Project #8 Monitoring Program for JWPCP Marshland Enhancement Project

City of Carson and Sanitation Districts of Los Angele

Project Integration

Patricia Elkins 310-847-3529

pelkins@carson.ca.us

NA Partnering Agency:

Project Description

Develop and implement project assessment and evaluation plan and monitoring plan in accordance with SWRCB guidance and AWQGP guidelines to assess water quality benefits and pollutant load reductions achieved by 17 acre wetland restoration and enhancement project that will function as an offline wetland treatment system for 2.16 million gallons per day of water from the Wilimington Drain. (The marsh construction program is fully funded but no funds are currently provided for monitoring and assessment.)

Dominguez Watershed Master Pla		NA	<u>. 10,000 11000</u>	<u>.</u>	
Cooperating Agencies	Location	Description	Proj	ect Cost Estimate	
Sanitation Districts of Los	The marshland enhancement project is located		Lower Estimated Total Capital Cost (\$):		100000
NA	on the northeast corner of the Joint Water Pollution Control Plant adjacent to the		Upper Estimated Total Capital Cost (\$):		100000
NA NA	Wilmington Drain tha	at is tributary to Machado Lake.	Of total cost, estimat purchase/easement (-1
NA			Annual OM Cost (\$):		-1
Associated Watersheds			Design Life of Project	et (years):	-1
DCW		Project Source(s)		Sub-regio	on(s)
NA NA	Do	minguez Watershed Masterp	olan	SO_BAY	
NA NA	Dominguez Watershed Masterplan		olan	NA	
Is part of larger program?	Machado Lake Watershed Management Plan		nent Plan	NA	
TRUE	Mach	ado Lake TMDLs (in develor	oment)		

The project could be ready to proceed within six months. That time is needed to develop and obtain approval of a SWAMP-Compatible Project Assessment and Evaluation Plan, Monitoring Plan and Quality Assurance Plan. The marshland project has already been constructed and is operational—the purpose of this project would be to evaluate its effectiveness in improving water quality of channelized urban streams

Proposed Start Date: 1/1/2006
Proposed Completion Date: 1/1/2007
Ready For Construction Bid: N/A

<u>ltem</u>	<u>Status</u>	<u>Date</u>
Conceptual Plans	IN_PROC	1/1/2001 0:00
Land Acquisition	NA	1/1/1753 12:00:
Preliminary Plans	NA	1/1/1753 12:00:
CEQA/NEPA	NA	1/1/1753 12:00:
Permits	NA	1/1/1753 12:00:
Construction Drawings	NA	1/1/1753 12:00:
Funding	NOT_INIT	1/1/1753 12:00:

Project Need

Water Quality Objectives		Water Quality Benefits
Improve Storm Water Quality:	NA	Treatment Technology: NA
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 2
Receiving Water Body Qual. Improvement:	NA	Targeted Contaminants
Improved Flood Management:	NA	Metal: TRUE Pathogens: TRUE Nutrients: TRUE
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: TRUE Other: FALSE
Other: Assessment and Monitoring		Description: X Water Quality X Volume Treated 2.16 MGD

Water Supply Objectives		Water S	Sup
Reduced Reliance Imported Water:	NA	Surface Water	Stor
Increased Water Supply Reliability:	NA	GroundwaterT	reati
Increased Operational Flexibility:	NA	Reclaimed Gro	ound
Increased WaterConservation:	NA	Ocean Desalin	atio
Increased Water Recycling:	NA	Other: NA	
Increased Groundwater Management:	NA	Type of supply	//den
Reduced Sea Water Intrusion:	NA	Description:	
Protect/Improve Drinking Water Standards:	NA		
Other:		Annual Yield o	f Su
		Availability by	wate
Detention and Groundwater Rechar	<u>ge Benefit</u>	Average Year:	0
		Dry Year:	0
Acres of land that drain into basin: -1		Wot Voor:	Λ

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives				
Create/Enhance Wetlands:	NA			
Restore/Protect Habitat:	NA			
Create Public Access/Rec/Open Space: NA				
Increased In-Stream Flow: NA				
Other:	NA			

Flood Management Benefit Information

Max Storm Runoff Storage: -1

Max Conveyance Capacity: -1

Flood Protection Level: NA

Acres Benefitting: -1

Other: 0

Estimated Annual Flood Reduction Value: -1

Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water St	orage:	FALSE	Groundwater:	FALSE
GroundwaterTre	atment:	FALSE	Recycled Water	: FALSE
Reclaimed Groun	ndwater:	FALSE	Conservation:	FALSE
Ocean Desalinat	ion:	FALSE	Transfer:	FALSE
Other: NA				
Type of supply/d	emand red	duction:	NA	
Description: N	Α			
Annual Yield of S	Supply (AF	Y) : 0		
Availability by wa	ater-year ty	pe (AFY)		
Average Year: 0)			
Dry Year: 0)			
Wet Year: 0	1			
Other: 0				
Description:	NA			
Availability by se	ason:			
Summer: FALSI	E	Spring	FALSE	
Fall: FALSI	Ε	Winter	FALSE	
Has potential to displace demands on Bay/Delta/Estuary system:				

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description: 17 acres created	/restored			
Total Project Acres:	0			

Other Benefits

Documentation of the effectiveness of flow-through engineered wetlands treatment systems in improving water quality of receiving waters.

Dominant existing land use type: PUB

Upstream/downstream land use type: NA

NA

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 9 Carson Freeway Wetland

City of Carson, Carson Redevelopment Agency City of Carson City Hall 701 East Carson Street Carson, CA 90810

Patricia Elkins 310-847-3529 pelkins@carson.ca.us

A				Partnering Age	ency:			
Acquire Brownfield property between wetland to provide treatment of free Channel. Project includes linear jog project is adjacent to two local golf	eway storm water runc gging/bike path to prov	off and local dry weat wided critical recreation	ego Free her flows onal oper	way in the City of Ca from golf courses, lo space and enhance	ocal stor local re	m drains and	l/or the Dor	ninguez
Project Integra Dominguez Watershed Master Plan		NA		<u>Project Ne</u>	<u>eed</u>			
						<u> </u>		
Cooperating Agencies		n Description	la a al	<u>Pi</u>	oject	Cost Estir	<u>nate</u>	
Carson Redevelopment		sts of 29-acre strip of n the Dominguez Cha		Lower Estimated		-	-	000000
NA	and the San Diego F	reeway operated for	merly	Upper Estimated			5): 10	0000000
NA		dfill. On either side o		Of total cost, estin		ost for land	10	000000
NA	property are tw	o public golf courses	•	purchase/easeme	,			
NA				Annual OM Cost (\$):		50	0000
Associated Watersheds				Design Life of Pro	ject (ye	ars):	50)
DCW		Project Sour	ce(s)			Sub-	region(s)
WB	Do	ominguez Watershed	Mastern	lan	so	BAY		-
NA	Do	ominguez Watershed	I Masterp	lan	NA	-		
Is part of larger program?	С	arson Marketplace S	pecific P	lan	NA			
TRUE		NA	•					
		Readiness to F	rocee	<u>t</u>	•			
NA				_		01-1	D-1-	
			<u>Iten</u>			Status	<u>Date</u> 1/1/2008	
				ceptual Plans		IN_PROC NOT_INIT	1/1/2006	
				d Acquisition		NOT_INIT	1/1/1753	
				iminary Plans QA/NEPA		NOT INIT	1/1/1753	
Draw and Start	Date: 6/1/2	000		MAINEFA mits		NOT_INIT	1/1/1753	
Proposed Start						NOT_INIT	1/1/1753	
Proposed Comp Ready For Cons		009		struction Drawings		NOT_INIT	1/1/1753	
Ready For Cons	Struction Blu. 19/A		Full	unig		INOT_IINIT	1/1/1/33	12.00.
Water Quality Objectives Water Quality Benefits								
Improve Storm Water Quality:	PF	RI		ent Technology:		ds treatment		
Improve Wastewater Effluent WC			Treatme	ent Capacity (MGD)	•	3		
Receiving Water Body Qual. Imp			_	d Contaminants				
Improved Flood Management: SEC Metal: TRUE Pathogens: TRUE Nutrients: TRUE					TRUE			
Ground Water Protection or Impr	rovement: NA	A			tants:		Other:	FALSE
Other:			Descrip	tion: Volume Trea	ted as 3	to 3.5 mad 2	29 acre site	(?)

water Supply Objectives				
Reduced Reliance Imported Water:	NA			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	NA			
Increased WaterConservation:	NA			
Increased Water Recycling: NA				
Increased Groundwater Management: SEC				
Reduced Sea Water Intrusion: NA				
Protect/Improve Drinking Water Standards: NA				
Other:				

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): 27

Max Operational Depth (ft): 3
% Wetlands 100

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives					
Create/Enhance Wetlands: NA					
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: PRI					
Increased In-Stream Flow: NA					
Other:	NA				

Flood Management Benefit Information Max Storm Runoff Storage: 14 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: 29

Water Supply/Demand Reduction Benefits						
Surface Water Storage:	FALSE	Groundwater:	TRUE			
GroundwaterTreatment:	FALSE	Recycled Water:	FALSE			
Reclaimed Groundwater:	FALSE	Conservation:	FALSE			
Ocean Desalination:	FALSE	Transfer:	FALSE			
Other:						
Type of supply/demand red	duction:	NONPOT				
Description:						
Annual Yield of Supply (AF	Y) : 0					
Availability by water-year type (AFY)						
Average Year: 0						
Dry Year: 0						
Wet Year: 0						
Other: 0						
Description: NA						
Availability by season:						
Summer: FALSE	Spring	FALSE				
Fall: FALSE	Winter	FALSE				
Has potential to displace demands on Bay/Delta/Estuary system:						

Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	27					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	2					
Equestrian Trail Acres	0					
Other Acres	0					
Description: 29 acres created /r	restored					
Total Project Agrees	20					
Total Project Acres:	29					

Other Benefits

The project will provide 27 acres of flow-through wetland treatment of dry weather flows in the Dominguez Channel and secondarily provide infiltration and evapotranspiration of dry weather flows in the Dominguez Channel. The project will also provide recreational and enhance open-space by creating wetlan habitat in the form of a linear pedestrian/jogging trail through the wetland connecting nearby residential areas with two public golf courses.

СОМ	
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Addresses Environmental Justice issues: Y
Within Disadvantaged Community: Y
Disadvantaged Community Participation: Y
Organization: California or LA Conservation Corps

Project # 37 Lower Franklin Canyon Park

City of Los Angeles Council District 5 200 N. Spring Street, Room 440 Los Angeles, CA 90012

Paul Backstrom 213-473-7005 paul.backstrom@lacity.org

Partnering Agency: NA

Project Description

Features and natural resource restoration activities planned for the new park include, daylighting of the Higgins storm drain to create a constructed wetlands, 5,562 lineal feet of recreational paths and trails, 2 shade structures, 3 acres of orange groves, outdoor classroom, facility and interpretive signage, scenic overlooks, and restoration of the targeted reaches of the stream channel and riparian plant communities on the north and south sides of the inactive earthen dam. The project will restore 510 feet of the upper stream channel and 270 feet of the lower stream channel and will result in the creation of approximately 4 acres of riparian habitat. While the proposed project primarily addresses water quality, habitat and recreation needs, flood management is also addressed. The overall recreational objective of the projects is to make this area available for public parkland and open space uses, and to create an important link to the 600 acres of parkland immediately north that is part of the SMMNA.

Pro	ject	Integ	ration

Santa Monica Bay Restoration Plan & Ballona Creek Restoration Plan

Project Need

Lower Franklin Canyon contains a covered reservoir, an inactive earthen dam, a stream corridor and riparian plant communities, and hillside areas covered with sage scrub and chaparral habitat. It is one of the few remaining undeveloped headwaters in the watershed. IRWMP funds will ensure realization of important social and environmental benefits including watershed improvements, habitat restoration and expansion of open space in a highly urbanized area. Implementation will increase productivity and diversity of riparian vegetation and wildlife habitat, and will also serve as a springboard to investigate the removal of the inactive earthen dam to further restore the stream corridor. If this project does not occur, physical and biological conditions of the stream channel sections will not be improved, and a crucial opportunity to enhance the resiliency and biodiversity of

Cooperating Agencies

Santa Monica Bay ngeles Department of Water & I ngeles Department of Water & I LA City Recreation & Parks LA City Bureau of Engineering

Location Description

The site is located in the Ballona Creek Watershed above the intersection of Beverly Drive and Coldwater Canyon in Los Angeles; between Franklin Canyon Park (Upper Franklin Canyon Reservoir) and Coldwater Canyon Park in the City of Beverly Hills.

Project Cost Estimate

Lower Estimated Total Capital Cost (\$): 4000000 10000000 Upper Estimated Total Capital Cost (\$):

Of total cost, estimated cost for land purchase/easement (\$):

Annual OM Cost (\$): 500000

Design Life of Project (years):

Associated Watersheds

BCW SMBW NA

Project Source(s)

None. None. NA NA

Sub-region(s)

SO BAY NA NA

Is part of larger program? TRUE

NA

Readiness to Proceed

Proposed Start Date:	1/1/2009
Proposed Completion Date:	1/1/2010
Ready For Construction Bid:	1-3 Years

<u>ltem</u>	<u>Status</u>	<u>Date</u>
Conceptual Plans	IN_PROC	1/1/2001 0:00
Land Acquisition	IN_PROC	4/27/2007 0:00
Preliminary Plans	NOT_INIT	1/1/1753 12:00:
CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Permits	NOT_INIT	1/1/1753 12:00:
Construction Drawings	NOT_INIT	1/1/1753 12:00:
Funding	IN_PROC	1/9/2007 0:00

Water Quality Objectives	
Improve Storm Water Quality:	SEC
Improve Wastewater Effluent WQ:	NA
Receiving Water Body Qual. Improvement:	SEC
Improved Flood Management:	SEC
Ground Water Protection or Improvement:	SEC
Other:	

Water Quality Benefits

Treatment Technology: bio-filtration, infiltration and restoration

Treatment Capacity (MGD): 1.3

Targeted Contaminants

Pathogens: TRUE Nutrients: TRUE Metal: FALSE FALSE **FALSE** Trash: FALSE Pollutants:

Description: 300

Water Supply Objectives PRI **Reduced Reliance Imported Water: Increased Water Supply Reliability:** SEC **Increased Operational Flexibility:** SEC **Increased WaterConservation:** PRI **Increased Water Recycling:** SEC **Increased Groundwater Management:** SEC **Reduced Sea Water Intrusion:** NA NA **Protect/Improve Drinking Water Standards:** Other: Groundwater Basin: Hollywood sub-basin

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 800

Detention Basin Area (acres): 200

Max Operational Depth (ft): -1
% Wetlands 5

SoilType NA

Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives					
Create/Enhance Wetlands:	PRI				
Restore/Protect Habitat:	PRI				
Create Public Access/Rec/Open Space: PRI					
Increased In-Stream Flow: NA					
Other: NA					

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: 50 Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: 640

Water Supply/Demand Reduction Benefits							
Surface Water	Storage:	FALSE	Groundwater:	TRUE			
GroundwaterT	reatment:	FALSE	Recycled Water:	FALSE			
Reclaimed Gro	undwater:	FALSE	Conservation:	TRUE			
Ocean Desalin	ation:	FALSE	Transfer:	FALSE			
Other: NA							
Type of supply	/demand red	duction:	NA				
Description:							
Annual Yield o	f Supply (AF	Y) : 190					
Availability by	water-year t	ype (AFY)					
Average Year:	190						
Dry Year:	35						
Wet Year:	280						
Other:	0						
Description:	NA						
Availability by	season:						
Summer: FAL	SE	Spring	TRUE				
Fall: TRU	JE	Winter	TRUE				
Has potential to displace demands on Bay/Delta/Estuary system:							

Beneficial Use	<u>e Benefit</u>	
Non-Treatment Wetland Acres:	2	
Treatment Wetland Acres:	2	
Riparian Habitat Acres:	4	
Open Space Acres:	640	
Multiple Use/Recreation Area		
Single Sport Athletics Acres:	0	
Multiple Sport Athletics Acres:	0	
Other Recreation Acres	0	
Pedestrian Trail Acres	1	
Equestrian Trail Acres	0	
Other Acres	3	
Description: NA		
Total Project Acres:	652	

Other Benefits

This project will allow the currently fenced-in area to become much needed public parkland/open space in a highly urbanized area. Natural channel/floodplain/terrace morphology as well as the vegetative connectivity of fragmented riparian plant communities will also be restored. The upper stream channel currently has 3.6 acres of willow woodland habitat; the only significant intact stand of this habitat type within the Ballona Creek sub-Watershed. The willow woodland habitat will be increased two fold. The goal of the project is to improve infiltration of water in the canyon so that

PUB	
PUB	_
	. 02

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		

Project # 40 Catch Basin Cover Phase III

City of Los Angeles, Department of Public Work Bureau of Sanitation Watershed Protection Division 1149 S Broadway Street, 10th Floor Los Angeles CA 20015 NA

Kosta Kaporis 213-485-0586 kosta.kaporis@lacity.org

Partnering Agency:

Project Description

		1 10,000 000	or iptioi	-					
This project proposes the installat target pollutant and will be either ereduce organic debris and sedime CB opening and prevent trash fror activated by a presetermined street weather as well as small storms (eliminated or significan nt loading to the storm n entering the City stor	tly reduced by the ins drain system. The C m drain system syste	stallation B openin em. Each	of the C g scree CB ope	B cove n cove ening s	ers. In add ers are coa screen cov	dition, these CB arse screeens the er has a self-op	covers will a nat are install pening device	lso ed in the
Project Integra	ation				Droid	ect Need			
<u>r roject integra</u>	ation	The installation of CE Los Angeles is consistrash from the local water beneficial and this project enhances the community. Furth already installed unduregulations, but will a the communities.	stent with to vaterbodies recreationals the visual amore, the er Phases	screen controlled the City is a this property and uses a laesthet installation of the controlled	overs in s comp oject pr ind pres ics of th on of th will not o	n the remain liance strate rotects the p serves aqua ne waterboo nese additio only guaran	ning trash gneration egy for the Trash sublic health and eattic marine and platic dies, thus improving nal CB opening soutee compliancce was suppliances.	TMDL. By reduct the result of the reduction of the reduct	ucing the eceiving addition, f life for lus those TMDL
Cooperating Agencies	Locatio	n Description				Proje	ect Cost Est	imate	
		er Phase III entails th		Lowe	r Estin	nated Tota	al Capital Cost	(\$) : 4	2050000
	installations of CB or	pening screen covers and low trash genera					al Capital Cost		2050000
		s of the City.	ation			t, estimate asement (ed cost for land \$):	d 0	
				Annu	al OM	Cost (\$):		9	00000
Associated Watersheds				Desig	n Life	of Projec	t (vears):	1	0
LARW		Project Sour	rca(s)						
BCW	rash TMDL Implemen			Oponir	na Sara	oon Cover	· · · · · · · · · · · · · · · · · · ·	ricgioni	1
DCW	rash TMDL Implemen			•	-				
Is part of larger program?	· ·	Report 2006 Ballona		•	-		LOW_LA_RVR		
FALSE	Compilation	Trash Generation		21010110	u 1111D	_			
		Readiness to F	Proceed	<u>t</u>					
NA			Item	<u>1</u>			Status	Date	
			Con	ceptua	ıl Plan	s	COMP	12/31/20	00:00
			Lan	d Acqu	isitior	า	NA	1/1/1753	3 12:00:
			Pre	liminar	y Plan	s	NA	1/1/1753	3 12:00:
ļ			CEC	QA/NEF	PA		NA	1/1/1753	
Proposed Start		/2007		mits			NA	1/1/1753	
Proposed Com		/2011			on Dra	awings	NOT_INIT	1/1/1753	
Ready For Con	struction Bid: 1-3	/ears	Fun	ding			IN_PROC	7/1/2007	7 0:00
Water Quality	/ Objectives				W	ater Qu	ality Benefit	: <u>S</u>	
Improve Storm Water Quality: PRI		Treatment Technology: Catch Basin Opening Screens				;			
Improve Wastewater Effluent WQ: NA			Treatment Capacity (MGD): 3296.21						
Receiving Water Body Qual. Imp	provement: PF	રા	Targete	d Cont	amina	<u>ints</u>			
Improved Flood Management:	N/	A	Meta	ıl: FAL	_SE	Pathoge	ns: FALSE	Nutrients:	FALSE
Ground Water Protection or Imp	rovement: NA	A	Tras	h: TR	UE	Pollutan	ts: FALSE	Other:	FALSE
Other:			Descrip	tion:					
1									

Water Supply Obje	ectives ectives	Water Supply/Demand Reduction Benefits
Reduced Reliance Imported Water:	NA	Surface Water Storage: FALSE Groundwater: FALSE
Increased Water Supply Reliability:	NA	GroundwaterTreatment: FALSE Recycled Water: FALSE
Increased Operational Flexibility:	NA	Reclaimed Groundwater: FALSE Conservation: FALSE
Increased WaterConservation:	NA	Ocean Desalination: FALSE Transfer: FALSE
Increased Water Recycling:	NA	Other:
Increased Groundwater Management:	NA	Type of supply/demand reduction: NA
Reduced Sea Water Intrusion:	NA	Description:
Protect/Improve Drinking Water Stand	ards: NA	
Other:		Annual Yield of Supply (AFY): 0
		Availability by water-year type (AFY)
Detention and Groundwater	Recharge Benefit	Average Year: 0
	_	Dry Year: 0
Acres of land that drain into basin:	0	Wet Year: 0
Detention Basin Area (acres):	0	Other: 0
Max Operational Depth (ft):	0	Description:
% Wetlands	0	
SoilType	NA	Availability by season:
Method and Recharge (AFY):	NA	Summer: FALSE Spring FALSE
Estimated Annual Inflow (AFY):	0	Fall: FALSE Winter FALSE
Estimated Annual Outflow (AFY):	0	
		Has potential to displace demands on Bay/Delta/Estuary system:
Beneficial Use Obj	<u>ectives</u>	Bay/Delia/Estuary system.
Create/Enhance Wetlands:	NA	Beneficial Use Benefit
Restore/Protect Habitat:	NA	Non-Treatment Wetland Acres: 0
Create Public Access/Rec/Open Space	e: NA	Treatment Wetland Acres: 0
Increased In-Stream Flow:	NA	Riparian Habitat Acres: 0
Other:	NA	Open Space Acres: 0

Flood Management Benefit Inform	mation_
Max Storm Runoff Storage:	0
Max Conveyance Capacity:	0
Flood Protection Level:	NA
Acres Benefitting:	0
Other: 0	
Estimated Annual Flood Reduction Value:	0

Acreage Required for Implementation:

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description: Citywide Landuses				
Total Project Acres:	254000			

Other Benefits

The installation of CB opening screen covers in the remaining trash generation areas of the City of Los Angeles is consistant with the City's compliance strategy for the Trash TMDL. By reducing the trash from the local waterbodies, this project protects the public health and enhances the receiving water benefical and recreational uses and preserves aquatic marine and plant habitat.

0

Dominant existing land use type:	COM
Upstream/downstream land use type:	IND

Addresses Environmental Justice issues: N		
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		

Project # 41 Machado Lake Ecosystem Rehabilitation Project

City of Los Angeles, Department of Public Works Watershed Protection Division 1149 S. Broadway 10th FI Los Angeles, CA 90015 Kosta Kaporis 213-485-0586 kosta.kaporis@lacity.org

Partnering Agency: City of Los Angeles, Dept. of Rec.

www.lacity.org

Project Integration

Project Need

Machado Lake is a polluted freshwater system with limited water circulation and continuous siltation.

Contaminants found in the lake, such as trash, pesticides, minerals, nutrients, organics, and heavy metals, are attributable to general pollutants contained in urban runoff from the 20-square-mile

Project Description

Machado Lake will be enhanced through removal of contaminated sediments, installation of an aeration system, installation of an outlet device and spillway, trash capture devices in storm drain outlets, and creation of low flow channel (through the marsh to separate low lake flow from storm water flow). Habitat improvements in the marsh zones will be achieved by removal of non-native invasive plants, planting native species and debris removal. The park will be enhanced through a series of park improvements that will also include installation of pervious paving material in parking lot, installation of bioswales along portions of parking lots and facilities, and installation of a "smart†irrigation system.

		watershed. These pollutants m the lake and the KMHRP. They recreational fishing. For these addition to the Lake, the surrou endemic plants to improve aes	also impair the beneficial reasons the Lake is listed a inding wetland has been de	uses of this ecosystem, inc is impaired in the most rece	luding ent 303d list. In
Cooperating Agencies	Locatio	n Description	Proj	ect Cost Estimate	2
City of Los Angeles,		ado Lake is located in Ken	Lower Estimated Tot	al Capital Cost (\$):	80000000
Department of Fish and Game	Malloy Harbor Regional Park (KMHRP) in the Wilmington area of Los Angeles. The Park is bounded by Pacific Coast Highway, 110		Of total cost, estimated cost for land		99000000
Department of Fish and Game					-1
Audobon Society	freeway, Anaheir	m St. and Vermont Ave.	purchase/easement	(\$):	
			Annual OM Cost (\$):		1000000
<u>Associated Watersheds</u>			Design Life of Project	ct (years):	50
DCW		Project Source(s)		Sub-region	on(s)
NA NA	Machado Lake E	cosystem Rehabilitation Proje	ct - Concept Report	SO_BAY	
NA NA	Machado Lake Ecosystem Rehabilitation Project - Concept Report			NA	
Is part of larger program?	Machado Lake Assessment			NA	

Item Status Date Conceptual Plans COMP 12/13/2006 0:00 Land Acquisition NA 1/1/1753 12:00: Preliminary Plans NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/1/2010 Permits NOT_INIT 1/1/1753 12:00: Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years Funding NOT_INIT 1/1/1753 12:00: Proposed Completion Paid: 1-3 Years 1-3 Years 1-3 Years		Readiness to Proceed					
Land Acquisition NA 1/1/1753 12:00: Preliminary Plans NOT_INIT 1/1/1753 12:00: CEQA/NEPA NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/1/2010 Permits NOT_INIT 1/1/1753 12:00: Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00:	NA			<u>Item</u>	<u>Status</u>	<u>Date</u>	
Preliminary Plans NOT_INIT 1/1/1753 12:00: CEQA/NEPA NOT_INIT 1/1/1753 12:00: Proposed Start Date: 6/1/2010 Permits NOT_INIT 1/1/1753 12:00: Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00: NOT_INIT 1/1/1753 12:00: NOT_INIT 1/1/1753 12:00: NOT_INIT NOT				Conceptual Plans	COMP	12/13/2006 0:00	
Proposed Start Date: 6/1/2010 Permits NOT_INIT 1/1/1753 12:00: Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00:				Land Acquisition	NA	1/1/1753 12:00:	
Proposed Start Date: 6/1/2010 Permits NOT_INIT 1/1/1753 12:00: Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00:				Preliminary Plans	NOT_INIT	1/1/1753 12:00:	
Proposed Completion Date: 6/30/2014 Construction Drawings NOT_INIT 1/1/1753 12:00:	<u> </u>			CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	
		Proposed Start Date:	6/1/2010	Permits	NOT_INIT	1/1/1753 12:00:	
Ready For Construction Bid: 1-3 Years Funding NOT INIT 1/1/1753 12:00:		Proposed Completion Date:	6/30/2014	Construction Drawings	NOT_INIT	1/1/1753 12:00:	
ready for construction bid. To read		Ready For Construction Bid:	1-3 Years	Funding	NOT_INIT	1/1/1753 12:00:	

Machado Lake Trash TMDL

Water Quality Objectives		Water Quality Benefits		
Improve Storm Water Quality:	PRI	Treatment Technology: CDS, aeration, wetlands, on-site BMP		
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 370		
Receiving Water Body Qual. Improvement:	PRI	Targeted Contaminants		
Improved Flood Management:	NA	Metal: TRUE Pathogens: TRUE Nutrients: TRUE		
Ground Water Protection or Improvement:	SEC	Trash: TRUE Pollutants: TRUE Other: FALSE		
Other:		Description:		

Water Supply Objectives Reduced Reliance Imported Water: NA **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** NA **Increased WaterConservation:** NA **Increased Water Recycling:** NA **Increased Groundwater Management:** NA **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives				
Create/Enhance Wetlands:	PRI			
Restore/Protect Habitat:	PRI			
Create Public Access/Rec/Open Space: PRI				
Increased In-Stream Flow: SEC				
Other:	SEC			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water	Supply/De	mand Re	duction Benefit	<u>s</u>
Surface Water	r Storage:	FALSE	Groundwater:	FALSE
Groundwater ⁻	Treatment:	FALSE	Recycled Water	: FALSE
Reclaimed Gr	oundwater:	FALSE	Conservation:	FALSE
Ocean Desali	nation:	FALSE	Transfer:	FALSE
Other: NA				
Type of suppl	y/demand re	duction:	NA	
Description:	NA			
Annual Yield	of Supply (AF	Y) : 0		
Availability by water-year type (AFY)				
Average Year:	0			
Dry Year:	0			
Wet Year:	0			
Other:	0			
Description:	NA			
Availability by	season:			
Summer: FA	LSE	Spring	FALSE	
Fall: FALSE Winter FALSE				
Has potential to displace demands on Bay/Delta/Estuary system:				

Beneficial Use Benefit			
Non-Treatment Wetland Acres:	40		
Treatment Wetland Acres:	20		
Riparian Habitat Acres:	20		
Open Space Acres:	50		
Multiple Use/Recreation Area			
Single Sport Athletics Acres:	0		
Multiple Sport Athletics Acres:	0		
Other Recreation Acres	10		
Pedestrian Trail Acres	10		
Equestrian Trail Acres	0		
Other Acres	20		
Description: Public Access			
Total Project Acres:	220		

Other Benefits

The project will improve Machado Lake by removing contaminated sediments, increasing its size, and through the use of an aeration system eliminate the effects of dissolved oxygen depletion. Stormwater pollutants discharged into the Lake will also be significantly reduced through the implementation of pollution abatement devices at the storm drain outlets into the Lake. The wetlands surrounding the Lake will be enhanced in their recreational and habitat value through of the use of aquascaping with endemic plants. Finally the overall park will be enhanced through a series of

Dominant existing land use type:	OTHR
Public Park	
Upstream/downstream land use type:	OTHR
Residential and Industrial	
,	

Addresses Environmental Justice issues:	Υ	
Within Disadvantaged Community:	Υ	
Disadvantaged Community Participation:	N	
Organization:		

Project # 43 Westminster Dog Park Stormwater Best Management Practices

City of Los Angeles, Department of Public Works Watershed Protection Division 1149 S Broadway Los Angeles, CA 90015

Improved Flood Management:

Other:

Ground Water Protection or Improvement:

Kosta Kaporis 213-485-0586 kosta.kaporis@lacity.org

NA Partnering Agency:

Project Description

The Westminster Park (Dog Park) project includes installation of modular constructed wetland Best Management Practices (BMPs) within this project site. By installing these BMPs, on-site runoff, which is highly contaminated by dog feces, will be captured and treated prior to discharging into the storm drain system.

