

civil engineering  
structural engineering  
land surveying

**MAJOR STORMWATER MANAGEMENT PLAN  
(MAJOR SWMP)**

**FOR**

**VALLEY CENTER CEMETARY DISTRICT**

**Original Date: June 19, 2014**

**SITE ADDRESS:**

VALLEY CENTER CEMETARY DISTRICT  
28953 MILLER ROAD  
VALLEY CENTER, CA 92082

**PREPARED FOR:**

MS. LOUISE KELLY  
VALLEY CENTER CEMETARY DISTRICT  
PO BOX 645  
VALLEY CENTER, CA 92082

**PREPARED BY:**

WYNN ENGINEERING, INC.  
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(760) 749-8722  
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*The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan have been prepared under the direction of the following Registered Civil Engineer and meet the requirements of Regional Water Quality Control Board Order R9-2007-0001 and subsequent amendments. In addition, this SWMP-Major is based on the County of San Diego SWMP Template dated August 2012.*

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GARY R. WYNN  
PE 43202

DATE



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**SDC PDS RCVD 12-15-14**

**MUP14-029**

**CC14-0092**



**MAJOR STORMWATER MANAGEMENT PLAN  
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The Major Stormwater Management Plan (Major SWMP) must be completed in its entirety and accompany applications to the County for a permit or approval associated with certain types of development projects. To determine whether your project is required to submit a Major or Minor SWMP, please reference the County's Stormwater Intake Form for Development Projects.

Project Name:	Valley Center Cemetery District Major Use Permit
Project Location:	28983 Miller Road, Valley Center, CA 92082
Permit Number (Land Development Projects):	PDS2014-MUP-14-029, PDS2014-ER-14-08-010
Work Authorization Number (CIP Only):	
Applicant:	Luise Kelley – Valley Center Cemetery District
Applicant's Address:	PO Box 645 Valley Center, CA 92082
Plan Prepared By: (leave blank is same as applicant):	Wynn Engineering, Inc.
Preparer's Address:	27315 Valley Center Road Valley Center, CA 92082
Date:	Original: May 28, 2014

The County of San Diego Watershed Protection, Storm Water Management, and Discharge Control Ordinance (WPO) (Ordinance No. 9926) requires all applications for a permit or approval associated with a Land Disturbance Activity to be accompanied by a Storm Water Management Plan (SWMP) (section 67.806.b). The purpose of the SWMP is to describe how the project will minimize the short and long-term impacts on receiving water quality. Projects that meet the criteria for a priority development project are required to prepare a Major SWMP.

Since the SWMP is a living document, revisions may be necessary during various stages of approval by the County. Please provide the approval information requested below.

<b>Project Stages</b>	<b>Does the SWMP need revisions?</b>		<b>If YES, Provide Revision Date</b>
	<b>YES</b>	<b>NO</b>	
Major Use Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Instructions for a Major SWMP can be downloaded at  
<http://www.sdcountry.ca.gov/dpw/watersheds/susmp/susmp.html>

Completion of the following checklists and attachments will fulfill the requirements of a Major SWMP for the project listed above.

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**STEP 1**

**PRIORITY DEVELOPMENT PROJECT DETERMINATION**

**TABLE 1: IS THE PROJECT IN ANY OF THESE CATEGORIES?**

Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>A</b>	<b>Housing subdivisions of 10 or more dwelling units.</b> Examples: single-family homes, multi-family homes, condominiums, and apartments.
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>B</b>	<b>Commercial – greater than one acre.</b> Any development other than heavy industry or residential. Examples: hospitals; laboratories and other medical facilities; educational institutions; recreational facilities; municipal facilities; commercial nurseries; multi-apartment buildings; car wash facilities; mini-malls and other business complexes; shopping malls; hotels; office buildings; public warehouses; automotive dealerships; airfields; and other light industrial facilities.
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>C</b>	<b>Heavy industry—greater than one acre.</b> Examples: manufacturing plants, food processing plants, metal working facilities, printing plants, and fleet storage areas (bus, truck, etc.).
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>D</b>	<b>Automotive repair shops.</b> A facility categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539.
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>E</b>	<b>Restaurants.</b> Any facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC code 5812), where the land area for development is greater than 5,000 square feet. Restaurants where land development is less than 5,000 square feet shall meet all SUSMP requirements except for structural treatment BMP and numeric sizing criteria requirements and hydromodification requirements.
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>F</b>	<b>Hillside development greater than 5,000 square feet.</b> Any development that creates 5,000 square feet of impervious surface and is located in an area with known erosive soil conditions, where the development will grade on any natural slope that is twenty five percent or greater.
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>G</b>	<b>Environmentally Sensitive Areas (ESAs).</b> All development located within or directly adjacent to or discharging directly to an ESA (where discharges from the development or redevelopment will enter receiving waters within the ESA), which either creates 2,500 square feet of impervious surface on a proposed project site or increases the area of imperviousness of a proposed project site to 10% or more of its naturally occurring condition. "Directly adjacent" means situated within 200 feet of the ESA. "Discharging directly to" means outflow from a drainage conveyance system that is composed entirely of flows from the subject development or redevelopment site, and not commingled with flows from adjacent lands.
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>H</b>	<b>Parking lots 5,000 square feet or more or with 15 or more parking spaces and potentially exposed to urban runoff.</b>
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<b>I</b>	<b>Street, roads, highways, and freeways.</b> Any paved surface that is 5,000 square feet or greater used for the transportation of automobiles, trucks, motorcycles, and other vehicles.
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<b>J</b>	<b>Retail Gasoline Outlets (RGOs)</b> that are: (a) 5,000 square feet or more or (b) a projected Average Daily Traffic (ADT) of 100 or more vehicles per day.

To use the table, review each definition A through K. If any of the definitions match, the project is a Priority Development Project. Note some thresholds are defined by square footage of impervious area created; others by the total area of the development. Please see special requirements for previously developed sites and project exemptions on page 6 of the County SUSMP.

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**STEP 2**

**PROJECT STORMWATER QUALITY DETERMINATION**

Total Project Site Area: 131,107 FT<sup>2</sup>

Estimated amount of disturbed acreage: 15,064 or FT<sup>2</sup>

(If > 1 acre, you must also provide a WDID number from the State Water Resource Control Board 30 days prior to commencing construction activities)

Complete A through C and the calculations below to determine the amount of impervious surface on your project before and after construction.

A. Total size of project site: 131,107 FT<sup>2</sup>

B. Total impervious area (including roof tops) before construction 24,285 FT<sup>2</sup>

C. Total impervious area (including roof tops) after construction 27,340 FT<sup>2</sup>

Calculate percent impervious before construction:  $B / A = 19 \%$

Calculate percent impervious after construction:  $C / A = 21 \%$

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Please provide detailed descriptions regarding the following questions:

<b>1.</b>	<b>Please provide a brief description of the project</b>
<i>This project proposes to process a Major Use Permit to increase the cemetery interment area, revise the on-site access driveway, upgrade the septic system and construct a new 800 sq. ft. office building.</i>	
<b>2.</b>	<b>Describe the current and proposed zoning and land use designation.</b>
<i>The current and proposed zone and land use is consistent with an existing and future cemetery.</i>	
<b>3.</b>	<b>Describe the pre-project and post-project topography of the project (Show on Plan).</b>
<i>The project site is currently relatively flat and will remain this way.</i>	
<b>4.</b>	<b>Describe the soil classification, permeability, erodibility, and depth of groundwater for LID and Treatment BMP consideration (Show on Plan), If infiltration BMPs are proposed, a Geotechnical Engineer must certify infiltration BMPs in Attachment E.</b>
<i>The project site has been determined to have a Hydrologic Soil Group Designation of 'C' per the County of San Diego Hydrology Manual Soil Hydrologic Group Map (2007).</i>	
<b>5.</b>	<b>Describe if contaminated or hazardous soils are within the project area (Show on Plan).</b>
<i>There are no known or anticipated contaminated or hazardous soils within the project area.</i>	
<b>6.</b>	<b>Describe the existing site drainage and natural hydrologic features (Show on Plan).</b>
<i>The existing and proposed site conditions will sheet flow.</i>	
<b>7.</b>	<b>Describe site features and conditions that constrain, or provide opportunities for stormwater control, such as LID features.</b>
<i>The cemetery is vegetated in all areas except the driveway and office building areas. This vegetation will assist in meeting LID concerns.</i>	
<b>8.</b>	<b>Is this project within the environmentally sensitive areas as defined on the maps in Appendix A of the County of San Diego Standard Urban Storm Water Mitigation Plan for Land Development and Public Improvement Projects?</b>
<b>YES</b> <input type="checkbox"/> <span style="margin-left: 200px;"><b>NO</b> <input checked="" type="checkbox"/></span>	
<b>9.</b>	<b>Is this an emergency project?</b>
<b>YES</b> <input type="checkbox"/> <span style="margin-left: 200px;"><b>NO</b> <input checked="" type="checkbox"/></span>	

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**CHANNELS & DRAINAGES**

Complete the following checklist to determine if the project includes work in channels.

**TABLE 3: PROJECT SPECIFIC STORMWATER ANALYSIS**

No.	CRITERIA	YES	NO	N/A	COMMENTS
1.	Will the project include work in channels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If YES go to 2 If NO go to 13.
2.	Will the project increase velocity or volume of downstream flow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES go to 6.
3.	Will the project discharge to unlined channels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES go to 6.
4.	Will the project increase potential sediment load of downstream flow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES go to 6.
5.	Will the project encroach, cross, realign, or cause other hydraulic changes to a stream that may affect downstream channel stability?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES go to 8.
6.	Review channel lining materials and design for stream bank erosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 7.
7.	Consider channel erosion control measures within the project limits as well as downstream. Consider scour velocity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 8.
8.	Include, where appropriate, energy dissipation devices at culverts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 9.
9.	Ensure all transitions between culvert outlets/headwalls/wingwalls and channels are smooth to reduce turbulence and scour.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 10.
10.	Include, if appropriate, detention facilities to reduce peak discharges.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 11.
11.	'Hardening' natural downstream areas to prevent erosion is not an acceptable technique for protecting channel slopes, unless pre-development conditions are determined to be so erosive that hardening would be required even in the absence of the proposed development.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 12.
12.	Provide other design principles that are comparable and equally effective.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Continue to 13.
13.	End				

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**TEMPORARY CONSTRUCTION BMPs**

Please check the construction BMPs that may be implemented during construction of the project. The applicant will be responsible for the placement and maintenance of the BMPs incorporated into the final project design.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Silt Fence                            | <input type="checkbox"/> Desilting Basin                           |
| <input checked="" type="checkbox"/> Fiber Rolls                           | <input checked="" type="checkbox"/> Gravel Bag Berm                |
| <input checked="" type="checkbox"/> Street Sweeping and Vacuuming         | <input type="checkbox"/> Sandbag Berm                              |
| <input type="checkbox"/> Storm Drain Inlet Protection                     | <input checked="" type="checkbox"/> Material Delivery and Storage  |
| <input checked="" type="checkbox"/> Stockpile Management                  | <input checked="" type="checkbox"/> Spill Prevention and Control   |
| <input checked="" type="checkbox"/> Solid Waste Management                | <input checked="" type="checkbox"/> Concrete Waste Management      |
| <input checked="" type="checkbox"/> Stabilized Construction Entrance/Exit | <input checked="" type="checkbox"/> Water Conservation Practices   |
| <input type="checkbox"/> Dewatering Operations                            | <input checked="" type="checkbox"/> Paving and Grinding Operations |
| <input type="checkbox"/> Vehicle and Equipment Maintenance                |  |
- Any minor slopes created incidental to construction and not subject to a major or minor grading permit shall be protected by covering with plastic or tarp prior to a rain event, and shall have vegetative cover reestablished within 180 days of completion of the slope and prior to final building approval.

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**EXCEPTIONAL THREAT TO WATER QUALITY DETERMINATION**

Complete the checklist below to determine if a proposed project will pose an “exceptional threat to water quality,” and therefore require Advanced Treatment Best Management Practices during the construction phase.

