------------|-----------------------|----------------------|---------------|------------|--------------|---------------|-------|----------------|---------|------------------------------|
|                       |                 |                 | Stability                  | Relationship | Cost Avoidance | WQ Enhancement | Ecosystem Enhancement | Recreational Benefit | Public Safety | Permitting | ROW & Access | Other Funding |       |                |         |                              |
|                       |                 |                 |                            |              |                |                |                       |                      |               |            |              |               | 5     |                |         |                              |
| Lower Narrows         | 9470            | 810M            | 5                          | 5            | 5              | 5              | 5                     | 5                    | 5             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 17.5           | 17.5                  | 17.5                 | 17.5          | 7.5        | 12.5         | 12.5          | 177.5 |                |         |                              |
| Homestead             | 6740            | 810L            | 5                          | 5            | 5              | 5              | 5                     | 5                    | 5             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 17.5           | 17.5                  | 17.5                 | 17.5          | 7.5        | 12.5         | 12.5          | 177.5 |                |         |                              |
| Three Kids Weir       | 5150            | 810K            | 5                          | 5            | 5              | 5              | 5                     | 5                    | 5             | 5          | 1            | 5             |       | 1              |         |                              |
|                       |                 |                 | 25                         | 25           | 25             | 17.5           | 17.5                  | 17.5                 | 17.5          | 12.5       | 2.5          | 12.5          | 172.5 |                |         |                              |
| Historic Lateral      | 15400           | 810C<br>(910AR) | 5                          | 5            | 5              | 5              | 5                     | 3                    | 3             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 17.5           | 17.5                  | 10.5                 | 10.5          | 7.5        | 12.5         | 12.5          | 163.5 |                |         |                              |
| Rainbow Gardens       | 3120            | 810N<br>(170A)  | 5                          | 5            | 5              | 5              | 5                     | 3                    | 3             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 17.5           | 17.5                  | 10.5                 | 10.5          | 7.5        | 12.5         | 12.5          | 163.5 |                |         |                              |
| Upper Diversion       | 35650           | 810F            | 5                          | 5            | 5              | 3              | 3                     | 5                    | 5             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 10.5           | 10.5                  | 17.5                 | 17.5          | 7.5        | 12.5         | 12.5          | 163.5 |                |         |                              |
| Pabco Road            | 20000           | 810D            | 5                          | 5            | 5              | 3              | 5                     | 3                    | 5             | 1          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 10.5           | 17.5                  | 10.5                 | 17.5          | 2.5        | 12.5         | 12.5          | 158.5 |                |         |                              |
| Bostick Weir          | 13300           | 810E            | 5                          | 5            | 5              | 5              | 5                     | 3                    | 3             | 5          | 5            | 1             |       |                | X       |                              |
|                       |                 |                 | 25.0                       | 25.0         | 25.0           | 17.5           | 17.5                  | 10.5                 | 10.5          | 12.5       | 12.5         | 2.5           | 158.5 |                |         |                              |
| Powerline Crossing    | 1950            | 810P            | 5                          | 5            | 5              | 3              | 3                     | 5                    | 3             | 3          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 10.5           | 10.5                  | 17.5                 | 10.5          | 7.5        | 12.5         | 12.5          | 156.5 |                |         |                              |
| DU Wetlands 1         | 29500           | 810V            | 5                          | 5            | 5              | 3              | 3                     | 3                    | 3             | 5          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 10.5           | 10.5                  | 10.5                 | 10.5          | 12.5       | 12.5         | 12.5          | 154.5 |                |         |                              |
| Duck Creek Confluence | 25330           | 810G            | 5                          | 3            | 5              | 5              | 5                     | 5                    | 3             | 3          | 5            | 3             |       |                | X       |                              |
|                       |                 |                 | 25.0                       | 15.0         | 25.0           | 17.5           | 17.5                  | 17.5                 | 10.5          | 7.5        | 12.5         | 7.5           | 155.5 |                |         |                              |
| Upper Narrows         | 23500           | 810X            | 5                          | 5            | 3              | 3              | 3                     | 3                    | 3             | 5          | 5            | 3             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 15             | 10.5           | 10.5                  | 10.5                 | 10.5          | 12.5       | 12.5         | 7.5           | 139.5 |                |         |                              |
| Visitor Center        | 33850           | 810J            | 3                          | 5            | 3              | 1              | 1                     | 5                    | 5             | 5          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 15                         | 25           | 15             | 3.5            | 3.5                   | 17.5                 | 17.5          | 12.5       | 12.5         | 12.5          | 134.5 |                |         |                              |
| Monson Weir           | 34950           | 810H            | 3                          | 5            | 3              | 1              | 1                     | 5                    | 5             | 5          | 5            | 5             |       |                | X       |                              |
|                       |                 |                 | 15                         | 25           | 15             | 3.5            | 3.5                   | 17.5                 | 17.5          | 12.5       | 12.5         | 12.5          | 134.5 |                |         |                              |
| DU Wetlands 2         | 31100           | 810Y            | 3                          | 3            | 5              | 3              | 5                     | 5                    | 3             | 3          | 3            | 3             |       |                | X       |                              |
|                       |                 |                 | 15                         | 15           | 25             | 10.5           | 17.5                  | 17.5                 | 10.5          | 7.5        | 7.5          | 7.5           | 133.5 |                |         |                              |
| Calico Ridge          | 11400           | 810R            | 5                          | 5            | 5              | 1              | 1                     | 1                    | 3             | 5          | 3            | 5             |       |                | X       |                              |
|                       |                 |                 | 25                         | 25           | 25             | 3.5            | 3.5                   | 3.5                  | 10.5          | 12.5       | 7.5          | 12.5          | 128.5 |                |         |                              |
| Archery               | 26500           | 810Z            | 5                          | 5            | 5              | 3              | 3                     | 3                    | 1             | 3          | 5            | 1             |       | 2              |         |                              |
|                       |                 |                 | 25                         | 25           | 25             | 10.5           | 10.5                  | 10.5                 | 3.5           | 7.5        | 12.5         | 2.5           | 132.5 |                |         |                              |
| Silver Bowl           | 28190           | 810U            | 3                          | 5            | 5              | 3              | 3                     | 3                    | 1             | 1          | 5            | 3             |       | 3              |         |                              |
|                       |                 |                 | 15                         | 25           | 25             | 10.5           | 10.5                  | 10.5                 | 3.5           | 2.5        | 12.5         | 7.5           | 122.5 |                |         |                              |
| Fire Station          | 690             | 810A            | 3                          | 5            | 5              | 3              | 3                     | 1                    | 1             | 5          | 1            | 5             |       |                | X       |                              |
|                       |                 |                 | 15                         | 25           | 25             | 10.5           | 10.5                  | 3.5                  | 3.5           | 12.5       | 2.5          | 12.5          | 120.5 |                |         |                              |
| Tropicana Outfall     | 32300           | 810S            | 1                          | 5            | 5              | 1              | 3                     | 3                    | 5             | 3          | 5            | 1             |       | 4              |         |                              |
|                       |                 |                 | 5                          | 25           | 25             | 3.5            | 10.5                  | 10.5                 | 17.5          | 7.5        | 12.5         | 2.5           | 119.5 |                |         |                              |
| Sunrise Mountain      | 22000           | 810W            | 3                          | 3            | 5              | 3              | 3                     | 1                    | 3             | 5          | 3            | 1             |       | 5              |         |                              |
|                       |                 |                 | 15                         | 15           | 25             | 10.5           | 10.5                  | 3.5                  | 10.5          | 12.5       | 7.5          | 2.5           | 112.5 |                |         |                              |

