AGENDA

CITY OF RANCHO PALOS VERDES
NOTICE OF MEETING OF THE STORM DRAIN OVERSIGHT COMMITTEE
MAY 9, 2012
7:00 PM
CITY HALL COMMUNITY ROOM, 30940 HAWTHORNE BOULEVARD, RANCHO PALOS VERDES

CALL TO ORDER

1. Flag Salute.

2. Roll Call. (Chair Wedemeyer)

3. Approval of Agenda. (Chair Wedemeyer)

4. Proposed Rules of Procedure and City Council and Commission/Committee Protocol. (Wedemeyer and Mayor Misetich)

5. Approval of the Minutes of the meeting conducted on April 10, 2012. (Chair Wedemeyer)

6. Water Quality and Flood Protection Program – Update, including draft FY12-13 budget and draft 5-Year plan. (Staff)

7. Methodology for determining maximum User Fee Rate. (Wedemeyer)

8. Committee/Director Reports.

9. Public Comments regarding Water Quality and Flood Protection Program.

10. Adjournment.

American with Disabilities Act: In compliance with the Americans with Disabilities Act of 1990, if you require a disability-related modification or accommodation to attend or participate in this meeting, including auxiliary aids or services, please call the City Clerk's Office at 310 544-5208 at least 48 hours prior to the meeting.

NOTE: Staff reports are available for inspection at City Hall, 30940 Hawthorne Boulevard during regular business hours, 7:30 A.M. to 5:30 P.M. Monday – Thursday and 7:30 A.M. to 4:30 P.M. on Friday. Materials related to an item on this Agenda submitted to the Committee after distribution of the agenda packet are available for public inspection in the Finance Department at 30940 Hawthorne Boulevard, Rancho Palos Verdes during regular business hours.

Written materials, including emails, submitted to the City are public records and may be posted on the City's website. Accordingly, you may wish to omit personal information from your oral presentation or written materials as it may become part of the public record regarding an agendized item.

Materials related to an item on this Agenda submitted to the Oversight Committee after distribution of the agenda packet are available for public inspection at the front counter of the lobby of the City Hall Administration Building at 30940 Hawthorne Boulevard, Rancho Palos Verdes during normal business hours.

You can also view the agenda and staff reports at the City's website www.palosverdes.com/RPV.

CITY OF RANCHO PALOS VERDES

MEMORANDUM

TO: **HONORABLE CHAIR AND MEMBERS OF THE OVERSIGHT COMMITTEE FOR THE WATER QUALITY AND FLOOD PROTECTION PROGRAM**

FROM: **TOM ODOM, DIRECTOR OF PUBLIC WORKS**
DENNIS McLEAN, DIRECTOR OF FINANCE AND INFORMATION TECHNOLOGY

DATE: **MAY 9, 2012**

SUBJECT: **PROPOSED CITY COUNCIL RULES OF PROCEDURE AND COMMITTEE/COMMISSION PROTOCOL**

BACKGROUND

Proposed Rules of Procedure and the Adoption of a City Council and Commission/Committee Protocol

The City Council has been discussing revisions to its Rules of Procedure (Rules) and the adoption of a City Council and Commission/Committee Protocol (Protocol). An ad hoc Council Subcommittee was formed on February 21, 2012 to develop Policy and Procedures protocol. The subcommittee's purpose was to perform a comprehensive review of the Rules and to develop a Protocol (or Code of Conduct for Council Members and Members of City Committees and Commissions).

As members of the City's Commissions and Committees, the City Council invites your input on these important topics. Two (2) public meetings will be held in the coming weeks to receive comments on the Rules and Protocol from the City's Commissions and Committees and from the public. A joint City Council-Planning Commission meeting will be held on Tuesday, May 8, 2012, and a dedicated City Council meeting will be held on Tuesday, May 29, 2012.