**TABLE 4: EXCEPTIONAL THREAT TO WATER QUALITY DETERMINATION**

No.	CRITERIA	YES	NO	N/A	COMMENTS
1.	Is all or part of the proposed project site within 200 feet of waters named on the Clean Water Act (CWA) Section 303(d) list of Water Quality Limited Segments as impaired for sedimentation and/or turbidity? Current 303d list may be obtained from the following site: <a href="http://www.waterboards.ca.gov/water_issues/programs/tmdl/2010state_ir_reports/category5_report.shtml">http://www.waterboards.ca.gov/water_issues/programs/tmdl/2010state_ir_reports/category5_report.shtml</a>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If YES, continue to 2. If NO, go to 5.
2.	Will the project disturb more than 5 acres, including all phases of the development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES, continue to 3. If NO, go to 5.
3.	Will the project disturb slopes that are steeper than 4:1 (horizontal:vertical) with at least 10 feet of relief, and that drain toward the 303(d) listed receiving water for sedimentation and/or turbidity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES, continue to 4. If NO, go to 5.
4.	Will the project disturb soils with a predominance of USDA-NRCS Erosion factors $k_f$ greater than or equal to 0.4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If YES, continue to 6. If NO, go to 5.
5.	Project is not required to use Advanced Treatment BMPs.	<input checked="" type="checkbox"/>			Document for Project Files by referencing this checklist.
6.	Project poses an “exceptional threat to water quality” and is required to use Advanced Treatment BMPs.	<input type="checkbox"/>			Advanced Treatment BMPs must be consistent with WPO section 67.811(b)(20)(D) performance criteria

**Exemption potentially available for projects that require advanced treatment:** Project proponent may perform a Revised Universal Soil Loss Equation, Version 2 (RUSLE 2), Modified Universal Soil Loss Equation (MUSLE), or similar analysis that shows to the County official's satisfaction that advanced treatment is not required.

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**STEP 3**

**HYDROMODIFICATION DETERMINATION**

The following questions provide a guide to collecting information relevant to hydromodification management plan (HMP) issues. If the project is exempt from the HMP criteria, please provide supporting documentation in Attachment H.

	<b>QUESTIONS</b>	<b>YES</b>	<b>NO</b>	<b>INFORMATION</b>
1.	Will the project reduce the pre-project impervious area <b>AND</b> are the unmitigated post-project outflows (outflows without detention routing) to each outlet location less as compared to the pre-project condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If NO, continue to 2. If YES, go to 7.
2.	Would the project site discharge runoff directly to an exempt receiving water, such as the Pacific Ocean, San Diego Bay, and exempt reservoir, or a tidally-influenced area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If NO, continue to 3. If YES, go to 7.
3.	Would the project site discharge to a stabilized conveyance system, which has the capacity under ultimate Q10, and extends to the Pacific Ocean, San Diego Bay, a tidally-influenced area, an exempt river reach or reservoir?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If NO, continue to 4. If YES, go to 7.
4.	Does the contributing watershed area to which the project discharges have an impervious area percentage greater than 70 percent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If NO, continue to 5. If YES, go to 7.
5.	Is this an urban infill project which discharges to an existing hardened or rehabilitated conveyance system that extends beyond the 'Low' susceptibility to erosion as defined in the SCCWRP channel assessment tool?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If NO, continue to 6. If YES, go to 7.
6.	Project is required to manage hydromodification impacts.	<input checked="" type="checkbox"/>		Reference Appendix G 'Hydromodification Management Plan' of the County SUSMP
7.	Project is not required to manage hydromodification impacts.	<input type="checkbox"/>		Hydromodification Exempt. Keep on file.

Reference the County SUSMP 'HMP Applicability Requirements' in Chapter 1 for further discussion of the questions presented in Table 5. The County SUSMP is located at <http://www.sdcountry.ca.gov/dpw/watersheds/susmp/susmp.html>

**An exemption is potentially available for projects that are required (No. 5. in Table 5 above) to manage hydromodification impacts:** The project proponent may conduct an independent geomorphic study to determine the project's full hydromodification impact. The study must incorporate sediment transport modeling across the range of geomorphically-significant flows and demonstrate to the County's satisfaction that the project flows and sediment reductions will not detrimentally affect the receiving water to qualify for the exemption.

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**PROJECT HYDROMODIFICATION STATEMENT**

Based on the project's responses in the table above, the project is required to perform hydromodification. Please refer to Attachment H for the project specific HMP calculations and details and Attachment B for the Drainage Management Area Exhibit. In addition, since HMP is required, Attachment J will not be applicable to this SWMP.

**STEP 4**

**POLLUTANTS OF CONCERN DETERMINATION**

**WATERSHED\*\***

Please check the watershed(s) for the project.

<input type="checkbox"/> San Juan 901	<input type="checkbox"/> Santa Margarita 902	<input checked="" type="checkbox"/> San Luis Rey 903	<input type="checkbox"/> Carlsbad 904
<input type="checkbox"/> San Dieguito 905	<input type="checkbox"/> Penasquitos 906	<input type="checkbox"/> San Diego 907	<input type="checkbox"/> Sweetwater 909
<input type="checkbox"/> Otay 910	<input type="checkbox"/> Tijuana 911	<input type="checkbox"/> Whitewater 719*	<input type="checkbox"/> Clark 720*
<input type="checkbox"/> West Salton 721*	<input type="checkbox"/> Anza Borrego 722*	<input type="checkbox"/> Imperial 723*	

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

\*Projects located fully within these watersheds require only Minor SWMPs.

\*\*A copy of the Region 9 Basin Plan with the project's approximate location on it is provided in Appendix K for reference.

**HYDROLOGIC NUMBER(S) AND SUB-AREA NAME(S)**

Basin Number	Sub-Area Name
903.12	San Luis Rey HU, Lower San Luis HA, Bonsall HSA

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

**RECEIVING WATERS** that each project discharge point proposes to discharge to.

SURFACE WATERS (river, creek, stream, etc.)	Hydrologic Unit Basin Number	Impairment(s) listed [303(d) listed waters or waters with established TMDLs ]. List the impairments identified in <b>Table 7</b> .	Distance to Project
Keys Creek	903.12	Benthic Community Effects, Nitrogen, Phosphorus, Selenium	+/- 12 mi

[http://www.waterboards.ca.gov/water\\_issues/programs/tmdl/docs/303dlists2006/epa/r9\\_06\\_303d\\_rectmdls.pdf](http://www.waterboards.ca.gov/water_issues/programs/tmdl/docs/303dlists2006/epa/r9_06_303d_rectmdls.pdf)

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**INLAND SURFACE WATERS**

Inland Surface Waters	Hydrologic Unit Basin Number	MUN	AGR	IND	PROC	GWR	FRESH	POW	REC1	REC2	BIOL	WARM	COLD	WILD	RARE	SPWN
Keys Creek	903.12	+	•	•					•	•		•		•		

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

+ Excepted from Municipal      • Existing Beneficial Use      ○ Potential Beneficial Use

**COASTAL WATERS**

Coastal Waters	Hydrologic Unit Basin Number	IND	NAV	REC1	REC2	COMM	BIOL	EST	WILD	RARE	MAR	AQUA	MIGR	SPWN	WARM	SHELL
n/a																

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

+ Excepted from Municipal      • Existing Beneficial Use      ○ Potential Beneficial Use

**RESERVOIRS & LAKES**

Reservoirs & Lakes	Hydrologic Unit Basin Number	MUN	AGR	IND	PROC	GWR	FRSH	REC1	REC2	WARM	COLD	WILD	RARE	POW
n/a														

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

+ Excepted from Municipal      • Existing Beneficial Use      ○ Potential Beneficial Use

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**GROUND WATERS**

Ground Waters	Hydrologic Unit Basin Number	MUN	AGR	IND	PROC	GWR	FRESH	POW
n/a								

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

+ Excepted from Municipal      ● Existing Beneficial Use      ○ Potential Beneficial Use

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**PROJECT ANTICIPATED AND POTENTIAL POLLUTANTS**

Using Table 6, identify pollutants that are anticipated to be generated from the proposed priority project categories. Pollutants associated with any hazardous material sites that have been remediated or are not threatened by the proposed project are not considered a pollutant of concern.

**TABLE 6: ANTICIPATED AND POTENTIAL POLLUTANTS GENERATED BY LAND USE TYPE**

<b>PDP Categories</b>	<b>General Pollutant Categories</b>								
	<b>Sediment</b>	<b>Nutrients</b>	<b>Heavy Metals</b>	<b>Organic Compounds</b>	<b>Trash &amp; Debris</b>	<b>Oxygen Demanding Substances</b>	<b>Oil &amp; Grease</b>	<b>Bacteria &amp; Viruses</b>	<b>Pesticides</b>
Detached Residential Development	X	X			X	X	X	X	X
Attached Residential Development	X	X			X	P <sup>(1)</sup>	P <sup>(2)</sup>	P	X
<b>Commercial Development 1 acre or greater</b>	<b>P<sup>(1)</sup></b>	<b>P<sup>(1)</sup></b>		<b>P<sup>(2)</sup></b>	<b>X</b>	<b>P<sup>(5)</sup></b>	<b>X</b>	<b>P<sup>(3)</sup></b>	<b>P<sup>(6)</sup></b>
Heavy Industry/ Industrial Development	X		X	X	X	X	X		
Automotive Repair Shops			X	X <sup>(4) (5)</sup>	X		X		
Restaurants					X	X	X	X	
Hillside Development >5,000 ft <sup>2</sup>	X	X			X	X	X		X
Parking Lots	P <sup>(1)</sup>	P <sup>(1)</sup>	X		X	P <sup>(1)</sup>	X		P <sup>(1)</sup>
Retail Gasoline Outlets			X	X	X	X	X		
Streets, Highways, & Freeways	X	P <sup>(1)</sup>	X	X <sup>(4)</sup>	X	P <sup>(3)</sup>	X		

X = Anticipated

P = Potential

(1) A potential pollutant if landscaping exists on-site.

(2) A potential pollutant if the project includes uncovered parking areas.

(3) A potential pollutant if land use involves food or animal waste products.

(4) Including petroleum hydrocarbons.

(5) Including solvents.

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**PROJECT POLLUTANTS OF CONCERN SUMMARY TABLE**

Please summarize the identified project pollutant of concern by checking the appropriate boxes in the table below and list any surface water impairments identified. Pollutants anticipated to be generated by the project, which are also causing impairment of receiving waters, shall be considered the primary pollutants of concern. For projects where no primary pollutants of concern exist, those pollutants identified as anticipated shall be considered secondary pollutants of concern.

**TABLE 7: PROJECT POLLUTANTS OF CONCERN**

<b>Pollutant Category</b>	<b>Anticipated (X)</b>	<b>Potential (P)</b>	<b>Surface Water Impairments</b>
Sediments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Benthic Community Effects Nitrogen Phosphorus Selenium
Nutrients	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	
Organic Compounds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Trash & Debris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Oxygen Demanding Substances	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Oil & Grease	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bacteria & Viruses	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pesticides	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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**STEP 5**

**LID AND SITE DESIGN STRATEGIES**

Each numbered item below is a Low Impact Development (LID) requirement of the WPO. Please check the box(s) under each number that best describes the LID BMP(s) and Site Design Strategies selected for this project.

**TABLE 8: LID AND SITE DESIGN**

<b>1. Conserve Natural Areas, Soils, and Vegetations</b>
<input type="checkbox"/> Preserve well draining soils (Type A or B)
<input checked="" type="checkbox"/> Preserve Significant Trees
<input type="checkbox"/> Preserve critical (or problematic) areas such as flood plains, steep slopes, wetlands, and areas with erosive or unstable soil conditions
<input type="checkbox"/> Other. Description:
<b>2. Minimize Disturbance to Natural Drainages</b>
<input type="checkbox"/> Set-back development envelope from drainages
<input checked="" type="checkbox"/> Restrict heavy construction equipment access to planned green/open space areas
<input type="checkbox"/> Other. Description:
<b>3. Minimize and Disconnect Impervious Surfaces (see 5)</b>
<input type="checkbox"/> Clustered Lot Design
<input checked="" type="checkbox"/> Items checked in 5
<input type="checkbox"/> Other. Description:
<b>4. Minimize Soil Compaction</b>
<input checked="" type="checkbox"/> Restrict heavy construction equipment access to planned green/open space areas
<input type="checkbox"/> Re-till soils compacted by construction vehicles/equipment
<input type="checkbox"/> Collect & re-use upper soil layers of development site containing organic materials
<input type="checkbox"/> Other. Description:
<b>5. Drain Runoff from Impervious Surfaces to Pervious Areas</b>
<b><u>LID Street &amp; Road Design</u></b>
<input checked="" type="checkbox"/> Curb-cuts to landscaping
<input type="checkbox"/> Rural Swales
<input type="checkbox"/> Concave Median
<input type="checkbox"/> Cul-de-sac Landscaping Design
<input type="checkbox"/> Other. Description:

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<b><u>LID Parking Lot Design</u></b>	
<input type="checkbox"/>	Permeable Pavements
<input checked="" type="checkbox"/>	Curb-cuts to landscaping
<input type="checkbox"/>	Other. Description:
<b><u>LID Driveway, Sidewalk, Bike-path Design</u></b>	
<input type="checkbox"/>	Permeable Pavements
<input checked="" type="checkbox"/>	Pitch pavements towards landscaping
<input type="checkbox"/>	Other. Description:
<b><u>LID Building Design</u></b>	
<input type="checkbox"/>	Cisterns & Rain Barrels
<input type="checkbox"/>	Downspout to swale
<input type="checkbox"/>	Vegetated Roofs
<input checked="" type="checkbox"/>	Other. Downspouts to parking area that is directed to landscaping.
<b><u>LID Landscaping Design</u></b>	
<input type="checkbox"/>	Soil Amendments
<input type="checkbox"/>	Reuse of Native Soils
<input checked="" type="checkbox"/>	Smart Irrigation Systems
<input type="checkbox"/>	Street Trees
<input type="checkbox"/>	Other. Description:
<b>6. Minimize Erosion From Slopes</b>	
<input checked="" type="checkbox"/>	Disturb existing slopes only when necessary
<input checked="" type="checkbox"/>	Minimize cut and fill areas to reduce slope lengths
<input type="checkbox"/>	Incorporate retaining walls to reduce steepness of slopes or to shorten slopes
<input type="checkbox"/>	Provide benches or terraces on high cut and fill slopes to reduce concentration of flows
<input checked="" type="checkbox"/>	Rounding and shaping slopes to reduce concentrated flow
<input type="checkbox"/>	Collect concentrated flows in stabilized drains and channels
<input type="checkbox"/>	Other. Description:

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**STEP 6**

**SOURCE CONTROL**

Please complete the checklist on the following pages to determine Source Control BMPs. Below is instruction on how to use the checklist. (Also see instructions on page 60 of the *SUSMP*).