= In Construction or Completed

## **Appendix G**

# **Sales Tax Received and Distributed**

## Southern Nevada Water Authority Sale Tax Received and Distributed

| Collection<br>Month | Received<br>Date | Receipts        | Distributions            |              |                        |               |
|---------------------|------------------|-----------------|--------------------------|--------------|------------------------|---------------|
|                     |                  | Gross<br>Amount | Clark Co.<br>Rural Areas | LV Wash      | Wastewater<br>Agencies | SNWA<br>Water |
| Apr-99              | 07-Jul-99        | 3,995,539.18    | 168,120.30               | 159,821.57   |                        | 3,667,597.31  |
| May-99              | 27-Jul-99        | 4,083,781.36    | 171,833.27               | 163,351.25   |                        | 3,748,596.84  |
| Jun-99              | 27-Aug-99        | 4,466,630.55    | 187,942.41               | 178,665.22   |                        | 4,100,022.92  |
| Jul-99              | 24-Sep-99        | 3,876,061.83    | 163,093.05               | 155,042.47   |                        | 3,557,926.31  |
| Aug-99              | 22-Oct-99        | 4,056,712.59    | 170,694.30               | 162,268.50   |                        | 3,723,749.79  |
| Sep-99              | 29-Nov-99        | 4,389,790.35    | 184,709.21               | 175,591.61   |                        | 4,029,489.53  |
| Oct-99 #            | 27-Dec-99        | 4,081,696.66    | 171,745.55               | 163,267.87   |                        | 3,746,683.24  |
| Nov-99              | 25-Jan-00        | 4,210,100.80    | 177,148.41               | 168,404.03   |                        | 3,864,548.36  |
| Dec-99              | 29-Feb-00        | 5,077,263.36    | 213,636.01               | 203,090.53   |                        | 4,660,536.82  |
| Calendar 1999       |                  | 38,237,576.68   | 1,608,922.51             | 1,529,503.07 | 0.00                   | 35,099,151.10 |
| Jan-00              | 24-Mar-00        | 4,011,032.32    | 168,772.21               | 160,441.29   |                        | 3,681,818.82  |
| Feb-00              | 25-Apr-00        | 4,056,424.50    | 170,682.17               | 162,256.98   |                        | 3,723,485.35  |
| Mar-00              | 26-May-00        | 4,718,343.86    | 198,533.75               | 188,733.75   |                        | 4,331,076.36  |
| Apr-00              | 28-Jun-00        | 4,285,441.90    | 180,318.54               | 171,417.68   |                        | 3,933,705.68  |
| May-00              | 21-Jul-00        | 4,403,289.00    | 185,277.19               | 176,131.56   |                        | 4,041,880.25  |
| Jun-00              | 25-Aug-00        | 4,816,863.21    | 202,679.15               | 192,674.53   |                        | 4,421,509.53  |
| Jul-00              | 22-Sep-00        | 4,316,704.54    | 181,633.98               | 172,668.18   |                        | 3,962,402.38  |
| Aug-00              | 20-Oct-00        | 4,470,849.30    | 188,119.93               | 178,833.97   |                        | 4,103,895.40  |
| Sep-00              | 29-Nov-00        | 4,819,576.45    | 202,793.32               | 192,783.06   |                        | 4,424,000.07  |
| Oct-00              | 22-Dec-00        | 4,363,936.03    | 183,621.34               | 174,557.44   |                        | 4,005,757.25  |
| Nov-00              | 22-Jan-01        | 4,423,626.78    | 186,132.94               | 176,945.07   |                        | 4,060,548.77  |
| Dec-00              | 26-Feb-01        | 5,353,219.53    | 225,247.42               | 214,128.78   |                        | 4,913,843.33  |
| Calendar 2000       |                  | 54,039,307.42   | 2,273,811.94             | 2,161,572.30 | 0.00                   | 49,603,923.18 |
| Jan-01              | 23-Mar-01        | 4,196,777.45    | 176,587.80               | 167,871.10   |                        | 3,852,318.55  |
| Feb-01              | 20-Apr-01        | 4,238,833.88    | 178,357.41               | 169,553.36   |                        | 3,890,923.11  |
| Mar-01              | 25-May-01        | 5,122,947.79    | 215,558.27               | 204,917.91   |                        | 4,702,471.61  |
| Apr-01              | 22-Jun-01        | 5,101,766.00    | 191,643.88               | 182,183.98   | 1,588,693.23           | 2,592,078.42  |
| May-01              | 20-Jul-01        | 4,811,654.02    | 202,459.97               | 192,466.16   | 1,678,356.60           | 2,738,371.29  |
| Jun-01              | 24-Aug-01        | 4,913,175.32    | 206,731.68               | 196,527.01   | 1,713,768.32           | 2,796,148.31  |
| Jul-01              | 21-Sep-01        | 4,573,130.34    | 192,423.61               | 182,925.21   | 1,595,156.98           | 2,602,624.54  |
| Aug-01              | 19-Oct-01        | 4,769,280.98    | 200,677.04               | 190,771.24   | 1,663,576.43           | 2,714,256.27  |
| Sep-01              | 27-Nov-01        | 4,281,399.03    | 180,148.43               | 171,255.96   | 1,493,397.96           | 2,436,596.68  |
| Oct-01              | 26-Dec-01        | 4,694,971.17    | 197,550.30               | 187,798.85   | 1,637,656.37           | 2,671,965.65  |
| Nov-01              | 29-Jan-02        | 4,472,344.19    | 188,182.83               | 178,893.77   | 1,560,001.69           | 2,545,265.90  |
| Dec-01              | 01-Mar-02        | 5,232,196.78    | 220,155.14               | 209,287.87   | 1,825,046.43           | 2,977,707.34  |
| Calendar 2001       |                  | 55,861,310.46   | 2,350,476.36             | 2,234,452.42 | 14,755,654.01          | 36,520,727.67 |

