

## Las Vegas Wash Capital Improvements Plan

May 21, 2020



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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 reestablishment. 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 A 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).

**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 account, as available.

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

Table 1
Funding-to-Date
1999 – FY 2019/2020

	Es	timated	
Funding Source	Fund	ing-to-Date	%
Sales Tax (Actuals through November 2019 and Estimate through June 2020)	\$	68,744,665	43.8
US Bureau of Reclamation Grants	\$	5,979,224	3.8
SNPLMA Funding	\$	55,472,508	35.3
Miscellaneous State and Federal Grants	\$	445,500	0.3
Other Local Agency Funding	\$	15,004,000	9.6
Estimated Outstanding Interfund Loan as of June 30, 2020	\$	11,370,488	7.2
Total:	\$	157,016,385	100.0

#### **5.2** Expenditures

#### 5.2.1 Expenditures-To-Date

From 1999 through June 2020, 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 \$5,700,000; 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; SNWA and City of Henderson construction of Demonstration Weir, at approximately \$173,000; construction of Historic Lateral Weir, at approximately \$1,830,000; 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 – FY 2019/2020

		Total	
Program	Expen	ditures-to-Date	%
Channel Stabilization	\$	138,612,620	89.8
Revegetation	\$	3,342,347	2.2
Comprehensive Programs	\$	8,718,272	5.6
Repayment of Interfund Borrowings (Actuals through FY19 and Estimate for FY20)	\$	3,683,239	2.4
Total:	\$	154,356,478	100.0

#### **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 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
2020/2021-2021/2022 (Present \$)

Wash CIP Component	Projected Expenditures							
Channel Stabilization	\$ 7,700,000	73.1						
Revegetation Programs	\$ 442,601	4.2						
Comprehensive Programs	\$ 895,000	8.5						
Interest Expense	\$ 1,500,241	14.2						
Total Projected Expenditures:	\$ 10,537,842	100.0						

#### 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 2020-21 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. The 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 2020-21 Work Plan Budget Allocation

#### 2020/2021 Las Vegas Wash Capital Improvements Plan

#### 2020-21 WORK PLAN BUDGET ALLOCATION

		Project	Project						
Proj.		Start	Finish						Total
No.	Project Title	Date	Date	20/21	21/22	22/23	23/24	24/25	Project Cost
	Design			-		-	-	-	,
	Design, Total:			\$0	\$0	\$0	\$0	\$0	\$0
	Construction								
810i	Final Weir Modifications			\$3,850,000	\$3,850,000				\$7,700,000
	Constrution, Total:			\$3,850,000	\$3,850,000	\$0	\$0	\$0	\$7,700,000
	Revegetation								
880C	Historic Lateral Weir	8/1/2019	10/1/2020	\$87,985					\$87,985
880W	Sunrise Mountain Weir	8/1/2019	10/1/2020	\$196,707	\$103,293				\$300,000
880S	Tropicana Weir	5/1/2018	6/30/2021	\$54,616					\$54,616
	Revegetation Total:			\$339,308	\$103,293	\$0	\$0	\$0	\$442,601
	Comprehensive Programs								
860V	BOR Materials and Equipment			\$300,000	\$300,000				\$600,000
860P	Flood Repair Allocation			\$100,000	\$100,000				\$200,000
860i	Final Archaeological Survey			\$95,000					\$95,000
	Comprehensive, Total:			\$495,000	\$400,000	\$0	\$0	\$0	\$895,000
	Work Plan Cost Summary								
	Design								\$0
									,,,
	Construction			\$3,850,000	\$3,850,000	\$0			\$7,700,000
	Revegetation			\$339,308	\$103,293	\$0			\$442,601
	Comprehensive			\$495,000	\$400,000	\$0			\$895,000
	Interest Expense			\$562,545	\$556,390	\$320,492	\$60,814		\$1,500,241
	Total Program:			\$5,246,853	\$4,909,683	\$320,492	\$60,814	\$0	\$10,537,842

## Appendix B Project Descriptions

#### **Project Descriptions**

Project Title:	Final Weir Structure Modifications		<u>Project Number:</u>	860i
			<u>Project Status:</u>	Planned
Project Descript	ion:		-	
with contract do	tended to revisit existing weir structures and ensubcuments and make any modifications necessary transcript associated permits. The project will also address	o bring	them into compliance witl	n contract
Project Title:	Flood Repair Allocation		Project Number:	860P
			<u>Project Status:</u>	Planned
funded by sales	tax revenues.			
Project Title:	BOR Materials and Equipment		Project Number:	860V
			Project Status:	Planned
partnership with for construction	installs bank protection and performs other const the U.S. Bureau of Reclamation. Construction act materials acquisition and construction equipment ceed on an annual basis as federal funding is ident	ivities t renta	are cost-shared with SNW A  I. This project allows for the	A providing fundire cost-sharing
Project Title:	Historic Lateral Weir		Project Number:	880C
	B I attack		Project Status:	Construction
	Revegetation			Construction
	Revegetation		· · · · · · · · · · · · · · · · · · ·	Constructio

#### **Project Descriptions**

Project Title:	Tropicana Weir Revegetation	Project Number:	880S
		Project Status:	Construction

#### **Project Description:**

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 revenue.

Project Title:	Sunrise Mountain Weir Revegetation	<u>Project Number:</u>	880W
		Project Status:	Programmed

#### **Project Description:**

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.

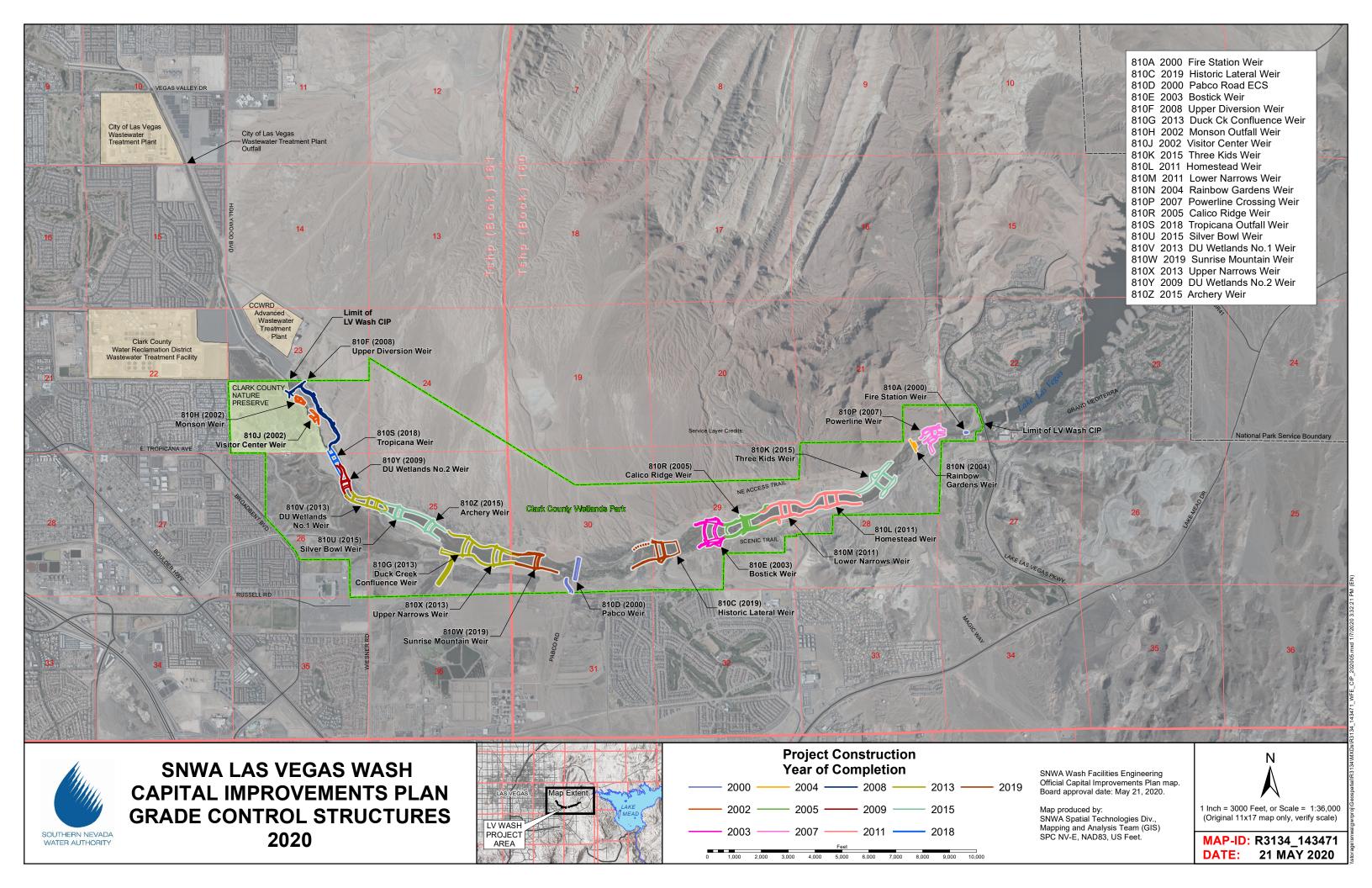
### Appendix C 2020/2021 Las Vegas Wash Construction Program Master Plan

