



Capital Improvement Plan

Fiscal Years 2008–09 through 2013–14

March 2008

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Clean Water Coalition, Nevada Capital Improvement Plan

Fiscal Years 2008-09 through 2013-14

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March 2008

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City of Las Vegas
City of Henderson
City of North Las Vegas



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Capital Improvement Program

The Clean Water Coalition's Capital Improvement Program (CIP) is a five-year plan that is updated annually in conjunction with the preparation of the CWC's operating budget. The CIP identifies the activities of the various phases of the Systems Conveyance and Operations Program (SCOP), the anticipated cash flows for SCOP, and associated funding sources.

CAPITAL BUDGET PROCESS

The CIP is a multi-year plan for financing government facility construction, improvements, and equipment acquisition. The goals of the program are as follows:

- Assess capital needs
- Identify funding sources for the capital projects/programs, which ultimately will provide the greatest return on investment while meeting the increasing demand for infrastructure, public facilities and services.
- Improve financial planning through disclosure of future bond sales and assess fiscal impact.

Needs Assessment

In conjunction with the CWC's operational plan and preparation of the annual budget, the SCOP project is examined as to the current completion schedule regarding pre-design, final design and construction. Milestone deliverables are consistently updated with the most recent estimations to ensure capital authority and timely funding is available to maintain the pace of the project. Funding is anticipated to be derived from the following sources:

1. Proceeds from debt-the CWC has the legal authority to issue debt through both the Nevada State Bond Bank and the Clark County Bond Bank. All debt would be backed by revenue generated through regional wastewater usage and connection surcharges. Initial debt will be short-term, paid off through the issuance of long-term debt.
2. Revenues generated through regional wastewater usage and connection surcharges not required for debt service, fund balance or operational expenses.
3. Proceeds from state or Federal grants, or revenues derived from special legislation. Even though revenues received from grants are not anticipated to be significant, every effort will be made to maximize federal and state participation and, therefore, reduce local funding requirements.

Capital Budget Preparation

The preparation and refinement of the CIP is an ongoing process that begins with identifying the various critical paths for deliverables for the SCOP project. Once all updated information is entered into the model, estimates of expenditures for future years are developed and included within both the annual budget and the revised CIP.

Once the revisions have been made by the CWC, the draft information is presented to each member agency's financial manager for review and comments. All comments are received and evaluated, and modifications to the CIP are made accordingly. The final CIP is approved by the CWC Board and each CWC member agency's board or council. Per the Nevada Revised Statutes (NRS), final approval is required prior to the end of the previous fiscal year.

Modification of the Capital Plan

During the design stages of the SCOP project, new technologies may become available that would improve the final outcome of the project, increase the life expectancy of the project, or otherwise reduce the overall cost of the project. Such technologies will be reviewed by experts in the field and approved through various committees before inclusion into the CIP. Any changes from the prior CIP will be specifically identified in a separate section to create a document that is as transparent as possible for public information. Modifications or amendments to the CIP require CWC Board **and** CWC member agency board/council's approval.

Capital Improvement Plan - Scope

The CIP represents the lifespan of the SCOP project, with particular emphasis on the five-year planning horizon, FY 2008-2009 through FY 2013-2014. Information concerning expenses incurred in earlier years is displayed as a note to present a comprehensive view of the total project cost.

OVERVIEW OF CAPITAL IMPROVEMENT PLAN

Sources and Uses of Funds

Sources and uses of funds for the Clean Water Coalition's five-year CIP are shown in the following table (Table 1-1). The information includes sources and uses of funds for the active project for a five-year planning horizon, FY 2008-2009 through FY 2013-2014. Prior years' activities and FY 2007-2008 estimates are included to present a comprehensive view of the total project cost.

A total of \$828 million in funding sources are identified. The CWC's primary sources of capital funding are from bond proceeds, regional wastewater connection and usage surcharges, and member agency contributions. The CWC's CIP identifies approximately \$828 million in project costs.