## Southern Nevada Water Authority

### Sale Tax Received and Distributed (continued)

| Collection<br>Month | Received<br>Date | Receipts        | Distributions            |              |                        |               |
|---------------------|------------------|-----------------|--------------------------|--------------|------------------------|---------------|
|                     |                  | Gross<br>Amount | Clark Co.<br>Rural Areas | LV Wash      | Wastewater<br>Agencies | SNWA<br>Water |
| Jan-02              | 25-Mar-02        | 4,326,824.60    | 182,059.80               | 173,072.98   | 1,509,242.89           | 2,462,448.93  |
| Feb-02              | 22-Apr-02        | 4,349,265.12    | 183,004.03               | 173,970.60   | 1,517,070.38           | 2,475,220.11  |
| Mar-02              | 24-May-02        | 5,103,195.94    | 214,727.18               | 204,127.84   | 1,780,049.55           | 2,904,291.37  |
| Apr-02              | 26-Jun-02        | 4,750,192.16    | 199,873.84               | 190,007.69   | 1,656,918.04           | 2,703,392.59  |
| May-02              | 22-Jul-02        | 4,821,867.75    | 202,889.73               | 192,874.71   | 1,681,919.26           | 2,744,184.05  |
| Jun-02              | 26-Aug-02        | 4,970,041.83    | 209,124.45               | 198,801.67   | 1,733,603.97           | 2,828,511.74  |
| Jul-02              | 27-Sep-02        | 4,749,454.66    | 199,842.80               | 189,978.19   | 1,656,660.79           | 2,702,972.88  |
| Aug-02              | 29-Oct-02        | 5,022,282.62    | 211,322.59               | 200,891.30   | 1,751,826.12           | 2,858,242.61  |
| Sep-02              | 27-Nov-02        | 4,874,255.97    | 205,094.07               | 194,970.24   | 1,700,192.83           | 2,773,998.83  |
| Oct-02              | 30-Dec-02        | 4,823,951.75    | 202,977.42               | 192,958.07   | 1,682,646.18           | 2,745,370.08  |
| Nov-02              | 27-Jan-03        | 4,774,928.64    | 200,914.67               | 190,997.15   | 1,665,546.39           | 2,717,470.43  |
| Dec-02              | 28-Feb-03        | 5,797,103.44    | 243,924.72               | 231,884.14   | 2,022,091.94           | 3,299,202.64  |
| Calendar 2002       |                  | 58,363,364.48   | 2,455,755.30             | 2,334,534.58 | 20,357,768.34          | 33,215,306.26 |
| Jan-03              | 28-Mar-03        | 4,691,518.79    | 197,405.04               | 187,660.75   | 1,636,452.14           | 2,670,000.86  |
| Feb-03              | 25-Apr-03        | 4,578,089.84    | 192,632.29               | 183,123.59   | 1,596,886.90           | 2,605,447.06  |
| Mar-03              | 30-May-03        | 5,436,587.00    | 228,755.27               | 217,463.48   | 1,896,339.93           | 3,094,028.32  |
| Apr-03              | 27-Jun-03        | 5,141,703.75    | 216,347.47               | 205,668.15   | 1,793,481.49           | 2,926,206.64  |
| May-03              | 28-Jul-03        | 5,209,543.33    | 219,201.95               | 208,381.73   | 1,817,144.66           | 2,964,814.99  |
| Jun-03              | 29-Aug-03        | 5,479,729.26    | 230,570.57               | 219,189.17   | 1,911,388.42           | 3,118,581.10  |
| Jul-03              | 29-Sep-03        | 5,289,907.96    | 222,583.46               | 211,596.32   | 1,845,176.71           | 3,010,551.47  |
| Aug-03              | 24-Oct-03        | 5,567,908.70    | 234,280.89               | 222,716.35   | 1,942,146.35           | 3,168,765.11  |
| Sep-03              | 26-Nov-03        | 5,593,448.96    | 235,355.55               | 223,737.96   | 1,976,127.81           | 3,158,227.64  |
| Oct-03              | 26-Dec-03        | 5,504,944.68    | 166,761.51               | 220,197.79   | 1,944,834.45           | 3,173,150.93  |
| Nov-03              | 30-Jan-04        | 5,255,726.03    | 159,211.92               | 210,229.04   | 1,856,788.33           | 3,029,496.74  |
| Dec-03              | 27-Feb-04        | 6,274,645.81    | 190,078.10               | 250,985.83   | 2,216,761.11           | 3,616,820.77  |
| Calendar 2003       |                  | 64,023,754.11   | 2,493,184.02             | 2,560,950.16 | 22,433,528.30          | 36,536,091.63 |
| Jan-04              | 26-Mar-04        | 5,611,387.95    | 169,986.00               | 224,455.52   | 1,982,439.64           | 3,234,506.79  |
| Feb-04              | 30-Apr-04        | 5,373,732.98    | 162,786.71               | 214,949.32   | 1,898,478.84           | 3,097,518.11  |
| Mar-04              | 28-May-04        | 6,609,509.31    | 200,222.13               | 264,380.37   | 2,335,064.59           | 3,809,842.22  |
| Apr-04              | 25-Jun-04        | 5,958,389.07    | 180,497.72               | 238,335.56   | 2,105,031.20           | 3,434,524.59  |
| May-04              | 30-Jul-04        | 6,248,802.97    | 189,295.24               | 249,952.12   | 2,207,631.13           | 3,601,924.48  |
| Jun-04              | 27-Aug-04        | 6,435,919.54    | 194,963.57               | 257,436.78   | 2,273,737.29           | 3,709,781.90  |
| Jul-04              | 24-Sep-04        | 6,376,347.86    | 193,158.96               | 255,053.91   | 2,252,691.29           | 3,675,443.70  |
| Aug-04              | 28-Oct-04        | 6,277,280.58    | 190,157.91               | 251,091.22   | 2,217,691.95           | 3,618,339.50  |
| Sep-04              | 29-Nov-04        | 6,646,047.72    | 201,328.99               | 265,841.91   | 2,347,973.19           | 3,830,903.63  |
| Oct-04              | 23-Dec-04        | 6,403,723.60    | 193,988.26               | 256,148.94   | 2,262,362.83           | 3,691,223.57  |
| Nov-04              | 28-Jan-05        | 6,306,344.85    | 191,038.36               | 252,253.79   | 2,227,960.03           | 3,635,092.67  |
| Dec-04              | 25-Feb-05        | 7,757,964.11    | 235,012.32               | 310,318.56   | 2,740,800.63           | 4,471,832.60  |
| Calendar 2004       |                  | 76,005,450.54   | 2,302,436.17             | 3,040,218.02 | 26,851,862.61          | 43,810,933.74 |