Project Integration Santa Monica Bay Bacteria TMDL Imple		Implementation Plan I stakeholders. Stakeho 倜hot spotså€, thi in an increased benef human safety and heæhabitat and positive in	for jurisdic olders hav e watershe ficial and r alth risk, re npacts on	Project Need to the types of projects that he tions 2 and 3. The Implement of the types of types of the types of types of the types of types of the types of the types of the types of types of the types of the types of ty	ave been identified in mentation Plan was de enting sub regional pro MDL requirements. Thing water bodies, reduine preservation of aque enabling the City to reservation of the enabling the City to reservation.	veloped with various jects targeting nis project will result uced potential for atic marine and plant neet the new
City of Los Arigeles,	Location Description The Westminster Park is within the San Monica subwatershed and located at the c of Main St. and Westminster Ave. Addre 1234 Pacific Avenue Venice, CA 9029		corner ess: 91	Pro Lower Estimated To Upper Estimated To Of total cost, estima purchase/easement Annual OM Cost (\$) Design Life of Proje	tal Capital Cost (\$ ated cost for land (\$): : ect (years):	1000000 1000000 0 50000 15
NA Santa	Monica Bay Bead	ches Bacteria TMDL	Impleme	entation Plan J2,3 (200 entation Plan J2,3 (200 Practices-Concept Re	5SO_BAY 5NA	region(s)
		Readiness to P	rocee	<u>k</u>		
Proposed Start Date Proposed Completic Ready For Construc	on Date: 5/1/20	009	Lan Prei CEC Peri Con	nceptual Plans d Acquisition iminary Plans QA/NEPA mits estruction Drawings	Status IN_PROC NOT_INIT NOT_INIT NOT_INIT NOT_INIT NOT_INIT NOT_INIT NOT_INIT	<u>Date</u> 8/1/2006 0:00 1/1/1753 12:00: 1/1/1753 12:00: 1/1/1753 12:00: 1/1/1753 12:00: 1/1/1753 12:00: 1/1/1753 12:00:
Water Quality Ob Improve Storm Water Quality: Improve Wastewater Effluent WQ: Receiving Water Body Qual. Improve	jectives PR NA	•	Treatme	Water Q	uality Benefits Biofiltration/Disinfed 0.02	tion

NA

NA

FALSE

Nutrients: FALSE

FALSE

Other:

Pathogens: TRUE

Pollutants:

Metal: FALSE

Trash: FALSE

Description: NA

Water Supply Objectives	
Reduced Reliance Imported Water:	SEC
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased WaterConservation:	SEC
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: 0 Flood Protection Level: NA Acres Benefitting: 0 Other: 0 Estimated Annual Flood Reduction Value: 0 Acreage Required for Implementation: -1

Water Supply	Water Supply/Demand Reduction Benefits				
Surface Water Storage	: FALSE	Groundwater:	FALSE		
GroundwaterTreatmen	it: FALSE	Recycled Water	: FALSE		
Reclaimed Groundwat	er: FALSE	Conservation:	TRUE		
Ocean Desalination:	FALSE	Transfer:	FALSE		
Other: NA					
Type of supply/demand	d reduction:	POT			
Description:					
Annual Yield of Supply	/ (AFY): 0.9				
Availability by water-ye	ear type (AFY)				
Average Year: 0.9					
Dry Year: 0					
Wet Year: 0					
Other: 0					
Description: NA					
Availability by season:					
Summer: TRUE	Spring	TRUE			
Fall: TRUE	Winter	TRUE			
Has potential to displa Bay/Delta/Estuary syst		N			

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description: NA				
Total Project Acres:	0			

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exeedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project is the beneficial reuse of treated stormwater for irrigation at the Westminster Park.

Dominant existing land use type:	RES
Upstream/downstream land use type:	RES

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		
r		

Project # 44 Penmar Water Quality Improvement and Runoff Reuse Project

City of Los Angeles, Department of Public Works Watershed Protection Division 1149 S Broadway Los Angeles, CA 90015

Kaporis 213-485-0586 kosta.kaporis@lacity.org

NA Partnering Agency:

Project Description

The Penmar Water Quality Improvement and Runoff Reuse Project includes installation of hydrodynamic separators, underground detention tank, chlorination facility, pump station and overflow systems. Off-site surface runoff will be diverted to project site. The diverted runoff shall be treated/disinfected. The disinfected effluent will be pumped through a smart irrigation system to decrease the current landscaping irrigation demand.

Project Integration

Santa Monica Bay Beaches Wet Weather Bacteria TMDL Implementation Plan

Project Need

This project is consistent with the types of projects that have been identified in the SMBBB Implementation Plan for jurisdictions 2 and 3. The Implementation Plan was developed with various stakeholders. Stakeholders have agreed that by implementing sub regional projects targeting "hot spotsâ€, the watershed can meet its bacteria TMDL requirements. This project will result in an increased beneficial and recreational uses of receiving water bodies, reduced potential for human safety and health risk, reduced beach closures, the preservation of aquatic marine and plant habitat and positive impacts on the tourism industry while enabling the City to meet the new requirements of the stormwater NPDES permit to reduce bacterial levels in the surf zone.

Annual OM Cost (\$):

Design Life of Project (years):

Cooperating Agencies

City of Santa Monica

- 3 Angeles, Department of Rec. 8
- 3 Angeles, Department of Rec. a

Location Description

The Penmar Water Quality Improvement and Runoff Reuse Project are within the Santa Monica subwatershed and located at Penmar Golf, Penmar Rec. & Park, and Marine Park. Address: 1233 Rose Ave Venice, CA 90291

Project Cost Estimate

Lower Estimated Total Capital Cost (\$): 25000000 30000000 Upper Estimated Total Capital Cost (\$):

Of total cost, estimated cost for land

purchase/easement (\$):

114000

Associated Watersheds

SMBW

NA NA **Project Source(s)**

Sub-region(s)

Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005 SO BAY Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005 NA

Penmar Water Quality Improvement and Runoff Reuse-Concept Report

Is part of larger program?

Readiness to Proceed

NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	COMP	4/13/2007 0:00
		Land Acquisition	NA	1/1/1753 12:00:
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:
ļ		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Proposed Start Date:	7/1/2008	Permits	NOT_INIT	1/1/1753 12:00:
Proposed Completion Date:	6/1/2009	Construction Drawings	NOT_INIT	1/1/1753 12:00:
Ready For Construction Bid:	1-3 Years	Funding	NOT_INIT	1/1/1753 12:00:

Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI

Water Quality Objectives

Improved Flood Management: NA **Ground Water Protection or Improvement:** NA

Other:

Water Quality Benefits

Treatment Technology: Sedimentation, Infiltration, Disinfection

Treatment Capacity (MGD): 3.75

Targeted Contaminants

Pathogens: TRUE Nutrients: TRUE Metal: TRUE Trash: TRUE **FALSE** Pollutants:

Description: NA

water Supply Objectives	
Reduced Reliance Imported Water:	SEC
Increased Water Supply Reliability:	NA
Increased Operational Flexibility:	NA
Increased WaterConservation:	SEC
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/De	emand Re	eduction Benefits	
Surface Water Storage:	FALSE	Groundwater: FALSE	=
GroundwaterTreatment:	FALSE	Recycled Water: FALSE	Ξ
Reclaimed Groundwater:	FALSE	Conservation: TRUE	
Ocean Desalination:	FALSE	Transfer: FALSE	=
Other: NA			
Type of supply/demand re	duction:	POT	
Description:			Ī
<u> </u>			
Annual Yield of Supply (Al	FY): 122		
Availability by water-year t	ype (AFY)		
Average Year: 122			
Dry Year: 0			
Wet Year: 0			
Other: 0			_
Description: NA]
Availability by season:			
Summer: TRUE	Spring	TRUE	
Fall: TRUE	Winter	TRUE	
Has potential to displace of Bay/Delta/Estuary system:		N	

Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	0					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	0					
Equestrian Trail Acres	0					
Other Acres	0					
Description:						
Total Project Acres:	0					

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exeedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project are the opportunity to infiltrate and potential beneficial reuse of treated stormwater for irrigation at the Penmar Recreation Center and Golf Course.

Dominant existing land use type:	RES	_
Upstream/downstream land use type:	RES	

Addresses Environmental Justice issues:	N
Within Disadvantaged Community:	N
Disadvantaged Community Participation:	N
Organization:	

Project # 45 Temescal Canyon Recreation Center Stormwater Best

City of Los Angeles, Department of Public Works Watershed Protection Division 1149 S Broadway Los Angeles, CA 90015

Kosta Kaporis 213-485-0586 kosta.kaporis@lacity.org

NA Partnering Agency:

Project Description

The BMPs proposed for the Temescal Canyon Recreation Center Stormwater Best Management Practices Project includes: 1-Diversion of off-site stormwater from existing stormdrain system to the project site. 2-Pretreatment of diverted stormwater through hydrodynamic separators. 3-Retention of pretreated stormwater in one underground detention tank. 4-Disinfection of the stormwater prior to irrigation. 5-Beneficial reuse of the treated stormwater through landscape irrigation and potentially firefighting through out the year.

Project Integration

Santa Monica Bay Beaches Wet Weather Bacteria TMDL Implementation Plan

Project Need

This project is consistent with the types of projects that have been identified in the SMBBB Implementation Plan for jurisdictions 2 and 3. The Implementation Plan was developed with various stakeholders. Stakeholders have agreed that by implementing sub regional projects targeting "hot spotsâ€, the watershed can meet its bacteria TMDL requirements. This project will result in an increased beneficial and recreational uses of receiving water bodies, reduced potential for human safety and health risk, reduced beach closures, the preservation of aquatic marine and plant habitat and positive impacts on the tourism industry while enabling the City to meet the new requirements of the stormwater NPDES permit to reduce bacterial levels in the surf zone.

Cooperating Agencies

City of Los Angeles,

Location Description

The Temescal Canyon Recreation Center is within the Santa Monica subwatershed and located at the intersection of Temescal Canyon Rd and Pacific Coast Highway. Address: 15900 Pacific Coast Highway Pacific Palisades, CA 90272

Project Cost Estimate

Lower Estimated Total Capital Cost (\$): 20000000 25000000 Upper Estimated Total Capital Cost (\$):

Of total cost, estimated cost for land purchase/easement (\$):

Annual OM Cost (\$): 900000

Sub-region(s)

Design Life of Project (years): 20

Associated Watersheds

SMBW

NA NA **Project Source(s)**

Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005 SO BAY Santa Monica Bay Beaches Bacteria TMDL Implementation Plan J2,3 (2005 NA SCAL CANYON RECREATION CENTER STORMWATER BMPs-Concept INA

Is part of larger program?

Readiness to Proceed

NA	<u>ltem</u>	<u>s</u>	Status .	<u>Date</u>
	Conce	eptual Plans C	COMP 4/	13/2007 0:00
	Land A	Acquisition N	NOT_INIT 1/	1/1753 12:00:
	Prelim	ninary Plans	NOT_INIT 1/	1/1753 12:00:
	CEQA	/NEPA N	NOT_INIT 1/	1/1753 12:00:
Proposed Start Date: 7/1	2008 Permit	ts N	NOT_INIT 1/	1/1753 12:00:
Proposed Completion Date: 6/1	const	ruction Drawings	NOT_INIT 1/	1/1753 12:00:
Ready For Construction Bid: 1-3	rears Fundin	ng N	NOT_INIT 1/	1/1753 12:00:

Improve Storm Water Quality:	PRI
Improve Wastewater Effluent WQ:	NA
Receiving Water Body Qual. Improvement:	PRI

NA

NA

Water Quality Objectives

Improved Flood Management: **Ground Water Protection or Improvement:**

Other:

Water Quality Benefits

Treatment Technology: Sedimentation, Stormwater Detention/

Treatment Capacity (MGD): 2.5

Targeted Contaminants

Pathogens: TRUE Metal: TRUE Nutrients: TRUE Trash: TRUE Pollutants: **FALSE**

Description: NA

Water Supply Objectives Reduced Reliance Imported Water: SEC **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** NA **Increased WaterConservation:** SEC **Increased Water Recycling:** NA **Increased Groundwater Management:** NA **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives					
Create/Enhance Wetlands: NA					
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: NA					
Increased In-Stream Flow: NA					
Other: NA					

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water Storage:	FALSE	Groundwater:	FALSE		
GroundwaterTreatment:	FALSE	Recycled Water:	FALSE		
Reclaimed Groundwater:	FALSE	Conservation:	TRUE		
Ocean Desalination:	FALSE	Transfer:	FALSE		
Other: NA					
Type of supply/demand re	eduction:	NA			
Description: NA					
Annual Yield of Supply (A	FY) : 27				
Availability by water-year	type (AFY)				
Average Year: 27					
Dry Year: 0					
Wet Year: 0					
Other: 0					
Description: NA					
Availability by season:					
Summer: TRUE	Spring	TRUE			
Fall: TRUE	Winter	TRUE			
Has potential to displace of Bay/Delta/Estuary system		N			

Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	0					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	0					
Equestrian Trail Acres	0					
Other Acres	0					
Description:						
Total Project Acres:	0					

Other Benefits

Achieving the compliance target of a 10% reduction of SMBBB wet weather bacteria exeedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project is the beneficial reuse of treated stormwater for irrigation at the Temescal CYN Recreation Center.

Dominant existing land use type:	OTHR
Vacant/Low Density Residential	
Upstream/downstream land use type:	OTHR
Vacant/Low Density Residential	
r	

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		

Project # 46 Westchester-LAX Stormwater Best Management Practices

City of Los Angeles, Department of Public Works Watershed Protection Division 1149 S Broadway Los Angeles, CA 90015

Kosta Kaporis 213-485-0586 kosta.kaporis@lacity.org

NA Partnering Agency: LAX

Project Description

The BMPs proposed for the Westchester-LAX Stormwater Best Management Practices Project includes: Diversion of off-site stormwater from

existing stormdrain system to the p stormwater in one underground de LFD during dry-weather conditions	project site, Pretreatme etention tanks, Possible	ent of diverted stormy e infiltration/re-use of	vater thro the treat	ugh hy ed stor	drodyn mwatei	amic sepa r, Return o	rators, Retent f excess treate	ion of pretreat	ed
Project Integra Santa Monica Bay wet Weather Ba Implementation Plan		Stormwater runoff has solids, metals, gasolir receiving water body impacting the benefic sediments of receivin The detectable inputs humans and habitats. Practices Project is to Bacteria TMDL.	ne and oth (Santa Mo ial uses of g water bo s of the pol The overa	ntial of i er toxic nica Ba receivi dy and/ lutant a Il objec	ntroduci s) to the y). Currong water for have re at a c tive of th	estorm water ent loadings bodies. Ele the potential concentration we Westches	s(pathogens, oil or conveyance sy or historic depo evated levels of al to bioaccumulans or loads cons ster-LAX Stormy	stem and, ultimosits of the polluthe pollutant are ate in organisms sidered potential vater Best Mana	tately, the tant are found in therein. Ily toxic to agement
Cooperating Agencies		n Description				<u>Proje</u>	ect Cost Es	stimate	
Los Angeles World Airport		of the Los Angeles W		Lowe	r Estin	nated Tota	al Capital Cos	s t (\$) : 3	5000000
eles County, Department of Pub		perty, corner Westch Dr. North Westchester					ıl Capital Cos		0000000
eles County, Department of Pub	•	watershed				t, estimate sement (S	ed cost for lar \$):	nd 0	
				Annu	al OM	Cost (\$):		4	56000
Associated Watersheds				Desig	n Life	of Projec	t (years):	3	0
SMBW		Project Sour	ce(s)			,		b-region(s	<u>.</u>
NA	Santa Monica Bay B	Beaches Bacteria TM		menta	tion Pla	an J2&3	SO_BAY		-
NA NA	•	anta Monica Bay Beaches Bacteria TMDL Implementation Plan J2&3 NA							
Is part of larger program? TRUE	Westchester-LAX Stor	rmwater Best Manage	ement Pr	actices	-Conce	ept Report	NA		
		Readiness to F	rocee	<u>t</u>					
			ltem	<u>1</u>			<u>Status</u>	<u>Date</u>	
				-	al Plan		COMP	4/13/200	
				-	uisition		NOT_INIT		
					y Plan	s	NOT_INIT		
	-	2000		A/NEI	PA		NOT_INIT		
Proposed Start			Peri				NOT_INIT		
Proposed Comp					ion Dra	awings	NOT_INI		
Ready For Cons	struction Bid: 1-3 Y	rears	Fun	ding			NOT_INIT	Γ 1/1/1753	3 12:00:
Water Quality	Objectives				W	ater Qua	ality Benef	<u>its</u>	
Improve Storm Water Quality:		PRI Treatment Technology: Sedimentation, Detention/Infiltrartion			rartion				
Improve Wastewater Effluent WC	Q: NA	Treatment Capacity (MGD): 10.5							
Receiving Water Body Qual. Imp	rovement: PF	રા	<u>Targete</u>	d Con	tamina	nts			
Improved Flood Management:	NA	A	Meta	ıl: TR	UE	Pathoge	ns: TRUE	Nutrients:	TRUE
Ground Water Protection or Imp	rovement: NA	A	Tras	h: TR	UE	Pollutan	ts: TRUE	Other:	FALSE
Other:			Descrip	tion:					

Water Supply Objectives Reduced Reliance Imported Water: NA **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** SEC SEC **Increased WaterConservation: Increased Water Recycling:** NA **Increased Groundwater Management:** NA **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives					
Create/Enhance Wetlands: NA					
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: NA					
Increased In-Stream Flow: NA					
Other:	NA				

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Su	Water Supply/Demand Reduction Benefits						
Surface Water St	orage:	FALSE	Ground	water: FAL	SE		
GroundwaterTreatment:		FALSE	Recycle	ed Water: FALS	SE		
Reclaimed Groundwater: FALSE		FALSE	Conser	vation: TRU	E		
Ocean Desalinat	ion:	FALSE	Transfe	r: FAL	SE		
Other:							
Type of supply/d	emand re	duction:	NA				
Description:							
Annual Yield of S	Supply (AF	Y) : 0					
Availability by wa	ater-year t	ype (AFY)					
Average Year: 0)						
Dry Year: 0)						
Wet Year: 0)						
Other: 0)				_		
Description:							
Availability by se	ason:						
Summer: TRUE		Spring	TRUE				
Fall: TRUE		Winter	TRUE				
Has potential to o Bay/Delta/Estuar	•	emands on	N				

Beneficial Us	se Benefit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description:	
Total Project Acres:	0

Other Benefits

Achieving the compliance target of a 10% reduction of SMBB wet weather bacteria exceedance days by first interim compliance milestone (July 2009), Addressing multiple pollutants with which the SMBB is impaired, Enhancing beneficial and recreational uses of the receiving water bodies, Preserving the aquatic marine habitat, Reducing the potential for human health risk and safety. Additional benefits of this project are the opportunity to infiltrate and potential beneficial reuse of treated stormwater for irrigation at the Westchester-LAX.

Dominant existing land use type:	OTHR	
Vacant (Airport Land)		
Upstream/downstream land use type:	OTHR	
High Density and Low Density Residenti	al	

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		
•		

Project # 55 Chandler Sand & Gravel Redevelopment Infiltration Basin

City of Rolling Hills Estates

Kathleen McGowan 310-373-0330 kathleen.enve@verizon.net

p://ci.rolling-hills-estates.ca.us/com	nm-issues/chandler/ind	dex.htm		Р	artneri	ing Agency:			
		Project Des	cription	<u>1</u>					
Incorporation of a stormwater infiltr an inert landfill. Redevelopment pla receive runoff from 500 acres inclu groundwater rights and the basin o rrigation.	ans for the property in iding 250 acres outsid	volve the construction the redevelopment	n of new l t project c	nomes onveye	and ex d via fi	cpansion of ive natural of	a private golf d drainage cours	course. Basir ses. Property	would includes
Project Integra	ntion_				Proje	ect Need			
		NA							
Cooperating Agencies	Locatio	n Description				Proje	ct Cost Es	timate	
IA		re sand & gravel qua	arry is	Lowe	r Fstin		Capital Cost		000000
NA NA		neast corner of the C					Capital Cost	.,	000000
NA	Rolling Hills Estates Torrance City bour	, straddling the Lomi Idaries. It is located v		• •			d cost for lan	(' /	
NA	the Machado La	ke subwatershed of				asement (\$		_	1
NA	Doming	uez Watershed.		Annu	al OM	Cost (\$):		-1	
Associated Watersheds				Desid	ın I ife	of Project	(vears):	-1	
DCW		Project Sou	rce(s)		, <u>_</u> v			o-region(s	
WB	_	ominguez Watershe		lan			SO_BAY	<u>J-regionija</u>	1
NA		ominguez Watershe					NA		
part of larger program?		do Lake Watershed			an		NA		
FALSE		hado Lake TMDLs (i	•	9					
		Readiness to	Proceed	<u>k</u>					
NA			Item	1			Status	Date	
				ceptua	al Plan	ıs	IN_PROC	1/1/2001	
				d Acqı			NOT_INIT	1/1/1753	3 12:00:
				iminar			NOT_INIT	1/1/1753	3 12:00:
			CEC	A/NEI	PA		NOT_INIT	1/1/1753	3 12:00:
Proposed Start	Date: 1/1/2	8008	Per	nits			NOT_INIT	1/1/1753	3 12:00:
Proposed Comp	oletion Date: 1/1/2	2009	Con	struct	ion Dra	awings	NOT_INIT	1/1/1753	3 12:00:
Ready For Cons	struction Bid: N/A		Fun	ding			NOT_INIT	1/1/1753	3 12:00:
Water Quality	Objectives		1		W	ater Qua	lity Benefi	ts	
nprove Storm Water Quality:	PI	રા	Treatme	ent Tec					
nprove Wastewater Effluent WC			Treatme			0,	0.5		
eceiving Water Body Qual. Imp		EC	Targete	-	-	-			
nproved Flood Management:	PI		_	ıl: FA			s: FALSE	Nutrients:	FALSE
round Water Protection or Imp				h: FA		Pollutant		Other:	FALSE
ther:			Descrip	tion:	Area [Orained 500	acres		
			1						

Water Supply Objectives			Water :	Su
Reduced Reliance Imported Water:	SEC		Surface Water	St
Increased Water Supply Reliability:	NA		GroundwaterT	Γrea
Increased Operational Flexibility:	NA		Reclaimed Gro	oun
Increased WaterConservation:	NA		Ocean Desalir	nati
Increased Water Recycling:	NA		Other: NA	
Increased Groundwater Management:	PRI		Type of supply	v/de
Reduced Sea Water Intrusion:	SEC		Description:	_
Protect/Improve Drinking Water Standards:	NA			
Other:			Annual Yield o	
Detention and Groundwater Rechai	rge Benefit]	Average Year:	
			Dry Year:	0
Acres of land that drain into basin: -1		I	Wet Year	Ο

Acres of land that drain into basin: Detention Basin Area (acres): Max Operational Depth (ft): Wetlands SoilType NA Method and Recharge (AFY): Estimated Annual Inflow (AFY): -1 Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives						
Create/Enhance Wetlands:	NA					
Restore/Protect Habitat:	NA					
Create Public Access/Rec/Open Space:	NA					
Increased In-Stream Flow:	NA					
Other:	NA					

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

<u>water s</u>	Supply/De	Water Supply/Demand Reduction Benefits						
Surface Water	Surface Water Storage:		Groundwater:	FALSE				
GroundwaterT	reatment:	FALSE	Recycled Water	: FALSE				
Reclaimed Gro	oundwater:	FALSE	Conservation:	FALSE				
Ocean Desalin	ation:	FALSE	Transfer:	FALSE				
Other: NA								
Type of supply	/demand red	duction:	NA					
Description:								
Annual Yield o	f Supply (AF	Y) : 500						
Availability by	water-year t	ype (AFY)						
Average Year:	0							
Dry Year:	0							
Wet Year:	0							
Other:	0							
Description:	NA							
Availability by	season:							
Summer: FAL	.SE	Spring	FALSE					
Fall: FAL	.SE	Winter	FALSE					
Has potential t Bay/Delta/Estu	•	emands on	NS					

Beneficial Use Benefit					
Non-Treatment Wetland Acres:	0				
Treatment Wetland Acres:	0				
Riparian Habitat Acres:	0				
Open Space Acres:	0				
Multiple Use/Recreation Area					
Single Sport Athletics Acres:	0				
Multiple Sport Athletics Acres:	0				
Other Recreation Acres	0				
Pedestrian Trail Acres	0				
Equestrian Trail Acres	0				
Other Acres	0				
Description: NA					
Total Project Acres:	0				