Table 1-1

Capital Improvement Program - Sources and Uses of Funds (\$ millions)

	Prior FYs	Est. FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Total	%t
Beginning Balances	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	N/A
Funding Sources:										
Debt Proceeds	\$ -	\$ -	\$145.00	\$232.24	\$213.11	\$155.79	\$ -	\$ -	\$ 746.14	90.1%
Connection/Usage Surcharges	\$ -	\$ -	\$ 11.21	\$ 1.68	\$ 1.68	\$ 1.68	\$ 4.64	\$ 0.18	\$ 21.07	2.5%
Entity Contributions	\$ 30.82	\$ 27.23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58.05	7.0%
Interest Earnings/Misc	\$ 0.03	\$ 0.03	\$ 1.50	\$ 0.30	\$ 0.30	\$ 0.30	\$ 0.30	\$ -	\$ 2.76	0.3%
Total Revenues*	\$ 30.85	\$ 27.26	\$157.71	\$234.22	\$215.09	\$157.77	\$ 4.94	\$ 0.18	\$ 828.02	
Total Resources*	\$ 30.85	\$ 27.26	\$157.71	\$234.22	\$215.09	\$157.77	\$ 4.94	\$ 0.18	\$ 828.02	
Uses by Activity:										
Pre-Design/EIS	\$ 27.60	\$ 3.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31.46	3.8%
Final Design	\$ 0.16	\$ 15.28	\$ 10.89	\$ 2.18	\$ 1.48	\$ 0.99	\$ -	\$ -	\$ 30.98	3.7%
Construction	\$ -	\$ 6.01	\$141.74	\$227.49	\$208.99	\$152.07	\$ 0.34	\$ -	\$ 736.64	89.0%
Other Capital	\$ -	\$ -	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 0.18	\$ 1.08	0.1%
Administration	\$ 3.10	\$ 2.10	\$ 4.90	\$ 4.37	\$ 4.44	\$ 4.52	\$ 4.42	\$ -	\$ 27.85	3.4%
Total Costs*	\$ 30.85	\$ 27.26	\$157.71	\$234.22	\$215.09	\$157.77	\$ 4.94	\$ 0.18	\$ 828.02	
Ending Balances	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Operating Impact**										
Est. Start-Up Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$(0.79)	\$(0.05)	\$ -	\$ (0.84)	
Est. Operating Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$(4.65)	\$(4.79)	\$ (9.44)	
Hydroelectric Power Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5.00	\$ 5.00	\$ 10.00	
"Green" Credit Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1.00	\$ 1.00	\$ 2.00	
Net Operating Impact	\$ -	\$ -	\$ -	\$ -	\$ -	\$(0.79)	\$ 1.30	\$ 1.21	\$ 1.72	

* Totals may vary due to rounding - Administrative expenses increase in FY 2009 due to federal requirements of testing and monitoring.

** Operating Impact of the SCOP project will be positive once on-line in FY 2013, due to the hydroelectric generation of the plant

SCOP Timeline

A Gantt chart is used identify the phases of the SCOP lifecycle:

Figure 1-1

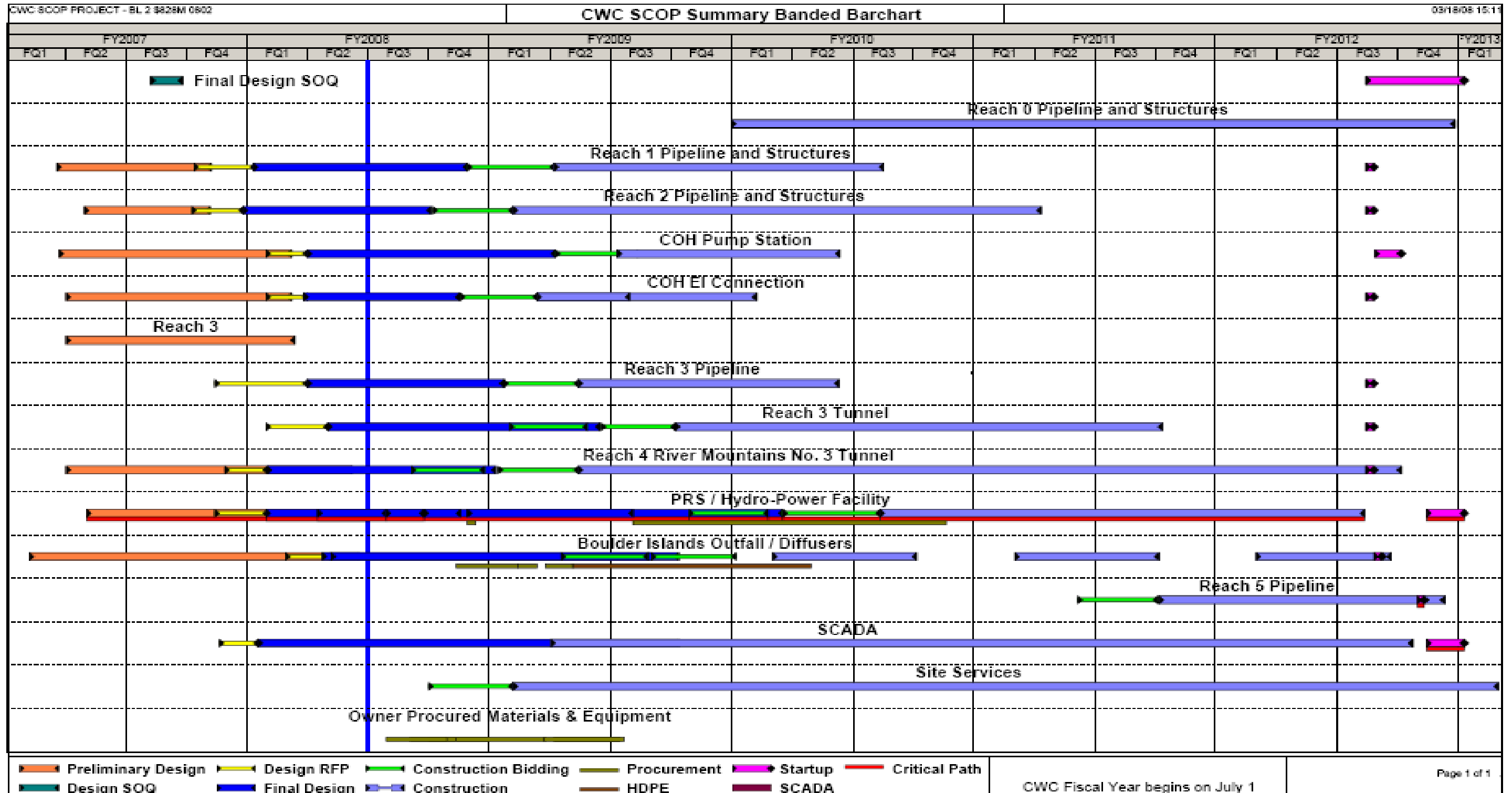


Table 1-2 displays the summary costs for the SCOP construction and associated design phases (detailed costs by contract are displayed in the Appendix).

TABLE 1-2

**Systems Conveyance and Operations Program
Cost Summary Expenditure Year Dollars**

Description	Cost
City of North Las Vegas Connection - Reach 0	\$ 35,000,000
City of Las Vegas Pipeline/Diversion Structure - Reach 1	\$ 19,854,000
Clark County Reclamation District -Reach 2	\$ 43,588,000
Reach 3 Tunnel	\$ 31,008,000
Reach 3 Pipeline	\$ 14,064,000
City of Henderson Connection -Wash Crossing	\$ 13,780,000
City of Henderson Pump Station	\$ 5,717,000
River Mountains Tunnel #3 - Reach 4	\$ 175,103,000
Reach 5 Pipeline	\$ 19,573,000
Hydroelectric Power Generating Facility	\$ 51,662,000
Boulder Islands Outfall	\$ 189,983,000
SCADA (Automated System Control)	\$ 1,111,000
Site Services (Clean-up and Restoration)	\$ 6,708,000
Total	\$ 607,151,000
<hr/>	
Contingency (13.0%)	\$ 79,087,000
Construction Mgt.	\$ 52,394,000
Preliminary Design	\$ 12,899,000
Final Design	\$ 20,444,000
LDE Services During Final Design	\$ 10,142,000
CWC Administration	\$ 17,426,000
CWC Capital - Other	\$ 920,000
Additional Services	\$ 27,618,000
Grand Total	\$ 828,081,000

SCOP Cost Summary

SCOP Project Map



Detail Data by Section

The Systems Conveyance and Operations Program (SCOP) project is divided into three segments: the Effluent Interceptor, the Lake Conveyance System, and the Boulder Island Outfall. The Effluent Interceptor consists of a series of diversion structures and a conveyance pipeline to collect and convey highly treated wastewater (effluent) from all of the member agencies' treatment facilities to the Lake Conveyance System. The Lake Conveyance System includes a large diameter tunnel constructed through the River Mountains and a pressure reducing / power generating station which will reduce the hydraulic pressure of the effluent and generate electricity before discharge through the outfall diffusers. The Boulder Island Outfall is comprised of a diffuser control structure and five diffuser pipelines which will transport and diffuse the effluent at various deep water locations in Lake Mead. Each segment of the SCOP project is interconnected and will be operated as a single effluent conveyance and discharge system.