On Tuesday, May 8, 2012, the City Council and Planning Commission will meet in a joint session to discuss the Rules and Protocol during that evening's regular Planning Commission meeting. The Planning Commission meets at 7:00 PM at Hesse Park Community Building, 29301 Hawthorne Blvd., Rancho Palos Verdes, CA 90275, in which oral comments at that meeting are welcome. As well, written comments prior to the joint meeting are welcome by sending them to cc@rpv.com and/or pc@rpv.com.

If you are not able to attend the joint meeting on May 8, 2012, and/or do not have written comments prepared by that date, you are still welcome to submit written comments on the Rules and Protocol to cc@rpv.com by 4:00 PM on **Friday, May 11, 2012.** Submittal of your comments by this deadline will provide the Council Rules and Protocol *Ad Hoc* Subcommittee (Mayor Misetich and Councilwoman Brooks) with enough time to review and compile all comments that are submitted prior to the consideration of these matters by the full City Council at the dedicated City Council meeting on May 29, 2012.

On **Tuesday, May 29, 2012**, the City Council will conduct a meeting dedicated to the discussion of the Rules and Protocol. The meeting will be held at 7:00 PM at Hesse Park Community Building, 29301 Hawthorne Blvd., Rancho Palos Verdes, CA 90275. You are welcome to provide oral comments at that meeting, and to submit written comments prior to that meeting by sending them to cc@rpv.com.

To assist you in reviewing and commenting upon the Rules and Protocol, you were sent a series of e-mails on May 2nd with attached documents. These documents included various versions of the Rules and Protocol that have been under consideration, meeting minutes, public correspondence and other information. All of these documents will also be posted on the City's website at the following address:

http://www.palosverdes.com/rpv/citycouncil/City-Council-Rules-of-Procedure.cfm.

If you have difficulty receiving and/or opening any of the attachments to this or any subsequent e-mails, please visit the City's website.

Finally, in order to avoid any potential conflicts with the Brown Act by creating a "serial meeting," we remind you not to use the "Reply All" feature of your e-mail system if you are replying to the email sent to you on May 2nd, or any subsequent messages on this topic. Please reply only to cc@rpv.com and/or pc@rpv.com.

Request to Add to the Agenda of the Oversight Committee - Chair Wedemeyer

Staff discussed Chair Wedemeyer' request to add the proposed Rules and Protocol to the agenda with the City Manager who then discussed the request with Mayor Misetich. Mayor Misetich, and possibly Councilwoman Brooks, will attend the May 9th meeting of the Oversight Committee to provide a brief overview and answer questions. Neither Finance and Information Technology, nor Public Works staff has sufficient knowledge of the matter to participate in any discussion, nor answer any questions.

<u>DRAFT</u> MINUTES

STORM DRAIN OVERSIGHT COMMITTEE MEETING

CITY OF RANCHO PALOS VERDES

April 10, 2012

CALL TO ORDER

At 7:05 P.M. Chair Wedemeyer called the meeting to order at the Community Room at City Hall, 30940 Hawthorne Blvd., for the purpose of conducting business pursuant to the agenda. At the request of Chair Wedemeyer, Senior Engineer Dragoo led the Pledge of Allegiance.

ROLL CALL

Present: Wedemeyer, Lyon, Johnson, Kim, Sala

Absent: none

Also present were Director of Finance and Information Technology McLean, City Attorney Lynch, City Clerk Morreale, Public Works Senior Engineer Dragoo and Public Works Associate Engineer Winje. There was one member of the public in attendance who arrived at approximately 7:15 P.M.

APPROVAL OF THE AGENDA

It was moved by Member Johnson and seconded by Member Lyon to approve the Agenda as published, with the exception of deleting Item 4 (Swearing in of New Oversight Committee Members) because this had been completed prior to the meeting beginning and was no longer necessary. Hearing no objections, Chair Wedemeyer ordered approval of the Agenda as modified. (Approved 5-0)

BROWN ACT & ETHICS OVERVIEW

City Attorney Lynch distributed two publications developed by her office to instruct committee members on the Brown Act and the Public Records Act, respectively. City Attorney Lynch also provided a brief overview of the contents and obligation of these Acts and responded to questions from the committee members.