1. Review Column 1 and identify which of these potential sources of stormwater pollutants apply to your site. Check each box that applies and list in Table 9.
2. Review Column 2 and incorporate all of the corresponding applicable BMPs in your Source Control Exhibit in Attachment B.
3. Review Columns 3 and 4 and incorporate all of the corresponding applicable permanent controls and operational BMPs into Table 9.
4. Use the format in Table 9 below to summarize the project Source Control BMPs. Incorporate all identified Source Control BMPs in your Source Control Exhibit in Attachment B.

Describe your specific BMPs in an accompanying narrative, and explain any special conditions or situations that required omitting BMPs or substituting alternatives.

*The Valley Center Cemetery District will be utilizing the following BMPs:*

- **D1. Need for future indoor & structural pest control** – Pests will be control through the use of CASQA BMP SC-41.
- **D2. Landscape/Outdoor Pesticide Use** – All existing vegetation not within the disturbed area designation shall be protected in place and preserved to the maximum extent possible. Site specific vegetation that is native and drought tolerant shall be installed per the landscape plans. CASQA BMPs SC-41 and SD-10 shall be used as guidance documents.
- **G. Refuse Areas** – All trash receptacles will be regularly inspected and cleaned of damage and debris. Trash receptacles will be covered.
- **P. Plazas, sidewalks, and parking lots** – Plazas, sidewalks and parking lots shall be swept regularly to prevent accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning solvent or degreaser shall be collected and discharged to the sanitary sewer and not discharged directly to a storm drain.

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**TABLE 9: PROJECT SOURCE CONTROL BMPs**

<i>Potential sources of Runoff pollutants</i>	<i>Permanent Source Control BMPs</i>	<i>Operational Source Control BMPs</i>
<b>D1.</b> Need for future indoor & structural pest control	<ul style="list-style-type: none"> <li>• Note building design features that discourage entry of pests.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide Integrated Pest Management information to owners, lessees, and operators.</li> </ul>
<b>D2.</b> Landscape/Outdoor Pesticide Use	<ul style="list-style-type: none"> <li>• Preserve Existing Native Trees.</li> <li>• Design Landscaping to minimize Irrigation and runoff.</li> <li>• Design Landscaping to promote infiltration.</li> <li>• Design Landscaping to minimize the use of fertilizers and pesticides.</li> <li>• Specify plants that are tolerant of saturated soils.</li> <li>• Specify pest-resistant plants.</li> <li>• Specify plants appropriate to soils, slopes, climates, sun, wind, land use, air movement, ecological consistency, and plant interactions.</li> </ul>	<ul style="list-style-type: none"> <li>• Refer to CASQA SC-41: Building and Grounds Maintenance.</li> <li>• Provide Integrated Pest Management information to new owners, lessees and operators.</li> </ul>
<b>G.</b> Refuse Areas	<ul style="list-style-type: none"> <li>• State that signs will be posted on or near dumpsters with 'Do not dump hazardous materials here.' OAE.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide adequate number of trash receptacles.</li> <li>• Inspect trash receptacles regularly and if damage is found, clean immediately.</li> <li>• Keep receptacles covered.</li> <li>• Post 'Do not dump hazardous materials here.' Signs.</li> <li>• Inspect site regularly and pick-up litter and spills.</li> <li>• Refer to CASQA SC-10: Non-Stormwater Discharges' for more information.</li> </ul>
<b>P.</b> Plazas, sidewalks, and parking lots	<ul style="list-style-type: none"> <li>• n/a</li> </ul>	<ul style="list-style-type: none"> <li>• Sweep regularly</li> <li>• Collect debris from power washing.</li> <li>• Discharge 'soapy' water the sanitary sewer and not the storm drain.</li> </ul>

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IF THESE SOURCES WILL BE ON THE PROJECT SITE...	...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls – Show on Source Control Exhibit, Attachment B	3 Permanent Control – List in SUSMP Table and Narrative	4 Operational BMPs – Include in SUSMP Table and Narrative
<input type="checkbox"/> A. On-site storm drain inlets	<input type="checkbox"/> Locations of inlets.	<input type="checkbox"/> Mark all inlets with the words "No Dumping! Flows to Bay" or similar	<input type="checkbox"/> Maintain and periodically repaint or replace inlet markings <input type="checkbox"/> Provide stormwater pollution prevention information to new site owners, lessees, or operators <input type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a> <input type="checkbox"/> Include the following in lease agreements: "Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."
<input type="checkbox"/> B. Interior floor drains and elevator shaft sump pumps		<input type="checkbox"/> State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.	<input type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.
<input type="checkbox"/> C. Interior parking garages		<input type="checkbox"/> State that parking garage floor drains will be plumbed to the sanitary sewer.	<input type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.

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... THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs			
1 Potential Sources of Runoff Pollutants	2 Permanent Controls – Show on Source Control Exhibit, Attachment B	3 Permanent Control – List in SUSMP Table and Narrative	4 Operational BMPs – Include in SUSMP Table and Narrative
<input checked="" type="checkbox"/> D1. Need for future indoor & structural pest control  <input checked="" type="checkbox"/> D2. Landscape/Outdoor Pesticide Use  Note: should be consistent with protect landscape plan (if applicable).	<input type="checkbox"/> Show Locations of native trees or areas of shrubs and ground cover to be undisturbed and retained. <input checked="" type="checkbox"/> Show self-retaining landscape areas, if any.  <input type="checkbox"/> Show stormwater treatment facilities	<input checked="" type="checkbox"/> Note building design features that discourage entry of pests.  <input type="checkbox"/> State that final landscape plans will accomplish all of the following: Preserve existing native trees, shrubs, and ground cover to the maximum extent possible.  <input checked="" type="checkbox"/> Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.  <input checked="" type="checkbox"/> Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions.  <input checked="" type="checkbox"/> Consider using pest-resistant plants, especially adjacent to hardscape.  <input checked="" type="checkbox"/> To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.	<input checked="" type="checkbox"/> Provide Integrated Pest Management information to owners, lessees, and operators.  <input checked="" type="checkbox"/> Maintain landscaping using minimum or no pesticides  <input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a>  <input type="checkbox"/> Provide Integrated Pest Management information to new owners, lessees and operators

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IF THESE SOURCES WILL BE ON THE PROJECT SITE...	...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs		
<p><b>1</b></p> <p><b>Potential Sources of Runoff Pollutants</b></p> <p><input type="checkbox"/> E. Pools, spas, ponds, decorative fountains, and other water features</p> <p><input type="checkbox"/> F. Food Services</p>	<p><b>2</b></p> <p><b>Permanent Controls – Show on Source Control Exhibit, Attachment B</b></p> <p><input type="checkbox"/> Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet.</p> <p><input type="checkbox"/> For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment. On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.</p>	<p><b>3</b></p> <p><b>Permanent Control – List in SUSMP Table and Narrative</b></p> <p><input type="checkbox"/> If the local municipality requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.</p> <p><input type="checkbox"/> If the local municipality requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements. Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.</p>	<p><b>4</b></p> <p><b>Operational BMPs – Include in SUSMP Table and Narrative</b></p> <p><input type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-72, "Fountain and Pool Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>



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IF THESE SOURCES WILL BE ON THE PROJECT SITE...	...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs			
<p align="center"><b>1</b></p> <p align="center"><b>Potential Sources of Runoff Pollutants</b></p> <p><input type="checkbox"/> I. Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.)</p>	<p align="center"><b>2</b></p> <p align="center"><b>Permanent Controls – Show on Source Control Exhibit, Attachment B</b></p> <p><input type="checkbox"/> Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent</p> <p><input type="checkbox"/> Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults.</p> <p><input type="checkbox"/> Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.</p>	<p align="center"><b>3</b></p> <p align="center"><b>Permanent Control – List in SUSMP Table and Narrative</b></p> <p><input type="checkbox"/> Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.</p> <p>Where appropriate, reference documentation of compliance with the requirements of local Hazardous Materials Programs for:</p> <ul style="list-style-type: none"> <li>• Hazardous Waste Generation</li> <li>• Hazardous Materials Release Response and Inventory</li> <li>• California Accidental Release (CalARP)</li> <li>• Aboveground Storage Tank</li> <li>• Uniform Fire Code Article 80 Section 103(b) &amp; (c) 1991</li> <li>• Underground Storage Tank</li> </ul>	<p align="center"><b>4</b></p> <p align="center"><b>Operational BMPs – Include in SUSMP Table and Narrative</b></p> <p><input type="checkbox"/> See the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC-33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>	

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IF THESE SOURCES WILL BE ON THE PROJECT SITE...	...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs		
<p><b>1</b> Potential Sources of Runoff Pollutants</p> <p><input type="checkbox"/> J. Vehicle and Equipment Cleaning</p>	<p><b>2</b> Permanent Controls – Show on Source Control Exhibit, Attachment B</p> <p><input type="checkbox"/> Show on drawings as appropriate: (1) Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses. (2) Multi-dwelling complexes shall have a paved, bermed, and covered car wash area (unless car washing is prohibited on-site and hoses are provided with an automatic shutoff to discourage such use). (3) Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer. (4) Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed.</p>	<p><b>3</b> Permanent Control – List in SUSMP Table and Narrative</p> <p><input type="checkbox"/> If a car wash area is not provided, describe measures taken to discourage on-site car washing and explain how these will be enforced.</p>	<p><b>4</b> Operational BMPs – Include in SUSMP Table and Narrative</p> <p>Describe operational measures to implement the following (if applicable):</p> <p><input type="checkbox"/> Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system.</p> <p><input type="checkbox"/> Car dealerships and similar may rinse cars with water only.</p> <p><input type="checkbox"/> See Fact Sheet SC-21, "Vehicle and Equipment Cleaning," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>

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...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs				
IF THESE SOURCES WILL BE ON THE PROJECT SITE...	1 Potential Sources of Runoff Pollutants	2 Permanent Controls – Show on Source Control Exhibit, Attachment B	3 Permanent Control – List in SUSMP Table and Narrative	4 Operational BMPs – Include in SUSMP Table and Narrative
<input type="checkbox"/>	K. Vehicle/Equipment Repair and Maintenance	<input type="checkbox"/> Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater.  <input type="checkbox"/> Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.  <input type="checkbox"/> Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.	<input type="checkbox"/> State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area.  <input type="checkbox"/> State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.  <input type="checkbox"/> State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.	<p>In the SUSMP report, note that all of the following restrictions apply to use the site:</p> <p><input type="checkbox"/> No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains.</p> <p><input type="checkbox"/> No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.</p> <p><input type="checkbox"/> No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.</p>

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IF THESE SOURCES WILL BE ON THE PROJECT SITE...	... THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls – Show on Source Control Exhibit, Attachment B	3 Permanent Control – List in SUSMP Table and Narrative	4 Operational BMPs – Include in SUSMP Table and Narrative
<input type="checkbox"/> L. Fuel Dispensing Areas	<input type="checkbox"/> Fueling areas <sup>1</sup> shall have impermeable floors (i.e., Portland cement concrete or equivalent smooth impervious surface) that are: <ul style="list-style-type: none"> <li>a) graded at the minimum slope necessary to prevent ponding; and</li> <li>b) separated from the rest of the site by a grade break that prevents runoff of stormwater to the maximum extent practicable.</li> </ul> <input type="checkbox"/> Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area <sup>1</sup> .] The canopy [or cover] shall not drain onto the fueling area.		<input type="checkbox"/> The property owner shall dry sweep the fueling area routinely.  <input type="checkbox"/> See the Business Guide Sheet, "Automotive Service—Service Stations" in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a>