#### Fiscal Year 2020/2021 Las Vegas Wash Construction Program Master Plan

	1				1		1	T	1	1	· · · · · · · · · · · · · · · · · · ·
Design	Project Name	Start	Finish	Present Value	Future Value	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	Total
			TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Project Name	Start	Finish	Present Value	Future Value	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	Total
810i	Final Weir Modifications	7/1/2019	6/30/2022	\$ 7,700,000	\$ 7,700,000	\$ 3,850,000	\$ 3,850,000	\$ -	\$ -	\$ -	\$ 7,700,000
			TOTAL	\$ 7,700,000	\$ 7,700,000	\$ 3,850,000	\$ 3,850,000	\$ -	\$ -	\$ -	\$ 7,700,000
					1			1		1	
Revegetation	Project Name	Start	Finish	Present Value	Future Value	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	Total
880C	Historic Lateral Weir	6/1/2018	6/30/2021	\$ 87,985	\$ 87,985	\$87,985	\$ -	\$ -	\$ -	\$ -	\$ 87,985
880W	Sunrise Mountain Weir	6/1/2018	6/30/2022	\$ 300,000	\$ 300,000	\$196,707	\$ 103,293	\$ -	\$ -	\$ -	\$ 300,000
880S	Tropicana Weir	10/1/2018	6/30/2021	\$ 54,616	\$ 54,616	\$54,616	\$ -	\$ -	\$ -	\$ -	\$ 54,616
			TOTAL	\$ 442,601	\$ 442,601	\$ 339,308	\$ 103,293	\$ -	\$ -	\$ -	\$ 442,601
Comprehensive	Project Name	Start	Finish	Present Value	Future Value	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	Total
860i	Final Archaelogical Survey	7/1/2020	6/30/2021	\$ 100,000	\$ 100,000	\$ 100,000		\$ -	\$ -	\$ -	\$ 100,000
860P	Flood Repair Allocation	1/2/2015	6/30/2022	\$ 200,000	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 200,000
860V	BOR Materials & Equipment	2/10/2015	6/30/2022	\$ 600,000	\$ 600,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 600,000
			TOTAL	\$ 800,000	\$ 800,000	\$ 500,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 900,000
						1.	1.				
	TOTAL FY 20/21 WASH CIP			\$ 8,942,601	\$ 8,942,601	\$ 4,689,308	\$ 4,353,293	\$ -	\$ -	\$ -	\$ 9,042,601

2020 Las Vegas Wash CIP - Appendix C 02/10/2020

## Appendix D Location Map



# Appendix E Ranking Criteria Scoring Channel Bed Stabilization

#### 2020 - 21 Capital Improvements Plan Ranking Criteria Scoring Channel Bed Stabilization

	T																					$\neg$
											Cı	iteria	Score	<u> </u>					$\overline{}$	$\overline{}$	$\overline{}$	$\dashv$
Factor	Criteria	Score	Fire Station	Powerline Crossing	Rainbow Gardens	Three Kids Weir	Homestead	Lower Narrows	Calico Ridge	Bostick	Historic Lateral	Supriso Mountain	Upper Narrows	Duck Creek	Archery	Silverbowl	DU Wetlands 1	DU Wetlands 2	Tropicana	Visitor Center	Monson	Upper Diversion
Upstream	Active headcutting risking upstream channel, structures, or banks	5		5	5 5	5	5	5	5	5	5	5		5 5			5	5				5
Stability	Moderate headcutting in silty or sandy channel bed, some bank stability threat	3	3										3			3				3	3	
	Slow headcutting in caliche or bedrock, little bank stability threat	1																	1			
System	Provides important foundation or stability support for other facilities	5	5	5	5	5	5	5	5	5	5	5	į	5	5	5	5	5	5	5	5	5
Relationship	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																				
Cost	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	5	5			5
Avoidance	Provides minor capital cost savings for other facilities or minor annual maintenance expected	3							3				3	3						3	3	
	Provides no reduction in capital cost for other facilities, high maintenance expected	1																				
Water	Provides large volume for sediment capture or 5 or more acres potential wetlands area	5			5	5	5	5		5	5			5								
Quality	Provides minor volume of sediment capture or 3 or more acres potential wetlands area	3	3	3	8							3	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	1	1	
Ecosystem	Provides platform for ecosystem enhancement covering greater than 5 acres	5			5	5	5	5		5	5	5		5				5				
Enhancement	Provides platform for ecosystem enhancement covering greater than 3 acres	3	3	3	3								3 3	3	3	3	3		3			3
	Provides platform for ecosystem enhancement covering 1 acre or more	1							1											1	1	
Recreational	Directly reduces threat to recreational features	5		5	5	5	5	5						5				5		5	5	5
Opportunities	Provides possible threat reduction to recreational features	3			3	3				3	3	3	3	3	3	3	3		3			
	Provides little or no threat reduction to recreational features	1	1						1				1						$\Box$		4	
Public	Is strongly beneficial to public safety associated with activities in the Wash	5				5	5	5				5							5	5	5	5
Safety	Provides some improvement to public safety associated with activities in the Wash	3		3	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					4	
Permitting	Relatively minor permitting issues to be resolved	5	5	5		5	5		5	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	3				3			3
	A sensitive site requiring mitigation or high level of protection	1										1				1			4	4	4	
ROW &	Local Government Ownership, relatively easy acquisition	5		5	5 5	5	5	5		5	5	5		5 5	5	5	5	5	5	5	5	5
Access	Federal Ownership, requiring federal review and approval	3							3				3									
	Private Ownership requiring extended negotiations	1	1			1															4	
Other	other local, state, or federal funding assistance for > 50% of project cost	5	5	5	5 5	5	5	5	5		5	5						5		5	5	5
Funding	Identified possibility for additional local, state, federal funding assistance for > 25% of project	3											3	3		3	3					
	No additional funding assistance identified beyond local sales tax revenues or < 25% project	1								1			1		1				1			