## Southern Nevada Water Authority

### Sale Tax Received and Distributed (continued)

| Collection<br>Month | Received<br>Date | Receipts        | Distributions            |              |                        |               |
|---------------------|------------------|-----------------|--------------------------|--------------|------------------------|---------------|
|                     |                  | Gross<br>Amount | Clark Co.<br>Rural Areas | LV Wash      | Wastewater<br>Agencies | SNWA<br>Water |
| Jan-05              | 28-Mar-05        | 6,057,704.65    | 183,506.29               | 242,308.19   | 2,140,118.27           | 3,491,771.90  |
| Feb-05              | 29-Apr-05        | 6,093,734.12    | 184,597.73               | 243,749.36   | 2,152,847.07           | 3,512,539.96  |
| Mar-05              | 27-May-05        | 7,596,621.64    | 230,124.76               | 303,864.87   | 2,683,800.16           | 4,378,831.85  |
| Apr-05              | 24-Jun-05        | 6,875,146.03    | 208,269.07               | 275,005.84   | 2,428,911.02           | 3,962,960.10  |
| May-05              | 29-Jul-05        | 7,140,351.88    | 216,302.97               | 285,614.08   | 2,522,605.24           | 4,115,829.59  |
| Jun-05              | 26-Aug-05        | 7,494,218.54    | 227,022.66               | 299,768.74   | 2,647,622.31           | 4,319,804.83  |
| Jul-05              | 30-Sep-05        | 7,024,506.24    | 212,793.65               | 280,980.25   | 2,481,678.29           | 4,049,054.05  |
| Aug-05              | 27-Oct-05        | 7,060,064.09    | 213,870.80               | 282,402.56   | 2,494,240.47           | 4,069,550.26  |
| Sep-05              | 29-Nov-05        | 7,338,500.94    | 222,305.50               | 293,540.04   | 2,592,609.05           | 4,230,046.35  |
| Oct-05              | 30-Dec-05        | 7,016,781.08    | 212,559.63               | 280,671.24   | 2,478,949.08           | 4,044,601.13  |
| Nov-05              | 27-Jan-06        | 6,888,713.57    | 208,680.08               | 275,548.54   | 2,433,704.28           | 3,970,780.67  |
| Dec-05              | 01-Mar-06        | 8,587,151.26    | 260,130.92               | 343,486.05   | 3,033,743.03           | 4,949,791.26  |
| Calendar 2005       |                  | 85,173,494.04   | 2,580,164.06             | 3,406,939.76 | 30,090,828.27          | 49,095,561.95 |
| Jan-06              | 31-Mar-06        | 6,743,202.56    | 204,272.10               | 269,728.10   | 2,382,296.89           | 3,886,905.46  |
| Feb-06              | 28-Apr-06        | 6,815,658.80    | 488,723.20               | 272,626.35   | 2,334,259.32           | 3,720,049.93  |
| Mar-06              | 01-Jun-06        | 8,081,356.22    | 441,313.10               | 323,254.25   | 2,780,379.77           | 4,536,409.10  |
| Apr-06              | 03-Jul-06        | 7,394,367.54    | 233,875.64               | 295,774.70   | 2,608,592.54           | 4,256,124.66  |
| May-06              | 28-Jul-06        | 7,484,834.92    | 236,737.02               | 299,393.40   | 2,640,507.71           | 4,308,196.79  |
| Jun-06              | 30-Aug-06        | 7,993,627.56    | 252,829.57               | 319,745.10   | 2,820,000.10           | 4,601,052.79  |
| Jul-06              | 02-Oct-06        | 7,199,839.98    | 227,722.95               | 287,993.60   | 2,539,966.90           | 4,144,156.53  |
| Aug-06              | 31-Oct-06        | 7,323,145.42    | 231,622.96               | 292,925.82   | 2,583,466.72           | 4,215,129.92  |
| Sep-06              | 29-Nov-06        | 7,582,818.24    | 239,836.12               | 303,312.73   | 2,675,074.37           | 4,364,595.02  |
| Oct-06              | 29-Dec-06        | 7,100,582.95    | 224,583.56               | 284,023.32   | 2,504,950.91           | 4,087,025.16  |
| Nov-06              | 27-Jan-07        | 7,046,861.20    | 222,884.40               | 281,874.45   | 2,485,998.89           | 4,056,103.46  |
| Dec-06              | 28-Feb-07        | 8,573,456.58    | 271,168.92               | 342,938.26   | 3,024,552.77           | 4,934,796.63  |
| Calendar 2006       |                  | 89,339,751.97   | 3,275,569.54             | 3,573,590.08 | 31,380,046.89          | 51,110,545.45 |
| Jan-07              | 30-Mar-07        | 6,910,452.75    | 218,569.95               | 276,418.11   | 2,437,876.58           | 3,977,588.11  |
| Feb-07              | 27-Apr-07        | 6,986,205.37    | 220,965.92               | 279,448.21   | 2,464,600.67           | 4,021,190.57  |
| Mar-07              | 31-May-07        | 8,161,104.50    | 258,126.68               | 326,444.18   | 2,879,082.78           | 4,697,450.86  |
| Apr-07              | 29-Jun-07        | 7,153,764.65    | 226,265.63               | 286,150.59   | 2,523,712.40           | 4,117,636.03  |
| May-07              | 30-Jul-07        | 7,417,298.89    | 201,355.32               | 296,691.96   | 2,629,315.61           | 4,289,936.00  |
| Jun-07              | 31-Aug-07        | 7,918,593.34    | 210,795.25               | 316,743.73   | 2,808,600.66           | 4,582,453.70  |
| Jul-07              | 28-Sep-07        | 7,035,190.85    | 187,278.82               | 281,407.63   | 2,495,271.67           | 4,071,232.73  |
| Aug-07              | 31-Oct-07        | 7,030,119.84    | 187,143.84               | 281,204.79   | 2,493,473.06           | 4,068,298.15  |
| Sep-07              | 30-Nov-07        | 7,371,727.70    | 196,237.53               | 294,869.11   | 2,614,636.00           | 4,265,985.06  |
| Oct-07              | 31-Dec-07        | 7,203,146.50    | 191,749.85               | 288,125.86   | 2,554,842.90           | 4,168,427.89  |
| Nov-07              | 30-Jan-08        | 7,001,344.07    | 186,377.81               | 280,053.76   | 2,483,266.75           | 4,051,645.75  |
| Dec-07              | 29-Feb-08        | 8,565,787.90    | 241,383.90               | 342,631.52   | 3,033,073.54           | 4,948,698.94  |
| Calendar 2007       |                  | 88,754,736.36   | 2,526,250.50             | 3,550,189.45 | 31,417,752.62          | 51,260,543.79 |



## Southern Nevada Water Authority

### Sale Tax Received and Distributed (continued)

| Collection Month | Received Date | Receipts      | Distributions         |              |                     |               |
|------------------|---------------|---------------|-----------------------|--------------|---------------------|---------------|
|                  |               | Gross Amount  | Clark Co. Rural Areas | LV Wash      | Wastewater Agencies | SNWA Water    |
| Jan-08           | 28-Mar-08     | 6,498,944.03  | 205,937.90            | 259,957.76   | 2,292,558.38        | 3,740,489.99  |
| Feb-08           | 30-Apr-08     | 6,544,565.49  | 184,425.86            | 261,782.62   | 2,317,375.67        | 3,780,981.34  |
| Mar-08           | 30-May-08     | 7,683,502.55  | 216,521.10            | 307,340.10   | 2,720,663.71        | 4,438,977.64  |
| Apr-08           | 27-Jun-08     | 6,927,959.59  | 195,229.90            | 277,118.38   | 2,453,132.30        | 4,002,479.00  |
| May-08           | 31-Jul-08     | 7,171,986.97  | 202,106.59            | 286,879.48   | 2,539,540.34        | 4,143,460.55  |
| Jun-08           | 29-Aug-08     | 7,242,215.02  | 204,085.62            | 289,688.60   | 2,564,407.51        | 4,184,033.29  |
| Jul-08           | 29-Sep-08     | 6,712,162.02  | 189,148.73            | 268,486.48   | 2,376,720.20        | 3,877,806.61  |
| Aug-08           | 30-Oct-08     | 7,180,617.73  | 205,186.15            | 287,224.71   | 2,541,518.62        | 4,146,688.25  |
| Sep-08           | 25-Nov-08     | 6,622,651.28  | 189,242.26            | 264,906.05   | 2,344,031.14        | 3,824,471.83  |
| Oct-08           | 28-Dec-08     | 6,608,538.41  | 188,838.99            | 264,341.54   | 2,339,036.01        | 3,816,321.87  |
| Nov-08           | 30-Jan-09     | 6,058,232.95  | 173,114.01            | 242,329.32   | 2,144,260.07        | 3,498,529.55  |
| Dec-08           | 27-Feb-09     | 6,913,933.90  | 197,565.66            | 276,557.36   | 2,447,128.15        | 3,992,682.73  |
| Calendar 2008    |               | 82,165,309.94 | 2,351,402.77          | 3,286,612.40 | 29,080,372.10       | 47,446,922.65 |
| Jan-09           | 30-Mar-09     | 5,440,196.44  | 155,453.61            | 217,607.87   | 1,925,511.30        | 3,141,623.66  |
| Feb-09           | 30-Apr-09     | 5,320,985.61  | 152,047.17            | 212,839.42   | 1,883,317.64        | 3,072,781.38  |
| Mar-09           | 29-May-09     | 6,589,177.07  | 188,285.73            | 263,567.08   | 2,332,183.23        | 3,805,141.03  |
| Apr-09           | 26-Jun-09     | 5,838,657.59  | 166,839.64            | 233,546.30   | 2,066,543.24        | 3,371,728.41  |
| May-09           | 30-Jul-09     | 5,790,454.59  | 165,462.25            | 231,618.18   | 2,049,482.19        | 3,343,891.97  |
| Jun-09           | 28-Aug-09     | 5,958,459.00  | 170,262.97            | 238,338.36   | 2,108,945.92        | 3,440,911.75  |
| Jul-09           | 29-Sep-09     | 5,411,300.79  | 167,577.16            | 216,452.03   | 1,910,363.22        | 3,116,908.38  |
| Aug-09           | 29-Oct-09     | 5,435,528.13  | 168,327.44            | 217,421.13   | 1,918,916.24        | 3,130,863.32  |
| Sep-09           | 30-Nov-09     | 5,630,829.06  | 174,375.51            | 225,233.16   | 1,987,863.75        | 3,243,356.64  |
| Oct-09           | 30-Dec-09     | 5,467,931.03  | 169,330.89            | 218,717.24   | 1,930,355.50        | 3,149,527.40  |
| Nov-09           | 29-Jan-10     | 5,421,077.48  | 167,879.93            | 216,843.10   | 1,913,814.69        | 3,122,539.76  |
| Dec-09           | 26-Feb-10     | 6,590,956.06  | 204,108.73            | 263,638.24   | 2,326,819.45        | 3,796,389.64  |
| Calendar 2009    |               | 68,895,552.85 | 2,049,951.03          | 2,755,822.11 | 24,354,116.37       | 39,735,663.34 |
| Jan-10           | 31-Mar-10     | 5,108,795.78  | 158,209.19            | 204,351.83   | 1,803,569.21        | 2,942,665.55  |
| Feb-10           | 30-Apr-10     | 5,108,584.48  | 158,202.64            | 204,343.38   | 1,803,494.61        | 2,942,543.84  |
| Mar-10           | 28-May-10     | 6,069,443.99  | 187,958.54            | 242,777.76   | 2,142,708.92        | 3,495,998.77  |
| Apr-10           | 30-Jun-10     | 5,998,217.64  | 185,752.80            | 239,928.71   | 2,117,563.73        | 3,454,972.40  |
| May-10           | 2-Aug-10      | 5,735,351.33  | 177,612.36            | 229,414.05   | 2,024,763.47        | 3,303,561.45  |
| Jun-10           | 31-Aug-10     | 5,928,143.48  | 183,582.75            | 237,125.74   | 2,092,825.30        | 3,414,609.69  |
| Jul-10           | 30-Sep-10     | 5,654,889.57  | 188,890.90            | 226,195.58   | 1,991,125.17        | 3,248,677.92  |
| Aug-10           | 28-Oct-10     | 5,803,041.71  | 193,839.66            | 232,121.67   | 2,043,290.54        | 3,333,789.84  |
| Sep-10           | 30-Nov-10     | 5,711,559.73  | 190,783.86            | 228,462.39   | 2,011,079.12        | 3,281,234.36  |
| Oct-10           | 30-Dec-10     | 5,601,460.83  | 187,106.22            | 224,058.43   | 1,972,312.55        | 3,217,983.63  |
| Nov-10           | 31-Jan-11     | 5,584,548.13  | 186,541.28            | 223,381.93   | 1,966,357.46        | 3,208,267.46  |
| Dec-10           | 28-Feb-11     | 6,606,718.98  | 220,684.96            | 264,268.76   | 2,326,270.80        | 3,795,494.46  |
| Calendar 2010    |               | 68,910,755.65 | 2,219,165.16          | 2,756,430.23 | 24,295,360.88       | 39,639,799.37 |