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...THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs			
<b>1</b> Potential Sources of Runoff Pollutants	<b>2</b> Permanent Controls – Show on Source Control Exhibit, Attachment B	<b>3</b> Permanent Control – List in SUSMP Table and Narrative	<b>4</b> Operational BMPs – Include in SUSMP Table and Narrative
<input type="checkbox"/> M. Loading Docks	<input type="checkbox"/> Show a preliminary design for the loading dock area, including roofing and drainage. Loading docks shall be covered and/or graded to minimize run-on to and runoff from the loading area. Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas should be drained to the sanitary sewer where feasible. Direct connections to storm drains from depressed loading docks are prohibited.  <input type="checkbox"/> Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation.  <input type="checkbox"/> Provide a roof overhang over the loading area or install door skirts (cowling) at each bay that enclose the end of the trailer.		<input type="checkbox"/> Move loaded and unloaded items indoors as soon as possible.  <input type="checkbox"/> See Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a>
<input type="checkbox"/> N. Fire Sprinkler Test Water		<input type="checkbox"/> Provide a means to drain fire Sprinkler test water to the sanitary sewer.	<input type="checkbox"/> See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a>

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... THEN YOUR STORMWATER CONTROL PLAN SHOULD INCLUDE THESE SOURCE CONTROL BMPs			
1 Potential Sources of Runoff Pollutants	2 Permanent Controls – Show on Source Control Exhibit, Attachment B	3 Permanent Control – List in SUSMP Table and Narrative	4 Operational BMPs – Include in SUSMP Table and Narrative
<p>O. Miscellaneous Drain or Wash Water</p> <p><input type="checkbox"/> Boiler Drain Lines</p> <p><input type="checkbox"/> Condensate Drain Lines</p> <p><input type="checkbox"/> Rooftop Equipment</p> <p><input type="checkbox"/> Drainage Sumps</p> <p><input checked="" type="checkbox"/> Roofing, gutters, and trim</p> <p><input checked="" type="checkbox"/> P. Plazas, sidewalks, and parking lots</p>		<p><input type="checkbox"/> Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.</p> <p><input type="checkbox"/> Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.</p> <p><input type="checkbox"/> Rooftop mounted equipment with potential to produce pollutants shall be roofed and/or have secondary containment.</p> <p><input type="checkbox"/> Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.</p> <p><input checked="" type="checkbox"/> Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.</p>	<p><input checked="" type="checkbox"/> Plazas, sidewalks, and parking lots shall be swept regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.</p>

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**STEP 7**

**LID AND TREATMENT CONTROL SELECTION**

A treatment control BMP and/or LID facility must be selected to treat the project pollutants of concern identified in Table 7 "Project Pollutants of Concern". A treatment control facility with a high or medium pollutant removal efficiency for the project's most significant pollutant of concern shall be selected. It is recommended to use the design procedure in Chapter 4 of the SUSMP to meet NPDES permit LID requirements, treatment requirements, and flow control requirements. If your project does not utilize this approach, the project will need to demonstrate compliance with LID, treatment and flow control requirements. Review Chapter 2 "Selection of Stormwater Treatment Facilities" in the SUSMP to assist in determining the appropriate treatment facility for your project.

Will this project be utilizing the unified LID design procedure as described in Chapter 4 of the Local SUSMP? <i>(If yes, please document in Attachment D following the steps in Chapter 4 of the County SUSMP)</i>	
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If this project is not utilizing the unified LID design procedure, please describe how the alternative treatment facilities will comply with applicable LID criteria, stormwater treatment criteria, and hydromodification management criteria.	

➤ Indicate the project pollutants of concern (POCs) from Table 7 in Column 2 below.

**TABLE 10: GROUPING OF POTENTIAL POLLUTANTS of Concern (POCs) by fate during stormwater treatment**

Pollutant	Check Project Specific POCs	Coarse Sediment and Trash	Pollutants that tend to associate with fine particles during treatment	Pollutants that tend to be dissolved following treatment
Sediment	<input checked="" type="checkbox"/>	X	X	
Nutrients	<input checked="" type="checkbox"/>		X	X
Heavy Metals	<input type="checkbox"/>		X	
Organic Compounds	<input checked="" type="checkbox"/>		X	
Trash & Debris	<input checked="" type="checkbox"/>	X		
Oxygen Demanding Substances	<input checked="" type="checkbox"/>		X	
Bacteria & Viruses	<input checked="" type="checkbox"/>		X	
Oil & Grease	<input checked="" type="checkbox"/>		X	
Pesticides	<input checked="" type="checkbox"/>		X	

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➤ Indicate the treatment facility (s) chosen for this project in the following table.

**TABLE 11: GROUPS OF POLLUTANTS and relative effectiveness of treatment facilities**

Pollutants of Concern	Bioretention Facilities (LID)	Settling Basins (Dry Ponds)	Wet Ponds And Constructed Wetlands	Infiltration Facilities Or Practices (LID)	Media Filters	Higher-Rate Biofilters	Higher-Rate Media filters	Trash Racks & Hydro-dynamic Devices	Vegetated Swales
Coarse Sediment and trash	High	High	High	High	High	High	High	High	High
Pollutants that tend to associate with fine particles during treatment	High	High	High	High	High	Medium	Medium	Low	Medium
Pollutant that tend to be dissolved following treatment	Medium	Low	Medium	High	Low	Low	Low	Low	Low

➤ Please check the box(s) that best describe the Treatment BMP(s) and/or LID IMP(s) selected for this project. Please check if the treatment facility is designed for water quality or hydromodification flow control.

**TABLE 12: PROJECT LID AND TC-BMPS**

LID and TC-BMP Type		Water Quality Treatment Only	Hydromodification Flow Control
<b>Bioretention Facilities (LID)</b>			
<input checked="" type="checkbox"/>	Bioretention Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Flow-Through Planter	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cistern with Bioretention	<input type="checkbox"/>	<input type="checkbox"/>
<b>Settling Basins (Dry Ponds)</b>			
<input type="checkbox"/>	Extended/Dry Detention Basin with Grass / Vegetated Lining	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Extended/Dry Detention Basin with Impervious Lining	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Underground Vault		<input type="checkbox"/>
<input type="checkbox"/>	Cistern		<input type="checkbox"/>

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<b>Infiltration Devices (LID)</b>			
<input type="checkbox"/>	Infiltration Basin	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Infiltration Trench	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>LID and TC-BMP Type</b>		<b>Water Quality Treatment Only</b>	<b>Hydromodification Flow Control</b>
<b>Wet Ponds and Construction Wetlands</b>			
<input type="checkbox"/>	Wet Pond / Basin (Permanent Pool)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Constructed Wetland	<input type="checkbox"/>	<input type="checkbox"/>
<b>Vegetated Swales (LID) <sup>(1)</sup></b>			
<input type="checkbox"/>	Vegetated Swale	<input type="checkbox"/>	<input type="checkbox"/>
<b>Media Filters</b>			
<input type="checkbox"/>	Austin Sand Filter	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Delaware Sand Filter	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Multi-Chambered Treatment Train (MCTT)	<input type="checkbox"/>	<input type="checkbox"/>
<b>High-Rate Biofilters</b>			
<input type="checkbox"/>	Tree-Pit-Style Unit	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>High-Rate Media Filters</b>			
<input type="checkbox"/>	Vault-Based Filtration Unit with Replaceable Cartridges	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>Hydrodynamic Separator Systems</b>			
<input type="checkbox"/>	Swirl Concentrator	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Cyclone Separator	<input type="checkbox"/>	<input type="checkbox"/>
<b>Trash Racks</b>			
<input type="checkbox"/>	Catch Basin Insert	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Catch Basin Insert with Hydrocarbon Boom	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Other: _____	<input type="checkbox"/>	<input type="checkbox"/>

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<b>Self-Retaining Areas (LID)</b>			
<input type="checkbox"/>	Permeable Pavements	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Self-Retaining	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Vegetated Roof	<input type="checkbox"/>	<input type="checkbox"/>

(1) Must be designed per SUSMP “Vegetated Swales” design criteria for water wuality treatment credit (p. 102-103).

For design guidelines and calculations refer to Chapter 4 “Low Impact Development Design Guide” in the SUSMP. Please show all calculations and design sheets for all treatment facilities proposed in Attachment D.

- Create a Construction Plan SWMP Checklist for your project.

Instructions on how to fill out table:

1. Number and list each measure or BMP you have specified in your SWMP in Columns 1 and Maintenance Category in Column 3 of the table. Leave Column 2 blank.
2. When you submit construction plans, duplicate the table (by photocopy or electronically). Now fill in Column 2, identifying the plan sheets where the BMPs are shown. List all plan sheets on which the BMP appears. ***This table must be shown on the front sheet of the grading and improvement plans.***

<b>Stormwater Treatment Control and LID BMP's*</b>			
<b>Description / Type</b>	<b>Sheet</b>	<b>Maintenance Category</b>	<b>Revisions</b>
LID – Bioretention Area		First	

\*BMP's approved as part of Stormwater Management Plan (SWMP) dated / / on file with DPW. Any changes to the above BMP's will require SWMP revision and Plan Change approvals.

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- Please describe why the chosen treatment control BMP was selected for this project. For projects utilizing a low performing BMP, please provide a **feasibility analysis** that demonstrates utilization of a treatment facility with a high or medium removal efficiency ranking is infeasible.

A small bioretention basin was selected to treat the runoff from the parking area and main road of the improved (new) area. The Property Owners will be fiscally responsible for maintaining their devices

The proposed construction and post-construction BMPs will reduce to the maximum extent practicable, the expected pollutants and not adversely impact the beneficial uses or water quality of the project's downstream receiving waters.

***Please provide the sizing design calculations for each Drainage management Area in Attachment D.*** Guidelines for design calculations are located in Chapter 4 of the County SUSMP. To assist in these calculations a BMP sizing calculator is available for use at the following location: [http://www.projectcleanwater.org/html/wg\\_susmp.html](http://www.projectcleanwater.org/html/wg_susmp.html)

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**STEP 8**

**OPERATION AND MAINTENANCE**

- Please check the box that best describes the maintenance mechanism(s) for this project.

**TABLE 13: PROJECT BMP CATEGORY**

CATEGORY	SELECTED		BMP DESCRIPTION
	YES	NO	
First <sup>1</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Second <sup>2</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Third <sup>3</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fourth <sup>4</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes:

1. A maintenance notification will be required.
2. A recorded maintenance agreement and access easement will be required.
3. The Project will be required to establish or be included in a watershed specific Community Facility District (CFD) for long-term maintenance.
4. The developer would be required to dedicate the BMP (and the property on which it is located and any necessary access) to the County.

- Please list all individual LID and Treatment Control BMPs (TC-BMPs) incorporated into project. Please ensure the "BMP Identifier" is consistent with the legend in Attachment C "LID and/or TC-BMP Exhibit". Please attach the record plan sheets upon completion of project and amend the Major SWMP where appropriate. For each type of LID or TC-BMP provide an inspection sheet in Attachment F "Maintenance Plan".

**TABLE 14 PROJECT SPECIFIC LID AND TC-BMPS**

<b>BMP Identifier*: (Identifier to match TC-BMPs on TC-BMP Table.)</b>	<b>Type</b>	<b>Record Plan Page for TC-BMP</b>	<b>BMP Pollutant of Concern Efficiency</b>
	Bioretention Basin		<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
			<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low

\* For location of BMP's, see approved Record Plan dated \_\_\_\_ / \_\_\_\_ / \_\_\_\_ sheet \_\_\_\_.

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➤ **Responsible Party for Construction Phase**

Identify the parties responsible for maintenance during the construction phase of the BMPs identified above and Source Controls specified in Attachment B.

Developer's Name: Valley Center Cemetery District  
Address: P.O. Box 645  
City: Valley Center State: CA Zip: 92082  
Email Address:  
Phone Number:  
Engineer of Work: Wynn Engineering, Inc.  
Engineer's Phone Number: (760) 749 - 8722

➤ **Responsible Party for Ongoing Maintenance:**

Identify the parties responsible for long-term maintenance of the BMPs identified above and Source Controls specified in Attachment B. Include the appropriate written agreement with the entities responsible for O&M in Attachment F. Please see Chapter 5 "Stormwater Facility Maintenance" of the County SUSMP for appropriate maintenance mechanisms.