= In Construction or Completed

2020 Las Vegas Wash CIP - Appendix E 02/10/2020

# Appendix F 2020-21 Project Prioritization Channel Bed Stabilization

#### 2019 - 20 Project Prioritization Channel Bed Stabilization

										.:_L.							
						P	rio	rity Facto	or and W	eight		Т					
	Channel	Facility	Stability	Relationship	Cost Avoidance		WQ Enhancement	Echosystem Enhancement	Recreational Benefit	Public Safety	:	Permitting	ROW & Access	Other Funding	Priority Value	Ranking	In Construction or Completed
Facility Description	Station	ID	5		5	3	3.5	3.5	3.5	3.5	2	.5	2.5	2.5			
Lower Narrows	9470	810M	5 25	5 25	5 25	5 17		5 17.5	5 17.5	5 17.5	3 7	.5	12.5	5 12.5	177.5		х
Homestead	6740	810L	5 25	5 25	5 25	5 17		5 17.5	5 17.5	5 17.5	3 7	.5	12.5	5 12.5	177.5		х
Three Kids Weir	5150	810K	5 25	5 25	5 25	5 17		5 17.5	5 17.5	5 17.5	5 12	.5	2.5	5 12.5	172.5		х
Historic Lateral	15400	810C (910AR)	5 25	5 25	5 25	5 17		5 17.5	3 10.5	3 10.5	3 7	.5	12.5	5 12.5	163.5		х
Rainbow Gardens	3120	810N (170A)	5 25	5	5 25	5		5 17.5	3 10.5	3	3	.5	12.5	5 12.5	163.5		х
Upper Diversion	35650	810F	5 25	5	5	3		3 10.5	5 17.5	5	3	.5	12.5	5 12.5	163.5		х
Pabco Road	20000	810D	5 25	5	5	3		5 17.5	3 10.5	5	1	.5		5 12.5	158.5		х
Bostick Weir	13300	810E	5 25.0	5	5	5		5 17.5	3 10.5	3	5	5		1 2.5			х
Powerline Crossing	1950	810P	5 25	5	5	3		3 10.5	5 17.5	3	3	.5		5 12.5	156.5		х
DU Wetlands 1	29500	810V	5 25	5	5	3		3 10.5	3 10.5	3	5	5	12.5	5 12.5	154.5		х
Duck Creek Confluence	25330	810G	5 25.0	3	5	5		5 17.5	5 17.5	3	3	.5		3 7.5			х
Upper Narrows	23500	810X	5 25	5	3	3		3 10.5	3 10.5	3	5	5		3 7.5	139.5		х
Visitor Center	33850	810J	3 15	5	3	1	7	1 3.5	5	5	5	5		5			х
Monson Weir	34950	810H	3 15	5	3	1	7	1 3.5	5 17.5	5	5	5	12.5	5 12.5	134.5		х
DU Wetlands 2	31100	810Y	3 15	3	5	3			5 17.5	3	3	.5		3 7.5	133.5		х
Calico Ridge	11400	810R	5 25	5	5	1	Ħ	1 3.5	1 3.5	3	5	3		5 12.5	128.5		х
Archery	26500	810Z	5 25	5	5	3		3 10.5	3 10.5	1	3	.5		1 2.5	132.5		х
Silver Bowl	28190	810U	3 15	5	5	3		3 10.5	3 10.5	1	1	.5	12.5	3 7.5			х
Fire Station	690	810A	3 15	5	5	3		3 10.5	1 3.5	1	5	1		5	120.5		х
Tropicana	32300	810S	1 5	5	5	1			3 10.5	5	3	.5		1	119.5		х
Sunrise Mountain	22000	810W	3 15	3	5	3		3 10.5	1 3.5	3	5	3		1			х

= In Construction or Completed

## Appendix G Sales Tax Received and Distributed



		Receipts		Dist	ributions	
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital
Apr-99	07-Jul-99	3,995,539	168,120	159,822		3,667,597
May-99	27-Jul-99	4,083,781	171,833 163,351			3,748,597
Jun-99	27-Aug-99	4,466,631	187,942	178,665		4,100,023
Fiscal Year 1998-199	9	12,545,951	527,896	501,838	0	11,516,217
Jul-99	24-Sep-99	3,876,062	163,093	155,042		3,557,926
Aug-99	22-Oct-99	4,056,713	170,694	162,269		3,723,750
Sep-99	29-Nov-99	4,389,790	184,709	175,592		4,029,490
Oct-99	27-Dec-99	4,081,697	171,746	163,268		3,746,683
Nov-99	25-Jan-00	4,210,101	177,148	168,404		3,864,548
Dec-99	29-Feb-00	5,077,263	213,636	203,091		4,660,537
Jan-00	24-Mar-00	4,011,032	168,772	160,441		3,681,819
Feb-00	25-Apr-00	4,056,425	170,682	162,257		3,723,485
Mar-00	26-May-00	4,718,344	198,534	188,734		4,331,076
Apr-00	28-Jun-00	4,285,442	180,319	171,418		3,933,706
May-00	21-Jul-00	4,403,289	185,277 176,132			4,041,880
Jun-00	25-Aug-00	4,816,863	202,679	192,675		4,421,510
Fiscal Year 1999-200	0	51,983,020	2,187,290	2,079,321	0	47,716,410
Jul-00	22-Sep-00	4,316,705	181,634	172,668		3,962,402
Aug-00	20-Oct-00	4,470,849	188,120	178,834		4,103,895
Sep-00	29-Nov-00	4,819,576	202,793	192,783		4,424,000
Oct-00	22-Dec-00	4,363,936	183,621	174,557		4,005,757
Nov-00	22-Jan-01	4,423,627	186,133	176,945		4,060,549
Dec-00	26-Feb-01	5,353,220	225,247	214,129		4,913,843
Jan-01	23-Mar-01	4,196,777	176,588	167,871		3,852,319
Feb-01	20-Apr-01	4,238,834	178,357	169,553		3,890,923
Mar-01	25-May-01	5,122,948	215,558	204,918		4,702,472
Apr-01	22-Jun-01	4,554,600	191,644	182,184	1,588,693	2,592,078
May-01	20-Jul-01	4,811,654	202,460	192,466	1,678,357	2,738,371
Jun-01	24-Aug-01	4,913,175	206,732	196,527	1,713,768	2,796,148
Fiscal Year 2000-200	1	55,585,901	2,338,888	2,223,436	4,980,818	46,042,758