Other Benefits
500 acres flood control

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 56 Peninsula Village Green Building Review

City of Rolling Hills Estates

Kathleen McGowan 310-373-0330 kathleen.enve@verizon.net

http://ci.rolling-hills-estates.ca.us/comm-issues/pennvillage/index.htm Partnering Agency: **Project Description** Provide a 50% match to developers for the cost associated with contracting for an external environmental review of green building aspects of development/redevelopment projects proposed within the Peninsula Village overlay zone. This would include review for incorporation of green building features that also achieve IRWMP objectives including: water conservation, water recycling, flood management, stormwater capture and management/reuse, water quality protection and improvement. **Project Integration Project Need** NA **Cooperating Agencies Location Description Project Cost Estimate** The newly created Peninsula Village Overlay NA Lower Estimated Total Capital Cost (\$): 100000 Zone enables development of a mixed-use 100000 NA Upper Estimated Total Capital Cost (\$): urban village combining high-density Of total cost, estimated cost for land NA residences, office/service space, and retail uses -1 in a pedestrian-oriented environment in the purchase/easement (\$): NA heart of the City of Rolling Hills NΑ Annual OM Cost (\$): -1 **Associated Watersheds** Design Life of Project (years): -1 DCW **Project Source(s)** Sub-region(s) WB Dominguez Watershed Masterplan SO BAY NA NA Dominguez Watershed Masterplan Is part of larger program? NA Machado Lake Watershed Management Plan **FALSE** Machado Lake TMDLs (in development) Readiness to Proceed NA **Status** Date **Conceptual Plans** IN_PROC 1/1/2001 0:00 NOT_INIT 1/1/1753 12:00: **Land Acquisition** IN_PROC 1/1/2001 0:00 **Preliminary Plans** IN_PROC 1/1/2001 0:00 CEQA/NEPA 1/1/2007 NOT_INIT **Proposed Start Date: Permits** 1/1/1753 12:00: 1/1/2009 NOT_INIT 1/1/1753 12:00: Proposed Completion Date: **Construction Drawings** Ready For Construction Bid: N/A **Funding** NOT_INIT 1/1/1753 12:00: Water Quality Objectives **Water Quality Benefits** Improve Storm Water Quality: NA **Treatment Technology:** Improve Wastewater Effluent WQ: NA Treatment Capacity (MGD): 0 Receiving Water Body Qual. Improvement: NA Targeted Contaminants Pathogens: FALSE NA Metal: FALSE **Nutrients: FALSE** Improved Flood Management: NA Trash: FALSE **FALSE Ground Water Protection or Improvement:** Pollutants: Other: Other: Description: Area Drained 87 acres

water Supply Objective	<u>/es</u>	water Supply/De	illallu Ne	duction benefit
Reduced Reliance Imported Water:	NA	Surface Water Storage:	FALSE	Groundwater:
Increased Water Supply Reliability:	NA	GroundwaterTreatment:	FALSE	Recycled Water:
Increased Operational Flexibility:	NA	Reclaimed Groundwater:	FALSE	Conservation:
Increased WaterConservation:	NA	Ocean Desalination:	FALSE	Transfer:
Increased Water Recycling:	NA	Other: NA		
Increased Groundwater Management:	NA	Type of supply/demand re	duction:	NA
Reduced Sea Water Intrusion:	NA	Description: 1-100		
Protect/Improve Drinking Water Standards	: NA			
Other: Detention and Groundwater Rec	harge Benefit	Annual Yield of Supply (Al Availability by water-year t Average Year: 0		
Access of less dath of shorts trade to be size.		Dry Year: 0		
Acres of land that drain into basin: -1		Wet Year: 0		
Detention Basin Area (acres): -1		Other: 0		
Max Operational Depth (ft): -1		Description: NA		
% Wetlands 0				
SoilType NA				

Availability by season:

FALSE

Bay/Delta/Estuary system:

Has potential to displace demands on

Summer: FALSE

Beneficial Use Objectives

Create/Enhance Wetlands: NA
Restore/Protect Habitat: NA
Create Public Access/Rec/Open Space: NA
Increased In-Stream Flow: NA
Other: NA

-1

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

Estimated Annual Outflow (AFY):

Water Cumply Objectives

Flood Management Benefit Information

Max Storm Runoff Storage: -1

Max Conveyance Capacity: -1

Flood Protection Level: NA

Acres Benefitting: -1

Other: 0

Estimated Annual Flood Reduction Value:

Beneficial Use Benefit Non-Treatment Wetland Acres: **Treatment Wetland Acres:** 0 0 Riparian Habitat Acres: Open Space Acres: Multiple Use/Recreation Area **Single Sport Athletics Acres:** 0 **Multiple Sport Athletics Acres:** 0 0 Other Recreation Acres **Pedestrian Trail Acres** 0 **Equestrian Trail Acres** Other Acres Description: NA 0 **Total Project Acres:**

Spring

Winter

FALSE

FALSE

Water Cumply/Demand Reduction Renefite

Acreage Required for Implementation: -1

Other Benefits

87 acres subject to green building review

-1

NA
Upstream/downstream land use type:
NA
NA
NA

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 57 Peninsula Village Regional Stormwater Mitigation Program

City of Rolling Hills Estates 4045 Palos Verdes Drive North Rolling Hills Estates, CA 90274

Kathleen McGowan 310-373-0330 kathleen.enve@verizon.net

http://ci.rolling-hills-estates.ca.us/comm-issues/pennvillage/index.htm

Partnering Agency:

Project Description

The project will integrate a system of stormwater BMPs into the Streetscape Master Plan for public rights-of-way in a mixed-use overlay zone. Grant funding will support the portion of the stormwater mitigation for public streets and existing development, while mitigation banking from

developers will fund SUSMP mitigation overlay zone and remove stormwal features, and structural treatment recreational trails. Project features irrigation, water efficient landscapi	ation to benefit private redeve ter pollutants through: low im control BMPs. Project will inc include: porous paving for w	elopment projects. T pact redevelopmen rease safe pedestria alkways and parking	he project will re c, integrated wat an access through tots, reuse of r	educe the effect ter resources managed ghout the distri- cainwater from	tive impervion nanagement, ct and provide roof drains for	us area of th multi-benefit e connectivit r landscape	ne t natural ty to
Peninsula Village Overlay Zone The commercial core (>85%). The City has a mixed-use village, p with office, service an Plan (project) is an es pedestrian improveme create a sub-regional part for SUSMP requi from public streets an			City of Rolling Hill sed to rezone 45 and up to 900 new of I use in a pedestri I unifying element thin the public rigil water mitigation pets on individual re	acres of existing dwelling units wh ian-oriented envit of the overlay zo hts-of-way. The porogram within the development site.	commercial are ere there curre conment. The Sone focusing on project also pro- e public rights- es and to provide	ea for redevelontly are none, streetscape Manaesthetic and vides an oppoor-way to substee mitigation for	opment to along aster distribution to a structurate in contraction of the contraction of
Cooperating Agencies	Location Des	scription		Project	Cost Esti	mate_	
West Basin Municipal Water	Peninsula Village is lo		Lower Esti	imated Total C	apital Cost ((\$): 10	000000
eles County Department of Publ	commercial core of the C Estates and is to be a mixe		Upper Esti	mated Total C	apital Cost (\$): 10	0000000
eles County Department of Publ outh Bay Energy Savings Cente	with commercial and high development in a pede	density residential estrian-oriented		st, estimated easement (\$):	cost for land	-1	
NA	environme	ent.	Annual OM	1 Cost (\$):		-1	
Associated Watersheds			Design Life	e of Project (v	ears)·	-1	
DCW	Design Life of Project (years): Project Source(s) Sub-re				region(s		
WB		eetscape Master Pla	-	80	BAY	regioni	L
NA		eetscape Master Pla		NA NA	_		
Is part of larger program?		Draft Program EIR	111	NA NA			
TRUE		Peninsula Overlay 2	one				
		diness to Proc		I			
NA					Ctatus	Data	
		- II -	<u>tem</u> Seneentuel Ble		Status COMP	<u>Date</u> 5/1/2007	0.00
			Conceptual Pla		COMP	12/1/195	
II			and Acquisition		NOT_INIT	1/1/1753	
II			reilillinary Pia CEQA/NEPA	113	IN_PROC	5/1/2007	
Proposed Start	Date: 9/1/2008		Permits		NOT_INIT	1/1/1753	
Proposed Comp			Construction D	rawings	NOT_INIT	1/1/1753	
Ready For Cons			unding	. awings	IN_PROC	1/30/200	
Water Quality		<u> </u>		Vater Quali		•	
·	<u></u>	 				_	
			tment Technoloment Capacity		ation, filtration 0.916		
Receiving Water Body Qual. Imp			eted Contamin	` '	0.510		
Improved Flood Management:	PRI		<u>eted Contamin</u> letal: TRUE	Pathogens:	TRUE	Nutrients:	TRUE
Ground Water Protection or Imp			rash: TRUE	Pollutants:		Other:	FALSE
Other:	iovement. NA		ription:	ronutants:	INUL	oulei.	1 ALSE
Outer.		Desc	THE STATE OF THE S				

water Supply Objectives				
Reduced Reliance Imported Water:	PRI			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	NA			
Increased WaterConservation:	PRI			
Increased Water Recycling:	PRI			
Increased Groundwater Management: NA				
Reduced Sea Water Intrusion: NA				
Protect/Improve Drinking Water Standards:	NA			
Other:				

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA
energy conservation	

Flood Management Benefit Information Max Storm Runoff Storage: 1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water Storage:	FALSE	Groundwater:	FALSE		
GroundwaterTreatment:	FALSE	Recycled Water	: TRUE		
Reclaimed Groundwater:	FALSE	Conservation:	TRUE		
Ocean Desalination:	FALSE	Transfer:	FALSE		
Other:					
Type of supply/demand re	duction:	POT			
Description:					
Annual Yield of Supply (Al	-Y) : 22				
Availability by water-year t	ype (AFY)				
Average Year: 22					
Dry Year: 11					
Wet Year: 22					
Other: 0					
Description: NA					
Availability by season:					
Summer: TRUE	Spring	TRUE			
Fall: TRUE	Winter	TRUE			
Has potential to displace of Bay/Delta/Estuary system:		Y			

Beneficial Use Benefit					
Non-Treatment Wetland Acres:	0				
Treatment Wetland Acres:	0				
Riparian Habitat Acres:	0				
Open Space Acres:	0				
Multiple Use/Recreation Area					
Single Sport Athletics Acres:	0				
Multiple Sport Athletics Acres:	0				
Other Recreation Acres	0				
Pedestrian Trail Acres	1				
Equestrian Trail Acres	0				
Other Acres	0				
Description: NA					
Total Project Acres:	1				

Other Benefits

Stormwater and urban runoff from the 45 acres of downtown development within the Streetscape Master Plan will be reduced by increasing the effective permeability of the area from 15% to 85%. The project will infiltrate or beneficially reuse and treat the equivalent of a \hat{A}_{3} inch 24-hour rainfall or 34.2 acre-feet thereby providing significant flood management benefits to adjacent low-lying jurisdictions. Catch basins will be equipped with trash capture devices. Water demand for landscape irrigation within the project area will be met with beneficially reused or reclaimed water.

Dominant existing land use type:	COM	
Upstream/downstream land use type:	RES	
,		

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		
r		

Project # 58 Model Equestrian Center

City of Rolling Hills Estates 4045 Palos Verdes Drive North Rolling Hills Estates, CA 90274 Andy Clark
310-377-1577

lyc@ci.rolling-hills-estates.ca.us

Partnering Agency:

Project Description

The current municipal stables has space for 112 horses and includes three riding rings and two hot-walking rings. Plans are to include space for boarding additional horses as well as an additional riding ring and a turn-out ring. Design will incorporate low impact development and multi-benefit natural features. California Stormwater BMP Handbook guidelines for stable design and siting and manure management as well as IPM practices will be incorporated into the design and operation of the facility to minimize storm water pollution and runoff and optimize protection of human and equine health. The project will be designed to take advantage of reclaimed water infrastructure under development by West Basin MWD. The project is sited on the former Palos Verdes Landfill owned by the Sanitation Districts of Los Angeles County and has the approval of both the Sanitation Districts and California Department of Toxic Substances Control as a beneficial reuse of this brownfield site. O&M costs to be covered

will be incorporated into the design equine health. The project will be of project is sited on the former Palos Sanitation Districts and California by user fees	designed to take advar s Verdes Landfill owne	ntage of reclaimed wa d by the Sanitation D	ater infras istricts of	tructur Los A	e unde ngeles	r developr County ar	nent by West Band has the appro	asin MWD. ⁻ oval of both t	Γhe the
Project Integra Dominguez Watershed Managmen		A facility is needed to such facility is current properties within equeresidential equestrian Lake in the Domingue provides boarding fac childrenåe these clas are heavily utilized by provides the opportur	tly available estrian ove properties ez Watersh cilities for h ses are co the public	e in the rlay zor dischaled or the orses ampletel and in	South Enes on the south Enes on the south enes on the south enes on the south enes of the south enes o	Bay. An estine Palos Ve open chan a Monica Bas s pony cam each summe ed of renova	ter quality from ec mated 1000 horse ordes Peninsula. Finels and storm dri yy. Rolling Hills Es o classes that tea er. The riding rings tion. A planned re	s are kept on cunoff from the ains either to tates municip ch horsemans and boarding enovation and	residential ese Machado al stables ship to g facilities expansion
Cooperating Agencies Sanitation Districts of Los Dept. of Toxic Substances Con Dept. of Toxic Substances Con rian Committee of Rolling Hills I	Project is located or Sanitation District former Palos Ve Machado Lake subw	n Description n property leased from s of Los Angeles on to rdes Landfill within th atershed of the Domi atershed.	the ie	Uppe Of to	r Estim	nated Tota	ect Cost Est al Capital Cost al Capital Cost ed cost for land b):	(\$): 2 (\$): 3	2500000 8500000
Associated Watersheds						Cost (\$):			750000 20
DCW WB SMBW Is part of larger program? TRUE	Do	Design Life of Project (years): Project Source(s) Dominguez Watershed Master Plan Dominguez Watershed Master Plan Machado Lake Watershed Management Plan NA NA			-region(s	<u>s)</u>			
		Readiness to P	roceed	_					
			Land Prel	ceptua I Acqu	al Plansuisition y Plans	1	Status COMP IN_PROC NOT_INIT NOT_INIT		7 0:00
Proposed Start Proposed Com Ready For Cons	oletion Date: 12/3	2008 1/2008 ⁄ears	Perr Con Fun	struct	ion Dra	awings	NOT_INIT NOT_INIT IN_PROC		3 12:00: 3 12:00: 08 0:00
Improve Storm Water Quality: Improve Wastewater Effluent Wo	,								
Improved Flood Management: Ground Water Protection or Imp Other:	rovement: NA			l: FA n: FA ion:	LSE	Pathoge Pollutan e, sedime		Nutrients: Other:	TRUE TRUE

Water Supply Objectives Reduced Reliance Imported Water: SEC **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** NA **Increased WaterConservation:** SEC SEC **Increased Water Recycling: Increased Groundwater Management:** NA **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives				
Create/Enhance Wetlands:	NA			
Restore/Protect Habitat:	SEC			
Create Public Access/Rec/Open Space:	PRI			
Increased In-Stream Flow:	NA			
Other:	NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water Storage:	FALSE	Groundwater:	FALSE		
GroundwaterTreatment:	FALSE	Recycled Water	r: TRUE		
Reclaimed Groundwater	: FALSE	Conservation:	FALSE		
Ocean Desalination:	FALSE	Transfer:	FALSE		
Other:					
Type of supply/demand	reduction:	POT			
Description:					
Annual Yield of Supply (AFY) : 0.02				
Availability by water-yea	r type (AFY)				
Average Year: 0					
Dry Year: 0					
Wet Year: 0					
Other: 0					
Description:					
Availability by season:					
Summer: TRUE	Spring	TRUE			
Fall: TRUE	Winter	TRUE			
Has potential to displace Bay/Delta/Estuary system		Υ			

Beneficial Use Be	enetit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	7
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description: open space/recreation	
Total Project Acres:	7

Other Benefits

The project will create an educational demonstration site for environmentally sustainable horsekeeping practices and expand opportunity for public recreation. The project will be designed to infiltrate rainfall from the 10-acre drainage area and will demonstrate BMPs that can be easily replicated at private residential stables. The project will incorporate horse-safe native plant habitat buffers around the facility utilizing reclaimed water to establish the new plantings. Current potable water usage for dust control in riding rings will be replaced with reclaimed water. The project will

Dominant existing land use type:	OTHR
open space	
Upstream/downstream land use type:	RES

Addresses Environmental Justice issues:

Within Disadvantaged Community:

N

Disadvantaged Community Participation:

Y

Organization:

LA Conservation Corps

Project # 59 16th Street Watershed Runoff Reuse Demonstration Project

City of Santa Monica Neal Shapiro City of Santa Monica 200 Santa Monica Pier Suite K Santa Monica, CA 90401 Neal Shapiro 310-458-8223 neal.shapiro@smgov.net

www.santa-monica.org/epd

Partnering Agency: City of Los Angeles

Project Description

2 or 3 stage treatment, storage, infiltration and/or reuse project for all dry weather runoff, and up to 80% wet weather. Primary stage to remove trash, debris, and sediments. Secondary stage to filter out soluble pollutants, like heavy metals and organics, oil and grease. Final stage for storage and reuse, overflow to infiltration zone.

IRWMP This project is critically needed to reduce urban runoff poll Rose Avenue storm drain in the City of Los Angeles, impropostings, and to provide a local source of water for reuse reusing stormwater, the city can reduce its dependence of and the Colorado River, and helps the city become more stored.			ution reach the Santa Mon oving ocean water quality, t at a city park, i.e. landscap n imported water from north	to reduce beach e irrigation. By	
Cooperating Agencies	Locatio	n Description	Proj	ect Cost Estimate	
City of Los Angeles	The areas upstream of the project site (which is the end of the watershed) include single and multiple family properties, commercial and institutional areas, open spaces, and transportation areas.		Lower Estimated Tot	al Capital Cost (\$):	2500000
County of Los Angeles			multiple family properties, commercial and institutional areas, open spaces, and Upper Estimated Total Capital Cost (\$): Of total cost, estimated cost for land		4000000
County of Los Angeles NA					-1
NA			Annual OM Cost (\$):		5000
Associated Watersheds			Design Life of Project	ct (years):	30
SMBW	Project Source(s)			Sub-region	on(s)
WB NA	Bacterial TMDL for Santa Monica Bay		SO_BAY		
	Bacterial TMDL for Santa Monica Bay		NA		
Is part of larger program?	City Watershed Manage		lan	NA	
TRUE		City of LA Penmar BMP project			

Readiness to Proceed					
NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>	
		Conceptual Plans	COMP	4/15/2005 0:00	
		Land Acquisition	NA	1/1/1753 12:00:	
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:	
<u> </u>		CEQA/NEPA	COMP	7/15/2005 0:00	
Proposed Start Date:	4/1/2009	Permits	NOT_INIT	1/1/1753 12:00:	
Proposed Completion Date:	4/1/2010	Construction Drawings	NOT_INIT	1/1/1753 12:00:	
Ready For Construction Bid:	1-3 Years	Funding	NOT_INIT	1/1/1753 12:00:	

	Water Quality Benefits
PRI	Treatment Technology: Separation, screening, media-filtration
NA	Treatment Capacity (MGD): 250000
PRI	Targeted Contaminants
PRI	Metal: TRUE Pathogens: TRUE Nutrients: FALSE
NA	Trash: TRUE Pollutants: TRUE Other: FALSE
	Description: 230 acres, appr. 80 cfs or 7 acre-feet
	NA PRI PRI

Water Supply Objectives				
Reduced Reliance Imported Water:	PRI			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	PRI			
Increased WaterConservation:	NA			
Increased Water Recycling:	PRI			
Increased Groundwater Management:	PRI			
Reduced Sea Water Intrusion:	NA			
Protect/Improve Drinking Water Standards:	NA			
Other:				
Detention and Groundwater Recharge Benefit				

-1 Acres of land that drain into basin: **Detention Basin Area (acres):** -1 -1 Max Operational Depth (ft): 0 % Wetlands SoilType NA Method and Recharge (AFY): **Estimated Annual Inflow (AFY):** -1 **Estimated Annual Outflow (AFY):**

Beneficial Use Objectives		
Create/Enhance Wetlands:	NA	
Restore/Protect Habitat:	PRI	
Create Public Access/Rec/Open Space:	NA	
Increased In-Stream Flow:	NA	
Other:	NA	

Flood Management Benefit Information Max Storm Runoff Storage: -1 **Max Conveyance Capacity:** Flood Protection Level: NA Acres Benefitting: -1 Other: 0 **Estimated Annual Flood Reduction Value:** -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water Storage:	FALSE	Groundwater:	FALSE	
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE	
Reclaimed Groundwater:	FALSE	Conservation:	FALSE	
Ocean Desalination:	FALSE	Transfer:	FALSE	
Other: Stormwater reuse				
Type of supply/demand re	duction:	NONPOT		
Description:				
Annual Yield of Supply (Al	FY): 0			
Availability by water-year t	ype (AFY)			
Average Year: -1				
Dry Year: 0				
Wet Year: 0				
Other: 0				
Description: NA				
Availability by season:				
Summer: TRUE	Spring	TRUE		
Fall: TRUE	Winter	TRUE		
Has potential to displace of Bay/Delta/Estuary system:		Y		

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description: NA				
Total Project Acres:	260			

Other Benefits

Removal of all or most runoff pollutants; reuse of stormwater, couple 100 thousand gallons per year for reuse, offsetting need for equivalent amt of potable water;

Dominant existing land use type:	RES
Upstream/downstream land use type:	OTHR
Residential, commercial, open spaces	

Addresses Environmental Justice issues: Ν Within Disadvantaged Community: Ν **Disadvantaged Community Participation:** Organization:

Project # 61 Parks Runoff Retrofit Reuse-Infiltration Projects

City of Santa Monica
City of Santa Monica 200 Santa Monica Pier
Suite K Santa Monica, CA 90401

Project Integration

Proposed Start Date:

Proposed Completion Date:

Neal Shapiro 310-458-8223 neal.shapiro@smgov.net

www.santa-monica.org/epd

IRWMP

Partnering Agency: County of Los Angeles Public Wo

Project Need

This project will demonstrate how open spaces of cities, that is parks, which are found throughout the City of Santa Monica and in most cities, can be used to harvest dry weather and wet weather

Project Description

Retrofit an existing park by adding a series of runoff treatment, reuse and infiltration BMPs to deal with onsite and offsite runoff. The pre-treatment stages will remove large, floatable and soluble pollutants. Disinfection treatment will also be included for runoff that is reused for landscape irrigation and indoor flushing. Runoff from the adjacent streets and/or from an adjacent storm drain line, whichever offers the best ongoing runoff supply, will be diverted to the treatment and storage system. The BMP system will also have an overflow stage for infiltration of some runoff, so that during periods of low reuse, runoff can be infiltrated into the ground.

	runoff from surface flows and/o reuse it for landscape irrigation be captured and reused, and al leading to improved water quali storm drains, flood control man	This project is critical to d so keep this water pollution ty and beneficial uses. Also	emonstrate how local waten source out of the Santa	er resources can Monica Bay,
Cooperating Agencies	Location Description	Proj	ect Cost Estimate	2
County of Los Angeles Public	Area upstream of a city park location include	Lower Estimated Tot	tal Capital Cost (\$):	2500000
NA	single- and multi-family residential, commercial and transportation.	Upper Estimated Tot	al Capital Cost (\$):	3250000
NA	and transportation.	Of total cost, estimat		0
NA		purchase/easement	(\$):	
NA		Annual OM Cost (\$):		5000
Associated Watersheds		Design Life of Project	ct (years):	30
SMBW	Project Source(s)		Sub-regi	on(s)
NA	Bacterial and Trash TMDLs		SO_BAY	
NA	Bacterial and Trash TMDLs		NA	
Is part of larger program?	and future TMDLs for the SM Bay; City Watershed Management Plan		NA	
TRUE	NA			
Readiness to Proceed				
NA	Iten	1	Status	Date

Ready For Construction Bid:	1-3 Years	Funding NOT_INIT 1/1/1753 12:00:
Water Quality Objectives	<u> </u>	Water Quality Benefits
Improve Storm Water Quality:	PRI	Treatment Technology: Filtering, Disinfection
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 0.1
Receiving Water Body Qual. Improvement:	PRI	Targeted Contaminants
Improved Flood Management:	PRI	Metal: TRUE Pathogens: TRUE Nutrients: FALSE
Ground Water Protection or Improvement:	SEC	Trash: TRUE Pollutants: TRUE Other: FALSE
Other:		Description: Unknown at this time

6/1/2009

12/15/2009

Conceptual Plans

Land Acquisition

Preliminary Plans

Construction Drawings

CEQA/NEPA

Permits

NOT_INIT

NOT_INIT

NOT_INIT

NOT_INIT

NA NOT_INIT 1/1/1753 12:00: 1/1/1753 12:00:

1/1/1753 12:00:

1/1/1753 12:00:

1/1/1753 12:00:

1/1/1753 12:00:

Water Supply Objectives				
Reduced Reliance Imported Water:	PRI			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	PRI			
Increased WaterConservation:	PRI			
Increased Water Recycling:	PRI			
Increased Groundwater Management: SEC				
Reduced Sea Water Intrusion: SEC				
Protect/Improve Drinking Water Standards: NA				
Other:				
Detention and Groundwater Recharge Benefit				
Acres of land that drain into basin: -1				

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives		
Create/Enhance Wetlands:	NA	
Restore/Protect Habitat:	PRI	
Create Public Access/Rec/Open Space:	SEC	
Increased In-Stream Flow:	NA	
Other:	NA	

Flood Management Benefit Information

Max Storm Runoff Storage: -1

Max Conveyance Capacity: -1

Flood Protection Level: NA

Acres Benefitting: -1

Other: 0

Estimated Annual Flood Reduction Value: -1

Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water Storage:	FALSE	Groundwater:	FALSE	
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE	
Reclaimed Groundwater	: FALSE	Conservation:	FALSE	
Ocean Desalination:	FALSE	Transfer:	FALSE	
Other: Runoff				
Type of supply/demand i	reduction:	NONPOT		
Description:				
Annual Yield of Supply (AFY) : 15			
Availability by water-year	r type (AFY)			
Average Year: 15				
Dry Year: 0				
Wet Year: 0				
Other: 0				
Description: NA				
Availability by season:				
Summer: FALSE	Spring	TRUE		
Fall: FALSE	Winter	TRUE		
Has potential to displace demands on Bay/Delta/Estuary system:				

Beneficial Use Benefit				
Non-Treatment W	etland Acres:	0		
Treatment Wetlan	nd Acres:	0		
Riparian Habitat	Acres:	0		
Open Space Acre	es:	0		
Multiple Use/Rec	reation Area			
Single Sport A	thletics Acres:	0		
Multiple Sport Athletics Acres:		0		
Other Recreation Acres		0		
Pedestrian Trail Acres		0		
Equestrian Trail Acres		0		
Other Acres		0		
Description:	Yes, for Memoria spaces; No for C	al Park, new open Ozone Park.		
Total Project Ac	res:	0		

Other Benefits

Water Quality: Removal of all runoff pollutants captured for the project BMP system; reduction of pollution to the Santa Monica Bay; improvement of water quality in the Bay; improvement of beneficial uses of the Bay in the area of Santa Monica beaches, which receive millions of visitors and users each year. Water Supply: Reuse of dry weather (if applicable) and stormwater; reduction in demand for imported potable water from distant watersheds; leave more potable water in distant watersheds, protecting those watersheds. Flood Management: reduce the amount of stormwater in

RES	
COM	
	1120

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 67 Memorial Park Runoff Treatment and Reuse Project - 1

City of Santa Monica
City of Santa Monica 200 Santa Monica Pier
Suite K Santa Monica, CA 90401

Neal Shapiro 310-458-8223 neal.shapiro@smgov.net

www.santa-monica.org/epd

Partnering Agency: County of Los Angeles

Project Description

This project will involve 2-3 treatment systems in series, harvesting stormwater runoff from the main storm drain passing by the Park. Runoff will diverted to a primary screening/separation system to remove floatables and larger materials (trash, debris, sediments), then a secondary system to remove soluble pollutants and then a tertiary storage/reuse vault. The stored runoff will be used for landscape irrigation and/or infiltation into the ground (overflow, excess storage). The system will be underground.