Owner's Name: Valley Center Cemetery District  
Address: P.O. Box 645  
City: Valley Center State: CA Zip: 92082  
Email Address:  
Phone Number:

\* Note: If a corporation or LLC, provide information for principal partner or Agent for Service of Process. If an HOA, provide information for the Board or property manager at time of project closeout.

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➤ Funding Source:

Provide the funding source or sources for long-term operation and maintenance of each BMP identified above. Please see Chapter 5 “Stormwater Facility Maintenance” of the County SUSMP for the appropriate funding source options. By certifying the Major SWMP the applicant is certifying that the funding responsibilities have been addressed and will be transferred to future owners.

The project’s owner has been made aware that per the W.P.O. they will be financially responsible for the installation and long term maintenance of the proposed BMP’s.

**ATTACHMENTS**

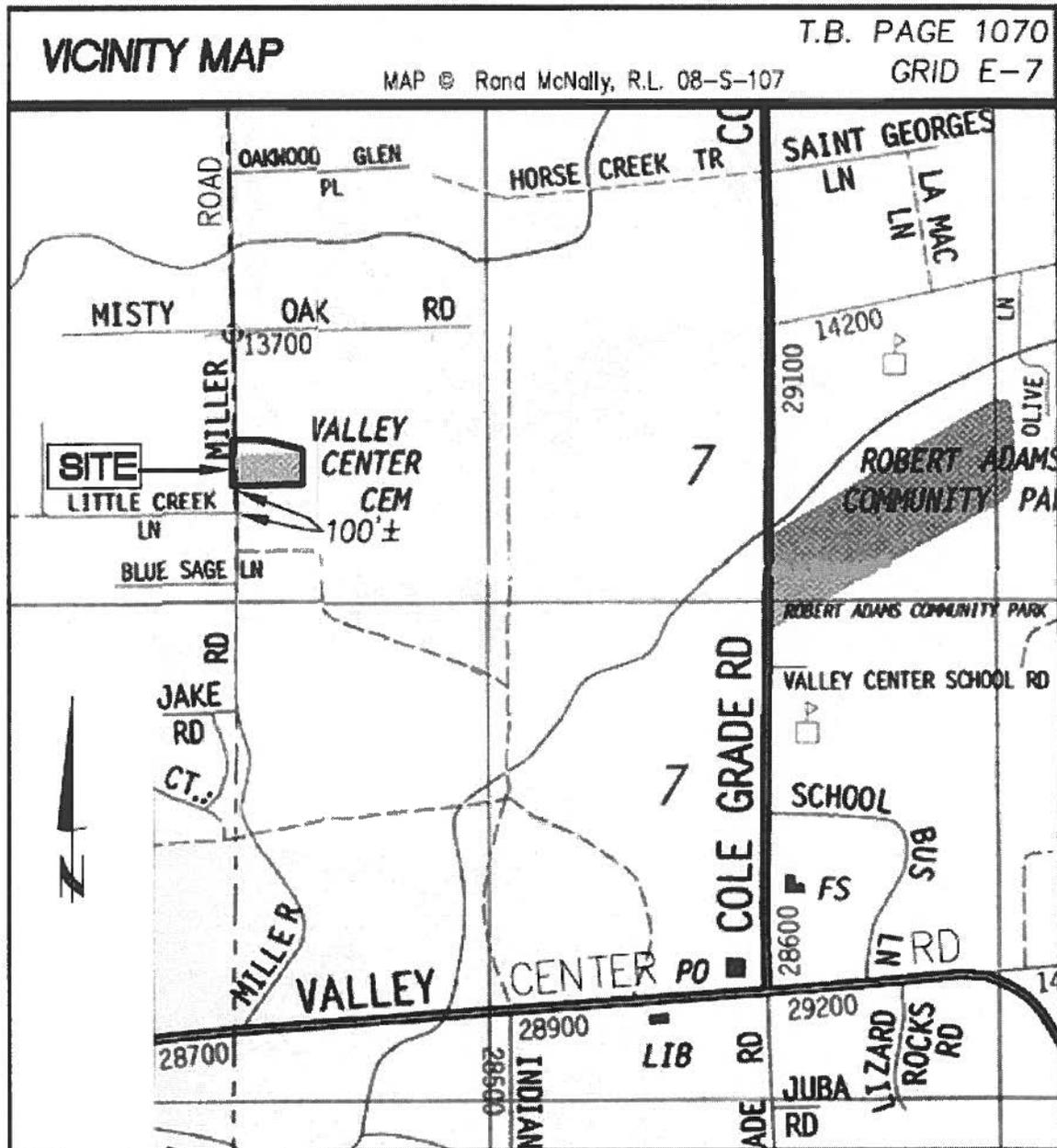
<i>ATTACHMENT</i>		<i>COMPLETED</i>	<i>N/A</i>
A	Project Location Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B	Source Control Exhibit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C	Drainage Management Area (DMA) Exhibit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D	BMP Sizing Design Calculations (Water Quality and Hydromodification) and TC-BMP/IMP Design Details	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E	Geotechnical Certification Sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F	Operations & Maintenance Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G	Treatment Control BMP Certification (Due at project completion)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H	HMP Study	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I	Geomorphic Assessment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
J	HMP Exemption Documentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
K	Addendum	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Note:** Attachments B and C may be combined.



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**ATTACHMENT A: PROJECT LOCATION MAP**





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**ATTACHMENT B: SOURCE CONTROL EXHIBIT**

This attachment consists of the Source Control BMP Exhibit and any associated standards or references.

**SOURCE CONTROL REFERENCES**

Source Control BMP Fact Sheets are from the California Stormwater Quality Association (CASQA) are references in this report and on its associated exhibits. Referenced CASQA Source Control BMP Fact Sheets are as follows:

- CASQA BMP Fact Sheet SC-34: Waste Handling and Disposal
- CASQA BMP Fact Sheet SC-41: Build and Grounds Maintenance
- CASQA BMP Fact Sheet SC-44: Drainage System Maintenance
- CASQA BMP Fact Sheet SD-10: Site Design and Landscape Planning
- CASQA BMP Fact Sheet SD-12: Efficient Irrigation

To save on reproduction costs and environmental resources, electronic copies of the above referenced CASQA BMP Fact Sheets can be found at the following web address:  
<http://www.cabmphandbooks.com/Development.asp>

*\*\*Please note that this link and the associated information are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

**SOURCE CONTROL EXHIBIT**

Please see the attached exhibit.







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**ATTACHMENT C: DRAINAGE AREA MANAGEMENT AREA EXHIBIT**

This attachment consists of the Drainage Management Area (DMA) Exhibit. Please see the attached DMA Exhibit.







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**ATTACHMENT D: SIZING DESIGN CALCULATIONS AND TC-BMP/LID DESIGN DETAILS**

This attachment consists of the Drainage Management Area (DMA) calculations, Sizing Design Calculations, TC-BMP/LID Design Details, and the project specific Hydromodification Plan, when applicable.

**1.0 DMA MAP**

This attachment provides the calculations and details for the VCCD Drainage Management Areas (DMAs). The DMA Exhibit is provided for reference as Attachment C.

**2.0 DMA SIZING DESIGN CALCULATIONS**

The following are the VCCD Drainage Management Area calculations and tables:

**2.1 SELF TREATING AREAS**

From COSD SUSMP Table 4-3 (1-8-11 ed.)

<i>DMA Name</i>	<i>Area (square feet)</i>
DMA-1	33,339
DMA-2	440
DMA-3	1625
DMA-4	3898
DMA-5	3148
<b>Total Self Treating Area:</b>	<b>42450</b>

**2.2 SELF-RETAINING AREAS**

From COSD SUSMP Table 4-4, modified (1-8-11 ed.)

<i>DMA Name</i>	<i>Area (square feet)</i>	<i>Component</i>
BMP-1	1300	Bioretention
<b>Total Self-Retaining Area:</b>	<b>1300</b>	

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**2.3 AREAS DRAINING TO SELF RETAINING AREA (BMP-1)**

From COSD SUSMP Table 4-5 (1-8-11 ed.)

<b>DMA Name</b>	<b>Post-Project Surface Type</b>	<b>Runoff Factor</b>	<b>Area (ft<sup>2</sup>)</b>	<b>Receiving Self-Retaining DMA</b>	<b>Receiving Self-Retaining DMA Area (ft<sup>2</sup>)</b>
DMA-6	Roof	1.0	680	BMP-1	1300
DMA-7	Paving	1.0	9915	BMP-1	1300

**3.0 SITE DESIGN REFERENCES**

Site Design BMP Fact Sheets from the California Stormwater Quality Association (CASQA) are referenced in this report on its associated exhibits. Referenced CASQA BMP Fact Sheets are as follows:

- CASQA BMP Fact Sheet SD-10: Site Design and Landscape Planning
- CASQA BMP Fact Sheet SD-12: Efficient Irrigation

To save on reproduction costs and environmental resources, electronic copies of the above referenced CASQA BMP Fact Sheets can be found at the following web address:  
<http://www.cabmphandbooks.com/Development.asp>

*\*\*Please note that this link and the associated information are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

**4.0 COUNTY OF SAN DIEGO LID DESIGN REFERENCES**

COSD LID Fact Sheets provided at the end of this attachment for reference. Included for reference are the following COSD LID Fact Sheets:

- COSD LID Fact Sheet 7: Bioretention Systems
- COSD LID Fact Sheet 16: Private Road Standard

To save on reproduction costs and environmental resources, electronic copies of the above referenced County of San Diego Low Impact Development (LID) Fact Sheets can be found on the County of San Diego's web site at the following web address:  
<http://www.sdcounty.ca.gov/dplu/docs/LID-Appendices.pdf>

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**5.0 TREATMENT CONTROL-BMP SIZING DATA**

A Treatment BMP must address runoff from developed areas. Please provide the post-construction water quality treatment volume or flow values for the selected project Treatment BMP(s). Guidelines for design calculations are located in Chapter 4 of the County SUSMP. Label outfalls on the BMP map. The Water Quality peak rate of discharge flow ( $Q_{WQ}$ ) and the Water Quality storage volume ( $V_{WQ}$ ) is dependent on the type of treatment BMP selected for the project.

<i><b>Outfall</b></i>	<i><b>Tributary Area (acres)</b></i>	<i><b><math>Q_{WQ}</math> (cfs)</b></i>	<i><b><math>V_{WQ}</math> (ft<sup>3</sup>)</b></i>
Bioretention	0.24	0.37	n/a

***Post Construction BMP Water Quality Peak Discharge Rate Calculation Data:***

C = runoff coefficient = assumed = 0.85  
 $I_{WC}$  = intensity = 0.2 in/hr  
 Bioretention -  $A_{Tributary}$  = 0.24 acres

***Post Construction BMP Water Quality peak Discharge Rate Calculation:***

Bioretention  $Q_{WC}$  =  $C \times I_{WC} \times A_{Tributary}$   
 =  $(0.85) \times (0.2) \times (0.24)$   
 = 0.05 cfs

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## **7.0 HYDROMODIFICATION PLAN**

Based on the project's responses in Step 4 of the County SWMP-Major, a Hydromodification Plan (HMP) will be required. This section contains the project's site specific HMP.

In order to fully detail this HMP, design elements will be divided into sections. These sections will include Drainage Management Area (DMA) Designation, HMP Sizing Tool Input Data, Sizing Tool Results, and the HMP DMA Exhibit.

### **7.1 DMA DESIGNATION**

In order to have a successful HMP Drainage Management Areas (DMAs) need to be outlined. HMP DMAs will be divided into areas and placed on a project specific HMP DMA Exhibit. Each DMA will drain to one Point of Compliance (POC) that will be specified on the HMP DMA Exhibit as well. Unlike Low Impact Design (LID) DMA mapping, the HMP DMA mapping does not need to be performed in a linear manner; but rather, HMP DMAs will group similar land coverage associated to soil types and ground slopes. The DMA Exhibit provided as Attachment C for reference.