		Receipts	Distributions						
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA			
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital			
Jul-01	21-Sep-01	4,573,130	192,424	182,925	1,595,157	2,602,625			
Aug-01	19-Oct-01	4,769,281	200,677	190,771	1,663,576	2,714,256			
Sep-01	27-Nov-01	4,281,399	180,148	171,256	1,493,398	2,436,597			
Oct-01	26-Dec-01	4,694,971	197,550	187,799	1,637,656	2,671,966			
Nov-01	29-Jan-02	4,472,344	188,183	178,894	1,560,002	2,545,266			
Dec-01	01-Mar-02	5,232,197	220,155	209,288	1,825,046	2,977,707			
Jan-02	25-Mar-02	4,326,825	182,060	173,073	1,509,243	2,462,449			
Feb-02	22-Apr-02	4,349,265	183,004	173,971	1,517,070	2,475,220			
Mar-02	24-May-02	5,103,196	214,727	204,128	1,780,050	2,904,291			
Apr-02	26-Jun-02	4,750,192	199,874	190,008	1,656,918	2,703,393			
May-02	22-Jul-02	4,821,868	202,890	192,875	1,681,919	2,744,184			
Jun-02	26-Aug-02	4,970,042	209,124	198,802	1,733,604	2,828,512			
Fiscal Year 2001-200	2	56,344,710	2,370,816	2,253,788	19,653,640	32,066,465			
		23,211,12	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,		5-,000,000			
Jul-02	27-Sep-02	4,749,455	199,843	189,978	1,656,661	2,702,973			
Aug-02	29-Oct-02	5,022,283	211,323	200,891	1,751,826	2,858,243			
Sep-02	27-Nov-02	4,874,256	205,094	194,970	1,700,193	2,773,999			
Oct-02	30-Dec-02	4,823,952	202,977	192,958	1,682,646	2,745,370			
Nov-02	27-Jan-03	4,774,929	200,915	190,997	1,665,546	2,717,470			
Dec-02	28-Feb-03	5,797,103	243,925	231,884	2,022,092	3,299,203			
Jan-03	28-Mar-03	4,691,519	197,405	187,661	1,636,452	2,670,001			
Feb-03	25-Apr-03	4,578,090	192,632	183,124	1,596,887	2,605,447			
Mar-03	30-May-03	5,436,587	228,755	217,463	1,896,340	3,094,028			
Apr-03	27-Jun-03	5,141,704	216,347	205,668	1,793,481	2,926,207			
May-03	28-Jul-03	5,209,543	219,202	208,382	1,817,145	2,964,815			
Jun-03	29-Aug-03	5,479,729	230,571	219,189	1,911,388	3,118,581			
Fiscal Year 2002-200	3	60,579,149	2,548,989	2,423,166	21,130,658	34,476,336			
Jul-03	29-Sep-03	5,289,908	222,583	211,596	1,845,177	3,010,551			
Aug-03	24-Oct-03	5,567,909	234,281	222,716	1,942,146	3,168,765			
Sep-03	26-Nov-03	5,593,449	235,356	223,738	1,976,128	3,158,228			
Oct-03	26-Dec-03	5,504,945	166,762	220,198	1,944,834	3,173,151			
Nov-03	30-Jan-04	5,255,726	159,212	210,229	1,856,788	3,029,497			
Dec-03	27-Feb-04	6,274,646	190,078	250,986	2,216,761	3,616,821			
Jan-04	26-Mar-04	5,611,388	169,986	224,456	1,982,440	3,234,507			
Feb-04	30-Apr-04	5,373,733	162,787	214,949	1,898,479	3,097,518			
Mar-04	28-May-04	6,609,509	200,222	264,380	2,335,065	3,809,842			
Apr-04	25-Jun-04	5,958,389	180,498	238,336	2,105,031	3,434,525			
May-04	30-Jul-04	6,248,803	189,295	249,952	2,207,631	3,601,924			
Jun-04	27-Aug-04	6,435,920	194,964	257,437	2,273,737	3,709,782			
Fiscal Year 2003-200	4	69,724,324	2,306,023	2,788,973	24,584,217	40,045,111			



		Receipts	Distributions						
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA			
<u>Month</u>	Date	Amount	Rural Areas	LV Wash	Agencies	Capital			
Jul-04	24-Sep-04	6,376,348	193,159	255,054	2,252,691	3,675,444			
Aug-04	28-Oct-04	6,277,281	190,158	251,091	2,217,692	3,618,339			
Sep-04	29-Nov-04	6,646,048	201,329	265,842	2,347,973	3,830,904			
Oct-04	23-Dec-04	6,403,724	193,988	256,149	2,262,363	3,691,224			
Nov-04	28-Jan-05	6,306,345	191,038	252,254	2,227,960	3,635,093			
Dec-04	25-Feb-05	7,757,964	235,012	310,319	2,740,801	4,471,833			
Jan-05	28-Mar-05	6,057,705	183,506	242,308	2,140,118	3,491,772			
Feb-05					2,152,847				
	29-Apr-05	6,093,734	184,598	243,749		3,512,540			
Mar-05	27-May-05	7,596,622	230,125	303,865	2,683,800	4,378,832			
Apr-05	24-Jun-05	6,875,146	208,269	275,006	2,428,911	3,962,960			
May-05	29-Jul-05	7,140,352	216,303	285,614	2,522,605	4,115,830			
Jun-05	26-Aug-05	7,494,219	227,023	299,769	2,647,622	4,319,805			
Fiscal Year 2004-200	5	81,025,486	2,454,508	3,241,019	28,625,384	46,704,574			
	20.5	7.024.506	242 704	200.000	2 404 670	4 0 4 0 0 5 4			
Jul-05	30-Sep-05	7,024,506	212,794	280,980	2,481,678	4,049,054			
Aug-05	27-Oct-05	7,060,064	213,871	282,403	2,494,240	4,069,550			
Sep-05	29-Nov-05	7,338,501	222,306	293,540	2,592,609	4,230,046			
Oct-05	30-Dec-05	7,016,781	212,560	280,671	2,478,949	4,044,601			
Nov-05	27-Jan-06	6,888,714	208,680	275,549	2,433,704	3,970,781			
Dec-05	01-Mar-06	8,587,151	260,131	343,486	3,033,743	4,949,791			
Jan-06	31-Mar-06	6,743,203	204,272	269,728	2,382,297	3,886,905			
Feb-06	28-Apr-06	6,815,659	488,723	272,626	2,334,259	3,720,050			
Mar-06	01-Jun-06	8,081,356	441,313	323,254	2,780,380	4,536,409			
Apr-06	03-Jul-06	7,394,368	233,876	295,775	2,608,593	4,256,125			
May-06	28-Jul-06	7,484,835	236,737	299,393	2,640,508	4,308,197			
Jun-06	30-Aug-06	7,993,628	252,830	319,745	2,820,000	4,601,053			
Fiscal Year 2005-200	5	88,428,765	3,188,091	3,537,151	31,080,961	50,622,562			
Jul-06	02-Oct-06	7,199,840	227,723	287,994	2,539,967	4,144,157			
Aug-06	31-Oct-06	7,323,145	231,623	292,926	2,583,467	4,215,130			
Sep-06	29-Nov-06	7,582,818	239,836	303,313	2,675,074	4,364,595			
Oct-06	29-Dec-06	7,100,583	224,584	284,023	2,504,951	4,087,025			
Nov-06	27-Jan-07	7,046,861	222,884	281,874	2,485,999	4,056,103			
Dec-06	28-Feb-07	8,573,457	271,169	342,938	3,024,553	4,934,797			
Jan-07	30-Mar-07	6,910,453	218,570	276,418	2,437,877	3,977,588			
Feb-07	27-Apr-07	6,986,205	220,966	279,448	2,464,601	4,021,191			
Mar-07	31-May-07	8,161,105	258,127	326,444	2,879,083	4,697,451			
Apr-07	29-Jun-07	7,153,765	226,266	286,151	2,523,712	4,117,636			
Арт-07 Мау-07	30-Jul-07	7,133,703 7,417,299	201,355	296,692	2,629,316	4,289,936			
Jun-07	30-Jul-07 31-Aug-07	7,417,299 7,918,593	210,795	316,744	2,808,601	4,289,936			
Fiscal Year 2006-200	7	89,374,124	2,753,898	3,574,965	31,557,199	51,488,062			