The Effluent Interceptor consists of effluent diversion facilities and conveyance pipeline including: effluent diversion structures at the City of Las Vegas Water Pollution Control Facility and the Clark County Water Reclamation Department (CCWRD) Central Plant and Advanced Wastewater Treatment (AWT); an effluent interceptor control structure to facilitate system control; a diversion structure, pumping station and forcemain at the City of Henderson Water Reclamation Facility; a large effluent pipeline; and a large diameter tunnel crossing the Las Vegas Wash. In the future, an interceptor may be extended upstream to capture flows from the City of North Las Vegas treatment facility. The diversion structures located at each plant will enable effluent to be diverted either to the Las Vegas Wash or to the effluent interceptor for conveyance to Lake Mead. The large diameter effluent interceptor pipeline roughly parallels the Las Vegas Wash from Desert Inn Road to a point one mile southwest of Lake Las Vegas near the Three Kids Mine Wash. The large diameter wash crossing tunnel connects the effluent interceptor pipeline to the Lake Conveyance System tunnel.

The Lake Conveyance System begins southwest of the Las Vegas Wash at the connection to the Las Vegas Wash tunnel crossing and continues to a point east of River Mountains, one mile west of Saddle Island, within the Lake Mead National Recreation Area. The Lake Conveyance System includes a large diameter tunnel through the River Mountains and a pressure reducing / power generating station (PR/PGS). The pressure reducing station will primarily use hydropower turbines to reduce pressure and generate electric power as a secondary benefit to the SCOP operations.

The final segment is referred to as the Boulder Island Outfall. This segment begins at the PR/PGS and carries the effluent into Lake Mead to be discharged through a series of five deep-water diffusers.

Segment Lengths

The length of each of the segments is as follows:

Effluent Interceptor (EI)	
City of Las Vegas WPCF to Lake Conveyance System	33,000 feet
City of Henderson WRF to Effluent Interceptor	6,500 feet
Lake Conveyance System (LCS)	
Effluent Interceptor to PR/PGS	44,000 feet
Boulder Island Outfall	
Reach 5 Pipeline (PR/PGS to outfall diffuser: cumulative length 5 pipes)	5,280 feet
Outfall Diffuser (5 diffuser pipelines: cumulative length)	53,000 feet

Description of Project Elements

Effluent Interceptor

Reach 0 Reach 0 will collect effluent from the planned City of North Las Vegas water reclamation facility. It may consist of a pipeline or flood channel improvements. The CWC Board approved the addition of a not-to-exceed amount of \$35 million for this reach.

Reach 1 Reach 1 includes the effluent diversion structure at the City of Las Vegas Water Pollution Control Facility (CLV WPCF) and the Effluent Interceptor pipeline from the diversion structure to the Effluent Interceptor (EI) Control Structure near the CCWRD Central Plant. The effluent pipeline from the City of Las Vegas WPCF to the EI Control Structure is comprised of 8,000 feet of 96-inch diameter pipe. This pipeline section includes a wash crossing tunnel at the upper portion of Reach 1.

Reach 2 Reach 2 consists of the EI Control Structure, effluent diversion structures at the CCWRD Central Plant and AWT, the Wash Return Structure at the EI Control Structure, and the EI pipeline from the EI Control Structure to Reach 3. The pipeline from the EI Control Structure to the Reach 3 connection point is comprised of 13,500 feet of 114-inch diameter pipe.

Reach 3 Reach 3 consists of an open cut pipeline and a large diameter tunnel crossing. The cut-and-cover portion of Reach 3 begins at the connection to Reach 2 and includes approximately 6,350 feet of pipeline to the Reach 3 Tunnel. The Reach 3 Tunnel is comprised of 5,280 feet of 120-inch diameter tunnel which crosses under the Las Vegas Wash. Reach 3 connects the EI with the Lake Conveyance System at Reach 4 (River Mountains Tunnel No. 3).