### **7.2 HMP SIZING TOOL DATA**

This section outlines what data was inserted into the County of San Diego HMP Sizing Tool. The County's HMP BMP Sizing Tool is located on the Project Clean Water website found here: <http://www.projectcleanwater.org/>

#### **7.2.1 SIZING TOOL BACKGROUND**

HMP design must model years of rain gauge data and perform continuous simulation to ascertain the effects of the proposed improvements on the existing watershed. This HMP will utilize the San Diego County BMP Sizing Tool (V2.0) designed by Brown and Caldwell. This Sizing Tool was developed by the County of San Diego to meet the requirements of hydromodification management in San Diego County and is provided free of charge to the public. The sizing tool can be found by following this hyperlink to the internet: <http://uknow.brwnncald.com/wastewater/MapOL.aspx>

*Please note that this link and the associated information Tool are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

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**7.2.2 SIZING TOOL INPUT DATA**

The County of San Diego HMP Sizing Tool requires specific site related data to perform its internal calculations. The project specific data input for this project is as follows:

<b>PROJECT SUMMARY</b>	
<b>Project Name:</b>	VCCD
<b>Applicant Name:</b>	Wynn Engineering, Inc.
<b>Project APN:</b>	188-230-47 and 188-230-02
<b>Project Jurisdiction:</b>	San Diego County
<b>Hydrological Unit</b>	San Luis Rey
<b>Project Description:</b>	Expansion to Valley Center Cemetery
<b>Street Address:</b>	Miller Road
<b>City:</b>	Valley Center

<b>BASIN DATA</b>	
<b>Basin Name:</b>	VCCD Site
<b>Design Goal:</b>	<input checked="" type="checkbox"/> Treatment Only <input type="checkbox"/> Treatment + Flow Control
<b>Design Soil:</b>	<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> C <input type="checkbox"/> D
<b>Rainfall Basin:</b>	<input type="checkbox"/> Lindbergh Field <input checked="" type="checkbox"/> Oceanside <input type="checkbox"/> Lake Wulhford
<b>Basin Slope:</b>	<input checked="" type="checkbox"/> Flat (<5%) <input type="checkbox"/> Moderate (5% - 10%) <input type="checkbox"/> Steep (>10%)
<b>Point of Compliance:</b>	A
<b>Drainage Area (acres):</b>	1.25

<b>POINT OF COMPLIANCE A DATA</b>	
<b>Watershed Area (acres):</b>	1.25
<b>Channel Assessed:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>If Channel Assessed:</b>	<b>Vertical Susceptibility:</b> <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	<b>Lateral Susceptibility:</b> <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	<b>Material:</b> <input type="checkbox"/> Vegetation <input type="checkbox"/> Unconsolidated Sandy Loam <input type="checkbox"/> Alluvial Silt (non-Colloidal) <input type="checkbox"/> Medium Gravel <input type="checkbox"/> Alluvial Silt/Clay <input type="checkbox"/> 2.5 Inch Cobble
	<b>Roughness:</b>
	<b>Channel Top Width (feet):</b>
	<b>Channel Bottom Width (feet):</b>
	<b>Channel Height (feet):</b>
	<b>Channel Slope (%):</b>

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**7.3 SIZING TOOL RESULTS**

Please refer to the attached output report from the County of San Diego HMP BMP Sizing Calculator.

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**ATTACHMENT E: GEOTECHNICAL CERTIFICATION SHEET**

The design of stormwater treatment and other control measures proposed in this plan requiring specific soil infiltration characteristics and/or geological conditions has been reviewed and approved by a registered Civil Engineer, Geotechnical Engineer, or Geologist registered in the State of California.

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**GARY WYNN, PE  
PRESIDENT**

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**DATE**





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**ATTACHMENT F: OPERATIONS AND MAINTENANCE PLAN**

Operations & Maintenance of BMPs is essential for the success of any SUSMP. In order to perform proper O&M the VCCD will be required to maintain and inspect their Permanent and Post Construction BMPs for the life of the project. An inspection schedule and maintenance directions must be prepared for each BMP that is install on the project site.

**SECTION F1: O&M PLAN CONTACT INFORMATION MATRIX**

Project Name:	Valley Center Cemetery District
Project Location:	Miller Road
Permit Number (Land Development Projects):	PDS2014-MUP-14-029, PDS2014-ER-14-08-010
Fiscally Responsible Party for O&M:	Valley Center Cemetery District
Contact Name:	MS. Luis Kelly
Contact Street Address:	P O Box 645
Contact City, State, Zip:	Valley Center, CA 92082
Contact Phone Number:	(760) 749-1186
Contact Fax Number:	
Contact Email Address:	
Start Date of Responsibility:	
O&M Plan Prepared By:	Wynn Engineering, Inc.
O&M Preparer Street Address:	27315 Valley Center Road
O&M Preparer City, State, Zip:	Valley Center, CA 92082
O&M Preparer Phone Number:	(760) 749-8722
O&M Preparer Fax Number:	(760) 749-9412
O&M Preparer Contact:	Gary R. Wynn
O&M Preparer Contact Email Address:	<a href="mailto:gary@wynnengineering.com">gary@wynnengineering.com</a>

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**SECTION F2: FISCALLY RESPONSIBLE PARTY CERTIFICATION**

This project-specific Major Stormwater Management Plan (Major SWMP) Operations and Maintenance (O&M) Plan has been prepared for Owner by Wynn Engineering, Inc. for the project known as the Valley Center Cemetery District on Miller Road in Valley Center, California. This Major SWMP is intended to comply with the requirements of The County of San Diego for (\_\_\_\_\_), which includes the requirement for the preparation and implementation of a project-specific Major SWMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be fiscally responsible for the O&M Plan associated with all permanent and post-construction BMPs as outlined in the associated County of San Diego Stormwater Management Plan (SWMP) – Major.

The undersigned is authorized to certify and to approve implementation of this O&M Plan. The undersigned is aware that implementation of this O&M Plan is enforceable under the County of San Diego Watershed Protection Ordinance (Municipal Ordinance No. 9926).

If the undersigned transfers its interest in the subject property/project, the undersigned shall notify the successor in interest in writing of its responsibility to implement this O&M Plan in perpetuity. The undersigned shall provide the Department of Public Works, Watershed Protection Program with a copy of the signed notification, including the name, address, and contact information of the successor.

"I, the undersigned, certify under penalty of law that the provisions of this Major SWMP O&M Plan have been reviewed and accepted and that the BMP maintenance requirements will be transferred to future successors in interest."

\_\_\_\_\_  
Owner's signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner's Printed Name

\_\_\_\_\_  
Owner's Title/Position

PO Box 645  
Valley Center, CA 92082  
Telephone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_  
E-Mail: \_\_\_\_\_

### **SECTION F3: ASSOCIATED MAINTENANCE LOG**

The VCCD may use the project specific maintenance log form blank attached to the end of this attachment to keep a record of maintenance activities. The County will have the required length of time that records must be kept, but keep in mind that the Regional Water Quality Control Board can ask for inspection and maintenance records for up to five years from the time of initial installation. The attached maintenance log is general and fill-in the blank. This log is intended to be copied each time it is needed.

### **SECTION F4: ASSOCIATED INSPECTION FORM**

The VCCD may use the project specific inspection form blank attached to the end of this attachment to keep a record of inspection and maintenance activities. The County will have the required length of time that records must be kept, but keep in mind that the Regional Water Quality Control Board can ask for inspection and maintenance records for up to five years from the time of initial installation. The attached inspection form is general and fill-in the blank. This form is intended to be copied each time it is needed.

### **SECTION F5: INSTALLED PERMANENT AND POST CONSTRUCTION BMP DEVICES**

The VCCD will be utilizing the following Permanent and Post-Construction BMPs and devices:

#### **SOURCE CONTROL REFERENCES**

Please see the attached references. Included for reference are the following items:

- CASQA BMP Fact Sheet SC-34: Waste Handling and Disposal
- CASQA BMP Fact Sheet SC-41: Build and Grounds Maintenance
- CASQA BMP Fact Sheet SD-10: Site Design and Landscape Planning
- CASQA BMP Fact Sheet SD-12: Efficient Irrigation

To save on reproduction costs and environmental resources, electronic copies of the above referenced CASQA BMP Fact Sheets can be found at the following web address: <http://www.cabmphandbooks.com/Development.asp>

*\*\*Please note that this link and the associated information are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

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**SITE DESIGN REFERENCES**

Please see the attached references. Included for reference are the following items:

- CASQA BMP Fact Sheet SD-10: Site Design and Landscape Planning
- CASQA BMP Fact Sheet SD-12: Efficient Irrigation

To save on reproduction costs and environmental resources, electronic copies of the above referenced CASQA BMP Fact Sheets can be found at the following web address: <http://www.cabmphandbooks.com/Development.asp>

*\*\*Please note that this link and the associated information are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

**COUNTY OF SAN DIEGO LID DESIGN REFERENCES**

Please see the attached references. Included for reference are the following items:

- COSD LID Fact Sheet 7: Bioretention Systems
- COSD LID Fact Sheet 16: Private Road Standard

To save on reproduction costs and environmental resources, electronic copies of the above referenced County of San Diego Low Impact Development (LID) Fact Sheets can be found on the County of San Diego's web site at the following web address: <http://www.sdcounty.ca.gov/dplu/docs/LID-Appendices.pdf>

*\*\*Please note that this link and the associated information are not maintained by Wynn Engineering, Inc. and we cannot be held accountable if this link or internet location changes.*

**SECTION F6: TYPICAL MAINTENANCE ACTIVITIES**

The following is a compilation of Routine Actions required for each installed BMP on the project site.

**BIORETENTION SYSTEM (FS-7)**

The following is inspection and maintenance guidance information for bioretention systems:

***Routine Action: Inspect Health of Vegetation***

Maintenance Indicator:	Dead Vegetation or Bio
Field Measurements:	Visual Inspection
Inspection Frequency:	Twice a year
Maintenance Activity:	Re-establish vegetation as needed
Approximate Costs:	Varies per maintenance required

***Routine Action: Inspect for Debris Accumulation***

Maintenance Indicator:	Debris, trash, or litter present
Field Measurements:	Visual Inspection
Inspection Frequency:	During routine trashing
Maintenance Activity:	Remove debris, trash, and litter
Approximate Costs:	None anticipated

***Routine Action: Inspect for Sedimentation Accumulation***

Maintenance Indicator:	Sediment at or near height of vegetation
Field Measurements:	Visual Inspection
Inspection Frequency:	1. End of Summer Season 2. End of Rainy Season
Maintenance Activity:	Remove Sediment and re-vegetate
Approximate Costs:	\$1,100 per maintenance (Approx. once every three years)

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***Routine Action: Inspect for Standing Water***

Maintenance Indicator:	Standing water after 96 hours
Field Measurements:	Visual Inspection
Inspection Frequency:	After each qualifying rain event
Maintenance Activity:	Dewater and inspect sub-drain discharge points (when applicable)
Approximate Costs:	Varies per maintenance required

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**SECTION F7: FISCAL RESOURCES SUMMARY**

The County of San Diego requires that funding sources be secured for each installed permanent and post-construction BMP phased on its maintenance category. A summary of the COSD SUSMP Table 5-1 is provided at the end of this attachment for reference. The following is a list of the project's Maintenance Categories and Resources for BMPs requiring inspection and maintenance

<b>PROJECT BMP</b>	<b>BMP CATEGORY</b>	<b>MECHANISM</b>	<b>FUNDING SOURCE</b>
Bioretention	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	One of the options of 1 through 6 at discretion of County	n/a

**SECTION F8: MECHANISMS TO ASSURE MAINTENANCE**

This section contains a list of approved County of San Diego Mechanisms to Assure Maintenance. The following is a list of the County of San Diego approved Mechanisms to Assure Maintenance:

1. **Stormwater Ordinance Requirement:** The WPO requires this ongoing maintenance. In the event that the mechanisms below prove ineffective, or in addition to enforcing those mechanisms, civil action, criminal action or administrative citation could also be pursued for violations of the ordinance.
2. **Public Nuisance Abatement:** Under the WPO failure to maintain a BMP would constitute a public nuisance, which may be abated under the Uniform Public Nuisance Abatement Procedure. This provides an enforcement mechanism additional to the above, and would allow costs of maintenance to be billed to the owner, a lien placed on the property, and the tax collection process to be used.
3. **Notice to Purchasers:** Section 67.813(e) of the WPO requires developers to provide clear written notification to persons acquiring land upon which a BMP is located, or others assuming a BMP maintenance obligation, of the maintenance duty.
4. **Conditions in Ongoing Land Use Permits:** For those applications (listed in WPO Section 67.803(c)) upon whose approval ongoing conditions may be imposed, a condition will be added which requires the owner of the land upon which the stormwater facility is located to maintain that facility in accordance with the requirements specified in the maintenance plan (Attachment F in the Major SWMP). Failure to perform maintenance may then be addressed as a violation of the permit, under the ordinance governing that permit process.

