Mojave River Watershed Group

Small Municipal Separate Storm Sewer System General Permit

Waste Discharge Identification Number
6B336SM40301

Fiscal Year 2008-09 Annual Report

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Acronyms

BMP	Best Management Practice
CASQA	California Stormwater Quality Association
LID	Low Impact Development
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MRWG	Mojave River Watershed Group
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
RWQCB	Regional Water Quality Control Board
SGA	S. Groner Associates, Inc.
SWMP	Stormwater Management Program
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WQMP	Water Quality Management Plan

1.0 Introduction

Phase II Small MS4 General Permit

The Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit program is intended to address potentially adverse impacts to water quality by instituting the use of controls on unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Stormwater discharges from MS4s in urbanized areas are a concern because of the potential for these discharges to contain pollutants. Concentrated development in urbanized areas substantially increases impervious surfaces, such as city streets, driveways, parking lots, and sidewalks, on which pollutants from concentrated human activities can settle and remain until a storm event washes them into nearby storm drains.

Common pollutants include pesticides, fertilizers, oil and grease, trash and other debris, metals, and sediment. Another concern is the possible illicit connections of sanitary sewers, which can result in high levels of fecal coliform bacteria entering the storm drain system. Stormwater runoff can pick up and transport these and other potentially harmful pollutants and discharge them untreated to waterways. Under some circumstances, these discharges can result in a loss in aesthetic value and contaminate local drinking water supplies.

Uncontrolled runoff from construction sites is a water quality concern because of the effects that sedimentation can have on local water bodies, particularly small streams. Numerous studies have shown that the amount of sediment transported by stormwater runoff from construction sites with no controls is significantly greater than from sites with controls. In addition to sediment, pollutants such as pesticides, petroleum products, construction chemicals, solvents, asphalts, and acids can be present at construction sites and have the potential to be transported by stormwater runoff. During storms, construction sites can be the source of sediment-laden runoff, which can overwhelm a small stream channel's capacity, resulting in streambed scour and streambank erosion.

Mojave River Watershed Group General Permit Coverage and Annual Report

In accordance with the State Water Resources Control Board (SWRCB) Water Quality Order No. 2003-0005-DWQ and National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000004, the Town of Apple Valley, Cities of Hesperia and Victorville, and County of San Bernardino, collectively referred to as the Mojave River Watershed Group (MRWG) agencies, submitted a Notice of Intent (NOI) and Stormwater Management Program (SWMP) to the Lahontan Regional Water Quality Control Board (RWQCB) in August 2003 requesting coverage under the Phase II Small MS4 General Permit. The RWQCB accepted the SWMP and issued coverage under the Phase II permit to the MRWG Permittees in February 2005.

The MRWG SWMP consists of a comprehensive plan to develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP) to protect water quality. The SWMP includes the following six Minimum Control Measures (MCMs):

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

Each MCM consists of various implementation measures and Best Management Practices (BMPs) to prevent or reduce adverse affects on stormwater runoff and receiving water bodies. In addition, each MCM has several measureable goals to demonstrate compliance and effective implementation of the stormwater management program.

This Annual Report covers the period from July 1, 2008 through June 30, 2009, which represents the fifth year of the program. The Annual Report is an evaluation of the MRWG's stormwater program and provides a status of the Fifth Year Measureable Goals for each of the MCMs. It also includes an assessment of the effectiveness of the selected BMPs. The majority of the Fifth Year Measurable Goals involved program implementation, training, and effectiveness assessments of policies, procedures, and legal authority.

1.1 Summary of Major Accomplishments for Fiscal Year 2008-09

This Unified Annual Report will detail the successful completion of all Fiscal Year 2008-09 Measureable Goals and demonstrate Permittee compliance with the Phase II Small MS4 General Permit. Major accomplishments between July 1, 2008 and June 30, 2009, included:

- Development of a Model Stormwater Ordinance to strength existing municipal codes and ordinances to provide adequate legal authority to implement and enforce the requirements of the Phase II Small MS4 General Permit.

- Development of a Draft Area-Wide Enforcement Response Guidance manual to supplement and enhance each member agency's internal enforcement action guidelines.

- Completion of comprehensive stormwater training programs for illicit discharge detection and elimination, construction site stormwater runoff controls, post-construction stormwater management in new development and redevelopment, and municipal operations.