City of Henderson Pumping Station and Forcemain This section includes a 77 MGD pumping station at the COH Water Reclamation Facility, 4,700 feet of 60-inch diameter forcemain, 1,000 feet of 48-inch wash crossing tunnel section, and an isolation valve structure. The isolation valve structure connects to Reach 3, just downstream of Reach 2, near the Pabco Weir.

Lake Conveyance System

Reach 4 (River Mountains Tunnel No. 3) Reach 4 consists of the River Mountains Tunnel No. 3, which extends from Reach 3 to the Pressure Reducing/Power Generation Station (PR/PGS) located on the east side of River Mountains, one mile west of Saddle Island. This section is comprised of a 44,000-foot long, 120-inch minimum diameter tunnel. The east shaft location connects to the PR/PGS facility located adjacent to the Alfred Merritt Smith Water Treatment Facility (AMSWTF).

Pressure Reducing/Power Generation Station This facility will consist of a hydroelectric power station with two hydroelectric turbines capable of generating 16 megawatts of electricity and three sleeve valves configured to allow the full effluent flow to bypass the hydroelectric turbines and flow through the pressure regulating sleeve valves. The generation of “clean” electric power is a secondary benefit to the SCOP project.

Diffuser Control Structure This structure is located downstream and adjacent to the PR/PGS. The structure will provide the necessary backpressure for the turbines, remove entrained air in the effluent, and control flows to the five individual pipelines in Reach 5.

Boulder Island Outfall

Reach 5 Pipeline Reach 5 is comprised of five parallel cut-and-cover pipelines connecting the Diffuser Control Structure to the Outfall Diffuser. Each pipeline will be 63-inch in diameter and 6,100 feet in length.

Outfall Diffuser This section is comprised of five 63-inch diameter pipes connecting Reach 5 locations near Boulder Island, conveying and diffusing effluent in deep-water sections of Lake Mead. The pipes run in a dredged-and-cover section to the 1,000-foot contour in Lake Mead and then to a sub-aqueous pipeline that is anchored to the bottom of the lake. The diffuser pipes vary in length between 7,900 feet to 13,900 feet. The length of the pipe section is 2,900 feet for the dredged portion of each pipeline; and 5,000 to 11,000 feet for each sub-aqueous section. Each pipe will end with a discharge port located approximately 1,000 feet apart. The effluent flow will discharge into the lake on the northeast side of the Boulder Islands. The effluent released through the ports will be set specific angles that, depending on lake conditions, will allow the effluent to remain below the thermocline during the stratified period and not break the surface of the lake during the de-stratified period and mix well with existing water strata.

Operations and Controls

SCADA System System Control and Data Acquisition - A system-wide, computer control operations for the SCOP project. The SCADA system will include communication, monitoring and control functions to all of the SCOP systems. The system status will be available to the CWC headquarters and all member agency facilities.

Construction Support

Sites Services The Site Services contract includes remediation and reclamation of disturbed sites within the area of SCOP activities, including Reach 4 - River Mountains Tunnel No. 3 lake side operations, PR/PGS construction, Reach 5 Pipeline, and Outfall Diffuser System activities.

Operating Impact

The estimated expenditures for operations and maintenance of the SCOP are comprised of the following (FY 2012 dollars):

- * Estimated cost for general maintenance – materials - \$ 750,000 annually
- * Estimated cost of member agency personnel utilized to operate and maintain power generation plant - \$ 1,500,000 annually
- * Estimated cost of member agency personnel utilized to operate and maintain City of Henderson pump station - \$ 250,000 annually
- * Estimated cost of member agency personnel to maintain connection structures/pipelines - \$ 500,000 annually
- * Estimated cost of materials for replacement or damaged/worn parts - \$ 1,650,000 annually

The estimated costs for operation and maintenance of the SCOP are based on industry estimates, taking into account maximum anticipated costs at start-up. Operating costs displayed above do not include replacement of major components, such as turbines. Replacement of major components is included in the long-range forecast for revenue requirements. It is anticipated turbines will need to be replaced on a 20-year basis, while the pumping station equipment at the City of Henderson will require rebuilds on a 10-year cycle. Since equipment at the pump station has redundancy, no total replacement of equipment is anticipated in current forecast models.