IRWMP Project Integration		Project Need This project is a critically important demonstration project of how the open spaces of a park can be used to harvest urban runoff and its pollution, store it, reuse it for landscape irrigation and infiltrate excess storage. This project will demonstrate how runoff pollution can be kept out of the Santa Monica Bay, improving water quality of the Bay. This project will demonstrate how a local water resource, stormwater, can be reused locally, reducing demand for more valuable imported potable water from Northern California and the Colorado River. This project will show how new open spaces can serve multiple uses: recreation, pollution reduction, and water reuse. This project demonstrates how the city can be more sustainable and will help the city meet its obligations for TMDL pollution reductions.			
Cooperating Agencies County of Los Angeles Public NA NA NA NA NA NA Associated Watersheds	Within an expans Colorado Avenue ar of City, with upstrear	n Description sion of Memorial Park at nd 14th Street, central part m watershed extending into of Los Angeles.	Projection	al Capital Cost (\$): ed cost for land (\$):	3000000 4500000 -1 5000
SMBW NA NA	Santa Monica Bay Bea	Project Source(s) aches Bacteria TMDL Implementaches Bacteria TMDL Implementa Monica Watershed Manag	entation Plan J2,3 (2005 entation Plan J2,3 (2005	Sub-region SO_BAY	

Readiness to Proceed				
NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	NOT_INIT	1/1/1753 12:00:
		Land Acquisition	NA	1/1/1753 12:00:
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:
]		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Proposed Start Date:	5/15/2010	Permits	NOT_INIT	1/1/1753 12:00:
Proposed Completion Date:	10/15/2010	Construction Drawings	NOT_INIT	1/1/1753 12:00:
Ready For Construction Bid:	1-3 Years	Funding	NOT_INIT	1/1/1753 12:00:

Water Quality Objectives		Water Quality Benefits		
Improve Storm Water Quality:	PRI	Treatment Technology: Separation, screening, media-filtration		
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 250000		
Receiving Water Body Qual. Improvement:	PRI	Targeted Contaminants		
Improved Flood Management:	PRI	Metal: TRUE Pathogens: TRUE Nutrients: TRUE		
Ground Water Protection or Improvement:	PRI	Trash: TRUE Pollutants: TRUE Other: TRUE		
Other:		Description: Oil and Grease		

Water Supply Objectives Reduced Reliance Imported Water: PRI **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** PRI PRI **Increased WaterConservation:** PRI **Increased Water Recycling: Increased Groundwater Management:** PRI **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 2500

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives				
Create/Enhance Wetlands: NA				
Restore/Protect Habitat:	PRI			
Create Public Access/Rec/Open Space: PRI				
Increased In-Stream Flow: NA				
Other: NA				

Flood Management Benefit Information Max Storm Runoff Storage: 1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: 300 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: 2

Water Supply/Demand Reduction Benefits					
Surface Water Storage:	FALSE	Groundwater:	FALSE		
GroundwaterTreatment:	FALSE	Recycled Water:	FALSE		
Reclaimed Groundwater:	TRUE	Conservation:	FALSE		
Ocean Desalination:	FALSE	Transfer:	FALSE		
Other: NA					
Type of supply/demand red	duction:	NONPOT			
Description:					
Annual Yield of Supply (AF	Y) : 300				
Availability by water-year type (AFY)					
Average Year: 0					
Dry Year: 0					
Wet Year: 0					
Other: 0					
Description: NA					
Availability by season:					
Summer: TRUE	Spring	TRUE			
Fall: TRUE	Winter	TRUE			
Has potential to displace de Bay/Delta/Estuary system:	emands on	Υ			

Beneficial Use Benefit			
Non-Treatment Wetland Acres:	0		
Treatment Wetland Acres:	0		
Riparian Habitat Acres:	0		
Open Space Acres:	0		
Multiple Use/Recreation Area			
Single Sport Athletics Acres:	0		
Multiple Sport Athletics Acres:	0		
Other Recreation Acres	0		
Pedestrian Trail Acres	0		
Equestrian Trail Acres	0		
Other Acres	0		
Description: NA			
Total Project Acres:	0		

Other Benefits

Removal of most runoff pollutants from dry weather runoff and a significant portion of wet weather runoff, protecting water quality of the Santa Monica Bay. Reuse of dry and wet weather runoff. This project location is in an area, Kenter Canyon storm drain, that has daily dry weather runoff of some 300,000 gallons per day.

OTHR
OTHR

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		
•		

Project # 74 Yukon Well Field Development

City of Torrance 20500 Madrona Avenue Torrance, CA 90503

Ground Water Protection or Improvement:

Other:

NA

Rob **Beste** 310-781-6900 rbeste@torrnet.com

NA Partnering Agency: Metropolitan Water District

Project Description The project will construct four wells to reduce dependence on imported MWD water. The project will include land acquisition, well, treatment, and distribution construction. **Project Integration** Project Need The City of Torrance currently has only one operating water well. The other City of Torrance water wells have been shut down due to expansion of the saline plume in central Torrance and high organics in southern Torrance. The result is that Torrance has to purchase approximately 5000 acrefeet of water imported by the Metropolitan Water District. This lack of diversity in water resources limits Torrance ability to provide drinking water and water to fight fires in the case of a large earthquake. **Cooperating Agencies Location Description Project Cost Estimate** The area for well construction will be in the City NA Lower Estimated Total Capital Cost (\$): 10000000 of Torrance along Yukon Avenue north of the 15000000 NA Upper Estimated Total Capital Cost (\$): 405 Freeway and south of Artesia Boulevard. Of total cost, estimated cost for land NA The project is in the South Bay Sub-region of 2000000 the Greater Los Angeles County Region. purchase/easement (\$): NA NΑ Annual OM Cost (\$): 1500000 **Associated Watersheds** Design Life of Project (years): 20 WB **Project Source(s)** Sub-region(s) NA v of Torrance Urban Water Management Plan and the Torrance Municipal VSO BAY NA y of Torrance Urban Water Management Plan and the Torrance Municipal VNA Is part of larger program? NA **FALSE** NA Readiness to Proceed NA **Status** Date IN_PROC 1/1/2001 0:00 **Conceptual Plans** NOT_INIT 1/1/1753 12:00: **Land Acquisition** NOT_INIT 1/1/1753 12:00: **Preliminary Plans** NOT_INIT CEQA/NEPA 1/1/1753 12:00: 1/1/2009 **Proposed Start Date: Permits** NOT_INIT 1/1/1753 12:00: 1/1/2012 NOT_INIT 1/1/1753 12:00: Proposed Completion Date: **Construction Drawings** Ready For Construction Bid: N/A **Funding** NOT_INIT 1/1/1753 12:00: Water Quality Objectives **Water Quality Benefits** Improve Storm Water Quality: NA **Treatment Technology:** Disinfection Improve Wastewater Effluent WQ: NA Treatment Capacity (MGD): 4.5 Receiving Water Body Qual. Improvement: NA Targeted Contaminants Pathogens: FALSE NA Metal: FALSE **Nutrients: FALSE** Improved Flood Management:

Trash: FALSE

Description: NA

Pollutants:

FALSE

FALSE

Water Supply Objectives			
Reduced Reliance Imported Water:	PRI		
Increased Water Supply Reliability:	PRI		
Increased Operational Flexibility:	PRI		
Increased WaterConservation:	NA		
Increased Water Recycling: NA			
Increased Groundwater Management: NA			
Reduced Sea Water Intrusion: NA			
Protect/Improve Drinking Water Standards: NA			
Other:			

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives			
Create/Enhance Wetlands: NA			
Restore/Protect Habitat: NA			
Create Public Access/Rec/Open Space: NA			
Increased In-Stream Flow: NA			
Other: NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply	/Demand Re	duction Benefit	<u>s</u>
Surface Water Storage	: FALSE	Groundwater:	TRUE
GroundwaterTreatmen	t: FALSE	Recycled Water	: FALSE
Reclaimed Groundwate	er: FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other: NA			
Type of supply/demand	d reduction:	POT	
Description:			
Annual Yield of Supply	(AFY): 5000		
Availability by water-ye	ear type (AFY)		
Average Year: 0			
Dry Year: 0			
Wet Year: 0			
Other: 0			
Description: NA			
Availability by season:			
Summer: TRUE	Spring	TRUE	
Fall: TRUE	Winter	TRUE	
Has potential to displa Bay/Delta/Estuary syst		Υ	

Beneficial Us	se Benefit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description: NA	
Total Project Acres:	0

Other Benefits

This project would allow Torrance to reduce imported water purchases by approximately 5000 acre-feet a year. This lack of diversity in water resources limits Torrance ability to provide drinking water and water to fight fires in the case of a large earthquake.

Dominant existing land use type:	OTHR	
Land currently leased for landscape nurs	sary	
Upstream/downstream land use type:	RES	
P. Control of the con		

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 78 Conversion of Amie Storm Drain Sump Tributary to Santa Monica

City of Torrance, SMBBB TMDL Jurisdictional Group 20500 Madrona Avenue Torrance. CA 90503

Rob Beste 310-781-6900 rbeste@torrnet.com

NA

Partnering Agency: Jurisdictional Groups 5 & 6 (Redo

Project Description

This project would convert the Amie sump into an infiltration or bio-filtration, or passive wetlands treatment BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would install SCADA controlled flow control valves to divert dry season run off to the Dominguez Channel tributary area and help prevent over flows at the stormwater diversion bump station for the Herondo Drain. This project would install trash screens to collect all trash before entering the bottom of the basin and increasing the bacteria loads.

Pro	IDCT	Inton	ration
110	CUL	HILEU	II aliVII

Groups 5 & 6 SMBBB TMDL Implementation Plan

Project Need

The Regional Water Quality Control Board has adopted bacteria TMDL for the Santa Monica Bay. This project will provide infiltration to prevent run-off during dry weather from flusing bacteria into the Santa Monica Bay during dry weather. This project will provide passive wetlands treatment to reduce bacteria loading during the wet season. This project will install trash screens to reduce bacteria loads year round.

Cooperating Agencies	Location Description	Proje	ect Cost Estimate	
County of Los Angeles	The Amie sump is tributary to 396 acres of Torrance and is tributary to the Santa Monica	Lower Estimated Total	al Capital Cost (\$):	1000000
NA	Bay. This drainage area is generally described as north of Torrance Boulevard, west of Prairie	Upper Estimated Total	al Capital Cost (\$):	2000000
NA		Of total cost, estimat		0
NA	Avenue, east of Hawthorne Blvd and south of	purchase/easement (\$):	
NA		Annual OM Cost (\$):		5000
Associated Watersheds		Design Life of Projec	t (years):	20
SMBW	Project Source(s)		Sub-regio	on(s)
WB	nta Monica Bay Beaches Bacteria Total Maximum D	aily Load Implementatio	SO BAY	
NA NA	nta Monica Bay Beaches Bacteria Total Maximum Daily Load Implementatio		_	
Is part of larger program?	Jurisdictional Groups 5 and 6	3	NA	
TRUE	'			

NA

Readiness to Proceed				
NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	IN_PROC	4/1/2007 0:00
		Land Acquisition	COMP	1/1/1950 0:00
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:
]		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Proposed Start Date:	1/1/2008	Permits	NOT_INIT	1/1/1753 12:00:
Proposed Completion Date:	1/1/2009	Construction Drawings	NOT_INIT	1/1/1753 12:00:
Ready For Construction Bid:	N/A	Funding	NOT_INIT	1/1/1753 12:00:

Water Quality Objectives		Water Quality Benefits		
Improve Storm Water Quality:	PRI	Treatment Technology:		
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): -1		
Receiving Water Body Qual. Improvement:	PRI	Targeted Contaminants		
Improved Flood Management:	SEC	Metal: FALSE Pathogens: FALSE Nutrients: FALSE		
Ground Water Protection or Improvement:	SEC	Trash: FALSE Pollutants: FALSE Other: FALSE		
Other:		Description: Area Drained 396 acres and/or Volume Treated 5.1 mgd		

water Supply Objectives	
Reduced Reliance Imported Water:	NA
Increased Water Supply Reliability:	SEC
Increased Operational Flexibility:	NA
Increased WaterConservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	SEC
Reduced Sea Water Intrusion:	SEC
Protect/Improve Drinking Water Standards:	NA
Other:	

Water Cumply Objectives

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 396

Detention Basin Area (acres): 3

Max Operational Depth (ft): 30

% Wetlands 30

SoilType NA

Method and Recharge (AFY): infiltration wells

Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives	
Create/Enhance Wetlands:	SEC
Restore/Protect Habitat:	SEC
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: 135 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/De	mand Re	duction Benefit	<u>s</u>
Surface Water Storage:	FALSE	Groundwater:	FALSE
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other: mitigate saline plum	ie		
Type of supply/demand red	duction:	NA	
Description: NA			
Annual Yield of Supply (AF	Y) : 135		
Availability by water-year ty	pe (AFY)		
Average Year: 135			
Dry Year: 0			
Wet Year: 135			
Other: 0			
Description: NA			
Availability by season:			
Summer: FALSE	Spring	FALSE	
Fall: FALSE	Winter	FALSE	
Has potential to displace de Bay/Delta/Estuary system:	emands or	NS	

Beneficial Use Benefit		
Non-Treatment Wetland Acres:	0	
Treatment Wetland Acres:	2	
Riparian Habitat Acres:	2	
Open Space Acres:	0	
Multiple Use/Recreation Area		
Single Sport Athletics Acres:	0	
Multiple Sport Athletics Acres:	0	
Other Recreation Acres	0	
Pedestrian Trail Acres	0	
Equestrian Trail Acres	0	
Other Acres	0	
Description: 4.3 acres created/re	stored	
Total Project Acres:	4	

Other Benefits

This project will treat stormwater for bacteria during the wet season. This project will infiltrate or divert dry season run off and reduce the bacteria load on the Santa Monica Bay. This project will reduce flows in the Herondo Drain and reduce flows and chances of overflows for the Herondo Drain stormwater diversion pump station. This project will increase infiltration and help mitigate the saline plume. This project will improve animal habitat.

Dominant existing land use type:	PUB	
Upstream/downstream land use type:	RES	
The state of the s		

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: N
Disadvantaged Community Participation: NS
Organization: NA

Project # 80 Conversion of Henrietta Storm Drain Sump Tributary to Santa

City of Torrance, SMBBB TMDL Jurisdictional Group 20500 Madrona Avenue Torrance, CA 90503

Beste 310-781-6900 rbeste@torrnet.com

Partnering Agency: County of Los Angeles, Jurisdictio

NA

Project Description

This project would convert the Henrietta sump into an infiltration, passive wetlands and/or bio-filtration BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat and access for public use. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would also install trash screens to improve trash removal and protect the wetlands. An existing abandoned oil pump island would be modified to provide public access and wild life viewing. Proposed infiltration wells would eliminate dry weather run off from this drainage area and help mitigate the saline plume.

Project	Integration

Groups 5 & 6 Bacteria TMDL Implementation Plan

Project Need

The Regional Water Quality Control Board has adopted a bacteria TMDL for the Santa Monica Bay. The Henrietta Detention Basin is tributary to the Los Angeles County Herondo Drain that experiences bacteria exceedences. This project is needed to comply with the bacteria TMDL and would help mitigate the saline plume with increased groundwater infiltration. The Henrietta Detention Basin has large open spaces available for habitat restoration. The City also proposed improvements to an old oil pump island in the middle of the basin for better public access that would have no impact on the open spaces habitat.

Cooperating Agencies

County of Los Angeles Jurisdictional Groups 5 & 6 Jurisdictional Groups 5 & 6

NA

NA

Location Description

The Henrietta sump is tributary to 594 acres of Torrance and is tributary to the Santa Monica Bay. This drainage area is generally described as north of Torrance Boulevard, west of Hawthorne Blvd., east of the westerly City boundary and south of Del

Project Cost Estimate

Lower Estimated Total Capital Cost (\$): 1000000 5000000 Upper Estimated Total Capital Cost (\$):

Of total cost, estimated cost for land purchase/easement (\$):

Design Life of Project (years):

20

Annual OM Cost (\$): 5000

NA

Associated Watersheds

SMBW NA

NA Is part of larger program?

TRUE

Other:

Project Source(s)

Sub-region(s) nta Monica Bay Beaches Bacteria Total Maximum Daily Load ImplementatioSO BAY

ita Monica Bay Beaches Bacteria Total Maximum Daily Load Implementatio NA

Jurisdictional Groups 5 and 6

NA

Readiness to Proceed

NA NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	IN_PROC	1/1/2007 0:00
		Land Acquisition	COMP	1/1/1950 0:00
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:
]		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Proposed Start Date:	1/1/2008	Permits	NOT_INIT	1/1/1753 12:00:
Proposed Completion Date:	1/1/2009	Construction Drawings	NOT_INIT	1/1/1753 12:00:
Ready For Construction Bid:	N/A	Funding	NOT_INIT	1/1/1753 12:00:

Water Quality Objectives

Improve Storm Water Quality: PRI Improve Wastewater Effluent WQ: NA Receiving Water Body Qual. Improvement: PRI SEC Improved Flood Management: SEC **Ground Water Protection or Improvement:**

Water Quality Benefits

Treatment Technology: Treatment Capacity (MGD):

Targeted Contaminants

Pathogens: FALSE Metal: FALSE **Nutrients: FALSE** Trash: FALSE Pollutants: FALSE Other: **Description:** Area Drained 594 acres and/or Volume Treated mgd

0

<u>water Supply Objectives</u>				
Reduced Reliance Imported Water:	NA			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	NA			
Increased WaterConservation:	NA			
Increased Water Recycling: NA				
Increased Groundwater Management: SEC				
Reduced Sea Water Intrusion: SEC				
Protect/Improve Drinking Water Standards: NA				
Other:				

Water Cumply Objectives

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: 594

Detention Basin Area (acres): 8

Max Operational Depth (ft): 20

% Wetlands 50

SoilType NA

Method and Recharge (AFY): infiltration wells

Estimated Annual Inflow (AFY): 101
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives	
Create/Enhance Wetlands:	PRI
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	SEC
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: 101 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water	Supply/De	mand Re	duction Benefit	<u>s</u>		
Surface Wate	r Storage:	FALSE	Groundwater:	FALSE		
Groundwater -	GroundwaterTreatment: FALSE Recycled Water: FALSE					
Reclaimed Gr	Reclaimed Groundwater: FALSE Conservation: FALSE					
Ocean Desalination: FALSE Transfer: FALS						
Other: NA						
Type of suppl	y/demand red	duction:	NA			
Description:	: NA					
Annual Yield	of Supply (AF	Y) : 0				
Availability by	water-year t	ype (AFY)				
Average Year:	: 0					
Dry Year:	0					
Wet Year:	0					
Other:	0					
Description:	NA					
Availability by	season:					
Summer: FA	LSE	Spring	FALSE			
Fall: FA	LSE	Winter	FALSE			
Has potential Bay/Delta/Est	•	emands on	NS			

Beneficial Us	e Benefit	
Non-Treatment Wetland Acres:	0	
Treatment Wetland Acres:	4	
Riparian Habitat Acres:	4	
Open Space Acres:	0	
Multiple Use/Recreation Area		
Single Sport Athletics Acres:	0	
Multiple Sport Athletics Acres:	0	
Other Recreation Acres	0	
Pedestrian Trail Acres	0	
Equestrian Trail Acres	0	
Other Acres	0	
Description: 38.8 acres created	d/restored	
Total Project Acres:	8	

Other Benefits

This project will reduce stormwater run off to the Santa Monica Bay and thereby reduce bacteria loads to the bay by using passive wetlands treatment and infiltration. Increased infiltration will help to mitigate the saline plume and reduce pumping from the Herondo Drain stormwater diversion pump station. Habitat restoration of the basin is included. The project will also install trash screens to improve water quality and habitat. An existing abandoned oil pump island will be converted into a wildlife viewing area and provide some public access to the basin.

Dominant existing land use type:	PUB	
Upstream/downstream land use type:	RES	

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project #89 Dominguez Channel Habitat Restoration

Coastal Conservancy

Christopher Kroll 510-286-4169 ckroll@scc.ca.gov

Partnering Agency:

Habitat creation/restoration in and	along the Dominguez	Project Desc Channel	<u>cription</u>						
<u>Project Integra</u>	<u>ition</u>			<u>Pr</u>	<u>oject</u>	<u>Need</u>			
Cooperating Agencies		n Description City of Hawthorne to	the	_			t Cost Est		
		ne Port of Los Angele	9				Capital Cost Capital Cost		
							capital cost I cost for land		
				purchase				_	'
				Annual (OM Cos	st (\$):		-1	
Associated Watersheds NA				Design L	Life of F	Project (years):	-1	
NA NA		Project Source						-region(s	2)
NA NA	=	ez Watershed Manag					O_BAY		
Is part of larger program?	Domingu	ez Watershed Manag	gement Ma	aster Plar	n	N/			
FALSE	1					N	А		
Readiness to Proceed									
			Item				Status	Data	
ll .				ceptual P	Plans		NOT_INIT	<u>Date</u> 1/1/1753	
ll .				l Acquisi			NOT_INIT	1/1/1753	3 12:00:
ll .			Preli	minary P	Plans		NOT_INIT	1/1/1753	3 12:00:
1			CEQ	A/NEPA			NOT_INIT	1/1/1753	3 12:00:
Proposed Start		1/1753	Perm				NOT_INIT	1/1/1753	
Proposed Comp		1/1753		struction 	Drawir	ngs	NOT_INIT	1/1/1753	
Ready For Cons	struction Bid: N/A		Func	ding			NOT_INIT	1/1/1753	3 12:00:
Water Quality	Objectives				Wate	r Qual	ity Benefit	<u>s</u>	
Improve Storm Water Quality:	N/	4	Treatme	nt Techn	ology:				
Improve Wastewater Effluent WG		Ą	Treatme	nt Capac	ity (MG	iD):	0		
Receiving Water Body Qual. Imp			_	d Contam					
Improved Flood Management:	N/			: FALSE		athogens		Nutrients:	
Ground Water Protection or Impo	rovement: NA			ı: FALSE	= Po	ollutants	: FALSE	Other:	FALSE
Other:			Descript	IUII.					

Water Supply Objectives	Water Supply/Demand Reduction Benefits
Reduced Reliance Imported Water: NA	Surface Water Storage: FALSE Groundwater: FALSE
Increased Water Supply Reliability: NA	GroundwaterTreatment: FALSE Recycled Water: FALSE
Increased Operational Flexibility: NA	Reclaimed Groundwater: FALSE Conservation: FALSE
Increased WaterConservation: NA	Ocean Desalination: FALSE Transfer: FALSE
Increased Water Recycling: NA	Other:
Increased Groundwater Management: NA	Type of supply/demand reduction: NA
Reduced Sea Water Intrusion: NA	Description:
Protect/Improve Drinking Water Standards: NA	
Other:	Annual Yield of Supply (AFY): 0
Detention and Groundwater Recharge Benefit	Availability by water-year type (AFY) Average Year: 0
	Dry Year: 0
Acres of land that drain into basin: -1	Wet Year: 0
Detention Basin Area (acres): -1	Other: 0
Max Operational Depth (ft): -1	Description:
% Wetlands 0	3000.15.000
SoilType NA	Availability by cooper:
Method and Recharge (AFY):	Availability by season:
Estimated Annual Inflow (AFY): -1	Summer: FALSE Spring FALSE Fall: FALSE Winter FALSE
Estimated Annual Outflow (AFY): -1	
	Has potential to displace demands on NS
Beneficial Use Objectives	Bay/Delta/Estuary system:
Create/Enhance Wetlands: NA	Beneficial Use Benefit
Restore/Protect Habitat: NA	Non-Treatment Wetland Acres: 0
Create Public Access/Rec/Open Space: NA	Treatment Wetland Acres:
Increased In-Stream Flow: NA	Riparian Habitat Acres: 0
Other: NA	Open Space Acres: 0
	Multiple Use/Recreation Area
	Multiple Use/Recreation Area Single Sport Athletics Acres: 0
Flood Management Benefit Information	Single Sport Athletics Acres: 0
	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0
Max Storm Runoff Storage: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0
Max Storm Runoff Storage: Max Conveyance Capacity: Flood Protection Level: Acres Benefitting: -1 NA -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description:
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1 Oth	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description: Total Project Acres: 0
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description: Total Project Acres: 0 er Benefits Addresses Environmental Justice issues: NS
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1 Oth	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description: Total Project Acres: 0 er Benefits Addresses Environmental Justice issues: NS Within Disadvantaged Community: NS
Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1 Oth	Single Sport Athletics Acres: 0 Multiple Sport Athletics Acres: 0 Other Recreation Acres 0 Pedestrian Trail Acres 0 Equestrian Trail Acres 0 Other Acres 0 Description: Total Project Acres: 0 er Benefits Addresses Environmental Justice issues: NS

Project # 90 Ballona Wetlands Restoration

Coastal Conservancy, Dept. Fish and Game Jack Liebster Coastal Conservancy 1330 Broadway, 13th floor Oakland, CA 94612

510-286-0317 jliebster@scc.ca.gov

Liebster

Jack

http://www.scc.ca.gov/Ballona/index.html

Partnering Agency: CA Dept. of Fish and Game; CA S

Project Description

The project is currently in the feasibility stage, with a broad range of potential restoration scenarios being evaluated for their hydrologic, water quality, habitat, recreational, flood control and economic benefits and costs. These alternatives range from increasing water flow to existing and potential wetland areas with little grading to significant excavation of filled areas and modification of levees to dramatically increase the wetted area with both full tidal and muted tidal water regimes and reconnect Ballona Creek to its historic floodplain. Increases to the tidal prism could provide increased flushing of Ballona Creek and areas of Marina del Rey. Plans include construction of treatment wetlands at locations where tributary drainages enter the project area.