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5. **Subdivision Public Report:** Tentative Map and Tentative Parcel Map approvals will be conditioned to require that, prior to approval of a Final or Parcel Map, the subdivider shall provide evidence to the Director of Public Works, that the subdivider has requested the California Department of Real Estate to include in the public report to be issued for the sales of lots within the subdivision, a notification regarding the maintenance requirement. (The requirement for this condition would not be applicable to subdivisions which are exempt from regulation under the Subdivided Lands Act, or for which no public report will be issued.)
6. **BMP Maintenance Agreement with Easement and Covenant:** An agreement will be entered into with the County, which will function three ways:
  - a. It will commit the land to being used only for purposes of the BMP;
  - b. It will include an agreement by the landowner, to maintain the facilities in accordance with the maintenance plan (this obligation would be passed on to future purchasers or successors of the landowner, as a covenant); and
  - c. It will include an easement giving the County the right to enter onto the land (and any necessary adjacent land needed for access) to maintain the BMPs.

**SECTION F9: FUNDING SOURCES**

The following is a list of the funding sources that have been deemed acceptable by the County of San Diego (listed by Maintenance Category):

**CATEGORY 1**

None Required

**SECTION F10: INSPECTION AND MAINTENANCE RECORDS**

All copies of the project's Maintenance Logs and Inspections Reports should be kept on file with primary copy of this Stormwater Management Plan – Major. Records should be kept for the life of the project site's BMPs.

**SECTION F11: APPROPRIATE MAINTENANCE MECHANISMS**

A copy of Table 5.1: Determinations of Appropriate Maintenance Mechanism(s) from the County SUSMP (p137, 1-8-11 Edition) is provided below for reference. This table has been annotated to make it project specific.

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**TABLE 5.1 (MODIFIED) – DETERMINATIONS OF APPROPRIATE MAINTENANCE MECHANISM(S)**

		<i>Increased risk, complexity, cost or other maintenance factors</i>		
		<i>Public Responsibility</i>		
		<i>First Category</i>	<i>Second Category</i>	<i>Third Category</i>
<b>Importance of Maintenance</b>		Minimal Concern; inherent in BMP or property stewardship, minimal maintenance verification is required.	Need to make sure private owners maintain, and provide County ability to step in & perform maintenance	Warrants Flood Control District (FCD) assuming responsibility, with funding related to project
<b>Typical BMPs:</b>		<ul style="list-style-type: none"> <li>• Vegetated Swales</li> <li>• Bioretention</li> <li>• Flow-Through Planters</li> <li>• Cistern with Bioretention</li> <li>• Trash Racks</li> <li>• Private Road Drain Inserts</li> </ul>	[First Category] plus: <ul style="list-style-type: none"> <li>• Settling Basins</li> <li>• Infiltration Devices</li> <li>• Media Filters</li> <li>• High-Rate Biofilters</li> <li>• Hydrodynamic Separator Systems</li> </ul>	[Second Category] plus: <ul style="list-style-type: none"> <li>• Settling Basins</li> <li>• Wet Ponds</li> <li>• Constructed Wetlands</li> </ul>
<b>Mechanisms</b>		<ol style="list-style-type: none"> <li>1. Stormwater Ordinance requirement [section 67.8136(a)&amp;(b)] with code enforcement</li> <li>2. Nuisance abatement with costs charged back to the property owner.</li> <li>3. Condition in ongoing permit such as a Major Use Permit (if project has a MUP)</li> <li>4. Notice to new purchasers [Section 67.813(e)]</li> <li>5. Subdivision public report 'white papers' to include notice of maintenance responsibility.</li> <li>6. Recorded easement agreement with covenant binding on successors.</li> </ol>	<ol style="list-style-type: none"> <li>1. Stormwater Ordinance requirement [section 67.8136(a)&amp;(b)]</li> <li>2. Nuisance abatement with costs charged back to the property owner.</li> <li>3. Condition in ongoing permit such as a Major Use Permit (if project has a MUP)</li> <li>4. Notice to new purchasers [Section 67.813(e)]</li> <li>5. Subdivision public report 'white papers' to include notice of maintenance responsibility.</li> <li>6. Recorded easement agreement with covenant binding on successors.</li> </ol>	<ol style="list-style-type: none"> <li>1. Easement Dedicated to FCD.</li> <li>2. Inclusion into a watershed specific Community Facility District (FCD) or individual formation of benefit area/CFD</li> <li>3. County Flood Control maintenance documentation.</li> </ol>
<b>Funding Source(s)</b>		None necessary	Security (Cash deposit, Letter of Credit, or other acceptable to County) for interim period. Agreement for security to contain provisions for release or refund, if not used.	1. Land owned or dedicated to County of Flood Control District (FCD). 2. FCD/County maintenance documentation.  Varies: gas tax for BMP in road ROW, Transnet for CIP projects, Special funding of General funding for others.



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**BMP MAINTENANCE LOG**

The following is a Maintenance Log that is to be used in tracking the post-construction maintenance of installed post-construction BMPs.

**PARTY RESPONSIBLY FOR MAINTAINING MAINTENANCE LOG**

Project Name:	Valley Center Cemetery District
Project Location:	Miller Road
Permit Number (Land Development Projects):	PDS2014-MUP-14-029, PDS2014-ER-14-08-010
Fiscally Responsible Party for O&M:	Valley Center Cemetery District
Contact Name:	MS. Luis Kelly
Contact Street Address:	P O Box 645
Contact City, State, Zip:	Valley Center, CA 92082
Contact Phone Number:	(760) 749-1186
Contact Fax Number:	
Contact Email Address:	
Start Date of Responsibility:	
O&M Plan Prepared By:	Wynn Engineering, Inc.
O&M Preparer Street Address:	27315 Valley Center Road
O&M Preparer City, State, Zip:	Valley Center, CA 92082
O&M Preparer Phone Number:	(760) 749-8722
O&M Preparer Fax Number:	(760) 749-9412
O&M Preparer Contact:	Gary R. Wynn
O&M Preparer Contact Email Address:	<a href="mailto:gary@wynnengineering.com">gary@wynnengineering.com</a>

**MAINTENANCE LOG SHEET**

Please use the Maintenance Log Sheet on the following page as a blank to be copied and used for the project's O&M Maintenance Log. All items listed below pertain only to maintenance activities. Please keep the log sheets for proof that O&M has been performed on all applicable post-construction BMPs. In addition, place all applicable contacts, contracts, and inspection reports with the maintenance logs.

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MAINTENANCE LOG FOR VCCD				Sheet	OF
DATE	COMPANY	COMPANY PHONE	COMPANY SIGNATURE	INSPECTION REPORTS	
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		( ) - -		<input type="checkbox"/> Yes	<input type="checkbox"/> No

**MAJOR STORMWATER MANAGEMENT PLAN  
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**BMP INSPECTION REPORT**

GENERAL INSPECTION INFORMATION	
Project Name	Valley Center Cemetery District
County Reference No.:	
Owner's Name:	Valley Center Cemetery District
Inspector's Name:	
Inspector's Company:	
Inspector's Phone No.:	
Inspector's Signature:	
Inspection Date:	

INSPECTION DAY INFORMATION				
Inspection Type:	<input type="checkbox"/> Prior to Forecast Rain <input type="checkbox"/> 24-Hour Interval During Extended Rain Event <input type="checkbox"/> After a rain Event <input type="checkbox"/> Other: _____ _____			
	Season:	<input type="checkbox"/> Wet (Rainy)		<input type="checkbox"/> Dry (non-Rainy)
Storm Data:	Storm Start Date & Time:			
	Storm Duration (hours):			
	Time Elapsed Since Last Storm:			
		Min	Hrs	Days
Approximate Rainfall Amount (mm)				



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<b>COSD LID BIORETENTION SYSTEM (FS-7) INSPECTION TABLE</b>			
Was this item inspected this site visit:	<input type="checkbox"/> YES <input type="checkbox"/> NO		
<b><i>INSPECTION REQUIREMENT</i></b>	<b><i>INSPECTED THIS VISIT</i></b>		<b><i>See Corrective Action Note</i></b>
Inspect Health of Vegetation	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Inspect Debris Accumulation	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Inspect for Sedimentation Accumulation	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Inspect for Standing Water	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

**Corrective Action Notes:**

1. \_\_\_\_\_  
 \_\_\_\_\_
2. \_\_\_\_\_  
 \_\_\_\_\_
3. \_\_\_\_\_  
 \_\_\_\_\_
4. \_\_\_\_\_  
 \_\_\_\_\_
5. \_\_\_\_\_  
 \_\_\_\_\_



WHEN RECORDED MAIL TO:

(property owner)

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## MAINTENANCE NOTIFICATION AGREEMENT FOR CATEGORY 1 STORMWATER TREATMENT CONTROL BMP's

THIS AGREEMENT is made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_. the Owner(s) of the hereinafter described real property:  
Address \_\_\_\_\_ Post Office \_\_\_\_\_ Zip Code \_\_\_\_\_  
Assessor Parcel No.(s) \_\_\_\_\_

List, identify, locate and describe the TC BMP(s)

Owner(s) of the above property acknowledge the existence of the stormwater Treatment Control Best Management Practice (TCBMP) structure(s) on the said property. Perpetual maintenance of the TCBMP(s) is the requirement of the State NPDES Permit, Order No. R9-2007-0001, Section D.1.d.(6) and the County of San Diego Watershed Protection Ordinance (WPO) Ordinance No. 10096 Section 67.812 through Section 67.814, and County Standard Urban Stormwater Mitigation Plan (SUSMP) Chapter 5. In consideration of the requirement to construct and maintain TCBMP(s), as conditioned by Discretionary Permit, Grading Permit, and/or Building Permit (as may be applicable), I/we hereby covenant and agree that:

1. I/We are the owner(s) of the existing (or to be constructed concurrently) premises located on the above described property.
2. I/We shall take the responsibility for the perpetual maintenance of the TCBMP(s) as listed above in accordance with the maintenance plan and in compliance with County's self inspection reporting and verification for as long as I/we have ownership of said property(ies).
3. I/We shall cooperate with and allow the County staff to come onto said property(ies) and perform inspection duties as prescribed by local and state regulators.
4. I/We shall inform future buyer(s) or successors of said property(ies) of the existence and perpetual maintenance requirement responsibilities for TCBMP(s) as listed above and to ensure that such responsibility shall transfer to the future owner(s).
5. I/We will abide by all of the requirements and standards of Section 67.812 through Section 67.814 of the WPO (or renumbering thereof) as it exists on the date of this Agreement, and which hereby is incorporated herein by reference.

This Agreement shall run with the land. If the subject property is conveyed to any other person, firm, or corporation, the instrument that conveys title or any interest in or to said property, or any portion thereof, shall contain a provision transferring maintenance responsibility for TCBMP(s) to the successive owner according to the terms of this Agreement. Any violation of this Agreement is grounds for the County to impose penalties upon the property owner as prescribed in County Code of Regulatory Ordinances, Title 1, Division 8, Chapter 1 Administrative Citations §§18.101-18.116.

Owner(s) Signature(s) \_\_\_\_\_

STATE OF CALIFORNIA )  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared \_\_\_\_\_ who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.  
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.  
WITNESS my hand and official seal.

Signature \_\_\_\_\_



**ATTACHMENT G: TREATMENT CONTROL BMP CERTIFICATION FOR  
DPW PERMITTED LAND DEVELOPMENT PROJECTS**

After TCBMP construction, complete a TCBMP Certification form to verify with County staff that all constructed TCBMPs on the record plans match the approved TCBMPs in the most current SWMP. TCBMP Certification must be completed and verified for permit closure.

Please see the attached site specific County of San Diego Department of Public Works, *Treatment Control BMP Certification for DPW Permitted Land Development Projects*.





County of San Diego
DEPARTMENT OF PUBLIC WORKS

Treatment Control BMP Certification
for DPW Permitted Land Development Projects

Permit Number (e.g. L-grading) \_\_\_\_\_ HSU Watershed \_\_\_\_\_

Project Name \_\_\_\_\_

Location / Address \_\_\_\_\_

Maintenance Notification/Agreement No.: \_\_\_\_\_

Responsible Party for Construction Phase

Developer's Name: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Engineer of Work: \_\_\_\_\_

Engineer's Phone Number: \_\_\_\_\_

Responsible Party for Ongoing Maintenance

Owner's Name(s)\* \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

\* Note: If a corporation or LLC, provide information for principal partner or Agent for Service of Process. If an HOA, provide information for the Board or property manager at time of project closeout.







**For Applicant to submit to PDCI:**

- Copy of the final accepted SWMP and any accepted addendum.
- Copy of the most current plan showing the Stormwater TCBMP Table, plans/cross-section sheets of the TCBMPs and the location of each verified as-built TCBMP.
- Photograph of each TCBMP.
- Copy of the approved TCBMP maintenance agreement and associated security

By signing below, I certify that the treatment control BMP(s) for this project have been constructed and all BMPs are in substantial conformance with the approved plans and applicable regulations. I understand the County reserves the right to inspect the above BMPs to verify compliance with the approved plans and Watershed Protection Ordinance. Should it be determined that the BMPs were not constructed to plan or code, corrective actions may be necessary before permits can be closed.