SCOP Cash Flow by Fiscal Year

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2008-09							2008-09
	Final Design						\$7,887,000
	COH Pump Station	27.7%	\$545,000	\$135,000	10.5%	\$16,000	\$151,000
	Reach 3 Pipeline	7.8%	\$701,000	\$49,000	11.5%	\$6,000	\$55,000
	Reach 3 Tunnel	42.4%	\$2,898,000	\$1,093,000	11.0%	\$135,000	\$1,228,000
	Reach 4 River Mountains #3 Tunnel	5.5%	\$1,982,000	\$88,000	18.1%	\$20,000	\$108,000
	PRS/Hydroelectric Generation Facility	63%	\$4,668,000	\$2,710,800	7.8%	\$230,200	\$2,941,000
	Boulder Islands Outfall/Diffuser	50.2%	\$5,903,000	\$2,620,000	11.6%	\$345,000	\$2,965,000
	Reach 5 Pipeline	20.0%	\$55,000	\$11,000	0%	\$0	\$11,000
	Geotech Investigations	26.6%	\$88,000	\$21,000	9.1%	\$2,000	\$23,000
	SCADA	46.1%	\$878,000	\$363,000	10.3%	\$42,000	\$405,000
	Construction						\$132,359,000
	Reach 1 Pipeline and Structures	67.9%	\$21,838,000	\$1,347,300	9.1%	\$1,346,000	\$14,819,000
	Reach 2 Pipeline and Structures	38.2%	\$47,624,000	\$16,739,000	8.0%	\$1,465,000	\$18,204,000
	COH Pump Station	46.3%	\$6,515,000	\$2,650,000	12.2%	\$369,000	\$3,019,000
	COH Connection to EI Pipeline	97.6%	\$15,156,000	\$13,450,000	9.1%	\$1,344,000	\$14,794,000
	Reach 3 Pipeline	75.2%	\$15,469,000	\$10,579,000	9.1%	\$1,056,000	\$11,635,000
	Reach 3 Tunnel	8.3%	\$33,366,000	\$2,689,000	2.9%	\$81,000	\$2,770,000
	Reach 4 River Mountains #3 Tunnel	19.7%	\$218,075,000	\$35,016,000	18.5%	\$7,950,000	\$42,966,000
	PRS/Hydroelectric Generation Facility	6.0%	\$56,903,000	\$3,410,000	0%	\$0	\$3,410,000
	Boulder Islands Outfall/Diffuser	9.1%	\$206,164,000	\$17,236,000	8.6%	\$1,617,000	\$18,853,000
	SCADA	21.0%	\$1,222,000	\$234,000	9.1%	\$23,000	\$257,000
	Site Services	22.1%	\$7,377,000	\$1,484,000	9.1%	\$148,000	\$1,632,000
	Related Services						\$12,390,000
	LDE Services During Design/Construction	30.8%	\$9,756,000	\$3,007,000	0%	\$0	\$3,007,000
	Construction Management	19.3%	\$48,562,000	\$9,383,000	0%	\$0	\$9,383,000
	Additional Services and Miscellaneous Costs						\$4,897,000
	CWC Administration			\$2,413,000			\$2,413,000
	Professional Service Contracts -Legal	14.7%	\$2,375,000	\$350,000	0%	\$0	\$350,000
	Environmental Mitigation	35.1%	\$3,132,000	\$1,100,000	0%	\$0	\$1,100,000
	Water Quality Modeling/Monitoring	19.2%	\$4,435,000	\$850,000	0%	\$0	\$850,000
	Other Capital			\$184,000			\$184,000
2008-09	YEARLY TOTALS			\$141,338,000		\$16,195,000	\$157,533,000