- Distribution of pesticide, paint, and fertilizer outreach materials to "do-it-yourselfers" through partnerships with local businesses.

- Pollution prevention presentations at local elementary schools resulting in three (3) schools independently organizing litter clean up events and reducing pollutant loads to the storm drain system.

- Member agency sponsored litter clean up events resulting in the collection of 27.4 tons of trash and recycling of 4.5 tons of metal.

- Participation in multiple watershed wide meetings to obtain community input and involvement.

- Limited number of illicit discharges identified as a result of post-construction BMPs infiltrating urban and stormwater runoff onsite.

- Pollutant load reduction of 517.2 tons as a result of household hazardous waste collected.

- Establishment of effective relationships with builders to quickly resolve deficient construction site BMPs and avoid enforcement actions.

2.0 Background

The Mojave River Watershed encompasses approximately 4,500 square miles and is located entirely within San Bernardino County. The total population in the Mojave River Watershed was approximately 324,000 people in 2007 with much of the existing population concentrated in the Victor Valley, which is located north of the San Bernardino Mountains and borders the edge of the Mojave Desert. The Victor Valley includes the communities of Adelanto, Apple Valley, Hesperia, Lucerne Valley, Oak Hills, Phelan, Victorville, and Wrightwood. Additional urban growth is expected throughout the watershed. The population for the entire watershed is projected to reach nearly one-half million people by the year 2015.

The primary geographic and hydrologic feature of the watershed is the Mojave River. The headwaters of the Mojave River are in the San Bernardino Mountains, which annually receives greater than 40 inches of precipitation at its highest elevations. Much of the winter precipitation in the San Bernardino Mountains falls in the form of snow that provides spring recharge to the Mojave River system. Historically, the annual recharge from the headwaters is approximately 75,000 acre-feet. The Mojave River channel, through both surface and subsurface flow, transects the watershed a linear distance of approximately 120 miles to its terminus at Silver Dry Lake near the Community of Baker. Aside from intense storm events, the Mojave River channel is typically dry downstream of the Mojave Forks Dam except in select locations where groundwater is forced to the surface by geologic structures.

The Mojave River Watershed is divided into five sub-basins based on hydrologic features. The United States Geological Survey (USGS) Report 95-4189 identified these sub-basins as:

1. Headwaters – Tributaries above the Mojave Forks Dam;
2. Upper Basin - Mojave Forks Dam to the Lower Narrows at Victorville;
3. Middle Basin - Lower Narrows to the Waterman Fault at Barstow;
4. Lower Basin - Waterman Fault to Afton Canyon; and
5. Tailwater - Afton Canyon to Silver Lake.

The sub-basins include an aquifer system consisting of two interconnected aquifers – floodplain aquifer and regional aquifer. The floodplain aquifer is composed of sand and gravel, which is as much as 250 feet thick, and generally follows the surface expression of the Mojave River. The regional aquifer, which is composed of sand, silt and clay, generally underlies and surrounds the floodplain aquifer.

3.0 Effectiveness Assessment of Fiscal Year 2008-09

Program Effectiveness Assessment Strategy

The SWMP is comprised of six (6) program elements known as MCMs, each with specific control measures to reduce pollutants in urban and stormwater discharges. These MCMs are being implemented on a jurisdictional and watershed wide basis and each MCM is iterative and incorporates phases of assessment to determine whether programmatic outcomes are being achieved. This assessment phase is formalized as the Annual Report. The strategy for the Annual Report is based on the selection and annual evaluation of implementation assessment measures.