ACTION: None taken.

ELECTION OF VICE-CHAIR

Chair Wedemeyer introduced the need for a vice-chair for the committee to serve in the absence of the chair and asked for nominations. Member Lyon was nominated by member Johnson, seconded by Chair Wedemeyer and elected without opposition to serve as Vice-Chair of the Committee. (Approved 4-0, Member Lyon abstaining.)

OVERVIEW OF PURPOSE AND SCOPE

Director McLean reviewed the purpose and scope of the Oversight Committee as discussed in Attachment A to the Agenda and provided answers to questions from the members. Chair Wedemeyer asked each of the Committee Members to give a short introduction of themselves and their preferred way of being addressed during the meetings.

ACTION: None taken.

APPROVAL OF MINUTES OF MAY 25, 2011

Director McLean distributed for review draft Minutes for the May 25, 2011 meeting with the Agenda on Thursday, April 5, 2012. Member Lyon motioned and Member Wedemeyer seconded to accept the Minutes. Hearing no objections, Chair Wedemeyer ordered approval of the draft Minutes of the meeting conducted May 25, 2011. (Approved 2-0, Member Johnson, Member Kim and Member Sala all abstaining)

HISTORY OF WATER QUALITY AND FLOOD PROTECTION PROGRAM

Director McLean and Senior Engineer Dragoo made a presentation on the history of the Water Quality and Flood Protection Program and answered questions regarding the program's origin and past activities.

ACTION: None taken.

MID-YEAR REPORT - WATER QUALITY AND FLOOD PROTECTION PROGRAM UPDATE

Director McLean introduced and explained the purpose of the Mid-Year Report. Director McLean introduced Associate Engineer Winje who made a presentation of highlights of the FY 2011-12 program activities. The Committee asked questions to which staff responded and offered comments and suggestions to staff.

ACTION: None taken.

COMMITTEE/DIRECTOR REPORTS

Director McLean informed the Committee that City Council has adopted new Rules of Procedure and expected that they would be agendized for a future meeting.

PUBLIC COMMENTS

There were no comments from the public.

ADJOURNMENT

Member Lyon motioned, seconded by Member Johnson, to adjourn the meeting. Hearing no objection, Chair Wedemeyer ordered the meeting adjourned at 10:17 P.M.

CITY OF RANCHO PALOS VERDES

MEMORANDUM

TO: **HONORABLE CHAIR AND MEMBERS OF THE OVERSIGHT COMMITTEE FOR THE WATER QUALITY AND FLOOD PROTECTION PROGRAM**

FROM: **TOM ODOM, DIRECTOR OF PUBLIC WORKS**
DENNIS McLEAN, DIRECTOR OF FINANCE AND INFORMATION TECHNOLOGY

DATE: **MAY 9, 2012**

SUBJECT: **WATER QUALITY AND FLOOD PROTECTION PROGRAM – DRAFT FY 12-13 BUDGET AND 5-YEAR PLAN**

Project Manager: **Ron Dragoo, Senior Engineer**
Andy Winje, Associate Engineer

BACKGROUND AND DISCUSSION

This report contains a brief update regarding the major projects included in the Water Quality and Flood Protection program including the FY12-13 budget and 5-Year plan, both in draft form.

PROGRAM HIGHLIGHTS

Only two updates are noteworthy since the FY11-12 Midyear Report, dated April 10, 2012 are as follows:

1) City Council awarded a construction contract to Sancon engineering on April 17, 2012 for the 2012 Storm Drain Rehabilitation and Lining Project; and

2) The addition of the Marguerite Open Channel project in FY12-13 and FY23-14.

Both updates are described later in this Report.

San Ramon Canyon (PVDE/PVDS Roadway) Stabilization Project

Final design is now about 98% complete with an expected completion date in May 2012. Regulatory permits are still pending but expected in late spring. Staff expects that

advertising of the project to obtain competitive construction bids will begin in June, with construction tentatively scheduled to begin in late Summer or early Fall.