Totals may not equal due to rounding

Clean Water Coalition – Capital Improvement Plan

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	
2009-10							2009-10
	Final Design						\$88,000
	PRS/Hydroelectric Generation Facility	1.9%	\$4,668,000	\$39,000	55.2%	\$49,000	\$88,000
	Construction						\$212,285,000
	Reach 0 Pipeline and Structures	33.5%	\$35,000,000	\$11,729,000	0%	\$0	\$11,729,000
	Reach 1 Pipeline and Structures	32.1%	\$21,838,000	\$6,377,000	9.1%	\$638,000	\$7,015,000
	Reach 2 Pipeline and Structures	56.8%	\$47,624,000	\$24,709,000	8.7%	\$2,358,000	\$27,067,000
	COH Pump Station	53.7%	\$6,515,000	\$3,067,000	12.3%	\$429,000	\$3,496,000
	COH Connection to EI Pipeline	2.3%	\$15,156,000	\$324,000	9.1%	\$32,000	\$356,000
	Reach 3 Pipeline	24.8%	\$15,469,000	\$3,485,000	9.1%	\$348,000	\$3,833,000
	Reach 3 Tunnel	30.1%	\$33,366,000	\$9,371,000	6.6%	\$666,000	\$10,037,000
	Reach 4 River Mountains #3 Tunnel	29.1%	\$218,075,000	\$50,722,000	20.0%	\$12,680,000	\$63,402,000
	PRS/Hydroelectric Generation Facility	28.0%	\$56,903,000	\$14,875,000	6.5%	\$1,038,000	\$15,913,000
	Boulder Islands Outfall/Diffuser	32.6%	\$206,164,000	\$62,003,000	7.9%	\$5,284,000	\$67,287,000
	SCADA	28.2%	\$1,222,000	\$313,000	9.1%	\$31,000	\$344,000
	Site Services	24.5%	\$7,377,000	\$1,642,000	9.1%	\$164,000	\$1,806,000
	Related Services						\$17,296,000
	LDE Services During Design/Construction	21.4%	\$9,756,000	\$2,089,000	0%	\$0	\$2,089,000
	Construction Management	30.1%	\$50,555,000	\$15,207,000	0%	\$0	\$15,207,000
	Additional Services and Miscellaneous Costs						\$4,373,000
	CWC Administration			\$2,498,000			\$2,498,000
	Professional Service Contracts -Legal	14.7%	\$2,375,000	\$350,000	0%	\$0	\$350,000
	Environmental Mitigation	16.0%	\$3,132,000	\$500,000	0%	\$0	\$500,000
	Water Quality Modeling/Monitoring	19.2%	\$4,435,000	\$850,000	0%	\$0	\$850,000
	Other Capital			\$184,000			\$184,000
2009-10	YEARLY TOTALS			\$210,325,000		\$23,717,000	\$234,042,000

Totals may not equal due to rounding

Clean Water Coalition – Capital Improvement Plan

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2010-11							2010-11
	Construction						\$195,692,000
	Reach 0 Pipeline and Structures	33.5%	\$35,000,000	\$11,729,000	0%	\$0	\$11,729,000
	Reach 2 Pipeline and Structures	4.9%	\$47,624,000	\$2,129,000	9.1%	\$213,000	\$2,342,000
	Reach 3 Tunnel	61.6%	\$33,366,000	\$18,948,000	7.8%	\$1,611,000	\$20,559,000
	Reach 4 River Mountains #3 Tunnel	29.1%	\$218,075,000	\$50,722,000	20.0%	\$12,680,000	\$63,402,000
	PRS/Hydroelectric Generation Facility	38.0%	\$56,903,000	\$19,029,000	12.1%	\$2,615,000	\$21,644,000
	Boulder Islands Outfall/Diffuser	33.7%	\$206,164,000	\$64,088,000	7.7%	\$5,371,000	\$69,459,000
	Reach 5 Pipeline	20.5%	\$21,528,000	\$4,008,000	9.1%	\$399,000	\$4,407,000
	SCADA	28.2%	\$1,222,000	\$313,000	9.1%	\$31,000	\$344,000
	Site Services	24.5%	\$7,377,000	\$1,642,000	9.1%	\$164,000	\$1,806,000
	Related Services						\$14,778,000
	LDE Services During Design/Construction	16.2%	\$9,098,000	\$1,476,000	0%	\$0	\$1,476,000
	Construction Management	28.3%	\$46,965,000	\$13,302,000	0%	\$0	\$13,302,000
	Additional Services and Miscellaneous Costs						\$4,468,000
	CWC Administration			\$2,584,000			\$2,584,000
	Professional Service Contracts -Legal	14.7%	\$2,375,000	\$350,000	0%	\$0	\$350,000
	Environmental Mitigation	16.0%	\$3,132,000	\$500,000	0%	\$0	\$500,000
	Water Quality Modeling/Monitoring	19.2%	\$4,435,000	\$850,000	0%	\$0	\$850,000
	Other Capital			\$184,000			\$184,000
2010-11	YEARLY TOTALS			\$191,854,000		\$23,084,000	\$214,938,000