## Southern Nevada Water Authority

### Sale Tax Received and Distributed (continued)

| Collection Month | Received Date | Receipts      | Distributions         |              |                     |               |
|------------------|---------------|---------------|-----------------------|--------------|---------------------|---------------|
|                  |               | Gross Amount  | Clark Co. Rural Areas | LV Wash      | Wastewater Agencies | SNWA Water    |
| Jan-11           | 31-Mar-11     | 5,405,921.13  | 180,574.58            | 216,236.85   | 1,903,461.68        | 3,105,648.02  |
| Feb-11           | 29-Apr-11     | 5,353,999.20  | 178,840.22            | 214,159.97   | 1,885,179.63        | 3,075,819.38  |
| Mar-11           | 31-May-11     | 6,697,135.98  | 223,705.17            | 267,885.44   | 2,358,107.24        | 3,847,438.13  |
| Apr-11           | 30-Jun-11     | 6,063,185.70  | 202,529.26            | 242,527.43   | 2,134,889.02        | 3,483,239.99  |
| May-11           | 1-Aug-11      | 6,036,785.75  | 201,647.42            | 241,471.43   | 2,125,593.42        | 3,468,073.48  |
| Jun-11           | 31-Aug-11     | 6,397,099.10  | 213,683.00            | 255,883.96   | 2,252,462.21        | 3,675,069.93  |
| Jul-11           | 3-Oct-11      | 5,879,272.39  | 196,385.98            | 235,170.90   | 2,134,327.71        | 3,313,387.80  |
| Aug-11           | 31-Oct-11     | 5,859,385.06  | 195,721.68            | 234,375.40   | 1,998,933.61        | 3,430,354.37  |
| Sep-11           | 29-Nov-11     | 6,305,007.32  | 210,606.85            | 252,200.29   | 2,220,036.07        | 3,622,164.11  |
| Oct-11           | 29-Dec-11     | 6,129,515.21  | 204,744.87            | 245,180.61   | 2,158,244.10        | 3,521,345.63  |
| Nov-11           | 31-Jan-12     | 6,055,230.26  | 202,263.52            | 242,209.21   | 2,132,087.86        | 3,478,669.67  |
| Dec-11           | 29-Feb-12     | 7,144,138.09  | 238,636.43            | 285,765.52   | 2,515,499.74        | 4,104,236.40  |
| Calendar 2011    |               | 73,326,675.19 | 2,449,338.98          | 2,933,067.01 | 25,818,822.29       | 42,125,446.91 |
| Jan-12           | 30-Mar-12     | 5,658,195.97  | 189,001.34            | 226,327.84   | 1,992,289.38        | 3,250,577.41  |
| Feb-12           | 30-Apr-12     | 5,922,925.06  | 197,844.12            | 236,917.00   | 2,085,502.30        | 3,402,661.64  |
| Mar-12           | 31-May-12     | 6,790,047.64  | 226,808.71            | 271,601.91   | 2,390,822.07        | 3,900,814.95  |
| Apr-12           | 29-Jun-12     | 6,212,889.36  | 207,529.83            | 248,515.57   | 2,187,600.70        | 3,569,243.26  |
| May-12           | 30-Jul-12     | 6,522,231.72  | 217,862.82            | 260,889.27   | 2,296,522.26        | 3,746,957.37  |
| Jun-12           | 31-Aug-12     | 6,742,691.04  | 225,226.85            | 269,707.64   | 2,374,147.49        | 3,873,609.06  |
| Jul-12           | 28-Sep-12     | 6,167,978.96  | 206,029.68            | 246,719.16   | 2,171,787.45        | 3,543,442.67  |
| Aug-12           | 31-Oct-12     | 6,347,611.21  | 212,029.96            | 253,904.45   | 2,235,037.19        | 3,646,639.61  |
| Sep-12           | 30-Nov-12     | 6,574,756.29  | 219,617.31            | 262,990.25   | 2,315,016.52        | 3,777,132.21  |
| Oct-12           | 31-Dec-12     | 6,472,578.79  | 216,204.25            | 258,903.15   | 2,279,039.12        | 3,718,432.27  |
| Nov-12           | 31-Jan-13     | 6,355,186.60  | 212,283.00            | 254,207.46   | 2,237,704.53        | 3,650,991.61  |
| Dec-12           | 1-Mar-13      | 7,550,851.36  | 252,221.92            | 302,034.05   | 2,658,706.25        | 4,337,889.14  |
| Calendar 2012    |               | 77,317,944.00 | 2,582,659.79          | 3,092,717.75 | 27,224,175.26       | 44,418,391.20 |
| Jan-13           | 29-Mar-13     | 6,218,961.23  | 207,732.65            | 248,758.45   | 2,189,738.65        | 3,572,731.48  |
| Feb-13           | 30-Apr-13     | 6,019,983.45  | 201,086.17            | 240,799.34   | 2,119,677.22        | 3,458,420.72  |
| Mar-13           | 31-May-13     | 7,289,671.83  | 243,497.71            | 291,586.87   | 2,566,743.15        | 4,187,844.10  |
| Apr-13           | 28-Jun-13     | 6,577,240.44  | 219,700.29            | 263,089.62   | 2,315,891.20        | 3,778,559.33  |
| May-13           | 31-Jul-13     | 6,958,034.21  | 232,419.98            | 278,321.37   | 2,449,971.79        | 3,997,321.07  |
| Jun-13           | 30-Aug-13     | 6,959,568.24  | 232,471.22            | 278,382.73   | 2,450,511.43        | 3,998,202.86  |
| Jul-13           | 30-Sep-13     | 6,482,577.99  | 216,538.27            | 259,303.12   | 2,282,559.91        | 3,724,176.69  |
| Aug-13           | 31-Oct-13     | 6,620,713.50  | 221,152.42            | 264,828.54   | 2,331,198.36        | 3,803,534.18  |
| Sep-13           | 27-Nov-13     | 7,386,822.58  | 246,742.85            | 295,472.90   | 2,600,950.60        | 4,243,656.23  |
| Oct-13           | 30-Dec-13     | 6,795,438.52  | 226,988.78            | 271,817.54   | 2,392,720.24        | 3,903,911.96  |
| Nov-13           | 31-Jan-14     | 6,824,226.89  | 227,950.40            | 272,969.08   | 2,402,856.82        | 3,920,450.59  |
| Dec-13           | 28-Feb-14     | 7,869,507.13  | 262,866.01            | 314,780.29   | 2,770,907.12        | 4,520,953.71  |
| Calendar 2013    |               | 82,002,746.01 | 2,739,146.75          | 3,280,109.85 | 28,873,726.49       | 47,109,762.92 |