Please sign your name and seal.

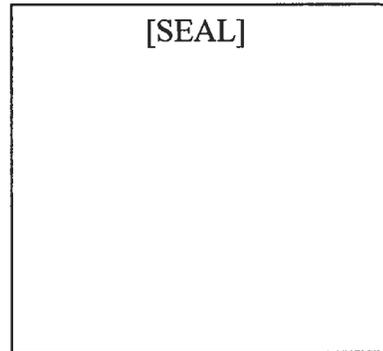
Professional Engineer's Printed Name:

\_\_\_\_\_

Professional Engineer's Signed Name:

\_\_\_\_\_

Date: \_\_\_\_\_









## **ATTACHMENT H: HMP STUDY**

The proposed project is not providing a separate HMP Study; therefore, this section is not required.



## ATTACHMENT I: GEOMORPHIC ASSESSMENT

This section is not required at this time as the standard channel characteristics are being used as a specific geomorphic assessment was not performed.

**Please Note:** *Contact County staff immediately if you are planning to conduct a Geomorphic Assessment. A Geomorphic Assessment must be performed if the project is using a "Medium" low flow threshold of 0.3Q2 or a "High" low flow threshold of 0.5Q2.*



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**ATTACHMENT H: HMP EXEMPTION DOCUMENTATION**

The proposed project is not exempt from and hydromodification management per the County SUSMP applies to the proposed improvements and have been included throughout this SWMP-Major.



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**ATTACHMENT K – MAJOR SWMP ADDENDUM**

This Major Storm Water Management Plan Addendum consists of all the extra information that is required by the County of San Diego in their Storm Water Management Plan – Major form but no space is left or additional space is required.

At this time there are no additional items included in this addendum.



**HYDROLOGIC BASIN INFORMATION**

BASIN NUMBER: 903.12  
 HYDROLOGIC UNIT: SAN LUIS REY HU  
 HYDROLOGIC AREA: LOWER SAN LUIS REY HA  
 HYDROLOGIC SUB-AREA: BONSALL HSA  
 RECEIVING WATERS: KEYS CREEK

**BASIN SOURCE INFORMATION**

RECEIVING WATERS: 903.12  
 DOWNSTREAM DISTANCE: ± 12 MILES  
 POLLUTANTS/STRESSORS: BENTHIC COMMUNITY EFFECTS  
 NITROGEN  
 PHOSPHORUS  
 SELENIUM

**POLLUTANTS OF CONCERN**

THE FOLLOWING ARE ANTICIPATED POLLUTANTS OF CONCERN FOR THE PROJECT SITE:

- SEDIMENTS
- HEAVY METALS
- ORGANIC COMPOUNDS
- TRASH & DEBRIS
- OIL & GREASE

THE FOLLOWING ARE POTENTIAL POLLUTANTS OF CONCERN FOR THE PROJECT SITE:

- NUTRIENTS
- OXYGEN DEMANDING SUBSTANCES

**BASIN BENEFICIAL USES**

WATER BODY: KEYS CREEK  
 TYPE: SURFACE WATERS  
 BENEFICIAL USES: MUN REC-1 AGR REC-2 IND WARM  
 WLD

**CASQA BMP REFERENCE NOTE**

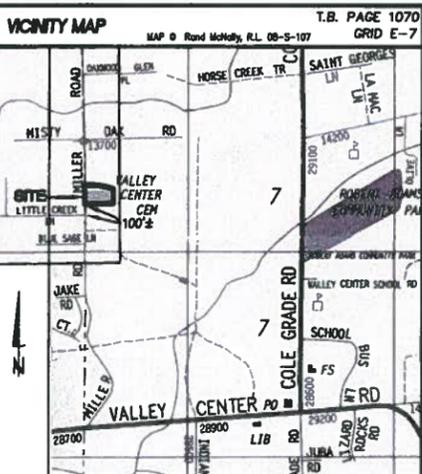
ALL CASQA BMP FACT SHEETS REFERENCED ON THIS PLAN ARE FROM THE CASQA NEW DEVELOPMENT BMP HANDBOOK. COPIES OF THE REFERENCED BMP FACT SHEETS CAN BE FOUND BY VISITING THE FOLLOWING WEB SITE: <http://www.casqbmpfactbooks.com/Development.asp>

**COUNTY LID FACT SHEET NOTE**

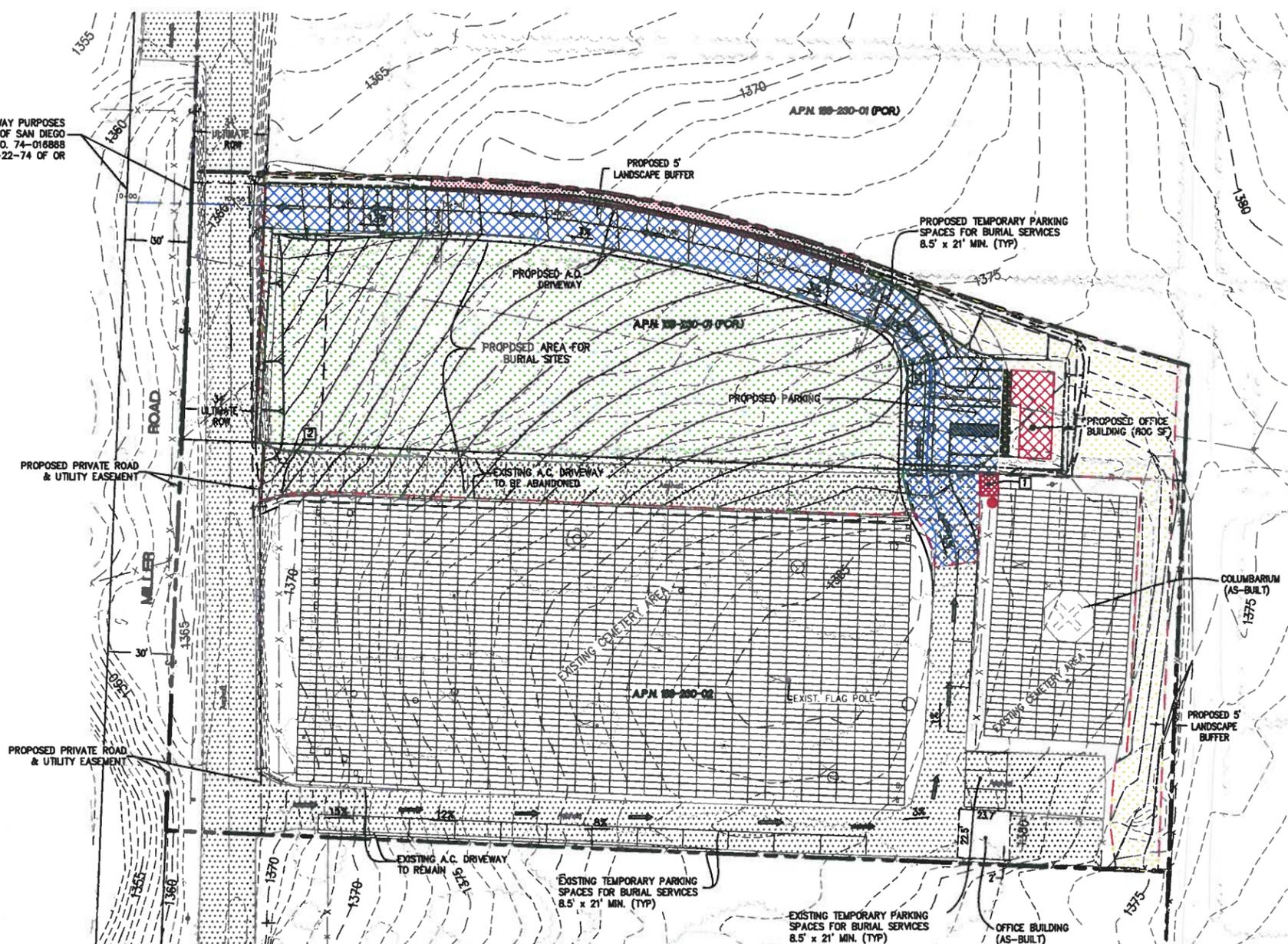
ALL COUNTY OF SAN DIEGO LID FACT SHEETS CAN BE FOUND IN THE COUNTY OF SAN DIEGO LOW IMPACT DEVELOPMENT HANDBOOK (JULY 20, 2007 DRAFT EDITION). THIS MANUAL CAN BE OBTAINED FROM THE COUNTY OF SAN DIEGO.

**LEGEND**

- 1 EXISTING TRASH ENCLOSURE (6' HIGH C.L. FENCING W/SLATS)
- 2 EXISTING DRIVEWAY ENTRANCE TO BE ABANDONED. EXISTING RETAINING WALLS AND A.C. PAVING TO BE REMOVED AND FILLED (SEE PRELIMINARY GRADING PLAN)



F:\2011\11-059 VC CEMETERY DISTRICT\DWG\11-059 SWMP - MAR D.L.DWG

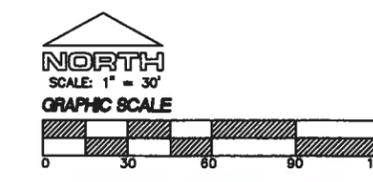


**SOURCE CONTROL BMP LEGEND**

POTENTIAL SOURCES OF RUNOFF POLLUTANTS	PERMANENT CONTROLS & OPERATIONAL BMPs	FACT SHEET	SYMBOL
D2. LANDSCAPE/OUTDOOR PESTICIDE USE	SHOW LOCATIONS OF NATIVE TREES TO REMAIN UNDISTURBED	CASQA SD-10	NON-PLOTTABLE
	USE EFFICIENT IRRIGATION PRACTICES	CASQA SD-12	NON-PLOTTABLE
	USE PLANTS THAT TOLERATE SATURATED SOIL CONDITIONS FOR RETAINING STORMWATER	CASQA SD-10	NON-PLOTTABLE
	USE PEST-RESISTANT PLANTS NEAR HARDSCAPE	CASQA SD-10	NON-PLOTTABLE
	SELECT PLANTS APPROPRIATE TO SITE SOILS, SLOPES, CLIMATE, SUN, WIND, RAIN, LAND USE, AIR MOVEMENT, ECOLOGICAL CONSISTENCY, AND PLANT INTERACTIONS	CASQA SD-10	NON-PLOTTABLE
	BUILDING AND GROUNDS MAINTENANCE	CASQA SC-41	NON-PLOTTABLE
G. REFUSE AREAS	POST "DO NOT DUMP HAZARDOUS MATERIALS HERE" SIGN ON OR NEAR DUMPSTERS	N/A	NON-PLOTTABLE
	WASTE HANDLING & DISPOSAL	CASQA SC-34	NON-PLOTTABLE
P. PLAZAS, SIDEWALKS, AND PARKING LOTS	SWEEP REGULARLY TO PREVENT THE ACCUMULATION OF TRASH & DEBRIS. WASH WATER SHALL BE PREVENTED FROM REACHING ANY STORM DRAIN FACILITIES	N/A	NON-PLOTTABLE

**SCALE NOTE**

DO NOT SCALE THIS DRAWING. THE SCALE INDICATED IS FOR RELATIVE SCALE ONLY. THIS MAP IS SCHEMATIC.



WEI JOB NO. 11-059 5-7-14 B-260  
 I CERTIFY THAT I HAVE READ ALL ZONING REGULATIONS AND BEST MANAGEMENT PRACTICES (BMPs) NOTES AND THAT I AM THE DESIGNER OF THE PROPOSED PROJECT:  
 GARY R. WYNN, C 43202 DATED: 3/31/18  
 EXP 3/31/18



WYNN ENGINEERING, INC.  
 27115 Valley Center Road  
 Valley Center, CA 92082  
 Voice: 760.749.8722  
 Fax: 760.749.7493

SHEET DESCRIPTION:  
**STORMWATER MANAGEMENT PLAN**  
**MAJOR USE PERMIT**  
 Date Plotted: Dec. 08, 2014 - 3:13pm  
 Plotted By: BRYANB

PROJECT INFORMATION:  
**VALLEY CENTER CEMETERY DISTRICT**  
**28953 MILLER ROAD**  
**VALLEY CENTER, CA 92082**

DATE: 8-19-14  
 SCALE: 1"=30'  
 ENGINEER: RR  
 DRAFTER: RR  
 JOB No: 11-059  
 DWG No: B-260  
**ATT B**  
**SOURCE CONTROL**  
 SHEET 1 OF 1 SHEETS