Project Integral SMBay Restor.Plan;BCERS	<u>ation</u>	Restore the water quality, hydrowetlands ecosystem to suppor related recreational uses, main function in the larger watershed such as the waters of Ballona Canals. Increased surface wate enhance estuarine dependent species. New public access wil related recreational uses, poter	t habitat, provide public ope tain and enhance flood conf I context, incorporating adja Creek, Marina Del Rey, Balli r circulation improve water of plants and animals, includin I provide public open space	of the Lower Ballona Crein space, increase opporturol capabilities, improve ecent and ecologically relaiona Lagoon, and the Veniquality. Habitat improveming rare, endangered and the and increase opportunities	unities for water ecosystem ted resources ce ents will preatened es for water
Cooperating Agencies Coastal Conservancy A Department of Fish and Gam A Department of Fish and Gam CA State Lands Commission Monica Bay Restoration Comm	Location Description 600 acres of historic wetlands in the former floodplain on both sides of Lower Ballona Creek between Lincoln Blvd and the Playa Del Rey/Marina Del Rey areas.		Project Cost Estimate Lower Estimated Total Capital Cost (\$): Upper Estimated Total Capital Cost (\$): Of total cost, estimated cost for land purchase/easement (\$): Annual OM Cost (\$):		150000000 240000000 140000000 250000
Associated Watersheds BCW MDRHW NA Is part of larger program? TRUE	his Project is located in Ballona Creek Ecosyst	Project Source(s) In West Basin MWD's 2006 W In West Basin MWD's 2006 W Item Restoration Feasibility St Itershed Ecosystem Restoratio	ater Conservation Maste udy - SMBRP/US ACOE	Sub-regi SO_BAY NA NA	100 on(s)

	Readiness to	Proceed		
NA		ltem_	<u>Status</u>	<u>Date</u>
		Conceptual Plans	IN_PROC	7/1/2007 0:00
		Land Acquisition	COMP	12/30/2003 0:00
		Preliminary Plans	IN_PROC	12/30/2007 0:00
J.		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:
Proposed Start Date:	8/1/2009	Permits	NOT_INIT	1/1/1753 12:00:
Proposed Completion Date:	10/30/2009	Construction Drawings	NOT_INIT	1/1/1753 12:00:
Ready For Construction Bid:	1-3 Years	Funding	IN_PROC	12/31/2008 0:00

Water Quality Objectives		Water Quality Benefits
mprove Storm Water Quality:	PRI	Treatment Technology: Treatment wetlands; expand tidal pris
mprove Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 580
Receiving Water Body Qual. Improvement:	PRI	Targeted Contaminants
mproved Flood Management:	PRI	Metal: TRUE Pathogens: FALSE Nutrients: TRUE
Ground Water Protection or Improvement:	SEC	Trash: TRUE Pollutants: TRUE Other: TRUE
Other:		Description: urban runoff; marine harbor pollutants

Water Supply Objectives Reduced Reliance Imported Water: NA **Increased Water Supply Reliability:** NA **Increased Operational Flexibility:** NA **Increased WaterConservation:** NA **Increased Water Recycling:** SEC **Increased Groundwater Management:** NA **Reduced Sea Water Intrusion:** NA **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): 0

Estimated Annual Outflow (AFY):

Beneficial Use Objectives	
Create/Enhance Wetlands:	PRI
Restore/Protect Habitat:	PRI
Create Public Access/Rec/Open Space:	PRI
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information

Max Storm Runoff Storage:900Max Conveyance Capacity:0Flood Protection Level:100Acres Benefitting:160

Other: 0

Estimated Annual Flood Reduction Value: 1000000 Acreage Required for Implementation: 600

-			
Water Supply/De	mand Re	duction Benefits	<u> </u>
Surface Water Storage:	FALSE	Groundwater:	FALSE
GroundwaterTreatment:	FALSE	Recycled Water:	FALSE
Reclaimed Groundwater:	FALSE	Conservation:	FALSE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other: NA			
Type of supply/demand red	duction:	NA	
Description: NA			
Josephon I			
Annual Yield of Supply (AF	Y) : 0		
Availability by water-year ty	ype (AFY)		
Average Year: 0			
Dry Year: 0			
Wet Year: 0			
Other: 0			
Description: NA			
Availability by season:			
Summer: FALSE	Spring	FALSE	
Fall: FALSE	Winter	FALSE	
Has potential to displace do Bay/Delta/Estuary system:	emands on	NS	

Beneficial Use Benefit Non-Treatment Wetland Acres: 200 Treatment Wetland Acres: 300 Riparian Habitat Acres: 60 Open Space Acres: 20 Multiple Use/Recreation Area Single Sport Athletics Acres: 4 Multiple Sport Athletics Acres: 0 Other Recreation Acres 1 Pedestrian Trail Acres 5 Equestrian Trail Acres 0 Other Acres 5 Description: Wildlife viewing; fishing, boating					
Non-Treatment Wetland Acres:	200				
Treatment Wetland Acres:	300				
Riparian Habitat Acres:	60				
Open Space Acres:	20				
Multiple Use/Recreation Area					
Single Sport Athletics Acres:	4				
Multiple Sport Athletics Acres:	0				
Other Recreation Acres	1				
Pedestrian Trail Acres	5				
Equestrian Trail Acres	0				
Other Acres	5				
Description: Wildlife viewing;fis	shing, boating				
Total Project Acres:	600				

Other Benefits

Increase estuarine, bird and fish habitat in Ballona Creek/Ballona Wetlands system; provide greater tidal prism to improve surface water circulation, tidal exchange and flushing, producing water quality benefits in Lower Ballona Creek, Marina del Rey and Santa Monica Bay waters; reconnect Ballona Creek to historic floodplain and provide enhanced flood management benefits; support recovery of rare, endangered and special status species at last coastal wetland restoration site available in LA County; provide readily accessible open space and new recreational benefits in a

Dominant existing land use type:

OTHR

Dredge spoil fill area; degraded wetland in urban area

Upstream/downstream land use type:

OTHR

Commercial, res., industrial urban areas and transportati

Addresses Environmental Justice issues:

Within Disadvantaged Community:

Disadvantaged Community Participation:

Organization:

Tongva (Gabrieleno) Tribe; Baldwin Hills com

Project # 103 Manhattan Well Field Rehabilitation

LADWP Los Angeles Department of Water and Power 111 North Hope Street, Room 1450 Los

Mario Acevedo 213-367-0932 mario.acevedo@ladwp.com

Partnering Agency: Water Replenishment District

Project Description

The project consists of the construction of six new production wells at LADWP's Manhattan Well Field in the Central Basin to increase our total

groundwater extraction capacity from conjuctive use program with the Wexisting forebay and pump station special groundwater treatment is ewater Replenishment District; how needed in a manner that will not capacity from the project consists of the constitution of the conjugate o	om 24 to 34 cfs. This water Replenishment Deare being evaluated to expected at this time. The ever, it is expected the	will improve our opera District in the range of o determine their life of The nature of the conjust The tabus will be abl	ational rel 15,000 - expectant junctive u e to store	ability an 30,000 a by. Groun se progra	id flexi cre-fee idwate am will	bility and al et. Currently r quality ha need to be	llow LADWP	to enter into ual integrity on n issue and re n conjuction was	a f the no with the
<u>Project Integra</u>	ation	The Central Groundw storage space repres the utility of this valua the Central Basin. LA the Central Basin and Replenishment Distric By storing water in the local groundwater research.	ents a signable water a DWP is cuid would like to store e basin for sources for	currently nificant opposition opp	has 30 cortunit LADWI nning t nto a c 5,000 a emerg it of the	y to develop has an ann o increase its onjunctive us and 30,000 a ency or drouge City of Los	conjunctive us ual water right s groundwater se storage progere-feet of wate ght, LADWP with Angeles and the	te programs to of 15,000 acre extraction capa gram with the Ver for future extill be better util the Southern Capa	maximize 1-feet in acity in Vater traction. izing its
Cooperating Agencies		n Description				<u>Projec</u>	t Cost Est	timate	
Water Replenishment District		else owned site locate		Lower E	Estima	ted Total (Capital Cost	(\$) : 1	1000000
		e intersection of Gage Western Ave.	e Ave.	Upper E	Stima	ted Total C	Capital Cost	(\$): 1	5000000
	u					estimated ement (\$):	cost for land	d 0	
				Annual	ом с	ost (\$):		4:	50000
Associated Watersheds				Design	Life o	f Project (y	/ears):	3	0
СВ		Project Sour	ce(s)					o-region(s)
NA NA	draulic Analysis to Inc	<u> </u>		ater Supr	olv. 20	06 LADVSC	·		_
s part of larger program? FALSE	draulic Analysis to Ind				лу, <i>2</i> 0	NA			
		Readiness to F	rocee	<u>1</u>					
			Lan Pre	ceptual d Acquis iminary	ition Plans		Status IN_PROC COMP IN_PROC NOT_INIT	<u>Date</u> 7/1/2007 3/1/2007 7/1/2007 1/1/1753	0:00 0:00 0:00
Proposed Start	Date: 10/1	/2008	Peri				NOT_INIT	1/1/1753	
Proposed Comp		/2009		struction	n Drav	vinas	IN_PROC	3/1/2008	
Ready For Cons		Years		ding			IN_PROC	7/1/2007	
Water Quality	Objectives				Wa	ter Quali	ty Benefit	t <u>s</u>	
mprove Storm Water Quality:	N	A	Treatme	nt Tech	nolog	y:			
mprove Wastewater Effluent Wo	Q: N	A	Treatme	nt Capa	city (N	IGD):	0		
Receiving Water Body Qual. Imp	rovement: N	A	Targete	d Contar	<u>minan</u>	<u>ts</u>			
mproved Flood Management:	N	A	Meta	I: FALS	E I	Pathogens	: FALSE	Nutrients:	FALSE
Ground Water Protection or Imp	rovement: N	A		h: FALS	E I	Pollutants:	FALSE	Other:	FALSE
Other:			Descrip	tion:					

Water Quality Objectives		Water Quality Benefits
Improve Storm Water Quality:	NA	Treatment Technology:
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 0
Receiving Water Body Qual. Improvement:	NA	Targeted Contaminants
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: FALSE
Other:		Description:

Water Supply Objectives	
Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	SEC
Increased Operational Flexibility:	PRI
Increased WaterConservation:	NA
Increased Water Recycling:	NA
Increased Groundwater Management:	SEC
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	NA
Other:	

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Suj	pply/De	mand Re	duction Benefit	<u>s</u>
Surface Water Sto	orage:	FALSE	Groundwater:	TRUE
GroundwaterTrea	tment:	FALSE	Recycled Water	: FALSE
Reclaimed Groun	dwater:	FALSE	Conservation:	FALSE
Ocean Desalination	on:	FALSE	Transfer:	FALSE
Other:				
Type of supply/de	emand rec	luction:	POT	
Description:				
Annual Yield of S	upply (AF	Y) : 3000		
Availability by wa	ter-year ty	/pe (AFY)		
Average Year: 50	000			
Dry Year: 10	0000			
Wet Year: 0				
Other: 30	000			
	tored wate eeded	er will be ava	ialble for extraction a	as
Availability by sea	ison:			
Summer: TRUE		Spring	TRUE	
Fall: TRUE		Winter	TRUE	
Has potential to d Bay/Delta/Estuary	•	emands on	Υ	

Beneficial Us	<u>se Benefit</u>	
Non-Treatment Wetland Acres:	0	
Treatment Wetland Acres:	0	
Riparian Habitat Acres:	0	
Open Space Acres:	0	
Multiple Use/Recreation Area		
Single Sport Athletics Acres:	0	
Multiple Sport Athletics Acres:	0	
Other Recreation Acres	0	
Pedestrian Trail Acres	0	
Equestrian Trail Acres	0	
Other Acres	0	
Description:		
Total Project Acres:	0	

Other Benefits

Increasing our groundwater production capacity from 24 to 34 cfs will enhance our operational reliability and flexibility; and most importantly, allow LADWP to enter into a conjunctive use program with the Water Replenishment District to store between 15,000 and 30,000 acre-feet in the Central Basin for future extraction. The Central Basin has 300,000+ acre-feet of available storage space Improved management of our local water resources is necessary to meet future water demands and to reduce the regions reliance on imported supplies. By storing up to 30,000 acre-feet, LADWP will

Dominant existing land use type:	IND
Upstream/downstream land use type:	IND
•	

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	Υ	
Disadvantaged Community Participation:	N	
Organization:		

Project # 111 Exposition Green Corridor

Light Rail for Cheviot 10576 Troon Avenue Los Angeles, CA 90064-4436

http://www.lightrailforcheviot.org/green.htm

Jonathan Weiss 310-558-0484 jw@lojw.com

Partnering Agency: MTA; City of LA; LA Rec & Parks;

Project Description

and Military Avenue in Upper Ballona Creek Watershed, including subwatershed WMG_1_347474. Associated Watersheds WMG_1_347474. WMG_1_347474. Upper Estimated Total Capital Cost (\$): 10000000 Of total cost, estimated cost for land purchase/easement (\$):			110,000,000	01101	<u>.</u>					
Project Integration This project will help achieve TMDLs for Ballona Creek. R will also create a mile-long parkway featuring native trees and shrhubs, walk and blic paths, and holpinging a natural amenity to an urbanized area. The Exposition Right of Way (ROW) is a choke point in the Ballona Creek. Watershed. Four drains crossing the ROW carry run-off towns to choke point in the Ballona Creek. Watershed. Four drains crossing the ROW carry run-off towns covering the Row of the ROW) company a presental creek and the ROW covers a presental creek. Short carry con Creek. Optimally, this unusually wide 20 acre segment of the ROW could be used for a water quality project. Abulati, transportation (under study by MTA), recreation (tible, welling 8 and Military Avenue short materia; of the west end of the ROW) company a presental creek. Watershed. Including subwatershed Watershed. WMG_1_34744. Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed. MMG_1_34744. Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed. MMG_1_34744. Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed TMDL Septimate Total Capital Cost (8): 100000 Of total cost, estimated cost for land purchase/easement (8): Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed TMDL Septimate Total Capital Cost (8): 100000 Of total cost, estimated cost for land purchase/easement (8): Exposition Right of Way between 10 freeway and Military Avenue in Upper Estimated Total Capital Cost (8): 100000 Of total cost, estimated cost for land purchase/easement (8): Exposition Right of Way between 10 freeway and Military Avenue in Upper Estimate Total Cost (8): 100000 Of total cost, estimated cost for land purchase/easement (8): Exposition Project Source(5): 1000000 Of total cost, estimated total Capital Cost (8): 100000 Of total cost, estimated cost for land purchase/easement (8): 1000000 Of total	wetlands, and micro-pools for clea									
This project will help achieve TMDLs for Ballona Creek. It will also create a mile-long parkway featuring native trees and shrubs, welf and bike peahs, and bike peaks, and bi										
This project will help achieve TMDLs for Ballona Creek. It will also create a mile-long parkway featuring native trees and shrubs, wait and bike paths, and bi										
This project will help achieve TMDLs for Ballona Creek. It will also create a mile-long parkway featuring native trees and shrubs, walk and bike paths, and bi			1							
featuring native trees and shrubs, walk and bit paths, and bringing a natural amenity to a unbanized area. The Exposition Right of Way (RWD) it of Way (RWD)	Project Integra	<u>ation</u>	This project will help:	achieve TI				ll also create a	mile-long parky	wav
Exposition Right of Way between 10 freeway and Military Avenue in Upper Ballona Creek Watershed, including subwatershed WMG_1_347474. Associated Watershed WMG_1_347474. WMG_1_347474. Lower Estimated Total Capital Cost (\$): 100000 of total cost, estimated Total Capital Cost (\$): 100000 of total cost, estimated cost for land purchase/easement (\$): Annual OM Cost (\$): -1			featuring native trees urbanized area. The I Watershed. Four drai Park, Cheviot Hills, h Creek. (Fox has the I Military Avenue storm Canyon Creek. Optim	s and shrub Exposition ins crossin alf of Cent heaviest pon drain (at nally, this u	s, walk Right of g the Roury City ollutant I the west nusually	and bik f Way (f OW card , and all load per t end of y wide 2	e paths, and be ROW) is a choory run-off from I of Twentieth the 2006 LA the ROW) co 20 acre segme	oringing a natur bke point in the Bel-Air, Westw Century Fox un County BMP M nveys a perennent of the ROW	al amenity to a Ballona Creek rood Village, R filtered into Ba ethodology Stu ial creek ‑ S would be used	ancho allona udy.) The stone
and Military Ävenue in Upper Ballona Creek Watershed, including subwatershed WMG_1_347474. Associated Watersheds Project Source(s) Dipper Estimated Total Capital Cost (\$): 1000000 Of total cost, estimated cost for land purchase/easement (\$):	Cooperating Agencies	Locatio	n Description				Projec	ct Cost Es	timate	
Watershed, including subwatershed WMG_1_347474. Wight of total cost, estimated cost for land purchase/easement (\$): Annual OM Cost (\$) Annual					Lowe	r Estin	nated Total	Capital Cost	(\$) : 1	000000
purchase/easement (\$): Annual OM Cost (\$):		Watershed, in	cluding subwatershed					-		0000000
Annual OM Cost (\$): -1		WMC	G_1_347474.				,		d	1
Project Source(s) NA NA Ballona Watershed TMDL Readiness to Proceed Item					Annu	al OM	Cost (\$):		-1	1
NA Ballona Watershed TMDL SO_BAY NA					Desig	n Life	of Project	(years):	-1	1
Readiness to Proceed Readiness to Proceed Readine			Project Sour	ce(s)				<u>Sul</u>	o-region(s	<u>;)</u>
Readiness to Proceed Readiness to Proceed Readiness to Proceed Readiness to Pro			Ballona Watershe	d TMDL			s	O_BAY		
Readiness to Proceed			Ballona Watershe	d TMDL						
Item Status Date							N	Α		
Conceptual Plans NOT_INIT 1/1/1753 12:00 Land Acquisition NOT_INIT 1/1/1753 12:00 Preliminary Plans NOT_INIT 1/1/1753 12:00 Proposed Start Date: 11/9/2009 Permits NOT_INIT 1/1/1753 12:00 Proposed Completion Date: 7/1/2013 Construction Drawings NOT_INIT 1/1/1753 12:00 Proposed Completion Bid: N/A Funding NOT_INIT 1/1/1753 12:00 Water Quality Objectives Improve Storm Water Quality: PRI Treatment Technology: Bioswales, detention/retention basin Treatment Capacity (MGD): 0 Treatment Capacity (MGD): 0 Targeted Contaminants Improved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRUE Treatment TRUE Pollutants: TRUE Other: FALSE Other: FALSE Nutrients: TRUE Pollutants: TRUE Other: FALSE Nutrients: TRUE Other: FALSE Nutri			Readiness to F	Proceed	<u>k</u>		•			
Land Acquisition NOT_INIT 1/1/1753 12:00 Preliminary Plans NOT_INIT 1/1/1753 12:00 Preposed Start Date: 11/9/2009 Permits NOT_INIT 1/1/1753 12:00 Proposed Completion Date: 7/1/2013 Construction Drawings NOT_INIT 1/1/1753 12:00 Ready For Construction Bid: N/A Funding NOT_INIT 1/1/1753 12:00 Water Quality Objectives Improve Storm Water Quality: PRI Treatment Technology: Bioswales, detention/retention basin Treatment Capacity (MGD): 0 Weceiving Water Body Qual. Improvement: PRI Treatment TRUE Pathogens: FALSE Nutrients: TRUE Treatment TRUE Pollutants: TRUE Other: FALSE OTHER O				Item	1			Status	Date	<u> </u>
Preliminary Plans NOT_INIT 1/1/1753 12:00 CEQA/NEPA NOT_INIT 1/1/1753 12:00 Proposed Start Date: 11/9/2009 Permits NOT_INIT 1/1/1753 12:00 Proposed Completion Date: 7/1/2013 Construction Drawings NOT_INIT 1/1/1753 12:00 Ready For Construction Bid: N/A Funding NOT_INIT 1/1/1753 12:00 Water Quality Objectives Inprove Storm Water Quality: PRI Treatment Technology: Bioswales, detention/retention basin prove Wastewater Effluent WQ: NA Treatment Capacity (MGD): 0 Targeted Contaminants Inproved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRUE round Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALSE Natrients: TRUE Other: FALSE Natrients								_		
Proposed Start Date: 11/9/2009 Permits NOT_INIT 1/1/1753 12:00 Proposed Completion Date: 7/1/2013 Construction Drawings NOT_INIT 1/1/1753 12:00 Ready For Construction Bid: N/A Funding NOT_INIT 1/1/1753 12:00 Water Quality Objectives Inprove Storm Water Quality: PRI Treatment Technology: Bioswales, detention/retention basin prove Wastewater Effluent WQ: NA Treatment Capacity (MGD): 0 Permits NOT_INIT 1/1/1753 12:00 Construction Drawings NOT_INIT 1/1/1753 12:00 Funding NOT_INIT 1/1/1753 12:00 Water Quality Benefits Treatment Technology: Bioswales, detention/retention basin Treatment Capacity (MGD): 0 Treatment Capacity (MGD): 0 Targeted Contaminants Proposed Start Date: 1/1/1753 12:00 Permits NOT_INIT 1/1/175					_			_		
Proposed Start Date: 11/9/2009 Permits NOT_INIT 1/1/1753 12:00 Proposed Completion Date: 7/1/2013 Construction Drawings NOT_INIT 1/1/1753 12:00 Ready For Construction Bid: N/A Funding NOT_INIT 1/1/1753 12:00 Water Quality Objectives Improve Storm Water Quality: PRI Treatment Technology: Bioswales, detention/retention basin Deceiving Water Body Qual. Improvement: PRI Treatment Capacity (MGD): 0 Targeted Contaminants Improved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRUE round Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALSE Natrients: TRU						•	IS			
Proposed Completion Date: 7/1/2013 Ready For Construction Bid: N/A Water Quality Objectives Inprove Storm Water Quality: PRI Inprove Wastewater Effluent WQ: PRI PRI PRI Treatment Technology: Bioswales, detention/retention basin Treatment Capacity (MGD): Treatment Capacity (MGD): Treatment Capacity (MGD): PRI Targeted Contaminants PRI Proposed Completion Date: 7/1/2013 NOT_INIT 1/1/1753 12:00 Mater Quality Benefits Treatment Technology: Bioswales, detention/retention basin Treatment Capacity (MGD): PRI Targeted Contaminants Proposed Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRUE Other: FALSE Other: FALSE Other: FALSE Other: FALSE Other: FALSE Other: FALSE	Drawand Start	Data: 11/0	1/2000			A				
Ready For Construction Bid: N/A Funding NOT_INIT 1/1/1753 12:0 Water Quality Objectives Mater Quality Benefits Treatment Technology: Bioswales, detention/retention basing Discovery Protection of Machine Technology: Discovery Discovery Protection of Machine Technology: Discovery Disc	•					ion Dr	awinge			
Water Quality Objectives Inprove Storm Water Quality: Inprove Wastewater Effluent WQ: Inprove Wastewater Body Qual. Improvement: Inproved Flood Management:	•					וטוו טוו	awings			
nprove Storm Water Quality: nprove Wastewater Effluent WQ: nprove Wastewater Body Qual. Improvement: nproved Flood Management: NA Treatment Technology: Bioswales, detention/retention basing Treatment Capacity (MGD): 0 Targeted Contaminants Metal: TRUE Pathogens: FALSE Nutrients: TRUE Trash: TRUE Pollutants: TRUE Other: FALSE	reday for cons	Straction Bla. 1971			unig			1101_1111	17 17 17 00	7 12.00.
nprove Wastewater Effluent WQ: NA Treatment Capacity (MGD): 0 eceiving Water Body Qual. Improvement: PRI nproved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRU round Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALSE										
eceiving Water Body Qual. Improvement: PRI Targeted Contaminants nproved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRU round Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALSE									tion/retention	basins,
nproved Flood Management: NA Metal: TRUE Pathogens: FALSE Nutrients: TRU iround Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALSE	•						-	Ü		
round Water Protection or Improvement: NA Trash: TRUE Pollutants: TRUE Other: FALS				_				o. EALCE	Museions	TDITE
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pescription.	•	NOVEINEIL.	П		- N	JL	ronutants	. INUL	Julei.	1 ALGE
i II	,			Descrip						

Water Supply Objectives			
Reduced Reliance Imported Water:	SEC		
Increased Water Supply Reliability:	NA		
Increased Operational Flexibility:	NA		
Increased WaterConservation:	SEC		
Increased Water Recycling:	SEC		
Increased Groundwater Management: PRI			
Reduced Sea Water Intrusion: NA			
Protect/Improve Drinking Water Standards:	NA		
Other:			

Acres of land that drain into basin: 10000

Detention Basin Area (acres): 2

Max Operational Depth (ft): 3
% Wetlands 100

SoilType NA

Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives				
Create/Enhance Wetlands:	NA			
Restore/Protect Habitat:	SEC			
Create Public Access/Rec/Open Space: PRI				
Increased In-Stream Flow: NA				
Other:	NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits			
Surface Water Storage:	FALSE	Groundwater:	TRUE
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE
Reclaimed Groundwater:	FALSE	Conservation:	TRUE
Ocean Desalination:	FALSE	Transfer:	FALSE
Other:			
Type of supply/demand re	eduction:	OTHR	
Description: Stone Can	yon Creek		
Annual Yield of Supply (A	(FY) : 0		
Availability by water-year	type (AFY)		
Average Year: 0			
Dry Year: 0			
Wet Year: 0			
Other: 0			
Description:			
Availability by season:			
Summer: TRUE	Spring	TRUE	
Fall: TRUE	Winter	TRUE	
Has potential to displace demands on Bay/Delta/Estuary system:			

Beneficial Use Benefit			
Non-Treatment Wetland Acres:	0		
Treatment Wetland Acres:	2		
Riparian Habitat Acres:	4		
Open Space Acres:	3		
Multiple Use/Recreation Area			
Single Sport Athletics Acres:	0		
Multiple Sport Athletics Acres:	0		
Other Recreation Acres	2		
Pedestrian Trail Acres	2		
Equestrian Trail Acres	0		
Other Acres	1		
Description: Light Rail			
Total Project Acres:	20		

Other Benefits

Water quality improvement to achieve TMDLs for Ballona Creek as it feeds Santa Monica Bay. Water recharge and conservation. Maintaining open space while implementing habitat restoration and prividing recreational, educational and transportation facilities.