## Southern Nevada Water Authority

### Sale Tax Received and Distributed (continued)

| Collection Month                    | Received Date | Receipts         | Distributions         |               |                     |                |
|-------------------------------------|---------------|------------------|-----------------------|---------------|---------------------|----------------|
|                                     |               | Gross Amount     | Clark Co. Rural Areas | LV Wash       | Wastewater Agencies | SNWA Water     |
| Jan-14                              | 31-Mar-14     | 6,437,276.64     | 215,025.06            | 257,491.07    | 2,266,609.00        | 3,698,151.51   |
| Feb-14                              | 30-Apr-14     | 6,539,508.61     | 218,439.93            | 261,580.34    | 2,302,605.57        | 3,756,882.77   |
| Mar-14                              | 30-May-14     | 8,009,795.77     | 267,552.09            | 320,391.83    | 2,820,303.70        | 4,601,548.15   |
| Apr-14                              | 30-Jun-14     | 7,023,201.48     | 234,596.77            | 280,928.06    | 2,472,917.13        | 4,034,759.52   |
| May-14                              | 31-Jul-14     | 7,704,199.42     | 257,344.22            | 308,167.98    | 2,712,701.14        | 4,425,986.08   |
| Jun-14                              | 29-Aug-14     | 7,432,478.28     | 248,267.89            | 297,299.13    | 2,617,026.28        | 4,269,884.98   |
| Jul-14                              | 30-Sep-14     | 7,125,007.53     | 237,997.41            | 285,000.30    | 2,508,763.73        | 4,093,246.09   |
| Aug-14                              | 30-Oct-14     | 7,372,268.69     | 246,256.70            | 294,890.75    | 2,595,826.07        | 4,235,295.17   |
| Calendar 2014 through August        |               | 57,643,736.42    | 1,925,480.07          | 2,305,749.46  | 20,296,752.62       | 33,115,754.27  |
| Total through August 2014           |               | 1,120,061,466.12 | 38,183,714.95         | 44,802,458.64 | 357,230,767.05      | 679,844,525.44 |
| Estimate of Remainder Calendar 2014 |               |                  |                       |               |                     |                |
| Sep-14                              | Est           | 8,225,343.21     | 274,752.04            | 329,013.73    | 2,896,199.42        | 4,725,378.01   |
| Oct-14                              | Est           | 7,566,827.75     | 252,755.58            | 302,673.11    | 2,664,331.64        | 4,347,067.42   |
| Oct-14                              | Est           | 7,598,884.05     | 253,826.36            | 303,955.36    | 2,675,618.88        | 4,365,483.44   |
| Nov-14                              | Est           | 8,762,820.05     | 292,705.44            | 350,512.80    | 3,085,448.68        | 5,034,153.12   |
| Estimated Calendar 2013             |               | 89,797,611.48    | 2,999,519.49          | 3,591,904.47  | 31,618,351.25       | 51,587,836.27  |

## **Appendix H**

# **Sales Tax Revenue Projection**

**CLARK COUNTY WATER AND WASTEWATER INFRASTRUCTURE (QUARTER CENT) SALES TAX**  
**Received by the Southern Nevada Water Authority**  
**Actual / Forecast**

| Calendar Year | Clark Co. Population (1) |          | Gross Sales Tax Receipts |               |          | Clark Co             |                      | Wastewater            | SNWA                    |
|---------------|--------------------------|----------|--------------------------|---------------|----------|----------------------|----------------------|-----------------------|-------------------------|
|               | Count                    | % Change | Per Person               | Receipts      | % Change | Rural Areas          | LV Wash              | Agencies              | CIP                     |
| 1999 * -      | 1,321,319                |          | N/A+                     | \$ 38,237,577 |          | \$ 1,608,923         | \$ 1,529,503         | \$ -                  | \$ 35,099,151           |
| 2000 *        | 1,428,689                | 8.1%     | 37.82                    | 54,039,307    | +        | 2,273,812            | 2,161,572            | -                     | 49,603,923              |
| 2001 *        | 1,498,278                | 4.9%     | 37.28                    | 55,861,310    | 3.4%     | 2,350,476            | 2,234,452            | 14,755,654            | 36,520,728              |
| 2002 *        | 1,578,332                | 5.3%     | 36.98                    | 58,363,364    | 4.5%     | 2,455,755            | 2,334,535            | 20,357,768            | 33,215,306              |
| 2003 *        | 1,641,529                | 4.0%     | 39.00                    | 64,023,754    | 9.7%     | 2,493,184            | 2,560,950            | 22,433,528            | 36,536,092              |
| 2004 *        | 1,747,025                | 6.4%     | 43.51                    | 76,005,451    | 18.7%    | 2,302,436            | 3,040,218            | 26,851,863            | 43,810,934              |
| 2005 *        | 1,815,700                | 3.9%     | 46.91                    | 85,173,494    | 12.1%    | 2,580,164            | 3,406,940            | 30,090,792            | 49,095,598              |
| 2006 *        | 1,912,654                | 5.3%     | 46.71                    | 89,339,752    | 4.9%     | 3,275,570            | 3,573,590            | 31,380,047            | 51,110,545              |
| 2007 *        | 1,996,542                | 4.4%     | 44.45                    | 88,754,736    | -0.7%    | 2,526,251            | 3,550,189            | 31,417,753            | 51,260,544              |
| 2008 *        | 1,986,145                | -0.5%    | 41.37                    | 82,165,310    | -7.4%    | 2,351,403            | 3,286,612            | 29,080,372            | 47,446,923              |
| 2009 *        | 2,006,347                | 1.0%     | 34.34                    | 68,895,553    | -16.2%   | 2,049,951            | 2,755,822            | 24,354,116            | 39,735,663              |
| 2010 *        | 1,951,269                | -2.7%    | 35.32                    | 68,910,756    | 0.0%     | 2,219,165            | 2,756,430            | 24,295,361            | 39,639,799              |
| 2011 *        | 1,966,630                | 0.8%     | 37.29                    | 73,326,675    | 6.4%     | 2,449,339            | 2,933,067            | 25,818,822            | 42,125,447              |
| 2012 *        | 2,008,654                | 2.1%     | 38.49                    | 77,317,944    | 5.4%     | 2,582,660            | 3,092,718            | 27,224,175            | 44,418,391              |
| 2013 *        | 2,062,250                | 2.7%     | 39.76                    | 82,002,746    | 6.1%     | 2,739,147            | 3,280,110            | 28,873,726            | 47,109,763              |
| 2014 -        | 2,103,000                | 2.0%     | 42.70                    | 89,797,611    | 9.5%     | 2,999,519            | 3,591,904            | 31,618,351            | 51,587,836              |
| 2015          | 2,148,000                | 2.1%     | 44.04                    | 94,592,625    | 5.3%     | 3,159,688            | 3,783,705            | 33,306,708            | 54,342,524              |
| 2016          | 2,188,000                | 1.9%     | 45.42                    | 99,381,091    | 5.1%     | 3,319,638            | 3,975,244            | 34,992,759            | 57,093,450              |
| 2017          | 2,226,000                | 1.7%     | 46.85                    | 104,287,284   | 4.9%     | 3,483,520            | 4,171,492            | 36,720,263            | 59,912,009              |
| 2018          | 2,259,000                | 1.5%     | 48.33                    | 109,170,515   | 4.7%     | 3,646,635            | 4,366,821            | 38,439,682            | 62,717,377              |
| 2019          | 2,283,000                | 1.1%     | 49.86                    | 113,823,818   | 4.3%     | 3,802,070            | 4,552,953            | 40,078,142            | 65,390,653              |
| 2020          | 2,307,000                | 1.1%     | 51.44                    | 118,662,750   | 4.3%     | 3,963,705            | 4,746,510            | 41,781,963            | 68,170,572              |
| 2021          | 2,332,000                | 1.1%     | 53.06                    | 123,745,857   | 4.3%     | 4,133,497            | 4,949,834            | 43,571,760            | 71,090,766              |
| 2022          | 2,357,000                | 1.1%     | 54.74                    | 129,032,332   | 4.3%     | 4,310,082            | 5,161,293            | 45,433,164            | 74,127,793              |
| 2023          | 2,383,000                | 1.1%     | 56.48                    | 134,584,718   | 4.3%     | 4,495,549            | 5,383,388            | 47,388,197            | 77,317,584              |
| 2024          | 2,410,000                | 1.1%     | N/A+                     | 120,503,669   | +        | 4,025,198            | 4,820,146            | 42,430,164            | 69,228,161              |
|               |                          |          | <u>\$ 2,300,000,000</u>  |               |          | <u>\$ 77,597,336</u> | <u>\$ 92,000,000</u> | <u>\$ 772,695,132</u> | <u>\$ 1,357,707,533</u> |