		Receipts		Dist	ributions	
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital
Jul-07	28-Sep-07	7,035,191	187,279	281,408	2,495,272	4,071,233
Aug-07	31-Oct-07	7,030,120	187,144	281,205	2,493,473	4,068,298
Sep-07	30-Nov-07	7,371,728	196,238	294,869	2,614,636	4,265,985
Oct-07	31-Dec-07	7,203,147	191,750	288,126	2,554,843	4,168,428
Nov-07	30-Jan-08	7,203,147	186,378	280,054	2,483,267	4,051,646
Dec-07	29-Feb-08	8,565,788	241,384	342,632	3,033,074	4,948,699
Jan-08	28-Mar-08	6,498,944	205,938	259,958	2,292,558	3,740,490
Feb-08	30-Apr-08	6,544,565	184,426		2,317,376	3,780,981
	·			261,783		
Mar-08	30-May-08	7,683,503	216,521	307,340	2,720,664	4,438,978
Apr-08	27-Jun-08	6,927,960	195,230	277,118	2,453,132	4,002,479
May-08	31-Jul-08	7,171,987	202,107	286,879	2,539,540	4,143,461
Jun-08	29-Aug-08	7,242,215	204,086	289,689	2,564,408	4,184,033
Fiscal Year 2007-200	8	86,276,491	2,398,479	3,451,060	30,562,242	49,864,710
Jul-08	29-Sep-08	6,712,162	189,149	268,486	2,376,720	3,877,807
Aug-08	30-Oct-08	7,180,618	205,186	287,225	2,541,519	4,146,688
Sep-08	25-Nov-08	6,622,651	189,242	264,906	2,344,031	3,824,472
Oct-08	28-Dec-08	6,608,538	188,839	264,342	2,339,036	3,816,322
Nov-08	30-Jan-09	6,058,233	173,114	242,329	2,144,260	3,498,530
Dec-08	27-Feb-09	6,913,934	197,566	276,557	2,447,128	3,992,683
Jan-09	30-Mar-09	5,440,196	155,454	217,608	1,925,511	3,141,624
Feb-09	30-Apr-09	5,320,986	152,047	212,839	1,883,318	3,072,781
Mar-09	29-May-09	6,589,177	188,286	263,567	2,332,183	3,805,141
Apr-09	26-Jun-09	5,838,658	166,840	233,546	2,066,543	3,371,728
May-09	30-Jul-09	5,790,455	165,462	231,618	2,049,482	3,343,892
Jun-09	28-Aug-09	5,958,459	170,263	238,338	2,108,946	3,440,912
Fiscal Year 2008-200	9	75,034,067	2,141,447	3,001,363	26,558,678	43,332,579
Jul-09	29-Sep-09	5,411,301	167,577	216,452	1,910,363	3,116,908
Aug-09	29-0ct-09	5,435,528	168,327	217,421	1,918,916	3,130,863
Sep-09	30-Nov-09	5,630,829	174,376	225,233	1,918,916	3,243,357
Oct-09			169,331	218,717	1,930,356	
Nov-09	30-Dec-09 29-Jan-10	5,467,931	•	216,717		3,149,527
Dec-09	26-Feb-10	5,421,077	167,880		1,913,815	3,122,540 3,796,390
		6,590,956 5 108 706	204,109	263,638	2,326,819	
Jan-10	31-Mar-10	5,108,796	158,209	204,352	1,803,569	2,942,666
Feb-10	30-Apr-10	5,108,584	158,203	204,343	1,803,495	2,942,544
Mar-10	28-May-10	6,069,444	187,959	242,778	2,142,709	3,495,999
Apr-10	30-Jun-10	5,998,218	185,753	239,929	2,117,564	3,454,972
May-10 Jun-10	2-Aug-10 31-Aug-10	5,735,351 5,928,143	177,612 183,583	229,414 237,126	2,024,763 2,092,825	3,303,561 3,414,610
	_					
Fiscal Year 2009-201	0	67,906,159	2,102,918	2,716,246	23,973,058	39,113,937



		Receipts		Distributions						
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA				
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital				
Jul-10	30-Sep-10	5,654,890	188,891	226,196	1,991,125	3,248,678				
Aug-10	28-Oct-10	5,803,042	193,840	232,122	2,043,291	3,333,790				
Sep-10	30-Nov-10	5,711,560	190,784	228,462	2,011,079	3,281,234				
Oct-10	30-Dec-10	5,601,461	187,106	224,058	1,972,313	3,217,984				
Nov-10	31-Jan-11	5,584,548	186,541	223,382	1,966,357	3,208,267				
Dec-10	28-Feb-11	6,606,719	220,685	264,269	2,326,271	3,795,494				
Jan-11	31-Mar-11	5,405,921	180,575	216,237	1,903,462	3,105,648				
Feb-11	29-Apr-11	5,353,999	178,840	214,160	1,885,180	3,075,819				
Mar-11	31-May-11	6,697,136	223,705	267,885	2,358,107	3,847,438				
Apr-11	30-Jun-11	6,063,186	202,529	242,527	2,134,889	3,483,240				
May-11	1-Aug-11	6,036,786	•	242,327	2,125,593					
· ·	_	· ·	201,647			3,468,073				
Jun-11	31-Aug-11	6,397,099	213,683	255,884	2,252,462	3,675,070				
Fiscal Year 2010-201	1	70,916,346	2,368,827	2,836,654	24,970,129	40,740,737				
Jul-11	3-Oct-11	5,879,272	196,386	235,171	2,134,328	3,313,388				
Aug-11	31-Oct-11	5,859,385	195,722	234,375	1,998,934	3,430,354				
Sep-11	29-Nov-11	6,305,007	210,607	252,200	2,220,036	3,622,164				
Oct-11	29-Nov-11 29-Dec-11	6,129,515	204,745	245,181	2,158,244	3,521,346				
Nov-11	31-Jan-12		•	•						
Dec-11	29-Feb-12	6,055,230	202,264	242,209	2,132,088	3,478,670				
		7,144,138	238,636	285,766	2,515,500	4,104,236				
Jan-12	30-Mar-12	5,658,196	189,001	226,328	1,992,289	3,250,577				
Feb-12	30-Apr-12	5,922,925	197,844	236,917	2,085,502	3,402,662				
Mar-12	31-May-12	6,790,048	226,809	271,602	2,390,822	3,900,815				
Apr-12	29-Jun-12	6,212,889	207,530	248,516	2,187,601	3,569,243				
May-12	30-Jul-12	6,522,232	217,863	260,889	2,296,522	3,746,957				
Jun-12	31-Aug-12	6,742,691	225,227	269,708	2,374,147	3,873,609				
Fiscal Year 2011-201	2	75,221,529	2,512,633	3,008,861	26,486,013	43,214,022				
Jul-12	28-Sep-12	6,167,979	206,030	246,719	2,171,787	3,543,443				
Aug-12	31-Oct-12	6,347,611	212,030	253,904	2,235,037	3,646,640				
Sep-12	30-Nov-12	6,574,756	219,617	262,990	2,315,017	3,777,132				
Oct-12	31-Dec-12	6,472,579	216,204	258,903	2,279,039	3,718,432				
Nov-12	31-Jan-13	6,355,187	212,283	254,207	2,237,705	3,650,992				
Dec-12	1-Mar-13	7,550,851	252,222	302,034	2,658,706	4,337,889				
Jan-13	29-Mar-13	6,218,961	207,733	248,758	2,189,739	3,572,731				
Feb-13	30-Apr-13	6,019,983	201,086	240,799	2,119,677	3,458,421				
Mar-13	31-May-13	7,289,672	243,498	291,587	2,566,743	4,187,844				
Apr-13	28-Jun-13	6,577,240	219,700	263,090	2,315,891	3,778,559				
May-13	31-Jul-13	6,958,034	232,420	278,321	2,449,972	3,997,321				
Jun-13	30-Aug-13	6,959,568	232,471	278,383	2,450,511	3,998,203				
Fiscal Year 2012-201	3	79,492,423	2,655,294	3,179,697	27,989,825	45,667,607				