Totals may not equal due to rounding

Clean Water Coalition – Capital Improvement Plan

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2011-12							2011-12
	Construction						\$142,758,000
	Reach 0 Pipeline and Structures	33.0%	\$35,000,000	\$11,543,000	0%	\$0	\$11,543,000
	Reach 4 River Mountains #3 Tunnel	22.2%	\$218,075,000	\$38,645,000	20.0%	\$9,661,000	\$48,306,000
	PRS/Hydroelectric Generation Facility	23.1%	\$56,903,000	\$11,553,000	12.1%	\$1,588,000	\$13,141,000
	Boulder Islands Outfall/Diffuser	24.5%	\$206,164,000	\$46,654,000	7.7%	\$3,910,000	\$50,564,000
	Reach 5 Pipeline	79.5%	\$21,528,000	\$15,565,000	9.1%	\$1,556,000	\$17,121,000
	SCADA	22.7%	\$1,222,000	\$252,000	9.1%	\$25,000	\$277,000
	Site Services	24.5%	\$7,377,000	\$1,642,000	9.1%	\$164,000	\$1,806,000
	Related Services						\$10,309,000
	LDE Services During Design/Construction	12.6%	\$7,858,000	\$994,000	0%	\$0	\$994,000
	Construction Management	22.9%	\$40,752,000	\$9,315,000	0%	\$0	\$9,315,000
	Additional Services and Miscellaneous Costs						\$4,558,000
	CWC Administration			\$2,674,000			\$2,674,000
	Professional Service Contracts -Legal	14.7%	\$2,375,000	\$350,000	0%	\$0	\$350,000
	Environmental Mitigation	16.0%	\$3,132,000	\$500,000	0%	\$0	\$500,000
	Water Quality Modeling/Monitoring	19.2%	\$4,435,000	\$850,000	0%	\$0	\$850,000
	Other Capital			\$184,000			\$184,000
2011-12	YEARLY TOTALS			\$140,649,000		\$16,976,000	\$157,625,000

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2012-13							2012-13
	Construction						\$315,000
	Site Services	4.3%	\$7,377,000	\$315,000	0%	\$0	\$315,000
	Related Services						\$24,000
	Construction Management	4.3%	\$569,000	\$24,000	0%	\$0	\$24,000
	Additional Services and Miscellaneous Costs						\$4,477,000
	CWC Administration			\$2,768,000			\$2,768,000
	Professional Service Contracts -Legal	14.7%	\$2,375,000	\$175,000	0%	\$0	\$175,000
	Environmental Mitigation	16.0%	\$3,132,000	\$500,000	0%	\$0	\$500,000
	Water Quality Modeling/Monitoring	19.2%	\$4,435,000	\$850,000	0%	\$0	\$850,000
	Other Capital			\$184,000			\$184,000
2012-13	YEARLY TOTALS			\$4,816,000		\$0	\$4,816,000

Totals may not equal due to rounding

Clean Water Coalition – Capital Improvement Plan

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2013-14							2013-14
	Additional Services and Miscellaneous Costs						\$184,000
	Other Capital			\$184,000			\$184,000
2013-14	YEARLY TOTALS			\$184,000		\$0	\$184,000

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	CONTINGENCIES		TOTAL
					%	Adj. Est. Cost	Adj. Est. Cost
2008-09	YEARLY TOTALS			\$141,338,000		\$16,195,000	\$157,533,000
2009-10	YEARLY TOTALS			\$210,325,000		\$23,717,000	\$234,042,000
2010-11	YEARLY TOTALS			\$191,854,000		\$23,084,000	\$214,938,000
2011-12	YEARLY TOTALS			\$140,649,000		\$16,976,000	\$157,625,000
2012-13	YEARLY TOTALS			\$4,816,000		\$0	\$4,816,000
2013-14	YEARLY TOTALS			\$184,000		\$0	\$184,000
PROGRAM TOTALS				\$689,166,000		\$79,972,000	\$769,138,000

Note: Periods prior to FY 2008-09 are not reflected in totals.

Totals may not equal due to rounding



Clean Water Coalition

Chip Maxfield
CWC Chairman
Board Chairman,
Clark County Water
Reclamation District

Larry Brown
CWC Vice Chairman
Councilman,
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