The project has received a grant in an amount up to $9.46 Million from the State's Department of Water Resources Stormwater Flood Management Grant (Prop 1E) program. The remainder of the funds for the project are yet to be formally identified. The City has received notification that it was not invited to submit a formal application for the FEMA Hazard Mitigation Grant that was being pursued. Staff is still awaiting the decision regarding the TIGER IV grant ($10 million application), which is due in June or July. Staff, the City's advisors and the City Council are pursuing other federal funding opportunities as well as help from local agencies (City of Los Angeles and County of Los Angeles) whose constituents will also receive benefits from the project. No commitments from these other agencies have yet been received.

Please see the City's website to view updates regarding the project at http://www.palosverdes.com/rpv/publicworks/San-Ramon/index.cfm.

Stormwater Master Plan Program

The upgrading of the GIS system and the archiving of data to be available through the GIS system are understood and necessary precursors to a robust GIS-based stormwater tool. A consultant's report provided a list of nine tasks to developing our anticipated end product and staff is working on to complete the first three, which are data collection and assessment, field verification and of inventory, and development of a database storage and reporting system. These efforts will continue into next fiscal year. The final tasks have to do with technical analysis of the system modeled against County standard rainfall events and water quality requirements of the Regional Board, identifying and prioritizing capital projects and reporting and will occur in following years.

Storm Drain Lining

City Council awarded a construction contract to Sancon engineering on April 17, 2012 for the 2012 Storm Drain Rehabilitation and Lining Project. City Council awarded professional service agreements to CDM Consulting, Inc, and John M. Cruikshank Consultants, Inc. for inspection and mapping services, respectively, on May 1, 2012. Once these agreements are executed, notice to proceed (NTP) will be given to the contractor. Staff anticipates the work will be completed about three months after NTP is given.

Staff is beginning to develop a list of pipes to be investigated and potentially lined in FY12-13. These pipes are predominately on the City's west side and will include diameters up to 84 inches.

PVDE/San Pedro Canyon System

Staff has broken this project into two design efforts to allow for concurrent work by distinct consultants. Staff has received 95% level design effort for the Miraleste Plaza Storm Drain

Improvement project and expects similar submittal for the Via Colinita Improvements Project soon. Upon review and finalization of the design documents, the projects will be advertised for competitive bid and, hopefully, awarded and this summer. Staff intends to complete these improvements prior to next year's rainy season.

FY12-13 Draft Budget and 5-Year Plan

Additional budget items for both FY12-13 and the five-year plan are described in the project updates and on the attached spreadsheet entitled Storm Drain Plan through FY16-17.

PROJECT UPDATES

Project Name:	San Ramon Canyon Stabilization Project
Project Area:	Project Area 3
Budgeted Cost (Design & EIR):	$1,514,082
Contract Award (Design & EIR):	$1,342,000
Total/Estimated Costs:	$19.4M (construction costs, partially unfunded)
Percentage Completion:	90% (pre-construction activities only)
Project Description:	
City Council approved the recommended alternative (Tunnel Alignment) in March, 2011, the design of which is now about 95% complete. City Council certified the environmental (CEQA and NEPA) documents and Coastal Development permit on Dec 20, 2011 and applications for regulatory permits have been submitted. Anticipated date to begin construction is dependant on funding; however, construction could begin as early as late Summer to early Fall, 2012. City was awarded a $9.46 Million grant from the State Department of Water Resources for the project. City Staff, its advisors and the City Council are actively pursuing Federal funding opportunities and contributions from City of LA and County of LA.	

Project Name:	Storm Drain Lining
Project Area:	Project Area 12
Budgeted Cost:	$1,146,698 (including $839,617 carryover from FY10-11)
Contract Award:	$1,080,565
Total/Estimated Costs:	$1,080,565
Percentage Completion:	0%
Project Description:	
City Council awarded a $805,000 construction contract to Sancon Engineering on April 17, 2012. Approximately 6,000 linear feet of CMP are included in this year's program. All unlined, City owned corrugated metal pipes not already lined or scheduled for alternate repairs on the east side of the City will be included in this year's program, ranging in diameter from 12 inches to 54 inches. Work includes CCTV investigation, cleaning, lining by CIPP or paved invert methods, point repairs, ancillary facilities, inspection, mapping and documentation exportable to GIS format.	