		Receipts		Dist	ributions	
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital
Jul-13	30-Sep-13	6,482,578	216,538	259,303	2,282,560	3,724,177
Aug-13	31-Oct-13	6,620,714	221,152	264,829	2,331,198	3,803,534
Sep-13	27-Nov-13	7,386,823	246,743	295,473	2,600,951	4,243,656
Oct-13	30-Dec-13	6,795,439	226,989	271,818	2,392,720	3,903,912
Nov-13	31-Jan-14	6,824,227	227,950	272,969	2,402,857	3,920,451
Dec-13	28-Feb-14	7,869,507	262,866	314,780	2,770,907	4,520,954
Jan-14	31-Mar-14	6,437,277	215,025	257,491	2,266,609	3,698,152
Feb-14			-	•		
	30-Apr-14	6,539,509	218,440	261,580	2,302,606	3,756,883
Mar-14	30-May-14	8,009,796	267,552	320,392	2,820,304	4,601,548
Apr-14	30-Jun-14	7,023,201	234,597	280,928	2,472,917	4,034,760
May-14	31-Jul-14	7,704,199	257,344	308,168	2,712,701	4,425,986
Jun-14	29-Aug-14	7,432,478	248,268	297,299	2,617,026	4,269,885
Fiscal Year 2013-2014	4	85,125,747	2,843,465	3,405,030	29,973,356	48,903,896
l. l. d. d.	20.5 44	7.435.000	227.007	205.000	2.500.764	4 002 246
Jul-14	30-Sep-14	7,125,008	237,997	285,000	2,508,764	4,093,246
Aug-14	30-Oct-14	7,372,269	246,257	294,891	2,595,826	4,235,295
Sep-14	26-Nov-14	7,516,962	251,090	300,678	2,646,773	4,318,420
Oct-14	31-Dec-14	7,346,330	245,390	293,853	2,586,693	4,220,394
Nov-14	30-Jan-15	7,220,317	241,181	288,813	2,542,323	4,148,000
Dec-14	27-Feb-15	8,658,396	289,217	346,336	3,048,680	4,974,162
Jan-15	31-Mar-15	6,942,624	231,905	277,705	2,444,545	3,988,469
Feb-15	30-Apr-15	7,068,251	236,102	282,730	2,488,780	4,060,640
Mar-15	29-May-15	8,338,855	278,544	333,554	2,936,168	4,790,589
Apr-15	30-Jun-15	7,577,749	253,120	303,110	2,668,177	4,353,342
May-15	31-Jul-15	7,953,792	265,681	318,152	2,800,584	4,569,375
Jun-15	31-Aug-15	7,903,402	263,998	316,136	2,782,842	4,540,426
Fiscal Year 2014-201	5	91,023,954	3,040,483	3,640,958	32,050,155	52,292,358
Jul-15	30-Sep-15	7,615,944	254,396	304,638	2,681,626	4,375,284
Aug-15	29-Oct-15	7,370,222	246,188	294,809	2,595,105	4,234,119
Sep-15	30-Nov-15	7,791,472	260,259	311,659	2,743,431	4,476,123
Oct-15	31-Dec-15	7,719,746	257,864	308,790	2,718,175	4,434,917
Nov-15	30-Jan-15	7,640,067	255,202	305,603	2,690,120	4,389,143
Dec-15	27-Feb-15	9,090,136	303,639	363,605	3,200,699	5,222,193
Jan-16	31-Mar-16	7,144,279	238,641	285,771	2,515,549	4,104,317
Feb-16	29-Apr-16	7,329,879	244,841	293,195	2,580,901	4,210,943
Mar-16	31-May-16	8,568,311	286,208	342,732	3,016,961	4,922,410
Apr-16	30-Jun-16	7,738,151	258,478	309,526	2,724,656	4,445,491
May-16	29-Jul-16	7,738,131	264,751	317,037	2,790,776	4,553,371
Jun-16	31-Aug-16	8,524,710	284,752	340,988	3,001,608	4,897,361
Fiscal Year 2015-2010	6	94,458,852	3,155,219	3,778,354	33,259,606	54,265,673



		Receipts		Distributions						
Collection	Received	Gross	Clark Co.		Wastewater	Other SNWA				
Month	Date	Amount	Rural Areas	LV Wash	Agencies	Capital				
Jul-16	30-Sep-16	7,826,866	261,442	313,075	2,755,893	4,496,457				
Aug-16	28-Oct-16	7,949,572	265,540	317,983	2,799,098	4,566,950				
Sep-16	30-Nov-16	8,289,925	276,909	331,597	2,918,939	4,762,479				
Oct-16	30-Dec-16	7,917,066	264,455	316,683	2,787,653	4,548,276				
Nov-16	31-Jan-17	7,960,048	265,890	318,402	2,802,787	4,572,968				
Dec-16	28-Feb-17	9,381,188	313,361	375,248	3,303,180	5,389,399				
Jan-17	31-Mar-17	7,693,802	256,997	307,752	2,709,040	4,420,013				
Feb-17	28-Apr-17	7,402,524	247,267	296,101	2,606,479	4,252,676				
Mar-17	31-May-17	9,256,755	309,204	370,270	3,259,367	5,317,914				
Apr-17	30-Jun-17	8,062,831	269,324	322,513	2,838,978	4,632,016				
May-17	30-Jul-17 31-Jul-17	8,467,039	282,825	338,682	2,981,302					
· ·			•			4,864,230				
Jun-17	31-Aug-17	8,828,866	294,912	353,155	3,108,704	5,072,096				
Fiscal Year 2016-201	7	99,036,481	3,308,126	3,961,459	34,871,420	56,895,475				
Jul-17	29-Sep-17	8,094,287	300,732	323,771	2,838,518	4,631,266				
Aug-17	31-Oct-17	8,270,086	307,264	330,803	2,900,167	4,731,852				
•			•							
Sep-17	30-Nov-17	8,579,965	318,777	343,199	3,008,836	4,909,153				
Oct-17	29-Dec-17	8,235,502	305,979	329,420	2,888,039	4,712,064				
Nov-17	31-Jan-18	8,325,334	309,316	333,013	2,919,542	4,763,463				
Dec-17	28-Feb-18	9,575,549	355,766	383,022	3,357,969	5,478,792				
Jan-18	30-Mar-18	8,092,258	300,657	323,690	2,837,806	4,630,105				
Feb-18	30-Apr-18	7,796,660	289,674	311,866	2,734,145	4,460,974				
Mar-18	31-May-18	9,539,003	354,409	381,560	3,345,153	5,457,881				
Apr-18	29-Jun-18	8,678,019	322,420	347,121	3,043,222	4,965,257				
May-18	31-Jul-18	8,981,714	333,703	359,269	3,149,722	5,139,020				
Jun-18	31-Aug-18	9,253,873	343,815	370,155	3,245,163	5,294,740				
Fiscal Year 2017-201	8	103,422,250	3,842,512	4,136,890	36,268,282	59,174,566				
Jul-18	28-Sep-18	8,810,946	315,371	352,438	3,094,392	5,048,745				
Aug-18	31-Oct-18	8,800,797	315,008	352,032	3,090,828	5,042,929				
Sep-18	30-Nov-18	8,989,253	321,754	359,570	3,157,013	5,150,916				
Oct-18	31-Dec-18	8,634,211	309,046	345,368	3,032,323	4,947,474				
Nov-18	31-Jan-19	9,317,637	279,894	372,705	3,292,714	5,372,323				
Dec-18	28-Feb-19	10,369,901	311,503	414,796	3,664,569	5,979,033				
Jan-19	29-Mar-19	8,645,806	259,713	345,832	3,055,299	4,984,962				
Feb-19	30-Apr-19	8,393,695	252,140	335,748	2,966,207	4,839,601				
Mar-19	31-May-19	10,073,561	302,601	402,942	3,559,846	5,808,170				
Apr-19	28-Jun-19	9,343,223	280,663	373,729	3,301,756	5,387,076				
May-19	31-Jul-19	9,790,103	294,087	391,604	3,459,677	5,644,735				
Jun-19	30-Aug-19	9,743,042	292,673	389,722	3,443,046	5,617,601				
Fiscal Year 2018-201	9	110,912,175	3,534,452	4,436,487	39,117,670	63,823,566				