Totals may be off slightly due to rounding  
 \* Actual Sales Tax receipts  
 - Partial Year -- Ratios would be skewed if calculated  
 (1) Source for Clark County Population <http://cber.unlv.edu/reports/2014PopulationForecasts.pdf>

# **Appendix I**

## **Interfund Loan Activity**

**Southern Nevada Water Authority  
INTERFUND LOAN ACTIVITY  
Historical Through June 30, 2014  
Projected From July 1, 2012 - June 2025<sup>1/</sup>**

| <b>HISTORICAL</b> |                      |                      |                      | <b>SOURCES</b>               |                      |                      |
|-------------------|----------------------|----------------------|----------------------|------------------------------|----------------------|----------------------|
| Fiscal Year       | Beginning<br>Balance | Borrowings           | Total<br>Payback     | From Sales Tax <sup>2/</sup> | From Grants          | Total                |
| 2006              | \$ -                 | \$ 1,771,721         | \$ 3,246             | \$ 3,207,620                 |                      | \$ 3,207,620         |
| 2007              | 1,768,475            | 3,043,206            | 243,901              | 3,876,451                    | \$ 255,000           | 4,131,451            |
| 2008              | 4,567,781            | 8,128,593            | 9,997,688            | 3,487,927                    | 9,322,409            | 12,810,336           |
| 2009              | 2,698,686            | 2,145,993            | 2,775,949            | 3,107,974                    | 2,553,086            | 5,661,060            |
| 2010              | 2,068,730            | 4,884,051            | 2,194,931            | 2,719,663                    | 1,063,408            | 3,783,071            |
| 2011              | 4,757,850            | 994,459              | 5,123,444            | 2,805,838                    | 6,256,818            | 9,062,656            |
| 2012              | 628,865              | 2,855,066            | 1,887,910            | 2,975,620                    | 5,888,857            | 8,864,477            |
| 2013              | 1,596,021            | 51,453               | 1,647,474            | 3,153,590                    | 10,831,754           | 13,985,344           |
| 2014              | 0                    | 4,894,069            | 144,767              | 3,356,267                    | 3,593,596            | 6,949,863            |
| 2015              | \$ 4,749,302         |                      |                      |                              |                      |                      |
|                   |                      | <u>\$ 28,768,611</u> | <u>\$ 24,019,308</u> | <u>\$ 28,690,950</u>         | <u>\$ 39,764,928</u> | <u>\$ 68,455,878</u> |

| <b>PROJECTED</b> |                      |   |  |   |                     |                          |
|------------------|----------------------|---|--|---|---------------------|--------------------------|
| Fiscal Year      | Beginning<br>Balance | Estimated<br>Construction<br>To be Financed | Construction<br>To be Financed<br>With Sales Tax <sup>3/4/</sup> | Construction<br>To be Paid<br>With Grants | Interest<br>Expense | Sales<br>Tax<br>Receipts |
| 2015             | \$ 4,749,302         | \$ 11,654,566                               | \$ 2,844,505   | \$ 8,810,061                              | \$ 347,338          | \$ 3,629,822             |
| 2016             | 13,121,384           | 6,646,936                                   | 6,646,936  | -   | 631,319             | 3,818,479                |
| 2017             | 16,581,160           | 6,534,480                                   | 6,534,480  | -   | 791,954             | 4,009,323                |
| 2018             | 19,898,271           | 5,551,122                                   | 5,551,122  | -   | 923,590             | 4,202,033                |
| 2019             | 22,170,949           | 3,272,833                                   | 3,272,833  | -   | 970,880             | 4,389,765                |
| 2020             | 22,024,897           | 618,500                                     | 618,500  | -   | 887,876             | 4,576,625                |
| 2021             | 18,954,648           | 276,500                                     | 276,500  | -   | 716,048             | 4,771,946                |
| 2022             | 15,175,249           | 42,167                                      | 42,167   | -   | 511,013             | 4,976,076                |
| 2023             | 10,752,353           | -   | -  | -   | 278,145             | 5,189,445                |
| 2024             | 5,841,053            | -   | -  | -   | 24,623              | 5,348,598                |
| 2025             | 517,084              | -   | -  | -   |                     | 2,761,345                |
|                  |                      | <u>\$ 34,597,102</u>                        | <u>\$ 25,787,041</u>   | <u>\$ 8,810,061</u>                       | <u>\$ 6,082,785</u> | <u>\$ 47,673,456</u>     |

1/ All amounts shown have been converted into fiscal years (July 1, 20xx to June 30, 20xx+1).

2/ Sales tax has also been used for pay-as-you-go construction costs.

3/ Estimated construction is based on cash flow projections in the Las Vegas Wash Capital Plan assuming remainder to be paid with additional future grant revenues.

4/ The 2011 Nevada State Legislature passed legislation (NRS 377B.1(2)) allowing the June 30, 2025 (or \$2.3 billion), sunset of sales tax collection to be lifted subject to Clark County approval. At this writing, Clark County has not approved the sunset lift. If the sunset is lifted, additional construction might be allowed to be funded with the revenue source.