Project Name:	Catch Basin Filtration Devices
Project Area:	Project Area 12
Budgeted Cost:	$13,756
Contract Award:	$0
Final/Estimated Costs:	TBD
Percentage Completion:	60%
Project Description:	

Retrofitting of catch basins with filtration screens in this area of the City is required by the Regional Board to address the trash problems at Lake Machado in Los Angeles. The City has until 2016 to install screens in the 111 catch basin contributing to this drainage. Sixty eight (68) catch basins have been retrofitted in FY 2010-11 at a cost of about $27,000, a savings of 78% over original estimates. The City's compliance response is about 60%; therefore, ahead of schedule. The remaining basins in this drainage are county owned and will require an MOU for maintenance with Los Angeles County. Installation of these will be performed after an MOU is authorized by both agencies. The remaining 40% of the basins will come at a higher cost due to involvement of LA County and cost for completing their flood permits. The City is partnering with other South Bay Cities to apply for a State Grant (Prop 84) that, if awarded, would cover at least a portion of the costs for the remaining catch basins to be retrofitted. The project was on the short list published April 30, 2012 and a full application will be submitted with City of Torrance in the lead. Work done to date by the City may be counted as the City's "match" allowing a large portion of the remaining basins to be covered by the grant, if awarded. The project will be on hold until it is determined if grant funding will be awarded.

Project Name:	Roan System
Project Area:	Project Area 7
Budgeted Cost:	$242,500
Contract Award:	TBD
Total/Estimated Costs:	$446,728
Percentage Completion:	0%

Project Description:

The Via Colinita portion of this project is being addressed under the San Pedro Canyon Storm Drain project and $50,000 was transferred to that project in FY11-12. The remaining portion is for addressing the physical deficiencies in the Roan road area system

Project Name:	Miscellaneous Repairs & Storm Drain Filtration Maintenance
Project Area:	Project Area 12
Budgeted Cost:	$366,036
Contract Award:	$107,462
Total/Estimated Costs:	TBD
Percentage Completion:	Ongoing/Annual

Project Description:

As a result of this program and the following maintenance activities, the City of Rancho Palos Verdes has not received a single "after–hours" callout to address a rain related emergency during the past four years. The lack of rain this year has resulted in not needing to perform any emergency miscellaneous repairs this year.

- 29 catch basins in the City with filtration devices installed were cleaned in November 2011;
- The City contracts with LA County for annual clearing of City-owned catch basins. The County process is cumbersome and makes financial planning and required reporting difficult. Staff has developed bid documents to engage the use of private contractors for future years if costs can be justified;
- Repaired leaking CMP behind home on Ronsard Road. A new manhole and CIPP liner was installed in an 18-inch CMP line after leaking was detected by a resident. The manhole is needed to provide access to the one-off liner installation that was completed in February, 2012.
- A catch basin on PVDS adjacent to Wayfarer's Chapel was rebuilt.
- Design is completed for a point repair on a 12-inch concrete pipe on Via De Anzar. Field work will begin as soon as access to private property can be obtained.
- Cleaned and video inspected 4,110 linear feet of CMP to date in FY11-12

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Project Name:	Drainage Master Plan Program
Project Area:	Project Area 12
Budgeted Cost:	$697,789
Contract Award:	$0
Total/Estimated Costs:	TBD
Percentage Completion:	5%
Project Description:	
The City is upgrading its GIS platform and PW Staff will continue improving GIS data and best practices to maximize use for stormwater management planning. Many available as-built drawings have been scanned and linked to existing GIS database. Establishing links to inspection video and remaining drawings is underway. Staff engaged RBF Consulting Engineers to develop a planning document to guide our efforts to build a sustainable and useful management tool. Staff anticipates engaging a consultant in late Spring or early Summer to verify existing atlas data in the field, develop data where gaps exist, and build a digital library (database) that is compatible with and transferrable to the City's anticipated GIS platform when it is acquired.	