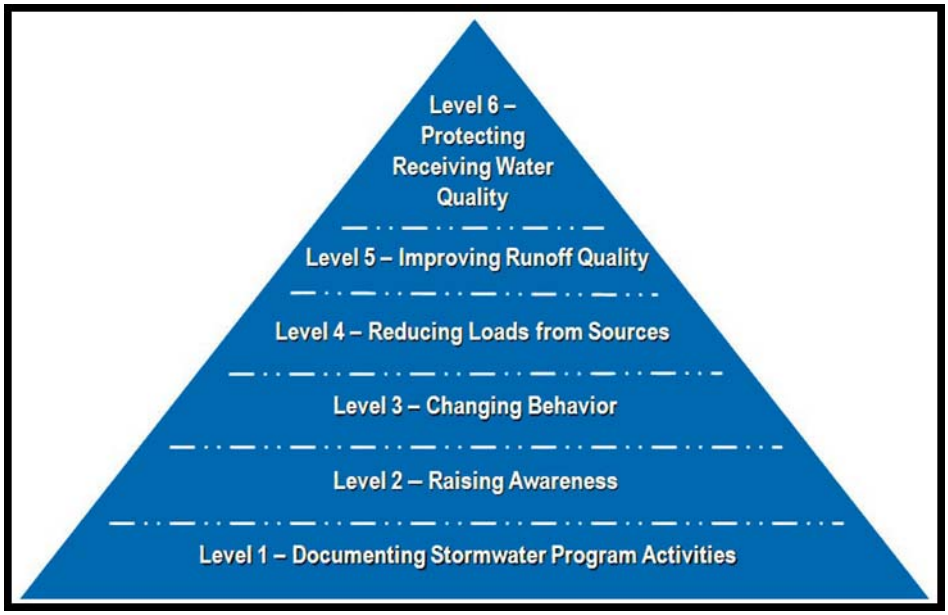

Figure 3-1 Approaches to Evaluate Stormwater Program Effectiveness
Source: CASQA, 2007 (www.casqa.org)

Outcomes are the result of an activity, program element, or overall program and can be characterized in terms of six levels. Figure 3-1 shows these levels as a gradation from activity-based to water quality-based outcomes and illustrates the progression of each successive step toward the ultimate goal of environmental improvement. In general, Levels 1 to 3 can be considered *Implementation Outcomes*, Levels 5 and 6 *Water Quality Outcomes*, and Level 4 a combination of the two types. Each level has value in informing the management process and it bears emphasis that not all are necessary or possible in every instance (CASQA, 2007)[1].

Assessment Measures

Assessment measures can be categorized many different ways. In this Annual Report, two categories are recognized, one related to the short term confirmation of BMP implementation and the other to long term verification of environmental improvement. In essence, the categorization of measures reflects two basic assessment questions:

- Are program elements being implemented correctly?

[1] California Stormwater Quality Association (CASQA), 2007. "*Municipal Stormwater Program Effectiveness Assessment Guidance.*"

- Are environmental improvements being realized?

Programmatic and environmental indicators are conceived by the U.S. Environmental Protection Agency (USEPA) as having a hierarchical relationship as shown in Table 3-1. This relationship further illustrates the fact that environmental outcomes rest on, or follow from, jurisdictional program implementation. Moreover, it points to the reality that scientifically robust evidence of changing ecosystem quality will follow confirmation of program implementation and should not be expected to be evident concurrently.

Table 3-1 Hierarchy of Indicators (USEPA, 1998)

Environmental Indicators	6	Ultimate Impacts: ➢ Ecological ➢ Health ➢ Welfare
	5	Body Burden/Uptake
	4	Ambient Conditions
	3	Discharge/Emission
Programmatic Indicators	2	Actions by Regulated Community
	1	Actions by Regulators

Key attributes of assessment measures include:

- Measurability (statistically measurable on a frequent basis);
- Relevance (significant, demonstrable relation to strategy and objectives);
- Reliability (easily documented and reproducible);
- Availability (based upon data obtainable at reasonable cost);
- Scientific validity (based on sound science), and
- Replicability (capable of being regularly updated).