Dominant existing land use type:	PUB	
Upstream/downstream land use type:	RES	

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		

Project # 113 Dominguez Channel Greenway

Los Angeles County Flood Control District

Vik Bapna 626-458-4363 vbapna@ladpw.org

NA Partnering Agency:

Project Description

Development of a native landscaped greenway and bikeway/pedestrian trail along the Dominguez Channel. The project will include the following

Development of a native landscaped greenway and bikeway/pedestrian trail along the Dominguez Channel. The project will include the following access/maintenance road improvements for the new/improved bikeway; AC repair and replacement, slurry seal, American Disability Act (ADA) access ramps and bikeway/pedestrian signage and striping. Lanscaping improvements include landscaping using native and drought-tolerant plants, irrigation, as-needed fencing repair/replacment. Elucational/interpretive signage will also be included along the bikeway/pedestrian trail. A study is also recommended to consider additional pedestrian corsswalks with street lamp lighting for added safety.								
Project Integration The project will revitalize the Flood Control District rights of way along the Dominguez Channel in the Citites of Gardena, Hawthorne, and the unincorporated El Camino Village Area. The project is consistent with the Dominguez Watershed Managment Master Plan (DWMMP) goal of developing a continous greenway, providing recreational elements, and restoring the natural environment along the Channel.				oject is eloping a				
Cooperating Agencies		n Description			oject Cos			
NA	Doming	uez watershed		Lower Estimated	-	•	•	500000
NA NA				Upper Estimated Of total cost, esti	-	•	•	000000
NA NA				purchase/easeme		or iand	0	
NA NA				Annual OM Cost	\$):	• •		30000
Associated Watersheds				Design Life of Pro	oiect (vears)	<u>.</u>	25	5
DCW		Project Sour	ce(s)	2001gii 2110 01 1 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		region(s)	
NA	Dominguez Watershed Management Mas		laster Plan	SO BAY		cgion(s)	4	
NA	Dominguez Watershed Manage		,		NA			
Is part of larger program?	Dominga	NA	, , , , , , , , , , , , , , , , , , ,	lactor r larr	NA			
FALSE		NA						
Readiness to Proceed								
NA			Iten	1	Stat	IIS	Date	
				<u>:</u> ceptual Plans	CON		1/1/2001	0:00
				d Acquisition	NA		1/1/1753	12:00:
II.				iminary Plans	IN_F	PROC	1/1/2001	0:00
			CEC	QA/NEPA	NA		1/1/1753	12:00:
Proposed Start	Date: 1/1/2	2009	Per	mits	NA		1/1/1753	12:00:
Proposed Comp	oletion Date: 1/1/2	010	Cor	struction Drawing	s NOT	_INIT	1/1/1753	
Ready For Cons	struction Bid: 1-3	/ears	Fun	ding	NOT	_INIT	1/1/1753	12:00:
Water Quality	Objectives			Water	Quality Be	enefits		
Improve Storm Water Quality:	N/	A	Treatme	ent Technology:	NA			
Improve Wastewater Effluent WC	Q: NA	A	Treatme	ent Capacity (MGD)	:	0		
Receiving Water Body Qual. Imp	rovement: N			d Contaminants				
Improved Flood Management:	N	A	Meta	al: FALSE Path	ogens: FAI	LSE N	lutrients:	FALSE
Ground Water Protection or Imp	rovement: N				ıtants: FAI	LSE C	Other:	FALSE
Other:			Descrip	tion: NA				

Water Supply Objectives			
Reduced Reliance Imported Water:	NA		
Increased Water Supply Reliability:	NA		
Increased Operational Flexibility:	NA		
Increased WaterConservation:	NA		
Increased Water Recycling:	NA		
Increased Groundwater Management:	NA		
Reduced Sea Water Intrusion:	NA		
Protect/Improve Drinking Water Standards:	NA		
Other:			
Detention and Groundwater Recharge Benefit			

-1 Acres of land that drain into basin: **Detention Basin Area (acres):** -1 -1 Max Operational Depth (ft): % Wetlands SoilType NA Method and Recharge (AFY): Estimated Annual Inflow (AFY): -1 Estimated Annual Outflow (AFY):

Beneficial Use Objectives				
Create/Enhance Wetlands:	NA			
Restore/Protect Habitat:	PRI			
Create Public Access/Rec/Open Space: PRI				
Increased In-Stream Flow:	NA			
Other:	NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 **Max Conveyance Capacity:** NA Flood Protection Level: Acres Benefitting: Other: 0 **Estimated Annual Flood Reduction Value:** -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water Storage:	FALSE	Groundwater:	FALSE	
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE	
Reclaimed Groundwater:	FALSE	Conservation:	FALSE	
Ocean Desalination:	FALSE	Transfer:	FALSE	
Other: NA				
Type of supply/demand red	duction:	NA		
Description: NA				
Annual Yield of Supply (AF	Y): 0			
Availability by water-year t	ype (AFY)			
Average Year: 0				
Dry Year: 0				
Wet Year: 0				
Other: 0				
Description: NA				
Availability by season:				
Summer: FALSE	Spring	FALSE		
Fall: FALSE	Winter	FALSE		
Has potential to displace demands on Bay/Delta/Estuary system:				

Beneficial Use Benefit			
Non-Treatment Wetland Acres:	0		
Treatment Wetland Acres:	0		
Riparian Habitat Acres:	4		
Open Space Acres:	0		
Multiple Use/Recreation Area			
Single Sport Athletics Acres:	2		
Multiple Sport Athletics Acres:	0		
Other Recreation Acres	0		
Pedestrian Trail Acres	1		
Equestrian Trail Acres	0		
Other Acres	1		
Description: Recreation			
Total Project Acres:	8		

Other Benefits

Removal of exotic, invasive species and native landscpaing improvements will provide aesthetic and passive recreational benefits to the bikeway/pedestrian trail users, help prevent soil erosion and the doeposition of dirt/debris alont the trail and into the channel, and also support a diversity of plants and birds. Landscape improvements will also increase the viability, diversity, health and function of ecological systems o fthe watershed while improving visual resources and enhancing the recreational pedestrian/bicycle trail in the community. Enhancing the open space and

Dominant existing land use type:	NA
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues: NS Within Disadvantaged Community: NS **Disadvantaged Community Participation:** NS Organization: NA

Project # 116 West Coast Basin Seawater Barrier Telemetry System

Los Angeles County Flood Control District

Eric Batman 626-458-6137 ebatman@ladpw.org

NΑ

4				Pa	artnerir	ng Agency:			
Project Description This project involves the installation of equipment to remotely monitor injection wells to improve the overall effectiveness and efficiency in the operation of the West Coast Basin Seawater Barrier.									
Project Integra This project compliments other gro conjunctive use projects, and can l other similar projects utilizing a tele	oundwater and be integrated with	NA		<u> </u>	<u>Proje</u>	ct Need			
Cooperating Agencies	Location	n Description				Projec	t Cost Est	imate	
NA	The West Coast Ba	asin Seawater Barrie	· ILC	ower	Estim		Capital Cost		000000
NA	and runs through th	allona Creek Watersl he cities of El Segun	ned, do,				Capital Cost		0000000
NA	Manhattan Beach	, Redondo Beach, ar	nd Of			t, estimated sement (\$)	l cost for land	d ₋₁	
NA NA	10	orrance.	'			(.,	:	1	
NA Associated Watersheds						Cost (\$):		-1	
Associated watersneds NA				esig	n Lite	of Project (-1	
13/1	Project Source(s) Sub-region(s))				
NA		<u> </u>						z-region(3	L
NA NA	er Replenishment Distri	ict of Southern Califo	ornia's G			_	O_BAY	7-region(s	L
NA	er Replenishment Distri er Replenishment Distri	ict of Southern Califo	ornia's G			ter ManagN	O_BAY A	<u> rregion(s</u>	2
NA		ict of Southern Califo	ornia's G			_	O_BAY A	Fregion(s	2
NA Is part of larger program?		ict of Southern Califo ict of Southern Califo NA NA	ornia's G ornia's G			ter ManagN	O_BAY A	- Tegion(s	
NA Is part of larger program? FALSE		ict of Southern Califo ict of Southern Califo NA	ornia's G ornia's G			ter ManagN	O_BAY A	- Tegionia	
NA Is part of larger program?		ict of Southern Califo ict of Southern Califo NA NA	ornia's G ornia's G Proceed Item	Grour	nd Wat	ter Manag N N	O_BAY A A Status	<u>Date</u>	
NA Is part of larger program? FALSE		ict of Southern Califo ict of Southern Califo NA NA	Proceed Item Conce	Grour	nd Wat	ter Manag N. N	O_BAY A A Status COMP	<u>Date</u> 1/1/2001	0:00
NA Is part of larger program? FALSE		ict of Southern Califo ict of Southern Califo NA NA	Proceed Item Concept Land A	eptua Acqui	nd Wat	ter Manag N N S	O_BAY A A Status COMP NOT_INIT	Date 1/1/2001 1/1/2001	0:00
NA Is part of larger program? FALSE		ict of Southern Califo ict of Southern Califo NA NA	Proceed Item Concept Land A Prelimina	eptua Acqui	I Plansisition	ter Manag N N S	O_BAY A A Status COMP NOT_INIT COMP	<u>Date</u> 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00
NA Is part of larger program? FALSE NA	er Replenishment Distri	ict of Southern Califo ict of Southern Califo NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/	eptual Acqui	I Plansisition	ter Manag N N S	O_BAY A A Status COMP NOT_INIT COMP COMP	<u>Date</u> 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00
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NA Is part of larger program? FALSE NA Proposed Start Proposed Comp	Pate: 1/1/20	ict of Southern Califorict of Southern Californal NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/I Permits Constr	eptual Acqui inary /NEP	I Plansisition	s s	Status COMP NOT_INIT COMP NOT_INIT COMP	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start	Pate: 1/1/20	ict of Southern Califorict of Southern Californal NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/	eptual Acqui inary /NEP	I Plansisition	s s	O_BAY A A Status COMP NOT_INIT COMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A	ict of Southern Califorict of Southern Californal NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/I Permits Constr	eptual Acqui inary /NEP	I Plansisition y Plans	ter Manag N N s s awings	Status COMP NOT_INIT COMP NOT_INIT COMP	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp Ready For Cons Water Quality Improve Storm Water Quality:	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A	ict of Southern Califorict of Southern Californal NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/ Permits Constr Fundin Treatment	pptua Acqui inary /NEP ts ructiong	Il Plansisition y Plans A on Dra	s awings ater Qual	Status COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp Ready For Cons Water Quality Improve Storm Water Quality: Improve Wastewater Effluent Wo	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A Objectives NA Q: NA	ict of Southern Califorict of Southern Califorict of Southern Californa NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/ Permits Constr Fundin Treatment Treatment	pptua Acqui inary /NEP is ructiong	Il Plansisition y Plans 'A on Dra Wa hnologacity (s awings ater Qual gy: NA	O_BAY A A Status COMP NOT_INIT COMP COMP NOT_INIT COMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp Ready For Cons Water Quality Improve Storm Water Quality: Improve Wastewater Effluent WC Receiving Water Body Qual. Imp	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A Objectives NA Q: NA provement: NA	ict of Southern Califorict of Southern Californal NA NA NA Readiness to P	Proceed Item Concept Land A Prelimi CEQA/I Permits Constr Fundin Treatment Treatment Targeted C	ptua Acqui inary NEP is ructiong	I Plansisition y Plans 'A on Dra Wa hnolog acity (s awings ater Qual gy: NA MGD):	O_BAY A A Status COMP NOT_INIT COMP COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp Ready For Cons Water Quality Improve Storm Water Quality: Improve Wastewater Effluent WC Receiving Water Body Qual. Imp Improved Flood Management:	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A / Objectives NA Q: NA NA NA	ict of Southern Califorict of Southern Californal NA NA NA Readiness to P	Proceed Item Concel Land A Prelimi CEQA/ Permits Constr Fundin Treatment Treatment Targeted C Metal:	ptua Acqui inary /NEP is ruction Capa Conta	Il Plansisition y Plans A on Dra Wa hnolog acity (amina	s s s s s s s s s s s s s s s s s s s	O_BAY A A Status COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT OMP OT_INIT OMP NOT_INIT OMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00 0:00
NA Is part of larger program? FALSE NA Proposed Start Proposed Comp Ready For Cons Water Quality Improve Storm Water Quality: Improve Wastewater Effluent WC Receiving Water Body Qual. Imp	Date: 1/1/20 pletion Date: 1/1/20 struction Bid: N/A / Objectives NA Q: NA NA NA	ict of Southern Califorict of Southern Californal NA NA NA Readiness to P	Proceed Item Concept Land A Prelimi CEQA/I Permits Constr Fundin Treatment Treatment Targeted C	ptua Acqui inary /NEP ts ructiong : Tecl Capta Conta FAL	Il Plansisition y Plans A on Dra Wa hnolog acity (amina	s awings ater Qual gy: NA MGD):	O_BAY A A Status COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT COMP NOT_INIT OMP NOT_INIT OMP NOT_INIT	Date 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001 1/1/2001	0:00 0:00 0:00 0:00 0:00 0:00 0:00

Water Supply Objectives			
Reduced Reliance Imported Water:	NA		
Increased Water Supply Reliability:	NA		
Increased Operational Flexibility:	NA		
Increased WaterConservation:	NA		
Increased Water Recycling: NA			
Increased Groundwater Management:	NA		
Reduced Sea Water Intrusion: NA			
Protect/Improve Drinking Water Standards: NA			
Other: NA			

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA
NA	

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water	Storage:	FALSE	Groundwater:	FALSE
GroundwaterT	reatment:	FALSE	Recycled Water	: FALSE
Reclaimed Groundwater:		FALSE	Conservation:	FALSE
Ocean Desalin	ation:	FALSE	Transfer:	FALSE
Other: NA				
Type of supply	/demand red	duction:	NA	
Description:	1,000+			
Annual Yield o	f Supply (AF	Y) : 1000		
Availability by	water-year to	ype (AFY)		
Average Year:	0			
Dry Year:	0			
Wet Year:	0			
Other:	0			
Description:	NA			
Availability by	season:			
Summer: FAL	SE	Spring	FALSE	
Fall: FAL	SE	Winter	FALSE	
Has potential to Bay/Delta/Estu		emands on	NS	

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description: NA				
Total Project Acres:	0			

Other Benefits
NA

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 137 Silver Lake Reservoir wetlands and park conversion

NA

 NA
 Jessica
 Hall

 NA
 213-576-6687
 jhall@waterboards.ca.gov

NA Partnering Agency:

Project Description

Convert reservoir from Emergency Supply to recreational wetland supplied by reclaimed water and seasonal runoff. Remove fences and provide trails and overlooks. Open up meadow as park. Project will decrease consumption of imported water.

Project Integration

Collective goal of this and other Ballona habitat programs is to facilitate habitat connectivity through a matrix of public and private property from the Hollywood Hills/Santa Monica Mountains to Ballona Creek and Wetlands.

Project Need

Cooperating Agencies	Location Description	<u>Proj</u>	ect Cost Estimate	<u>}</u>
NA	Ballona Creek Wshd	Lower Estimated Tot	al Capital Cost (\$):	35000000
NA		Upper Estimated Tot	al Capital Cost (\$):	60000000
NA		Of total cost, estimat		-1
NA		purchase/easement ((\$):	
NA		Annual OM Cost (\$):		-1
Associated Watersheds		Design Life of Project	ct (years):	-1
NA 	Project Source(s)		Sub-region	on(s)
NA				

NA
NA
Conforms to goals of Ballona Creek Watershed Mgmt Plan
conforms to goals of Ballona Creek Watershed Mgmt Plan
Conforms to goals of Ballona Creek Watershed Mgmt Plan
NA
NA
NA
NA
NA

	Readiness to	Proceed		
NA		<u>Item</u>	<u>Status</u>	<u>Date</u>
		Conceptual Plans	NOT_INIT	1/1/2001 0:00
		Land Acquisition	NOT_INIT	1/1/2001 0:00
		Preliminary Plans	NOT_INIT	1/1/2001 0:00
<u> </u>		CEQA/NEPA	NOT_INIT	1/1/2001 0:00
Proposed Start Date:	1/1/2006	Permits	NOT_INIT	1/1/2001 0:00
Proposed Completion Date:	1/1/2007	Construction Drawings	NOT_INIT	1/1/2001 0:00
Ready For Construction Bid:	N/A	Funding	NOT_INIT	1/1/2001 0:00

Water Quality Objectives		Water Quality Benefits
Improve Storm Water Quality:	NA	Treatment Technology: NA
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 0
Receiving Water Body Qual. Improvement:	NA	Targeted Contaminants
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: FALSE
Other: NA		Description: Approximately 100 acres of open reservoir can be converted to wetland, capturing and treating approx

Water Supply Objectives		
Reduced Reliance Imported Water:	NA	
Increased Water Supply Reliability:	NA	
Increased Operational Flexibility:	NA	
Increased WaterConservation:	NA	
Increased Water Recycling:	NA	
Increased Groundwater Management:	NA	
Reduced Sea Water Intrusion:	NA	
Protect/Improve Drinking Water Standards: NA		
Other: NA		

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA
NA	

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water	Storage:	FALSE	Groundwater:	FALSE
GroundwaterTreatment: FALSE		Recycled Water:	FALSE	
Reclaimed Groundwater: FALSE		FALSE	Conservation:	FALSE
Ocean Desalination: FALSE		FALSE	Transfer:	FALSE
Other: NA				
Type of supply	/demand red	uction:	NA	
Description:	Reduces cor reclaimed wa		imported water; reus	ses
Annual Yield o	f Supply (AF	Y) : 0		
Availability by	water-year ty	pe (AFY)		
Average Year:	0			
Dry Year:	0			
Wet Year:	0			
Other:	0			
Description:	NA			
Availability by	season:			
Summer: FAL	SE	Spring	FALSE	
Fall: FAL	SE	Winter	FALSE	
Has potential to displace demands on NS NS				

	Beneficial Use Benefit						
Non-Treatment W	etland Acres:	0					
Treatment Wetlar	nd Acres:	0					
Riparian Habitat	Acres:	0					
Open Space Acre	es:	0					
Multiple Use/Rec	reation Area						
Single Sport A	thletics Acres:	0					
Multiple Sport	Athletics Acres:	0					
Other Recreati	on Acres	0					
Pedestrian Tra	Pedestrian Trail Acres						
Equestrian Tra	il Acres	0					
Other Acres		0					
Description:	Integrates habita space	t with existing open					
Total Project Acı	es:	0					

Other Benefits
NA

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 195 Outdoor Community Living Rooms

The Verde Coalition

Jessica Hall 213-576-6687 jhall@waterboards.ca.gov

Partnering Agency:

Project Description

		FTOJECT DESC							
Acquisitions and development of n socializing space while providing e									
Rooms are currently in progress.		. 0			Ü		01		J
Project Integra These miniparks could be located					<u>Proj</u>	ect Need	<u>i</u>		
oncentrated runoff, have cisterns									
irected towards them for stormwa ioswales and other BMPs can be									
roject design. These small parks	can also become								
eighborhood demonstrations of name and water conservation techniques									
The water control valient teening act									
Cooperating Agencies		n Description				Proje	ect Cost Es	timate	
		on has a goal of creat munity Living Rooms	within				al Capital Cos	. ,	80000000
	the City of Los Ange	les over the next few	years.				al Capital Cost ed cost for lan	 .d	0000000
		lat/long does not refe ecific site.				asement (u _	1
				Annu	al ON	l Cost (\$):			1
Associated Watersheds				Desig	ın Life	e of Projec	t (years):		1
NA NA		Project Sour	ce(s)				Sul	b-region(s	<u>s)</u>
NA NA		e Coalition position pa					UP_LA_RVR		
part of larger program?	Verd	e Coalition position pa	aper 2005	-2006			SO_BAY	.	
FALSE							LOW_LA_RVF	•	
		Readiness to F	Proceed						
			Item				Status	Date)
			Cond	eptu	al Pla	ns	NOT_INIT	1/1/1753	3 12:00:
				l Acqu			NOT_INIT		
				minar	•	ns	NOT_INIT		
Proposed Start	Data: 01/0	1/1753	L CEQ Pern	A/NEI	PA		NOT_INIT NOT_INIT		
Proposed Comp		1/1753			ion D	rawings	NOT_INIT		
Ready For Cons			Fund			3	NOT_INIT		3 12:00:
Water Quality	Objectives		! 		W	lator Ou	ality Benefi	te	
<u>vvater Quality</u> mprove Storm Water Quality:	N.	A	Treatme	nt Tec	_		anty Delicii	<u></u>	
mprove Wastewater Effluent W			Treatment Technology: Treatment Capacity (MGD): 0						
eceiving Water Body Qual. Imp	rovement: N	A	Targeted Contaminants						
mproved Flood Management:	N.		3						
Ground Water Protection or Imp	rovement: N	A	Trash			Pollutan		Other:	FALSE
Other:			Descript	ion:	mode	st improver	ments will vary	by site	

Water Supply Objectives		Water Supply/Demand Reduction Benefits						
Reduced Reliance Imported Water:	NA	Surface Water Storage: FALSE	Groundwater: FALSE					
Increased Water Supply Reliability:	NA	GroundwaterTreatment: FALSE	Recycled Water: FALSE					
Increased Operational Flexibility:	NA	Reclaimed Groundwater: FALSE	Conservation: FALSE					
Increased WaterConservation:	NA	Ocean Desalination: FALSE	Transfer: FALSE					
Increased Water Recycling:	NA	Other:						
Increased Groundwater Management:	NA	Type of supply/demand reduction:	NA					
Reduced Sea Water Intrusion:	NA	Description: varies						
Protect/Improve Drinking Water Standards:	NA							
Other:		Annual Violate of Committee (AEV)						
		Annual Yield of Supply (AFY): 0						
Detention and Organization B. I	a Danafii	Availability by water-year type (AFY)					
Detention and Groundwater Recharg	e Benefit	Average Year: 0						
Acres of land that drain into basin: -1		Dry Year: 0						
		Wet Year: 0						
200000000000000000000000000000000000000		Other: 0						
Max Operational Depth (ft): -1 % Wetlands 0		Description:						
SoilType NA								
Method and Recharge (AFY):		Availability by season:						
Estimated Annual Inflow (AFY): -1		Summer: FALSE Spring	FALSE					
Estimated Annual Innow (AFY): -1 Estimated Annual Outflow (AFY): -1		Fall: FALSE Winter	FALSE					
Latinated Allitual Outilow (AFT).		Has potential to displace demands	on					
Panaficial Usa Objectives		Bay/Delta/Estuary system:	NS NS					
Beneficial Use Objectives	NIA							
Create/Enhance Wetlands:	NA	Beneficial Use	<u>e Benefit</u>					
Restore/Protect Habitat:	NA	Non-Treatment Wetland Acres:	0					
Create Public Access/Rec/Open Space:	NA	Treatment Wetland Acres:	0					
Increased In-Stream Flow:	NA	Riparian Habitat Acres:	0					
Other:	NA	Open Space Acres:	0					
		Multiple Use/Recreation Area						
		Single Sport Athletics Acres:	0					
		Multiple Sport Athletics Acres:	0					
Flood Management Benefit Inform	ation	Other Recreation Acres	0					
Max Storm Runoff Storage:	-1	Pedestrian Trail Acres	0					
Max Conveyance Capacity:	-1	Equestrian Trail Acres	0					
Flood Protection Level:	NA	Other Acres	0					
Acres Benefitting:	-1	Description: 100 mini parks						
Other: 0								
Estimated Annual Flood Reduction Value:	-1	Total Project Acres:	0					
Acreage Required for Implementation:	-1							
Γ		D						
	Other I	<u>Benefits</u>						
Dominant existing land use type: NA	A	Addresses Environmental Justic	e issues: NS					

Upstream/downstream land use type:

NA

NS

Disadvantaged Community Participation:

Organization:

Project # 199 Community Gardens

Verde CoalitionJessicaHallNA213-576-6687jhall@waterboards.ca.gov

NA Partnering Agency:

3 3 3,									
Project Description Community Gardens can be developed in association with the Community Living Rooms, or other park lands. They can serve as part of a neighborhood-based BMP, with cisterns or biofiltration devices filtering runoff. It is possible they could also be integr									
Project Integra	<u>tion</u>			<u> </u>	<u>Proje</u>	ct Need	_		
NA		NA							
		B 1.41	ı						
Cooperating Agencies		n Description				<u>Proje</u>	ect Cost Est	<u>timate</u>	
NA		and and conversion to nunity gardens to me	1 1 1	ower	r Estin	nated Tota	al Capital Cost	(\$): 5	0000000
NA		1)sustainable food s		pper	Estin	nated Tota	I Capital Cost	(\$): 1	00000000
NA	focused on low-inco	ome communities, the	ough O f				ed cost for land	d⁄	1
NA		2) preserve undevelo		urch	ase/ea	asement (\$	\$):		
NA	land for infiltration	r infiltration and capture of rainfall.			al OM	Cost (\$):		-1	I
Associated Watersheds			l D	esia	n Life	of Project	t (vears):	-1	1
NA		Project Sour		oolg		0	,	o-region(s	
NA		-	<u>ce(s)</u>				·	<u>)-region(s</u>	1
NA		NA					SO_BAY		
Is part of larger program?		NA					NA		
FALSE		NA					NA		
		NA							
		Readiness to P	roceed						
NA			Item				Status	Date	
			Conce	ntua	l Plan	s	NOT_INIT	1/1/2001	
			Land A	•			NOT_INIT	1/1/2001	
			Prelim	-			NOT_INIT	1/1/2001	
			CEQA/	•	•		NOT_INIT	1/1/2001	
Proposed Start	Date: 1/1/2	006	Permit				NOT_INIT	1/1/2001	
Proposed Comp				-	on Dra	awings	NOT INIT	1/1/2001	
Ready For Cons		007	Construction Drawings NOT_INIT 1/1/2001 0: Funding NOT_INIT 1/1/2001 0:						
ready For Conc	Tradition Blu: 1070		i dilali	9				17 17200 1	0.00
Water Quality	Objectives				W	ater Qua	ality Benefit	t <u>s</u>	
Improve Storm Water Quality:	NA	4	Treatment	Tec					
Improve Wastewater Effluent WC			Treatment			0,	0		
Receiving Water Body Qual. Imp			Targeted C	•	•	` '	-		
Improved Flood Management:	NA NA		Metal:				ns: FALSE	Nutrients:	FALSE
							Other:	FALSE	
Other: NA			Description	-				J	

water Supply Objectives					
Reduced Reliance Imported Water:	NA				
Increased Water Supply Reliability:	NA				
Increased Operational Flexibility: NA					
Increased WaterConservation: NA					
Increased Water Recycling: NA					
Increased Groundwater Management: NA					
Reduced Sea Water Intrusion: NA					
Protect/Improve Drinking Water Standards: NA					
Other: NA					

Water Cumply Objectives

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives					
Create/Enhance Wetlands:	NA				
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space:	NA				
Increased In-Stream Flow:	NA				
Other:	NA				
NA					

Flood Management Benefit Information

Max Storm Runoff Storage: -1

Max Conveyance Capacity: -1

Flood Protection Level: NA

Acres Benefitting: -1

Other: 0

Estimated Annual Flood Reduction Value: -1

Estimated Annual Flood Reduction Value: -1
Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits Surface Water Storage: **FALSE FALSE** Groundwater: GroundwaterTreatment: **FALSE** Recycled Water: FALSE **Reclaimed Groundwater: FALSE** Conservation: **FALSE** Ocean Desalination: **FALSE** Transfer: **FALSE** Other: NA Type of supply/demand reduction: NA Description: NA Annual Yield of Supply (AFY): 0 Availability by water-year type (AFY) Average Year: 0 Dry Year: Wet Year: 0 Other: Description: NA Availability by season: Summer: FALSE Spring **FALSE FALSE** Winter **FALSE** Has potential to displace demands on Bay/Delta/Estuary system:

Beneficial Us	Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0						
Treatment Wetland Acres:	0						
Riparian Habitat Acres:	0						
Open Space Acres:	0						
Multiple Use/Recreation Area							
Single Sport Athletics Acres:	0						
Multiple Sport Athletics Acres:	0						
Other Recreation Acres	0						
Pedestrian Trail Acres	0						
Equestrian Trail Acres	0						
Other Acres	0						
Description: Community Garde	ens wtih BMPs						
Total Project Acres:	0						

Other Benefits
NA

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 204 I-105 Freeway to Dominguez Gap Barrier Pipeline

Water Replenishment District of Southern California 4040 Paramount Boulevard Lakewood, CA 90712

Weeks Jason 562-275-4253 jweeks@wrd.org

Partnering Agency:

Project Description

A portion of the I-105 freeway between the San Gabriel and LA rivers was completed below the original land surface. To mitigate high groundwater,