## **Appendix J**

# **Completed Las Vegas Wash Weir Projects Summary**



## Completed Projects Summary

| Project No.   | Project Title  | Year Completed | Cost (\$1,000) |
|---------------|--|----------------|----------------|
|               | Temporary Demonstration Weir                                   | 1999           | \$173          |
| 810A          | Fire Station Weir  | 2000           | \$63           |
| 910-AR (810C) | Historic Lateral Weir  | 2000           | \$1,823        |
| 810D          | Pabco Weir (Clark County)                                      | 2000           | \$5,700        |
| 810H          | Monson Weir  | 2002           | \$152          |
| 810J          | Visitor Center Weir  | 2002           | \$172          |
| 810E          | Bostick Weir   | 2003           | \$5,020        |
| 170-A (810N)  | Rainbow Gardens Weir   | 2004           | \$7,238        |
| 810R          | Calico Ridge (Landfill Weir)                                   | 2005           | \$1,868        |
| 810P          | Powerline Crossing Weir  | 2007           | \$5,883        |
| 810F          | Upper Diversion Weir and Outfall Channel                       | 2008           | \$12,850       |
| 810Y          | DU Wetlands No. 2 Weir   | 2009           | \$3,470        |
| 810M          | Lower Narrows Weir   | 2011           | \$3,494        |
| 810L          | Homestead Weir   | 2011           | \$6,490        |
| 810V          | DU Wetlands No. 1 Weir   | 2012           | \$4,126        |
| 810X          | Upper Narrows Weir   | 2013           | \$6,683        |
| 810G          | Duck Creek Confluence Weir                                     | 2013           | \$6,683        |
| 810U          | Silver Bowl Weir   | 2014           | \$6,396        |
| 810Z          | Archery Weir   | 2014           | 6396           |
| 830C/840C     | Bank Protection - Historic Lateral (5,000 lf)                  | 2001           | \$428          |
| 840J          | Bank Protection South - Visitor Center (1,100 lf)              | 2001           | \$88           |
| 840B          | Bank Protection South - Demonstration (1,200 lf)               | 2001           | \$177          |
| 840T          | Bank Protection South - D-14 Extension (400 lf)                | 2001           | \$44           |
| 830N/840N     | Bank Protection - Three Kids Wash (Rainbow Gardens) (2,600 lf) | 2002           | \$92           |
| 830J          | Bank Protection North - Visitor Center (400 lf)                | 2002           | \$41           |
| 830H/840H     | Bank Protection - Monson (400 lf)                              | 2002           | \$40           |
| 830T          | Bank Protection North - D-14 Extension (300 lf)                | 2002           | \$10           |
| 840Q          | Bank Protection South - Wells (1,100 lf)                       | 2003           | \$95           |
| 830L          | Bank Protection North - Homestead (1,600 lf)                   | 2003           | \$146          |
| 840V          | Bank Protection South - DU Wetlands No. 1 (800 lf)             | 2003           | \$62           |
| 830M          | Bank Protection North - Lower Narrows (1,500 lf)               | 2003           | \$129          |
| 840R          | Bank Protection South - Calico Ridge (Landfill) (600 lf)       | 2003           | \$50           |
| 840X          | Bank Protection South - Upper Narrows (900 lf)                 | 2003           | \$78           |
| 830N/840N     | Bank Protection - Rainbow Gardens (1,585 lf)                   | 2005           | \$74           |
| 830D          | Bank Protection North - Pabco (640 lf)                         | 2005           | \$68           |
| 830E/840E     | Bank Protection - Bostick (2,205 lf)                           | 2005           | \$127          |
| 830D/840D     | Bank Protection - Pabco (1,725 lf)                             | 2006           | \$48           |

## Completed Projects Summary

(Continued)

|           |  |      |          |
|-----------|--|------|----------|
| 830W/840W | Bank Protection - Sunrise Mtn (1,765 lf)               | 2006 | \$74     |
| 840S      | Bank Protection South - Tropicana (575 lf)             | 2006 | \$21     |
| 830C/840C | Bank Protection - Historic Lateral (3,075 lf)          | 2008 | \$321    |
| 840D      | Bank Protection South - Pabco (520 lf)                 | 2008 | \$40     |
| 840A      | Bank Protection South - Fire Station (630 lf)          | 2010 | \$469    |
| 840G      | Bank Protection South - Duck Creek Confluence (700 lf) | 2010 | \$90     |
| 840D      | Bank Protection South - Pabco (320 lf)                 | 2011 | \$122    |
| 830C      | Bank Protection North - Historic Lateral (400 lf)      | 2011 | \$152    |
| 830E      | Bank Protection North - Bostick (155 lf)               | 2011 | \$59     |
| 830D      | Bank Protection North - Pabco (690 lf)                 | 2012 | \$65     |
| 880B      | Revegetation South - Demonstration (4.23 ac)           | 2000 | \$63     |
| 870C/880C | Revegetation - Historic Lateral (4.90 ac)              | 2001 | \$74     |
| 880D/870D | Revegetation - Pabco (7.40 ac)                         | 2001 | \$111    |
| 870H/880H | Revegetation - Monson (2.78 ac)                        | 2002 | \$48     |
| 870J/880J | Revegetation - Visitor Center (1.84 ac)                | 2002 | \$32     |
| 880E      | Revegetation South - Bostick (6.55 ac)                 | 2004 | \$115    |
| 870R/880R | Revegetation - Calico Ridge (Landfill) (6.80 ac)       | 2005 | \$117    |
| 870E      | Revegetation North - Bostick (7.85 ac)                 | 2005 | \$47     |
| 870D      | Revegetation North - Pabco (3.40 ac)                   | 2005 | \$2      |
| 880P      | Revegetation South - Powerline (14.91 ac)              | 2007 | \$245    |
| 880F      | Revegetation South - Upper Diversion (17.58 Ac)        | 2009 | \$145    |
| 870Y/880Y | Revegetation - DU Wetlands No. 2 (0.89 Ac)             | 2010 | \$2      |
| 870M/880M | Revegetation - Lower Narrows & Homestead (22.64 Ac)    | 2011 | \$3      |
| 870M/880M | Revegetation - Lower Narrows & Homestead (5.14 Ac)     | 2012 | \$23     |
| 870G/880G | Revegetation - Duck Creek Confluence (23.4 Ac)         | 2013 | \$223    |
| 860A      | 2000 Materials Transportation Program                  | 2000 | \$304    |
| 860B      | 2001 Materials Transportation Program                  | 2001 | \$753    |
| 860C      | 2002 Materials Transportation Program                  | 2002 | \$866    |
| 860D      | 2003 Materials Transportation Program                  | 2003 | \$489    |
| 860E      | 2004 Materials Transportation Program                  | 2004 | \$806    |
| 860F      | 2005 Materials Transportation Program                  | 2005 | \$216    |
| 860G      | 2006 Materials Transportation Program                  | 2006 | \$590    |
| 860H      | 2007 Materials Transportation Program                  | 2007 | \$513    |
| 860J      | 2008 Materials Transportation Program                  | 2008 | \$667    |
| 860K      | 2009 Materials Transportation Program                  | 2009 | \$209    |
| 860Q      | 2010 Materials Transportation Program                  | 2010 | \$329    |
| 890A      | 2011 Materials Transportation Program                  | 2011 | \$178    |
| 890A      | 2012 Materials Transportation Program                  | 2012 | \$194    |
| 860L      | 2001 Topographic Mapping                               | 2001 | \$80     |
| 860M      | 2005 Topographic Mapping                               | 2005 | \$80     |
| 860N      | 2008 Topographic Mapping                               | 2008 | \$63     |
| 860S      | Sediment Study I                                       | 2003 | \$177    |
| 860T      | Sediment Study 11                                      | 2008 | \$236    |
|           | Total  |      | \$95,890 |