Project Name:	San Pedro Canyon Storm Drains
Project Area:	Project Area 6
Budgeted Cost:	$570,000 (Re-allocated from Hawthorne Blvd. project)
Contract Award:	$49,900 (to date for design)
Final/Estimated Costs:	TBD
Percentage Completion:	10%
Project Description:	
This project in San Pedro Canyon lies east of PVDE and is crossed several times by residential streets. This project has become a priority due to observed flooding in the area, sediment and debris accumulation in potentially undersized debris basins and degraded pipes and inlet/outlet structures. Staff has engaged a consultant to provide design recommendations to rehabilitate existing facilities, including construction drawings. The project has been broken into two pieces, Miraleste Plaza Storm Drain Improvements and Via Colinita Storm Drain Improvements to facilitate concurrent design and construction. The New County standards for hydrology assumptions suggest upsizing of pipes may be necessary. However, that may have undesirable downstream consequences. Staff is working with consultant to develop solutions to address known or anticipated deficiency issues based on field observations, with a mind to restrict hydromodification (i.e. effects on downstream areas) until a larger study can be performed (as part of the next master plan). Analysis and design work is underway, to be followed by construction of improvements.	

Project Name:	Via Canada Drainage Study & Repair
Project Area:	Project Area 6
Budgeted Cost:	$100,000
Contract Award:	$73,185
Total/Estimated Costs:	$90,700 (design, construction and inspection)
Percentage Completion:	95%
Project Description:	
This project east of PVDE and north of Miraleste Canyon results from observed flooding at the bottom of Via Canada (cul-du-sac) during moderate to heavy rain events. This drain in question is County owned and the flooding issue was brought to their attention 10 years ago. Since no action had been taken, the impacted homeowners have requested the City do something. The hydraulic study and engineering design were completed in Fall 2011. The solution is installation of two new catch basins and connecter pipes to allow more water to enter the subsurface county drain before it reaches the cul-du-sac. Construction began in November 2011 and a Notice of Completion of construction was filed with the County on February 1, 2012. The total cost for engineering, inspection and construction totals about $91,000. The remaining funds from this project will be re-allocated in the program.	

Project Name:	Marguerite Open Channel
Project Area:	Project Area 6
Budgeted Cost:	$400,00
Contract Award:	TBD
Total/Estimated Costs:	TBD
Percentage Completion:	0%
Project Description:	
Staff has become aware of excessive erosion in a portion of open natural drainage channel, which connects two piped systems between PVDW and the bluff. Studies of the issue are scheduled for FY 12-13 with implementation of any recommendations for improvement tentatively scheduled the following year.	