Caltrans constructed a series of ex surface. This project involves treati (DGB) to offset imported water det dewatering wells to Dominguez Go oxidation / filtrations for iron and m from the new treatment facility wel water demands by a like amount	ktraction wells along th ng this 2,000 afy and o mands. Major project o ap Barrier, a new 1,550 anganese removal, fo	e west-bound side of conserving it in the W components include: to gallon per minute (gallowed by GAC adsor	f the freev lest Coast the constr gpm) deep rption for	vay to or to	controndwate of apparent of ap	ol the gro er Basin proxima 1,300 gr al (speci	through tely 8 rooms om treatically	ater level be gh the Domi niles of pipe atment plant ICE and cis	low the freew nguez Gap B eline from the consisting of s-1,2-DCE). W	ay arrier : /ater
<u>Project Integra</u>	<u>ation</u>	This project will constit to replace imported region's demand project will utilize the acre-feet per year of demand.	water at the on water for groundwater	ximately ne Domi rom nor er stora	y 2,000 inguez thern (age cap	Gap Sea California cacity of t	et of wat awater la and the he Cent	ntrusion Barri Colorado Ri tral Basin to s	er, thereby rediver. Additionally shift an addition	ucing the y, this al 2,500
Cooperating Agencies	Locatio	n Description				Pr	oject	Cost Es	timate	
<u> </u>	The proposed pipeli	ne will run generally f		Lowe	r Esti			apital Cost		4100000
	the alignment of the							apital Cost	,	9300000
	existing interconnec	rconnection to the Dominguez gap				st, estin easemer		cost for lan	d 2	000000
				Annu	al OM	l Cost (\$):		7:	50000
Associated Watersheds				Desig	n Life	e of Pro	ject (y	ears):	30	0
СВ		Project Sour	ce(s)					Sul	o-region(s)
WB	2004	WRD Capital Improv		ogram			LO'	W_LA_RVR		-
LARW	2004 WRD Capital Improve		ement Pr	ement Program			_BAY			
s part of larger program? FALSE	January 1996	1996 I-105 Freeway Dewa		97-00)5 Stu	dy	NA			
		Readiness to F	roceed	l						
			Item					<u>Status</u>	Date	
			Con	ceptua	al Plai	ns		COMP	1/31/200	06 0:00
				d Acqu				IN_PROC	4/30/200	00:0 8
				iminar	-	ns		IN_PROC	8/31/200	
		(0.000		A/NEI	PA			IN_PROC	10/30/20	
Proposed Start		2008	Perr					IN_PROC	12/30/20	
Proposed Com		(2010	_				IN_PROC	7/31/200		
Ready For Cons	struction Bid: 1-3 \	'ears	Fun	ding				IN_PROC	6/30/201	0 0:00
Water Quality	Objectives				V	Vater C	Qualit	y Benefi	ts_	
mprove Storm Water Quality:	rove Storm Water Quality: SEC Treatment Technology: Oxidiation/filtration and GAC ads					dsorptio				
mprove Wastewater Effluent Wo	Q: NA	Ą	Treatme	nt Cap	acity	(MGD):		1.87		
Receiving Water Body Qual. Imp		EC	<u>Targete</u>							
mproved Flood Management:	N/			I: FA		Patho	gens:	FALSE	Nutrients:	
Ground Water Protection or Imp	rovement: PF	रा		h: FA			tants:	FALSE	Other:	TRUE
Other:			Descript	ion:				nd mangane CE and cis	ese and VOC -1,2-DCE	

Water Quality Objectives		Water Quality Benefits				
Improve Storm Water Quality:	SEC	Treatment Technology: Oxidiation/filtration and GAC adsorptio				
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 1.87				
Receiving Water Body Qual. Improvement:	SEC	Targeted Contaminants				
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE				
Ground Water Protection or Improvement:	PRI	Trash: FALSE Pollutants: FALSE Other: TRUE				
Other:		Description: Treatment for iron and manganese and VOC				
		removal - primarily TCE and cis-1,2-DCE				

Water Supply Objectives Reduced Reliance Imported Water: PRI **Increased Water Supply Reliability:** PRI **Increased Operational Flexibility:** PRI PRI **Increased WaterConservation: Increased Water Recycling:** NA **Increased Groundwater Management:** PRI **Reduced Sea Water Intrusion:** PRI **Protect/Improve Drinking Water Standards:** NA Other:

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY): Injection (4,500

Estimated Annual Inflow (AFY): -1
Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives					
Create/Enhance Wetlands:	NA				
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: NA					
Increased In-Stream Flow: NA					
Other:	NA				

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water S	Supply/De	mand Red	duction Benefit	<u>s</u>	
Surface Water	Storage:	FALSE	Groundwater:	TRUE	
GroundwaterT	reatment:	TRUE	Recycled Water	: FALSE	
Reclaimed Gro	•			FALSE	
Ocean Desalin	Ocean Desalination: FALSE Transfer: FALS			FALSE	
Other:					
Type of supply	/demand red	duction:	POT		
Description:					
Annual Yield of Supply (AFY): 4500					
Availability by water-year type (AFY)					
Average Year:	4500				
Dry Year:	4500				
Wet Year: 4500					
Other: 4500					
Description:	Source water continually available from either deep well or dewatering well				
Availability by season:					
Summer: TRU	Summer: TRUE Spring TRUE				
Fall: TRU	JE Winter TRUE				
Has potential to displace demands on Y					

Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0			
Treatment Wetland Acres:	0			
Riparian Habitat Acres:	0			
Open Space Acres:	0			
Multiple Use/Recreation Area				
Single Sport Athletics Acres:	0			
Multiple Sport Athletics Acres:	0			
Other Recreation Acres	0			
Pedestrian Trail Acres	0			
Equestrian Trail Acres	0			
Other Acres	0			
Description:				
Total Project Acres:	0			

Other Benefits

The primary benefit of this project is the conservation of approximately 2,000 acre-feet per year of water currently being wasted to the ocean as a result of dewatering operations beneath the I-105 freeway. The conservation of this water in the Dominguez Gap Barrier will directly offset non-interruptible imported water purchases by the WRD. An additional 2,500 acre-feet of extracted groundwater from a newly constructed deep well will further offset imported water purchases, bringing the total reduction in imported water demand as a result of this project to 4,500 acre-feet per year.

Dominant existing land use type:	OTHR
Varies along the alignment of the pipeline).
Upstream/downstream land use type:	OTHR
Varies along the alignment of the pipeline).
·	

Addresses Environmental Justice issues:	NS
Within Disadvantaged Community:	Υ
Disadvantaged Community Participation:	NS
Organization:	
· ·	

Project # 206 Carson Regional Water Recycling Project

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

310-660-6213 marcs@westbasin.org

Serna

Marc

www.westbasin.org Partnering Agency: BP(British Petroleum), County Sa

Project Description

This project proposes to construct a recycled water distribution line from the County Sanitation Districts of Los Angeles County's Joint Water Pollution Control Plant (JWPCP) to the future site of the BP Hydrogen Plant in the City of Carson, as well as other customers along the main pipeline. The future site of BP's Plant will require water for processing purposes. This new demand will require potable water that puts more pressure on imported water supplies. Therefore, recycled water is the preferred alternative. The BP facility will require approximately 23,392 acrefeet per year of water. The JWPCP is well equipped to provide this amount of treated wastewater that can be further treated for industrial use and be treated to meet BP facility's needs and will most likely be of higher water quality than the standard Title 22.

Project Integra West Basin's Water Recycling Pro		Project Need The proposed project will address a need for recycled water use for a new demand. The company British Petroleum (BP) is constructing a Hydrogen Plant in the City of Carson and will have an average day demand of over 23,000 acre-feet per year, or 21 million gallons per day (MGD). This is a new demand on the system and will require pipelines, pump stations, treatment, storage, and waste management facilities. The BP demand will be supplied from the Joint Water Pollution Control Plant, owned by the County Sanitation Districts of Los Angeles County. The water will be treated to meet BP's water quality standards. If the BP Hydrogen Plant did not use recycled water, there will be a need of an additional 21MGD from the Colorado River and Bay-Delta. The construction of this project is vital to BP's use of recycled water. This project will also reduce the amount of secondary			
Cooperating Agencies British Petroleum anitation Districts of Los Angele anitation Districts of Los Angele City of Los Angeles Customer Agencies Associated Watersheds	Location Description Dominguez Watershed		Upper Estimated Total Capital Cost (\$): 150000 Of total cost, estimated cost for land purchase/easement (\$):		10000000 150000000 0 6000000
WB DCW NA Is part of larger program? TRUE	· ·	Project Source(s) 005 West Basin Urban Wate 005 West Basin Urban Wate NA NA	r Management Plan	Sub-region So_BAY NA NA	

Readiness to Proceed					
NA		<u>ltem</u>	<u>Status</u>	<u>Date</u>	
		Conceptual Plans	COMP	3/9/2007 0:00	
		Land Acquisition	NA	1/1/1753 12:00:	
		Preliminary Plans	NOT_INIT	1/1/1753 12:00:	
<u> </u>		CEQA/NEPA	NOT_INIT	1/1/1753 12:00:	
Proposed Start Date:	3/31/2008	Permits	IN_PROC	3/12/2007 0:00	
Proposed Completion Date:	9/13/2010	Construction Drawings	NOT_INIT	1/1/1753 12:00:	
Ready For Construction Bid:	1-3 Years	Funding	NOT_INIT	1/1/1753 12:00:	

Water Quality Objectives		Water Quality Benefits		
Improve Storm Water Quality:	NA	Treatment Technology: Microfiltratiion and Reverse Osmosis		
Improve Wastewater Effluent WQ:	PRI	Treatment Capacity (MGD): 21		
Receiving Water Body Qual. Improvement:	NA	Targeted Contaminants		
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE		
Ground Water Protection or Improvement:	NA	Trash: FALSE Pollutants: FALSE Other: TRUE		
		treated and used for Title 22 and higher quality water		

Increased Water Supply Reliability: PRI Increased Operational Flexibility: PRI Increased WaterConservation: NA Increased Water Recycling: PRI Increased Groundwater Management: NA Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Water Supply Objectives				
Increased Operational Flexibility: PRI Increased WaterConservation: NA Increased Water Recycling: PRI Increased Groundwater Management: NA Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Reduced Reliance Imported Water:	PRI			
Increased WaterConservation: Increased Water Recycling: Increased Groundwater Management: Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Increased Water Supply Reliability:	PRI			
Increased Water Recycling: PRI Increased Groundwater Management: NA Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Increased Operational Flexibility:	PRI			
Increased Groundwater Management: NA Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Increased WaterConservation: NA				
Reduced Sea Water Intrusion: NA Protect/Improve Drinking Water Standards: NA	Increased Water Recycling: PRI				
Protect/Improve Drinking Water Standards: NA	Increased Groundwater Management: NA				
The state of the s	Reduced Sea Water Intrusion: NA				
Other:	Protect/Improve Drinking Water Standards: NA				
	Other:				

Acres of land that drain into basin: -1

Detention Basin Area (acres): -1

Max Operational Depth (ft): -1

% Wetlands 0

SoilType NA

Method and Recharge (AFY):
Estimated Annual Inflow (AFY): -1

Estimated Annual Outflow (AFY): -1

Beneficial Use Objectives				
Create/Enhance Wetlands: NA				
Restore/Protect Habitat: NA				
Create Public Access/Rec/Open Space: NA				
Increased In-Stream Flow: NA				
Other:	NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water S	Water Supply/Demand Reduction Benefits				
Surface Water	Storage:	FALSE	Groundwater:	FALSE	
GroundwaterT	reatment:	FALSE	Recycled Water	: TRUE	
Reclaimed Gro	undwater:	FALSE	Conservation:	TRUE	
	Ocean Desalination: FALSE Transfer: FALSE				
Other: NA					
Type of supply	/demand re	duction:	NONPOT		
Description:					
Annual Yield of Supply (AFY): 23392					
Availability by water-year type (AFY)					
Average Year:	23392				
Dry Year:	23392				
Wet Year:	23392				
Other:	23392				
Description:	NA				
Availability by season:					
Summer: TRU	JE	Spring	TRUE		
Fall: TRU	JE	Winter	TRUE		
Has potential to displace demands on Bay/Delta/Estuary system:					

Beneficial Us	se Benefit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description: NA	
Total Project Acres:	0

Other Benefits

This project will provide water supply and water quality benefits. By recycling treated wastewater for industrial purposes, there will be less demand on imported water supplies on the Colorado River and the Bay-Delta. Approximately 23,392 acre-feet per year or 21 million gallons per day can be conserved through the use of recycled water. This means that the treated wastewater is not discharged into the ocean and less imported and local potable supplies are being used. In a drought-prone area with a Mediterranean climate, it is imperative that conservation measures be put in place to

Dominant existing land use type:	IND
Upstream/downstream land use type:	NA
NA	
P.	

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 207 Construct a 20-mgd Seawater Desalination Plant in West Basin

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

Lauri 310-660-6238 phill@westbasin.org

www.westbasin.org Partnering Agency:

Project Description

The project proposes to construct a 20mgd Seawater Desalination Plant in West Basin's service area for potable water use. First, a Demonstration Plant will be necessary to evaluate the water quality performance and treatment stability, assess efficient energy recovery devices, optimize

Plant will be necessary to evaluate to operational performance utilizing ful West Basin and its partners will per State Drinking Water Standards. Wiplanning, design, and construction of Demonstration Plant for at least two	I scale process equip form the full battery of th the knowledge gain of a full scale 20,000 a	ment, and to acquire f water quality analys ned by operating the AFY seawater desali	the neceses to ensonerse	essary data to sure that the tration Plant, d education t	o achieve re demonstrat West Basii facility. Wes	egulatory complition project mee n expects to mo st Basin anticipa	iance and ap ts all Federa ve forward w	proval. I and ith the
Project Integrate Seawater Desalination Coalition	ion	This project will providesalination plant will source will provide was upplies. In addition to supplies from the Bay those regions. Ocean water, conservation, or the supplies in the supplies from the Bay those regions.	provide 2 ater reliabi o providing -Delta and -water des	water supply so o million gallon ity to the regio g a reliable wat I the Colorado calination will p	ns per day of on that is hea ter source, d River, therel provide anoth	South Bay region. desalinated water vily dependent on esalination will helfore, providing env	for potable us imported wate p to offset the rironmental be	e. This er imported nefits to
Cooperating Agencies	Locatio	n Description			Proie	ect Cost Est	imate	
NA		onica Bay Watershe	d	Lower Esti		al Capital Cost		0000000
NA						al Capital Cost	,	80000000
NA NA					st, estimate	ed cost for land		000000
NA				Annual OM	l Cost (\$):		80	000000
Associated Watersheds				Design Life	e of Projec	t (vears):	40)
DCW		Project Sour	ce(s)				-region(s	
SMBW	West Rasin N	// AWD's 2005 Urban W		agement Pla	an	SO_BAY	regioni	L
WB		//WD's 2005 Urban W		Ü		NA		
Is part of larger program?	Wood Baom N	NA	rator mar	iagomoni i	211	NA		
TRUE		NA						
		Readiness to F	Proceed	1				
NA			Item	<u>1</u>		<u>Status</u>	Date	
			Con	ceptual Plai	ns	IN_PROC	1/1/2004	0:00
			Lan	d Acquisitio	n	NOT_INIT	1/1/1753	
				iminary Plar	ns	NOT_INIT	1/1/1753	
<u> </u>				A/NEPA		NOT_INIT	1/1/1753	
Proposed Start D			_	nits		NOT_INIT	1/1/1753	
Proposed Compl				struction Dr	rawings	NOT_INIT	1/1/1753	
Ready For Const	ruction Bid: 3-5 Y	'ears	Fun	ding		NOT_INIT	1/1/1753	3 12:00:
Water Quality	<u>Objectives</u>			W	/ater Qu	ality Benefit	<u>s</u>	
Improve Storm Water Quality:	NA NA	A	Treatme	ent Technolo	ogy: N	Α		
Improve Wastewater Effluent WQ	: NA	A	Treatme	nt Capacity	(MGD):	20		
Receiving Water Body Qual. Impr	ovement: NA	4	Targete	d Contamin	ants			
Improved Flood Management:	NA.	4	Meta	I: FALSE	Pathoge	ns: FALSE	Nutrients:	FALSE
Ground Water Protection or Impro	ovement: NA	4	Tras	h: FALSE	Pollutan	ts: FALSE	Other:	FALSE
Other:			Descrip	tion: NA				

Improve Storm Water Quality:	NA	Treatment Technolog	gy: NA			
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD):	20		
Receiving Water Body Qual. Improvement:	NA	Targeted Contamina	<u>nts</u>			
Improved Flood Management:	NA	Metal: FALSE	Pathogens:	FALSE	Nutrients:	FALSE
Ground Water Protection or Improvement:	NA	Trash: FALSE	Pollutants:	FALSE	Other:	FALSE
Other:		Description: NA				

Water Supply Objectives	
Reduced Reliance Imported Water:	PRI
Increased Water Supply Reliability:	PRI
Increased Operational Flexibility:	PRI
Increased WaterConservation:	PRI
Increased Water Recycling:	NA
Increased Groundwater Management:	NA
Reduced Sea Water Intrusion:	NA
Protect/Improve Drinking Water Standards:	PRI
Other:	
Detention and Crowndowston Backers	na Danasii

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water S	Supply/De	mand Red	duction Benefi	ts
Surface Water	Storage:	FALSE	Groundwater:	FALSE
GroundwaterT	reatment:	FALSE	Recycled Wate	r: FALSE
Reclaimed Gro	undwater:	FALSE	Conservation:	FALSE
Ocean Desalin	ation:	TRUE	Transfer:	FALSE
Other: NA				
Type of supply	/demand red	luction:	POT	
Description:				
Annual Yield o	f Supply (AF	Y) : 20000		
Availability by	water-year ty	/pe (AFY)		
Average Year:	20000			
Dry Year:	20000			
Wet Year:	20000			
Other:	20000			
Description:	NA			
Availability by	season:			
Summer: TRU	JE	Spring	TRUE	
Fall: TRU	JE	Winter	TRUE	
Has potential to Bay/Delta/Estu	•	emands on	Υ	

Beneficial Us	se Benefit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description: NA	
Total Project Acres:	0

Other Benefits

The project's benefits include water reliability, higher water quality, reduction on Bay-Delta and Colorado River imported water supplies, and local water production. The Desalination Plant will provide up to 20 million gallons per day, or 20,000 acre-feet per year. This new supply will satisfy new demands placed on the region from population and reduce the need for additional groundwater or imported water supplies.

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 209 Harbor/ South Bay Expansion

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

Receiving Water Body Qual. Improvement:

Ground Water Protection or Improvement:

Improved Flood Management:

Other:

Joe Walters 310-660-6208 joew@westbasin.org

www.westbasin.org

Partnering Agency: Customer Agencies, United State

Project Description

This project expands the West Basin Water Recycling distribution line to the West Basin service area and the Palos Verdes Peninsula. This project is needed in the Palos Verdes Peninsula area because of the amount of green open space, landscaped areas, and golf courses that could benefit from reclaimed water for irrigation. This distribution line will also connect to another portion of West Basin's service area that will supply recycled water to the Los Angeles Harbor area. The recycled water will originate from Hyperion Wastewater Treatment Facility in Los Angeles. The recycled water is transported through existing lines to the Palos Verdes Peninsula area.

Project Integra West Basin's Water Recycling Pro		landscaped areas, and distribution line will also recycled water to the Li Wastewater Treatment lines to West Basin's si conserve approximately	d golf coul o connect os Angelet t Facility i service are ly 2100 A	Project Need set Basin service area becauses that could benefit from to another portion of Weses Harbor area. The recycle in Los Angeles. The recycle a including the Palos Vernery of imported water supp discharged to the ocean.	ause of the amount of n reclaimed water for at Basin's service area led water will originate ed water is transporte des Peninsula area. T	irrigation. This that will supply from Hyperion d through existing his project will
Cooperating Agencies	Location	n Description		Proi	ect Cost Estim	nate
Customer Agencies		ower Santa Monica Ba	ay	Lower Estimated Tot		,
ted States Bureau of Reclamat				Upper Estimated Tot		
ted States Bureau of Reclamat City of Los Angeles				Of total cost, estimat purchase/easement (0
NA				Annual OM Cost (\$):		100000
Associated Watersheds				Design Life of Project	t (years):	40
DCW	-	Project Source	e(s)	,		egion(s)
SMBW	West Basin M	WD's 2005 Urban Wa		nagement Plan	SO BAY	
WB	West Rasin M	WD's 2005 Urban Wa	ater Mar	nagement Plan	NΔ	
s part of larger program? TRUE	West Basin MWD/Los /	Angeles Department o	of Water	and Power Harbor Plan	NA	
TRUE		NA NA				
		Readiness to Pr	roceed	<u>i</u>		
NA			Item	1	Status	Date
			Con	- ceptual Plans	COMP	1/1/2007 0:00
				d Acquisition	COMP	1/1/2007 0:00
			Prel	iminary Plans	COMP	1/1/2007 0:00
]			CEC	A/NEPA	COMP	1/1/2007 0:00
Proposed Start	Date: 1/1/20	007	Perr	nits	COMP	1/1/2007 0:00
Proposed Comp	oletion Date: 1/1/20	009	Con	struction Drawings	COMP	1/1/2007 0:00
Ready For Cons	struction Bid: 1-3 Ye	ears	Fun	ding	IN_PROC	1/1/2007 0:00
					· · · · · · · · · · · · · · · · · · ·	·
Water Quality	Objectives			Water Qu	ality Benefits	
Water Quality Improve Storm Water Quality:	Objectives NA		Treatme	Water Quent Technology: N		

Targeted Contaminants

Metal: FALSE

Trash: FALSE

Description: NA

NA

NA

NA

FALSE

Pathogens: FALSE

Pollutants:

Nutrients: FALSE

FALSE

Other:

Water Supply Objectives			water S	Supply
Reduced Reliance Imported Water:	PRI		Surface Water	Storage
Increased Water Supply Reliability:	PRI		GroundwaterTr	reatmen
Increased Operational Flexibility:	PRI		Reclaimed Gro	undwat
Increased WaterConservation:	SEC		Ocean Desalina	ation:
Increased Water Recycling:	PRI		Other: NA	
Increased Groundwater Management:	NA		Type of supply	/deman
Reduced Sea Water Intrusion:	NA		Description:	
Protect/Improve Drinking Water Standards:	NA			
Other:			Annual Yield of	f Supply
		1	Availability by v	water-ye
Detention and Groundwater Rechar	<u>ge Benefit</u>		Average Year:	2100
			Dry Year:	2100
Acres of land that drain into basin: -1			Wet Year:	2100
Detention Basin Area (acres): -1			Other:	2100

-1

0

NA

-1

Beneficial Use Objective	<u>s</u>
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA

Max Operational Depth (ft):

Method and Recharge (AFY): Estimated Annual Inflow (AFY):

Estimated Annual Outflow (AFY):

% Wetlands SoilType

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water S	Supply/De	mand Re	duction Benefit	<u>s</u>
Surface Water	Storage:	FALSE	Groundwater:	FALSE
GroundwaterT	reatment:	FALSE	Recycled Water	: TRUE
Reclaimed Gro	undwater:	FALSE	Conservation:	FALSE
Ocean Desalin	ation:	FALSE	Transfer:	FALSE
Other: NA				
Type of supply	/demand red	duction:	NONPOT	
Description:				
Annual Yield o	f Supply (AF	Y) : 2100		
Availability by	water-year t	ype (AFY)		
Average Year:	2100			
Dry Year:	2100			
Wet Year:	2100			
Other:	2100			
Description:	NA			
Availability by	season:			
Summer: TRU	JE	Spring	TRUE	
Fall: TRU	JE	Winter	TRUE	
Has potential to Bay/Delta/Estu		emands on	Υ	

Beneficial Us	Beneficial Use Benefit				
Non-Treatment Wetland Acres:	0				
Treatment Wetland Acres:	0				
Riparian Habitat Acres:	0				
Open Space Acres:	0				
Multiple Use/Recreation Area					
Single Sport Athletics Acres:	0				
Multiple Sport Athletics Acres:	0				
Other Recreation Acres	0				
Pedestrian Trail Acres	0				
Equestrian Trail Acres	0				
Other Acres	0				
Description: NA					
Total Project Acres:	0				

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, and increased local production. This project will recycle approximately 2,100 AFY of treated wastewater effluent.

Dominant existing land use type:	PUB	
Upstream/downstream land use type:	RES	

Addresses Environmental Justice issues:	N	
Within Disadvantaged Community:	N	
Disadvantaged Community Participation:	N	
Organization:		

Project # 211 Dominguez Refineries Recycled Water Project

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

Serna Marc 310-660-6213 marcs@westbasin.org

www.westbasin.org

Partnering Agency: Los Angeles Department of Water

Project Description

This project proposes to extend the existing West Basin Water Recycling System distribution line through Carson and the LA Harbor area. It will

This project proposes to extend th connect major refineries and indus portion of West Basin's service are	stry. This project will in	clude a nitrification tre	eatment i	n Carson. This	distribution			
Project Integra West Basin MWD's Water Recycli Plan		This project expands Angeles Harbor area. from the use of reclai Wastewater Treatmer refineries currently us into the groundwater water. Therefore, the intrusion. Replenishin Replenishment Distric	This projemed water that Facility se groundward groundward the Don	Basin Water Recent is needed becomed to their process and undergo MF/water as their water gh. This project we ter remains in the hinguez Gap Barr	cause of the ses. The red RO at Wes er source. I will replace to basin, corrier is the hi	amount of refine cycled water will of t Basin's Water R n doing so, the ri the use of ground ntinuing to halt the ghest cost water	eries that will be originate from la Recycling Facil sk of seawated dwater with rece threat of sea to the Water	enefit Hyperion ity. The r intrusion cycled
Cooperating Agencies		n Description			<u>Proje</u>	ct Cost Est	<u>imate</u>	
Los Angeles Department of	Doming	juez Watershed		Lower Estima	ated Tota	l Capital Cost	(\$): 5	000000
Customer Agencies						Capital Cost		5000000
Customer Agencies				Of total cost, purchase/eas		d cost for land	i 0	
Water Replenishment District				-	-).	4.	20000
NA	-			Annual OM C				00000
Associated Watersheds DCW				Design Life of	of Project		40	
SMBW		Project Sour					-region(s)
WB		Department of Water		•	0	_		
Is part of larger program?	st Basin/Los Angeles	Department of Water	& Powe	Water Recycli	•			
TRUE		NA			1	NA		
		NA						
		Readiness to F	rocee	<u>d</u>				
NA			lten	_		Status	Date	
				ceptual Plans		COMP	1/1/2007	
				d Acquisition		NOT_INIT	1/1/1753	
				iminary Plans		COMP NOT INIT	1/1/2007	
Proposed Start	Data: 1/1/	2008		QA/NEPA mits		NOT_INIT	1/1/1753 1/1/1753	
Proposed Start Proposed Com		2008 2010	_	mits struction Drav	wings	NOT_INIT	1/1/1753	
Ready For Cons	p. 0. 1. 2 a. 10	Years		ding	willys	NOT_INIT	1/1/1753	
ixeauy i or cons	Guacuon Blu. 150		I un	wiy		1401_1111	1,1,1,1	, , 2.00.
Water Quality	Objectives			Wa	ter Qua	lity Benefit	<u>s</u>	
Improve Storm Water Quality:	N	A	Treatme	ent Technolog	y: NA			
Improve Wastewater Effluent We	Q: S	EC	Treatme	ent Capacity (N	/IGD):	10		
Receiving Water Body Qual. Imp	provement: N	A	Targete	d Contaminan	<u>ts</u>			
Improved Flood Management:	N	A	Meta	II: FALSE	Pathoger	s: FALSE	Nutrients:	FALSE
Ground Water Protection or Imp	rovement: N	A			Pollutant		Other:	FALSE
Other:			Descrip	tion: 10,000	AFY of wa	astewater		

water Supply Objectives			
Reduced Reliance Imported Water:	PRI		
Increased Water Supply Reliability:	PRI		
Increased Operational Flexibility:	PRI		
Increased WaterConservation:	SEC		
Increased Water Recycling: PRI			
Increased Groundwater Management: NA			
Reduced Sea Water Intrusion: NA			
Protect/Improve Drinking Water Standards:	NA		
Other:			
Detention and Croundwater Beabar	go Ponofit		

Water Cumply Objectives

Detention and Groundwater Recharge Benefit

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives				
Create/Enhance Wetlands:	NA			
Restore/Protect Habitat:	NA			
Create Public Access/Rec/Open Space:	NA			
Increased In-Stream Flow:	NA			
Other:	NA			

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water S	Water Supply/Demand Reduction Benefits					
Surface Water	Storage:	FALSE	Groundwater:	FALSE		
GroundwaterT	reatment:	FALSE	Recycled Water	: TRUE		
Reclaimed Gro	undwater:	FALSE	Conservation:	FALSE		
Ocean Desalin	ation:	FALSE	Transfer:	FALSE		
Other: NA						
Type of supply	/demand re	duction:	NONPOT			
Description:						
Annual Yield o	f Supply (AF	10000				
Availability by	water-year t	ype (AFY)				
Average Year:	10000					
Dry Year:	10000					
Wet Year:	10000					
Other:	10000					
Description:	NA					
Availability by	season:					
Summer: TRU	JE	Spring	TRUE			
Fall: TRU	JE	Winter	TRUE			
Has potential to Bay/Delta/Estu	•	lemands on	Υ			

Beneficial Us	se Benefit
Non-Treatment Wetland Acres:	0
Treatment Wetland Acres:	0
Riparian Habitat Acres:	0
Open Space Acres:	0
Multiple Use/Recreation Area	
Single Sport Athletics Acres:	0
Multiple Sport Athletics Acres:	0
Other Recreation Acres	0
Pedestrian Trail Acres	0
Equestrian Trail Acres	0
Other Acres	0
Description: NA	
Total Project Acres:	0

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, reduction of seawater intrusion, reduced imported water into the Dominguez Gap Barrier, a lower Water Replenishment District Replenishment Assessment for both West Basin and Central Basin pumpers, and increased local water production. This project will recycle approximately 10,000 AFY of treated wastewater effluent, or 10MGD. This project also reduces energy costs for imported water.