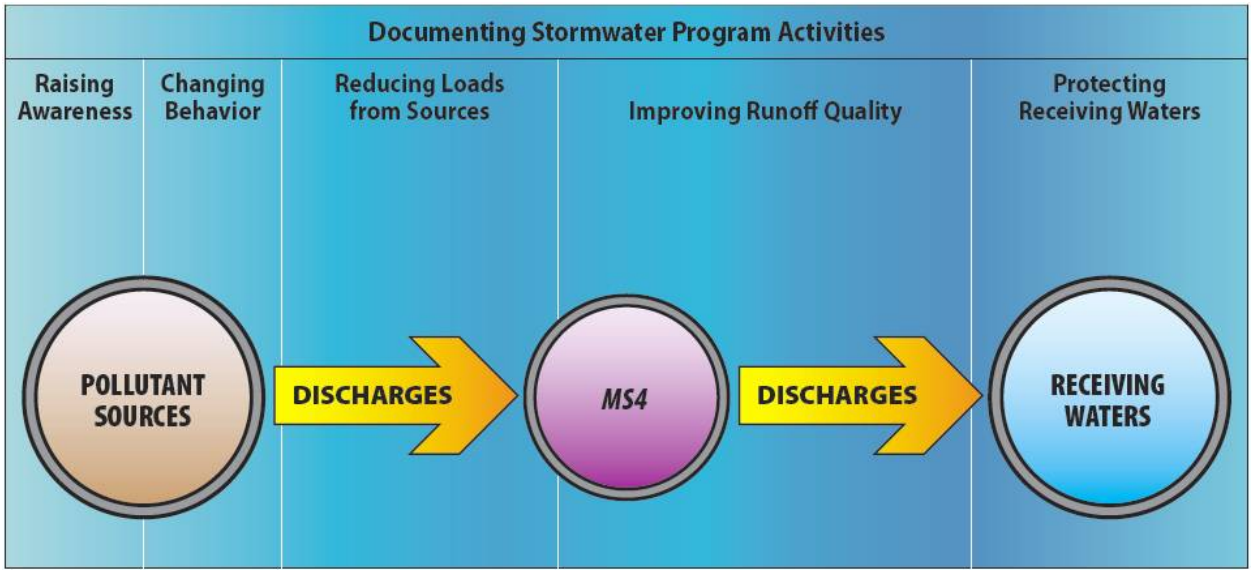

Figure 3-2 Documenting Stormwater Program Activities

Effectiveness Assessment

A program of effectiveness assessment requires the initial establishment of a set of baseline conditions. Thereafter, effectiveness can be evaluated by comparisons of successive years of indicator information against the baseline data. Where the period of evaluation is characterized by the implementation of new program requirements, determinations of program effectiveness will initially be limited to confirmation of program implementation. However, it must be recognized that direct measures of program effectiveness may not be available within the timeframe of the five-year Phase II Small MS4 General Permit. This lack of direct measure confirmation arises because:

- Baseline conditions are not readily established;
- Water quality changes in response to program implementation are likely to be very slow; and
- Establishing a link between receiving water condition and program activities is difficult at the watershed scale when programs are being implemented incrementally within the development and redevelopment cycle.

The process of stormwater program effectiveness assessment is conducted annually and focuses on program implementation. Inferences about the connection of management program elements to water quality improvements made in these assessments will predominantly be drawn from the assessment of programmatic indicators and indirect measures of progress. In addition, the outcome of the assessment may propose revisions to the SWMP. The effectiveness assessments and Outcome Levels are presented below for each of the individual MCMs.

While program effectiveness assessment is a key step in the iterative adaptive process of program implementation, it should be realized that effectiveness assessment itself is a part of the management process that is also evolving. Assessing program effectiveness is recognized as a challenge for program managers across California, and the MRWG member agencies support the effort of the California Stormwater Quality Association (CASQA) to develop guidance in this area at a statewide level. This guidance was published as the *Municipal Stormwater Program Effectiveness Assessment Guidance* (CASQA, 2007) and will be used for the purpose of assessing the MRWG's SWMP implementation efforts to comply with the Phase II Small MS4 General Permit and reduce the discharge of pollutants from the MS4 to the MEP to protect water quality.

3.1 MCM 1 – Public Education and Outreach

The Phase II Small MS4 General Permit requires the implementation of a public education program to distribute educational materials to the community and conduct outreach activities about the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

The MRWG SWMP outlined a plan to meet the requirements of this MCM with education and outreach programs for three diverse groups: students, homeowners, and business people. The objectives of the Public Education and Outreach Program are to:

- Reduce the amount of stormwater pollution in the Mojave River Watershed;
- Change the mind-set of a large and diverse population while educating target audiences about solutions to stormwater pollution;
- Improve general understanding of urban and stormwater runoff pollution prevention methods;
- Create synergy by using an overarching campaign approach, "look" and tone, and by unifying multiple pollution prevention efforts;
- Impact more than one audience at a time with a single campaign;
- Build bridges and forge partnerships that integrate city and jurisdictional programs; and
- Document whether the education outreach effort resulted in behavior change that reduced pollution.

A synopsis detailing the status of implementation for each of the Public Education and Outreach Program Fifth Year Measureable Goals is provided below in Table 3-2.