<u>Attachment</u>
Storm Drain Plan through FY16-17

City of Rancho Palos Verdes
Storm Drain Plan through FY16-17

Area		Prior Years' Paid	(A) FY11-12 Budget	(B) FY11-12 Spent or Committed	(Memo only) (A less B) Expected Carryover FY12-13	FY12-13 5YR Model	FY13-14 5YR Model	FY14-15 5YR Model	FY15-16 5YR Model	FY16-17 5YR Model	Total Budgeted Projected By Project	Remaining Projects (Original 38)
	Backbone Projects											
2	McCarrell Canyon	7,487,716									7,487,716	
2	McCarrell Canyon, Tarragon Property Acquisition	1,403,500									1,403,500	
1	Sunnyside Ridge	417,361									417,361	
3	Lower San Ramon Canyon Stabilization	646,507	867,575	693,579	173,996						1,514,082	2,240,000
5	PVDE Miraleste Canyon System	-									-	2,839,637
6	PVDE San Pedro Canyon System	-	570,000	49,900	520,100						570,000	2,438,992
4	Altamira Canyon	-									-	1,750,000
		-									-	
	Pipe Lining	-									-	
12	Phase I	532,000									532,000	
10	Phase II (Monero Storm Drain)	174,723									174,723	
2	PVDS (from Clipper to Seacove)	210,000									210,000	
10	Crest to Crestridge	59,700									59,700	
10	Hawthorne to Silver Arrow	130,000									130,000	
9	Tarapaca Drive	80,000									80,000	
5	Pontevedra Drive	317,792									317,792	
12	Storm Drain Lining, Other	1,155,452	1,146,698	1,101,965	44,733	324,642	329,881	335,278	340,836	347,653	3,980,440	
		-									-	
	Capacity & Secondary System Projects	-									-	
7	~~Via Colinita &~~ Roan System Projects	204,228	242,500		242,500						446,728	
2	Hawthorne Blvd. (closed FY10-11, re-allocated to the San Pedro Canyon Storm Drain Project)	-									-	
9	PVDE Lower Switchbacks	-				485,000					485,000	
6	South Hawthorne/Via Frascati	-						440,000			440,000	
11	Middlecrest Road Project	-									-	139,160
3	PVDS (North of Barkentine)	-					446,000				446,000	
		-									-	
	Filtration Systems	-									-	
12	Catch Basin Filtration Devices	354,734	13,756		13,756	73,000					441,490	
2	30502 PVDW Catch Basin	8,600									8,600	
		-									-	
	Other Projects	-									-	
2	McCarrell Canyon Interim, Barkentine/Seacove	135,000									135,000	
2	McCarrell Canyon Interim, Gabion & Timber Walls	119,213									119,213	
2	Palos Verdes Bay Club Interim Improvements	185,000									185,000	
10	PVDS Salvation Army Outlet	26,000									26,000	
6	Bronco Drive	66,000									66,000	
5	Noble View Canyon	27,000									27,000	
12	Citywide Interim, Other	7,400									7,400	
10	Alida Place Storm Drain Relocation	98,480									98,480	
3	Tarapaca Landslide Study	6,377									6,377	
6	PVDE Engineering Reserve	20,360									20,360	
6	PVDE Inlets	-									-	
10	Mossbank Storm Drain Rehabilitation	245,885									245,885	
4	PVDS @ Altamira Canyon	-									-	
5	Via Canada	17,533	100,000	68,185	31,815						117,533	
6	NEW - Marguerite Open Channel	-				50,000	350,000				400,000	
	Miscellaneous Repairs & Maintenance	-									-	
12	Miscellaneous Repairs	145,470									145,470	
12	Storm Drain/Filtration Maintenance (includes Hawthorne, Montemalaga & Video Inspection/Cleaning)	562,864	366,036	107,286	258,750	222,162	229,727	237,518	245,544	250,455	2,114,306	
	Subtotal Project & Maintenance Costs	**14,844,895**	**3,306,565**	**2,020,915**	**1,285,650**	**1,154,804**	**1,355,608**	**1,012,796**	**586,380**	**598,108**	**22,859,156**	**9,407,789**
12	Purchase of Push Camera	11,813									11,813	
12	Administration (contract/staff engineer)	767,544	146,917	111,196	35,721	153,518	157,080	161,792	166,646	171,645	1,725,142	
12	Drainage Master Plan Program	22,211	697,789		697,789	30,000	30,000	30,000	30,000	30,000	870,000	
12	Storm Water Enterprise Asset Registry	-										
12	Asset Maintenance Management System	-										
12	Hydrologic, Hydraulic & Pollutant Modeling	-										
12	Analysis & Prioritizing of Deficiencies	-										
12	Capital Improvement Programming	-										
	Total Program Costs	**15,646,463**	**4,151,271**	**2,132,111**	**2,019,160**	**1,338,322**	**1,542,688**	**1,204,588**	**783,026**	**799,753**	**25,466,111**	**9,407,789**

Note: This schedule reflects actual costs and does not include depreciation or capitalization of storm drain improvements, which are included in the City's financial statements.