)

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 212 West Coast Basin Groundwater Aquifer Protection Project

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

Project Integration

Wyatt Won 310-660-6203 wyattw@westbasin.org

www.westbasin.org

Partnering Agency: Los Angeles County Department

Project Need

This project will provide reliability of the groundwater supplies in the West Coast Basin Groundwater Aquifer. This project proposes to upgrade the existing Barrier with new equipment in order to protect approximately 50,000 AFY of water from seawater intrusion. Because southern California is highly

Project Description

This project will provide reliability of the groundwater supplies in the West Coast Basin Groundwater Aquifer. This project proposes to upgrade the existing Barrier with new equipment in order to protect approximately 50,000 AFY of water from seawater intrusion. Because southern California is highly dependent on imported water supplies, if these supplies were at risk, the constituents within our service area will rely on West Basin MWD to provide adequate amounts of water. To ensure water reliability, West Basin relies on the groundwater aquifer to supply water for its service area. This aquifer needs to be protected from seawater intrusion.

dependent on imported water s service area will rely on West B reliability, West Basin relies on	upplies, if these supplies wasin MWD to provide adec the groundwater aquifer to	vere at risk, the constituent puate amounts of water. To	ensure water
Location Description	<u>Proj</u>	ect Cost Estimate	<u> </u>
Dominguez and Lower Santa Monica Bay	Lower Estimated Tot	al Capital Cost (\$):	5000000
	Upper Estimated Tot	al Capital Cost (\$):	15000000
	,		0
	purchase/easement	(\$):	-
	Annual OM Cost (\$):		100000
	Design Life of Project	ct (years):	40
Project Source(s)		<u>Sub-regi</u>	on(s)
West Basin MWD's 2005 Urban Water Ma	nagement Plan	SO_BAY	
West Basin MWD's 2005 Urban Water Ma	nagement Plan	NA	
NA		NA	
NA			
	dependent on imported water s service area will rely on West B reliability, West Basin relies on aquifer needs to be protected fr Location Description Dominguez and Lower Santa Monica Bay Project Source(s) West Basin MWD's 2005 Urban Water Mar West Basin MWD's 2005 Urban Water Mar NA	Location Description Dominguez and Lower Santa Monica Bay Location Description Dominguez and Lower Santa Monica Bay Lower Estimated Tot Upper Estimated Tot Of total cost, estimate purchase/easement (Annual OM Cost (\$): Design Life of Project Project Source(s) West Basin MWD's 2005 Urban Water Management Plan West Basin MWD's 2005 Urban Water Management Plan NA	Location Description Dominguez and Lower Santa Monica Bay Lower Estimated Total Capital Cost (\$): Upper Estimated Total Capital Cost (\$): Of total cost, estimated cost for land purchase/easement (\$): Annual OM Cost (\$): Design Life of Project (years): Project Source(s) West Basin MWD's 2005 Urban Water Management Plan NA NA NA NA NA NA NA NA NA

Readiness to Proceed					
NA		<u>Item</u>	<u>Status</u>	<u>Date</u>	
		Conceptual Plans	COMP	12/1/2006 0:00	
		Land Acquisition	NA	1/1/1753 12:00:	
		Preliminary Plans	COMP	12/6/2007 0:00	
<u> </u>		CEQA/NEPA	COMP	12/6/2007 0:00	
Proposed Start Date:	1/1/2008	Permits	COMP	12/6/2007 0:00	
Proposed Completion Date:	1/1/2009	Construction Drawings	IN_PROC	1/8/2007 0:00	
Ready For Construction Bid:	1-3 Years	Funding	IN_PROC	1/8/2007 0:00	

Water Quality Objectives		Water Quality Benefits			
Improve Storm Water Quality:	NA	Treatment Technology: NA			
Improve Wastewater Effluent WQ:	NA	Treatment Capacity (MGD): 45			
Receiving Water Body Qual. Improvement:	NA	Targeted Contaminants			
Improved Flood Management:	NA	Metal: FALSE Pathogens: FALSE Nutrients: FALSE			
Ground Water Protection or Improvement:	PRI	Trash: FALSE Pollutants: FALSE Other: FALSE			
Other:		Description: 50,000 AFY protected groundwater supplies			

Water Supply Objectives		Water S	Su
Reduced Reliance Imported Water:	PRI	Surface Water	Sto
Increased Water Supply Reliability:	PRI	GroundwaterT	rea
Increased Operational Flexibility:	PRI	Reclaimed Gro	oun
Increased WaterConservation:	NA	Ocean Desalin	atio
Increased Water Recycling:	NA	Other: NA	
Increased Groundwater Management:	PRI	Type of supply	//de
Reduced Sea Water Intrusion:	PRI	Description:	
Protect/Improve Drinking Water Standards:	PRI		
Other:		Annual Yield o	
Detention and Groundwater Recha	rge Benefit	Average Year:	
		Dry Year:	50
Acres of land that drain into basin: -1		Wat Vaan	E

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives					
Create/Enhance Wetlands: NA					
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: NA					
Increased In-Stream Flow: NA					
Other: NA					

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits						
Surface Water	Storage:	FALSE	Groundwater:	TRUE		
GroundwaterT	reatment:	FALSE	Recycled Water	: FALSE		
Reclaimed Groundwater:		FALSE	Conservation:	FALSE		
Ocean Desalin	Ocean Desalination:		Transfer:	FALSE		
Other: NA						
Type of supply	/demand red	duction:	POT			
Description:						
Annual Yield o	r f Supply (AF	Y) : 50000				
Availability by	water-year t	ype (AFY)				
Average Year:	50000					
Dry Year:	50000					
Wet Year:	50000					
Other:	50000					
Description:	NA					
Availability by	season:					
Summer: FAL	.SE	Spring	FALSE			
Fall: FAL	.SE	Winter	FALSE			
Has potential to displace demands on Bay/Delta/Estuary system:						

Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	0					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	0					
Equestrian Trail Acres	0					
Other Acres	0					
Description: NA						
Total Project Acres:	0					

Other Benefits

This project provides water reliability of the groundwater aquifer; approximately 50,000 AFY protected, or 45 MGD of potable water supplies.

Dominant existing land use type: PUB

Upstream/downstream land use type: NA

NA

Addresses Environmental Justice issues: N
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 221 Carson Regional Water Recycling Pilot Plant

West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746 Marc Serna 310-660-6213 marcs@westbasin.org

www.westbasin.org

Partnering Agency: British Petroleum, County Sanitati

Project Description

This project will test the feasibility of treating the secondary treated wastewater from the Joint Water Pollution Control Plant to high qaulity recycled water standards. Data will be collected on the feasibility of treating the water as well as the treatment process. This Pilot Plant is in preparation for a full-scale 21mdg Plant that will recycle 23,392 acre-feet per year. A Pilot Plant is necessary prior to construction of the full-scale facility in order to ensure the treatment process works properly and the location is feasible to handle the amount of water treated, stored, and used for industrial use. The Pilot Plant's design will be incorporated into the design of the full-scale Recycled Water Facility.

a full-scale 21mdg Plant that will re ensure the treatment process work The Pilot Plant's design will be inco	ks properly and the loc	ation is feasible to ha	andle the	amount of wa	ater treated,			
Project Integra West Basin MWD's Recycled Wate	ation er Master Plan	The proposed project secondary treated wa water standards. Data and reverse osmosis Plant that will recycle the full-scale facility in feasible to handle the will treat 21 gallons posmosis treatment pr	astewater f a will be co treatment 23,392 ac n order to e a amount o er minute	Plant that is ne rom the Joint V illected on the processes. Thi re-feet per yea ensure the trea f water treated	Vater Pollutio feasibility of t is Pilot Plant i r. A Pilot Plar tment proces , stored, and	n Control Plant to reating the water s in preparation for it is necessary properly s works properly used for industria	high quality rusing the mice or a full-scale ior to construct and the location I use. The Pilo	ecycled rofiltration 21mgd ction of on is ot Plant
Cooperating Agencies	Locatio	n Description			Proje	ct Cost Est	imate	
British Petroleum	Dominguez Watersh			Lower Estin		l Capital Cost		50000
anitation District of Los Angele		n Control Plant owner ounty Sanitation Distri				Capital Cost		00000
anitation District of Los Angele City of Los Angeles		ngeles County		Of total cos purchase/e		d cost for land):	0	
Customer Agencies				Annual OM	Cost (\$):		50	0000
Associated Watersheds				Design Life	of Project	(years):	2	
DCW		Project Sour	ce(s)	<u> </u>			-region(s	:)
WB						SO_BAY		-
NA						- NA		
s part of larger program? TRUE					1	NA		
	l	Readiness to F	Proceed	<u>l</u>				
			Lan Prel	L ceptual Plar d Acquisitio iminary Plar	n	Status COMP NA IN_PROC NA	Date 4/1/2007 1/1/1753 5/1/2007 1/1/1753	7 0:00 3 12:00: 7 0:00
Proposed Start	Date: 7/28/	/2007	Peri			NA	1/1/1753	
Proposed Comp		/2009		struction Dr	awings	NOT_INIT	1/1/1753	
Ready For Cons		/ears		ding		NOT_INIT	1/1/1753	3 12:00:
Water Quality	Objectives			W	ater Qua	lity Benefit	<u> </u>	
Improve Storm Water Quality:	N/	A	Treatme	ent Technolo	gy: Mic	crofiltration and	Reverse Os	smosis
Improve Wastewater Effluent WO	Wastewater Effluent WQ: PRI Treatment Capacity (MGD): 30240)				
Receiving Water Body Qual. Imp				d Contamina				
Improved Flood Management:	N/			I: FALSE	_	s: FALSE	Nutrients:	
Ground Water Protection or Imp Other:	rovement: NA	Ą	Tras Descrip	h: FALSE	Pollutant	s: FALSE eat secondary t	Other:	TRUE

Water Supply Objectives					
Reduced Reliance Imported Water:	PRI				
Increased Water Supply Reliability:	PRI				
Increased Operational Flexibility:	PRI				
Increased WaterConservation:	PRI				
Increased Water Recycling: PRI					
Increased Groundwater Management: NA					
Reduced Sea Water Intrusion: NA					
Protect/Improve Drinking Water Standards: NA					
Other:					
Detention and Groundwater Recharge Benefit					

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives					
Create/Enhance Wetlands:	NA				
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space: NA					
Increased In-Stream Flow:	NA				
Other:	NA				

Flood Management Benefit Information

Max Storm Runoff Storage: -1

Max Conveyance Capacity: -1

Flood Protection Level: NA

Acres Benefitting: -1

Other: 0

Estimated Annual Flood Reduction Value: -1

Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water Storage:		FALSE	Groundwater:	FALSE	
GroundwaterTreatment:		FALSE	Recycled Water	: TRUE	
Reclaimed Gro	undwater:	FALSE	Conservation:	TRUE	
Ocean Desalin	Ocean Desalination: FA		Transfer:	FALSE	
Other:					
Type of supply	/demand red	duction:	NONPOT		
Description:					
Annual Yield o	r f Supply (AF	Y): 33.87			
Availability by					
Average Year:					
Dry Year:	33.87				
Wet Year:	33.87				
Other:	33.87				
Description:	NA				
Availability by	season:				
Summer: TRU	JE	Spring	TRUE		
Fall: TRU	JE	Winter	TRUE		
Has potential to displace demands on Y Bay/Delta/Estuary system:					

Beneficial Us	se Benefit	
Non-Treatment Wetland Acres:	0	
Treatment Wetland Acres:	0	
Riparian Habitat Acres:	0	
Open Space Acres:	0	
Multiple Use/Recreation Area		
Single Sport Athletics Acres:	0	
Multiple Sport Athletics Acres:	0	
Other Recreation Acres	0	
Pedestrian Trail Acres	0	
Equestrian Trail Acres	0	
Other Acres	0	
Description:		
Total Project Acres:	0	

Other Benefits

The benefits of the project include reuse of secondary treated wastewater for industrial processes, reduction in discharge to the ocean, and 100% reliability and conservation. Recycled water is an extremely valuable resource because of its reduction of imported water supplies and groundwater supplies. This Pilot Plant is necessary to construct prior to the full-scale facility in order to ensure proper treatment and capacity of the water. The full-scale facility will treat 23,392 acre-feet per year of secondary wastewater. This results in a reduction of imported water supplias from the Bay-Delta

Dominant existing land use type:	IND
Upstream/downstream land use type:	NA

Addresses Environmental Justice issues: N		
Within Disadvantaged Community:	NS	
Disadvantaged Community Participation:	NS	
Organization:		
Organization:		

Project # 225 Provide 100% recycled water to the West Coast Barrier-17.5 mgd

West Basin Munipical Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746 Marc Serna 310-660-6213 marcs@westbasin.org

www.westbasin.org

Other:

Partnering Agency: Water Replenishment District, Los

Project Description

This project is needed to offset imported water and groundwater supplies with the use of recycled water. Increased use of recycled water is needed in this area because of the demands put on imported water and groundwater supplies; and therefore water reliability is the goal of West Basin MWD. The project proposes to provide 100% recycled water for injection into the West Coast Barrier. West Basin MWD currently injects 75% of recycled water and 25% of imported water into the Barrier. This expansion will provide a total of 17,500 AFY of additional supplies.

MWD. The project proposes to prove recycled water and 25% of imported	ride 100% recycled		the West	Coast Barrie	r. West Basir	n MWD curren	tly injects 7	
Project Integrat West Basin MWD's Recycled Wate		This project is neede water. Increased use imported water and g MWD. The project pr Barrier. West Basin N the Barrier. This expa	of recycle roundwate oposes to AWD curre	imported water d water is need r supplies; and provide 100% r ntly injects 75%	led in this area therefore water ecycled water of recycled w	because of the er reliability is the for injection into vater and 25% of	demands put e goal of Wes the West Co f imported wa	on et Basin ast
Cooperating Agencies	Locati	on Description			Projec	t Cost Esti	imate	
Water Replenishment District		Lower Santa Monica I	Вау	Lower Fstir		Capital Cost (000000
eles County Department of Publ						Capital Cost (,	5000000
eles County Department of Publ City of Los Angeles				Of total cos		cost for land	,	
NA				Annual OM	Cost (\$):		1	00000
Associated Watersheds				Design Life	of Project (vears).	4	0
DCW		Project Sour	co(s)	Design Life	, or r roject (-region(s	
SMBW	Project Source(s) West Basin MWD's 2005 Urban Water Management Plan SO_BAY				-region(s	7		
WB		MWD's 2005 Urban V		Ü				
s part of larger program?	West Dasiii	NA	vater iviai	iagement Fia	N/			
TRUE		NA			147			
		Readiness to F	Proceed	<u></u>	•			
NA			Item	1		<u>Status</u>	Date	1
			Con	ceptual Plar	ns	COMP	11/1/200	-
			Land Acquisition			NA	1/1/1753	3 12:00:
			Pre	iminary Plar	ıs	COMP	11/1/200	05 0:00
			CEC	A/NEPA		COMP	11/1/200	06 0:00
Proposed Start I	Date: 1/1	/2009	Peri	nits		COMP	11/1/200	06 0:00
Proposed Comp	letion Date: 1/1	/2011	Con	struction Dr	awings	NOT_INIT	1/1/1753	3 12:00:
Ready For Const	truction Bid: 1-3	Years	Fun	ding		NOT_INIT	1/1/1753	3 12:00:
Water Quality	Water Quality Objectives Water Quality Benefits			<u> </u>				
Improve Storm Water Quality:	1	NA	Treatme	ent Technolo	gy: NA			
Improve Wastewater Effluent WQ	:	SEC	Treatme	nt Capacity	(MGD):	17.5		
Receiving Water Body Qual. Impr	ovement:	NA	Targete	d Contamina	ants			
Improved Flood Management:	1	NA	Meta	I: FALSE	Pathogens	: FALSE	Nutrients:	FALSE
Ground Water Protection or Impr	ovement:	NΑ	Tras	h: FALSE	Pollutants		Other:	FALSE

Description:

NA

Water Supply Objectives					
Reduced Reliance Imported Water:	PRI				
Increased Water Supply Reliability:	PRI				
Increased Operational Flexibility:	PRI				
Increased WaterConservation:	SEC				
Increased Water Recycling: PRI					
Increased Groundwater Management: NA					
Reduced Sea Water Intrusion: NA					
Protect/Improve Drinking Water Standards: NA					
Other:					

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives					
Create/Enhance Wetlands:	NA				
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space:	NA				
Increased In-Stream Flow:	NA				
Other:	NA				

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water St	orage:	FALSE	Groun	dwater:	FALSE
GroundwaterTre	GroundwaterTreatment: FALSE		Recyc	led Water:	TRUE
Reclaimed Groundwater: FALS		FALSE	Conse	ervation:	FALSE
Ocean Desalinati	Ocean Desalination: FALSE		Trans	fer:	FALSE
Other: NA					
Type of supply/d	emand red	duction:	NONPOT	Г	
Description:					
Annual Yield of S	Supply (AF	Y) : 17500			
Availability by wa	ater-year ty	pe (AFY)			
Average Year: 1	7500				
Dry Year: 1	7500				
Wet Year: 1	7500				
Other: 1	7500				
Description:	NA				
Availability by se	ason:				
Summer: TRUE		Spring	TRUE		
Fall: TRUE		Winter	TRUE		
Has potential to o Bay/Delta/Estuar	•	emands on	Υ		

Beneficial Use Benefit						
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	0					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	0					
Equestrian Trail Acres	0					
Other Acres	0					
Description: NA						
Total Project Acres:	0					

Other Benefits

This project provides multiple benefits including: increased water reliability, diversion of wastewater discharge to ocean, imported water and groundwater savings, and increased local production. This project will recycle an additional 17,500 AFY of treated wastewater effluent. If the recycled water weren't used, West Basin would continue to take 17,500 AFY of imported water to inject into the Barrier to halt seawater intrusion.

Dominant existing land use type:	PUB
Upstream/downstream land use type:	NA
NA	
r	

Addresses Environmental Justice issues:

Within Disadvantaged Community:

NS

Disadvantaged Community Participation:

NS

Organization:

NA

Project # 259 Catch Basin Labels

City of LA NA NA NA 555-555-5555 NA

NA

Partnering Agency:									
Project Description The project labels catch basins throughout the City of LA. Approximately 11,500 in Ballona Creek.									
Project Integra	ition				Proi	ect Need	1		
NA <u></u>	<u></u>	NA			<u> </u>		-		
Cooperating Agencies		n Description				Proje	ect Cost Est	timate	
NA	Various location	ns within the City of La	A.				al Capital Cost		
NA NA							al Capital Cost ed cost for land	 	
NA						asement (\$		u⁄	1
NA				Annu	al OM	Cost (\$):		-1	1
Associated Watersheds NA				Design Life of Project (years): -1					
NA NA		Project Sour					<u>)</u>		
NA		reek Watershed Mana reek Watershed Mana				REGIONAL NA			
<u>Is part of larger program?</u> FALSE	Balloria Ci	NA NA	NA						
FALSE	NA								
		Readiness to F	roceed	<u> </u>					
NA			<u>ltem</u>				<u>Status</u>	Date	1
				•	al Plar		COMP	1/1/2001	
			Land Acquisition Preliminary Plans				NOT_INIT 1/1/2001 0:00 COMP 1/1/2001 0:00		
				A/NEI	-	13	COMP	1/1/2001	
Proposed Start			Pern	nits			NOT_INIT 1/1/2001 0:00		1 0:00
	Proposed Completion Date: 1/1/2001		Construction Drawings			COMP 1/1/2001 0:00			
Ready For Cons	struction Bid: N/A		Fund	ding			NOT_INIT	1/1/2001	1 0:00
Water Quality	<u>Objectives</u>				W	later Qua	ality Benefit	t <u>s</u>	
Improve Storm Water Quality:	N/		Treatme						
Improve Wastewater Effluent WC			Treatme		-	-	0		
Receiving Water Body Qual. Imp Improved Flood Management:	rovement: NA NA		Targetee Meta	<u>l Con</u> I: FA			ns: FALSE	Nutrients:	FΔISE
Ground Water Protection or Imp				n: FA		Pollutant		Other:	FALSE
Other: NA			Descript		NA				

Water Supply Objectives				
Reduced Reliance Imported Water:	NA			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	NA			
Increased WaterConservation: NA				
Increased Water Recycling: NA				
Increased Groundwater Management: NA				
Reduced Sea Water Intrusion: NA				
Protect/Improve Drinking Water Standards: NA				
Other: NA				

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives					
Create/Enhance Wetlands:	NA				
Restore/Protect Habitat:	NA				
Create Public Access/Rec/Open Space:	NA				
Increased In-Stream Flow:	NA				
Other:	NA				
NA					

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits					
Surface Water	Storage:	FALSE	Groundwater:	FALSE	
GroundwaterT	reatment:	FALSE	Recycled Water	: FALSE	
Reclaimed Groundwater:		FALSE	Conservation:	FALSE	
Ocean Desalin	ation:	FALSE	Transfer:	FALSE	
Other: NA					
Type of supply	/demand red	duction:	NA		
Description:	NA				
Annual Yield o	f Supply (AF	Y) : 0			
Availability by	water-year ty	ype (AFY)			
Average Year:	0				
Dry Year:	0				
Wet Year:	0				
Other:	0				
Description:	NA				
Availability by	season:				
Summer: FAL	.SE	Spring	FALSE		
Fall: FAL	.SE	Winter	FALSE		
Has potential to displace demands on Bay/Delta/Estuary system:					

Beneficial Us	Beneficial Use Benefit					
Non-Treatment Wetland Acres:	0					
Treatment Wetland Acres:	0					
Riparian Habitat Acres:	0					
Open Space Acres:	0					
Multiple Use/Recreation Area						
Single Sport Athletics Acres:	0					
Multiple Sport Athletics Acres:	0					
Other Recreation Acres	0					
Pedestrian Trail Acres	0					
Equestrian Trail Acres	0					
Other Acres	0					
Description: Water Quality						
Total Project Acres:	0					

Other Benefits
NA

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA

Project # 260 Catch Basin Screens and Inserts

City of LA NA NA 555-555-5555 NA

NΑ

Partnering Agency:									
Project Description									
This is an ongoing effort by the City	y of LA that upon comp	oletion will have insta	lled 10,00	00 scre	ens ar	nd inserts.			
Project Integra	<u>ition</u>	NA		<u> </u>	<u>Proje</u>	ect Need	<u>i</u>		
IVA		147							
		5						• .	
Cooperating Agencies NA		n Description within the Ballona Cre	eek	Laware	. Fatin		ect Cost Est al Capital Cost		,
NA NA	Wa	atershed					al Capital Cost		
NA				Of tota	al cos	t, estimate	ed cost for land		1
NA				•		asement (\$):		
NA NA		Annual OM Cost (\$)						-1	
Associated Watersheds NA	Design Life of Project (years): -1								
NA	Pollono Cr	Project Sour		Olon (2)	004)		Sub-region(s) REGIONAL		
NA		Ballona Creek Watershed Management Plan (2004) Ballona Creek Watershed Management Plan (2004)				NA			
Is part of larger program? FALSE		NA				NA			
FALSE		NA							
		Readiness to P	roceed						
NA			Item				<u>Status</u>	Date	1
				ceptua	ıl Plan	ıs	COMP	1/1/2001	
				l Acqu			NOT_INIT	1/1/2001	
				minary		ıs	COMP	1/1/2001	
Proposed Start	Date: 1/1/2	000	CEQ Pern	A/NEP	Ά		COMP NOT_INIT	1/1/2001 1/1/2001	
Proposed Comp					on Dra	awings	COMP	1/1/2001	
Ready For Cons			Fund			Ū	NOT_INIT	1/1/2001	
Water Quality	Objectives				\^/	ater O	ality Benefit	·e	
Improve Storm Water Quality:	NA	\	Treatme	nt Tec				<u>.3</u>	
Improve Wastewater Effluent WC			Treatme			5,	0		
Receiving Water Body Qual. Imp			Targeted			<u>ints</u>			
Improved Flood Management:	NA NA			l: FAL		Pathoge		Nutrients:	
Ground Water Protection or Impr Other: NA	rovement: NA	A	Trash Descript	n: FAL	LSE NA	Pollutan	ts: FALSE	Other:	FALSE
Outer. IVA			peacribe	.JII.	14/7				

Water Supply Objectives				
Reduced Reliance Imported Water:	NA			
Increased Water Supply Reliability:	NA			
Increased Operational Flexibility:	NA			
Increased WaterConservation: NA				
Increased Water Recycling: NA				
Increased Groundwater Management: NA				
Reduced Sea Water Intrusion: NA				
Protect/Improve Drinking Water Standards: NA				
Other: NA				

Acres of land that drain into basin:

Detention Basin Area (acres):

Max Operational Depth (ft):

Wetlands

SoilType

NA

Method and Recharge (AFY):

Estimated Annual Inflow (AFY):

-1

Estimated Annual Outflow (AFY):

-1

Beneficial Use Objectives	
Create/Enhance Wetlands:	NA
Restore/Protect Habitat:	NA
Create Public Access/Rec/Open Space:	NA
Increased In-Stream Flow:	NA
Other:	NA
NA	

Flood Management Benefit Information Max Storm Runoff Storage: -1 Max Conveyance Capacity: -1 Flood Protection Level: NA Acres Benefitting: -1 Other: 0 Estimated Annual Flood Reduction Value: -1 Acreage Required for Implementation: -1

Water Supply/Demand Reduction Benefits				
Surface Water Storage:	FALSE	Groundwater:	FALSE	
GroundwaterTreatment:	FALSE	Recycled Water	: FALSE	
Reclaimed Groundwater	r: FALSE	Conservation:	FALSE	
Ocean Desalination:	FALSE	Transfer:	FALSE	
Other: NA				
Type of supply/demand reduction: NA				
Description: NA				
Annual Yield of Supply (AFY):				
Availability by water-year type (AFY)				
Average Year: 0				
Dry Year: 0				
Wet Year: 0				
Other: 0				
Description: NA				
Availability by season:				
Summer: FALSE	Spring	FALSE		
Fall: FALSE	Winter	FALSE		
Has potential to displace demands on Bay/Delta/Estuary system:				

Beneficial Use Benefit			
Non-Treatment Wetland Acres:	0		
Treatment Wetland Acres:	0		
Riparian Habitat Acres:	0		
Open Space Acres:	0		
Multiple Use/Recreation Area			
Single Sport Athletics Acres:	0		
Multiple Sport Athletics Acres:	0		
Other Recreation Acres	0		
Pedestrian Trail Acres	0		
Equestrian Trail Acres	0		
Other Acres	0		
Description: Water Quality			
	_		
Total Project Acres:	0		

Other Benefits
NA

Dominant existing land use type:	NA
NA	
Upstream/downstream land use type:	NA
NA	
'	

Addresses Environmental Justice issues: NS
Within Disadvantaged Community: NS
Disadvantaged Community Participation: NS
Organization: NA