	Receipts		Dist	ributions	
Collection Received	Gross	Clark Co.		Wastewater	Other SNWA
Month Date	Amount	Rural Areas	LV Wash	Agencies	Capital
Jul-19 30-Sep-19	9,216,352	269,664	368,654	3,259,653	5,318,381
Aug-19 31-Oct-19	9,567,211	279,930	382,688	3,383,745	5,520,848
Sep-19 27-Nov-19	9,492,510	277,744	379,700	3,357,325	5,477,741
Oct-19 31-Dec-19	9,653,287	282,449	386,131	3,414,189	5,570,518
Nov-19 31-Jan-20	9,769,362	285,845	390,774	3,455,242	5,637,500
Fiscal Year 2019-2020 through Nov-19	47,698,722	1,395,632	1,907,949	16,870,153	27,524,987
Total Actuals Through November 2019	1,652,116,624	55,975,887	66,084,665	544,563,463	985,492,609
Estimate of remainder for fiscal year 2019	-2020				
Dec-19 Estimate - Feb20	9,500,000	277,964	380,000	3,359,974	5,482,062
Jan-20 Estimate - Mar20	9,500,000	277,964	380,000	3,359,974	5,482,062
Feb-20 Estimate - Apr20	9,500,000	277,964	380,000	3,359,974	5,482,062
Mar-20 Estimate - May20	9,500,000	277,964	380,000	3,359,974	5,482,062
Apr-20 Estimate - Jun20	9,500,000	277,964	380,000	3,359,974	5,482,062
May-20 Estimate - Jul20	9,500,000	277,964	380,000	3,359,974	5,482,062
Jun-20 Estimate - Aug20	9,500,000	277,964	380,000	3,359,974	5,482,062
Total estimate for December through June	e 2020 66,500,000	1,945,748	2,660,000	23,519,818	38,374,434
Total Actuals and Estimate Through June	<b>1,718,616,624</b>	57,921,635	68,744,665	568,083,281	1,023,867,043

Totals may be off slightly due to rounding.

## Appendix H Sales Tax Revenue Projection



### CLARK COUNTY WATER AND WASTEWATER INFRASTRUCTURE (QUARTER CENT) SALES TAX Sales Tax Received and Distributed

	Original	Data in Calen	dar Year					Data Conve	erted to Fiscal	Year			
	Calendar <u>Year</u>	Clark Co. Po	opulation <sup>(1)</sup> % Change	Clark Co. Pop Count	ulation FY % Change	Fiscal <u>Year</u>	<u>Gross Sal</u> Per Person	es Tax Receipts <sup>(3)</sup> Receipts	% Change	Clark Co Rural Areas	LV Wash	Wastewater Agencies	Other SNWA <u>Capital</u>
	<u> </u>	<u> </u>	<u>/                                    </u>	<u> </u>	<u>/* •</u>	<u> </u>	<u>. c c.cc</u>	<u></u>	<u>/*                                    </u>	<u></u>		<u>gao.co</u>	<u> </u>
	1999	1,321,319		1,321,319		1998-1999		\$ 12,545,951		\$ 527,896 \$	501,838	\$ -	\$ 11,516,217
	2000	1,428,689	8.1%	1,375,004	8.1%	1999-2000	36.39	51,983,020		2,187,290	2,079,321	-	47,716,410
	2001	1,498,278	4.9%	1,463,484	6.5%	2000-2001	37.10	55,585,901	6.9%	2,338,888	2,223,436	4,980,818	46,042,758
	2002	1,578,332	5.3%	1,538,305	5.1%	2001-2002	35.70	56,344,710	1.4%	2,370,816	2,253,788	19,653,640	32,066,465
	2003	1,641,529	4.0%	1,609,931	4.7%	2002-2003	36.90	60,579,149	7.5%	2,548,989	2,423,166	21,130,658	34,476,336
	2004	1,747,025	6.4%	1,694,277	5.2%	2003-2004	39.91	69,724,324	15.1%	2,306,023	2,788,973	24,584,217	40,045,111
Di Di	2005	1,815,700	3.9%	1,781,363	5.2%	2004-2005	44.62	81,025,486	16.2%	2,454,508	3,241,019	28,625,384	46,704,574
<u> </u>	2006	1,912,654	5.3%	1,864,177	4.6%	2005-2006	46.23	88,428,765	9.1%	3,188,091	3,537,151	31,080,961	50,622,562
l lec	2007	1,996,542	4.4%	1,954,598	4.9%	2006-2007	44.76	89,374,124	1.1%	2,753,898	3,574,965	31,557,199	51,488,062
×	2008	1,986,145	-0.5%	1,991,344	1.9%	2007-2008	43.44	86,276,491	-3.5%	2,398,479	3,451,060	30,562,242	49,864,710
T <sub>a</sub>	2009	2,006,347	1.0%	1,996,246	0.2%	2008-2009	37.40	75,034,067	-13.0%	2,141,447	3,001,363	26,558,678	43,332,579
l ë	2010	1,951,269	-2.7%	1,978,808	-0.9%	2009-2010	34.80	67,906,159	-9.5%	2,102,918	2,716,246	23,973,058	39,113,937
Actual Sales Tax Received	2011	1,966,630	0.8%	1,958,950	-1.0%	2010-2011	36.06	70,916,346	4.4%	2,368,827	2,836,654	24,970,129	40,740,737
tua	2012	2,008,654	2.1%	1,987,642	1.5%	2011-2012	37.45	75,221,529	6.1%	2,512,633	3,008,861	26,486,013	43,214,022
Αc	2013	2,062,253	2.7%	2,035,454	2.4%	2012-2013	38.55	79,492,423	5.7%	2,655,294	3,179,697	27,989,825	45,667,607
	2014	2,102,238	1.9%	2,082,246	2.3%	2013-2014	40.49	85,125,747	7.1%	2,843,465	3,405,030	29,973,356	48,903,896
	2015	2,147,641	2.2%	2,124,940	2.0%	2014-2015	42.38	91,023,954	6.9%	3,040,483	3,640,958	32,050,155	52,292,358
	2016	2,205,207	2.7%	2,176,424	2.4%	2015-2016	42.83	94,458,852	3.8%	3,155,219	3,778,354	33,259,606	54,265,673
	2017	2,248,390	2.0%	2,226,799	2.3%	2016-2017	44.05	99,036,481	4.8%	3,308,126	3,961,459	34,871,420	56,895,475
	2018	2,284,616	1.6%	2,266,503	1.8%	2017-2018	45.27	103,422,250	4.4%	3,842,512	4,136,890	36,268,282	59,174,566
	2019	2,330,000	2.0%	2,307,308	1.8%	2018-2019	47.60	110,912,175	7.2%	3,534,452	4,436,487	39,117,670	63,823,566
<b>σ</b>	2020	2,382,000	2.2%	2,356,000	2.1%	2019-2020	48.47	114,198,722	3.0%	3,341,380	4,567,949	40,389,971	65,899,421
Sales 2)	2021	2,432,000	2.1%	2,407,000	2.2%	2020-2021	49.90	120,097,564	5.2%	3,513,977	4,803,903	42,476,282	69,303,402
<b>d</b> Si	2022	2,473,000	1.7%	2,452,500	1.9%	2021-2022	51.37	125,973,296	4.9%	3,685,897	5,038,932	44,554,420	72,694,047
ected S Tax <sup>(2)</sup>	2023	2,514,000	1.7%	2,493,500	1.7%	2022-2023	52.88	131,858,618	4.7%	3,858,098	5,274,345	46,635,949	76,090,226
Projected Tax <sup>(2</sup>	2024	2,550,000	1.4%	2,532,000	1.5%	2023-2024	54.44	137,851,517	4.5%	4,033,446	5,514,061	48,755,526	79,548,484
P	2025	2,583,000	1.3%	2,566,500	1.4%	2024-2025	56.06	143,866,047	4.4%	4,209,427	5,754,642	50,882,754	83,019,224
							- -	\$ 2,378,263,666	:	\$ 77,222,480 \$	95,130,548	\$ 801,388,212	\$ 1,404,522,426

Totals may be off slightly due to rounding.

2020 Las Vegas Wash CIP - Appendix H 1 of 1 02/19/2020

<sup>(1)</sup> Source: Center for Business and Economic Research http://www.clarkcountynv.gov/comprehensive-planning/advanced-planning/Documents/2019%20CBER%20Population%20Forecasts.pdf.

<sup>(2)</sup> The projected sales tax receipts are caculated using the most recent fiscal year's actual sales tax received and adding the Clark County's population growth percentage and adding a 3% for inflation.

<sup>(3)</sup> 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. On September 3, 2019 the Board of County Commissioners of Clark County adopted an ordinance determining that the cessation of the sales tax was not advisable and that it would remain in place beyond the statutorily

<sup>3, 2019</sup> the Board of County Commissioners of Clark County adopted an ordinance determining that the cessation of the sales tax was not advisable and that it would remain in place beyond the statutorily prescribed sunset provision.

## Appendix I Interfund Loan Activity



### Southern Nevada Water Authority INTERFUND LOAN ACTIVITY

### Historical Through June 30, 2019 Projected From July 1, 2019 Through June 30, 2025

HISTORICAL SOURCES

	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	C/ 12		5001(625					
	Beginning			Total						
Fiscal Year	Balance	E	Borrowings	Payback	Fro	m Sales Tax <sup>(1)</sup>	F	rom Grants		Total
2005-2006	\$ -	\$	1,771,721	\$ 3,246	\$	3,207,620	\$		\$	3,207,620
2006-2007	1,768,475		3,043,206	243,901		3,876,451		255,000		4,131,451
2007-2008	4,567,781		8,128,593	9,997,688		3,487,927		9,322,409		12,810,336
2008-2009	2,698,686		2,145,993	2,775,949		3,107,974		2,553,086		5,661,060
2009-2010	2,068,730		4,884,051	2,194,931		2,719,663		1,063,408		3,783,071
2010-2011	4,757,850		994,459	5,123,444		2,805,838		6,256,818		9,062,656
2011-2012	628,865		2,855,066	1,887,910		2,975,620		5,888,857		8,864,477
2012-2013	1,596,021		51,453	1,647,474		3,153,590		10,831,754		13,985,344
2013-2014	-		4,894,069	144,767		3,356,267		3,593,596		6,949,863
2014-2015	4,749,302		4,939,231	778,204		3,612,138		8,287,704		11,899,841
2015-2016	8,910,329		-	5,572,917		3,754,616		3,377,201		7,131,817
2016-2017	3,337,411		-	279,761		3,927,649		37,934		3,965,583
2017-2018	3,057,650		9,982,951	-		4,099,303		3,129,324		7,228,627
2018-2019	13,040,601		1,437,634	-		4,384,585		875,418		5,260,002
2019-2020	14,478,236									
		\$	45,128,427	\$ 30,650,191	\$	48,469,240	\$	55,472,508	\$	103,941,748

#### **PROJECTED**

		Е	stimated	Co	nstruction	Construction		Sales
	Beginning	Co	nstruction	To k	e Financed	To be Paid	Interest	Tax
Fiscal Year	Balance	To b	e Financed <sup>(2)</sup>	With	n Sales Tax <sup>(3)</sup>	With Grants	Expense	Receipts
2019-2020	\$ 14,478,236	\$	918,750	\$	918,750	\$ -	\$ 541,452	\$ 4,567,949
2020-2021	11,370,488		4,684,308		4,684,308	-	562,545	4,803,903
2021-2022	11,813,438		4,353,293		4,353,293	-	556,390	5,038,932
2022-2023	11,684,189		-		-	-	320,492	5,274,345
2023-2024	6,730,336		-		-	-	60,814	5,514,061
2024-2025	1,277,089		-		-	-	-	1,277,089
		\$	9,956,351	\$	9,956,351	\$ -	\$ 2,041,692	\$ 26,476,279

Totals may be off slightly due to rounding.

- (1) Sales tax received during the corresponding fiscal year. Sales tax has also been used for pay-as-you-go construction costs.
- (2) Estimated construction is based on cash flow projections in the Las Vegas Wash Capital Plan.

<sup>(3)</sup> 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. On September 3, 2019 the Board of County Commissioners of Clark County adopted an ordinance determining that the cessation of the sales tax was not advisable and that it would remain in place beyond the statutorily prescribed sunset provision.

# Appendix J Completed Las Vegas Wash Weir Projects Summary

#### **Completed Projects Summary**

		Year	
Project No.	Project Title	Completed	Cost (\$1,000)
	Temporary Demonstration Weir	1999	\$173
810A	Fire Station Weir	2000	\$63
810C	Historic Lateral Weir (preliminary structure installed in year 2000)	2019	\$1,823
810D	Pabco Weir	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 (previously named Landfill Weir)	2005	\$1,868
810P	Powerline Weir	2007	\$5,883
810F	Upper Diversion Weir	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	2015	\$5,846
810Z	Archery Weir	2015	\$5,846
810K	Three Kids Weir (prelim. Structure aka Temp. Demo. Weir installed yr, 1999	2015	\$11,942
810S	Tropicana Weir	2018	\$9,005
810W	Sunrise Moutain Weir and Historic Lateral Expansion	2019	\$14,632
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
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 - Pile Station (650 II)  Bank Protection South - Duck Creek Confluence (700 If)	2010	\$90
840G 840D	, , ,	2010	\$122
	Bank Protection South - Pabco (320 lf)		
830C	Bank Protection North - Historic Lateral (400 lf)	2011	\$152
830E	Bank Protection North - Bostick (155 lf) Bank Protection North - Pabco (690 lf)	2011	\$59

#### **Completed Projects Summary**

		Year	
Project No.	Project Title	Completed	Cost (\$1,000)
880B	Revegetation South - Demonstration (4.23 ac)	2000	\$63
870C/880C	Revegetation - Historic Lateral (4.90 ac)	2001	\$231
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
880U	Revegetation - Silver Bowl	2019	\$541
880K	Revegetation - Three Kids	2019	\$449
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	\$131,516