Table 3-2 Public Education and Outreach Program Fifth Year Measurable Goals

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	Evaluate effectiveness of the Public Education and Outreach Program, refocus program as required, annually. ➢ Submit articles and ads to local media outlets ➢ Establish/maintain environmental outreach booths at local and regional events	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		
2	Homeowner Education and Outreach: Distribute the second set of brochures to all homeowners and mount web pages.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

Table 3-2 Public Education and Outreach Program Fifth Year Measurable Goals								
BMP	**Description**	**Status**						
		Implemented	**Not Applicable**	**Modified**	**Effective**	**Unknown**	**Not Effective**
3	Homeowner Education and Outreach: Evaluate the effectiveness of the Homeowner Education and Outreach Program based on the findings of the other Minimum Control Measures. Focus the program in the areas that promise the greatest opportunity to improve stormwater quality.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		
4	Business Outreach: Evaluate the effectiveness of the Business Outreach Program based on the findings of the other Minimum Control Measures. Refocus the program in the areas that promise the greatest opportunity to improve storm water quality.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.1.1 Implementation Status of Measurable Goals

The MRWG successfully accomplished the fifth year goals of MCM 1, Public Education and Outreach. Program accomplishments included publishing articles in appropriate publications for the targeted audience, participating in local and regional events to disseminate outreach materials, distributing educational brochures and other handouts at high traffic locations for the targeted consumer, and updating a watershed specific website to provide residents, businesses, and City and County representatives with additional educational materials and references.

Educational Articles Targeted to School Children, Parents, and Teachers

The MRWG through the use of a consultant, S. Groner Associates, Inc. (SGA), was able to form partnerships with local elementary schools to submit articles on stormwater pollution and proper household hazardous waste disposal for inclusion in school newsletters which went out to teachers and parents. The MRWG coordinated with six (6) schools to place these stormwater pollution prevention articles in their newsletters.

Environmental Outreach Booths at Local and Regional Events

In order to reach the target audience of "do-it-yourselfers", the MRWG participated in two (2) community events where the prime audience would be present. The two events included the 24th Annual High Desert Home, Recreation, and Lifestyle Show from November 7-9, 2008 and the 25th Annual High Desert Home and Garden Show from April 3-5, 2009. Both events were held at the San Bernardino County Fairgrounds in Victorville. The MRWG booths displayed pictures of litter caught in storm drains and conveyed proper trash and household hazardous waste disposal messages. Materials such as tip cards, tear sheets, and pens made from recycled materials were distributed as an effort to educate homeowners on stormwater pollution and ways to prevent it. City and County staff were able to hand out public education materials and speak one-on-one with event attendees regarding stormwater pollution prevention.

Combined Homeowner and Business Outreach Program and Material Distribution

To yield the highest pollution reduction, the Public Education and Outreach Program executed a comprehensive set of outreach activities to target homeowners and local businesses. This included forming partnerships with garden centers/nurseries, paint stores, hardware stores, and home improvement stores in order to place outreach materials at the finger tips of consumers.

The campaign focused on "pollutant specific outreach," since the majority of stormwater is created by certain pollutants such as pesticide, fertilizer, and paint. Educational materials promoted simple pollution prevention behaviors associated with these specific pollutants. The materials were placed in the proximity of products containing the potential pollutants. Outreach materials included tear sheets, tip cards, shelf talkers, and posters. Tear sheets listed locations of household hazardous waste centers, as well as hours of operation, and were placed on counters and checkout stands. Tip cards provided easy-to-follow pollution prevention tips and were placed on counters in the appropriate section. Shelf talkers, with tear sheets attached, provided the same information and were placed in the appropriate aisles relating to the specific pollutant. This allowed customers to tear off individual sheets and take the information with them. Additionally, the program utilized posters to encourage the proper disposal of household hazardous waste, provide information on materials too toxic to trash, and encourage pet owners to pick up after their pets in order to prevent pollution. Materials included a hotline and website, as resources of more information for residents and businesses.

In addition, owners, managers, and employees were educated on stormwater pollution. Once educated, the staff, seen as experts by the customers, served as catalysts to spread the stormwater pollution prevention message to "do-it-yourselfers" who may be unintentionally engaged in various polluting activities during their home improvement projects. By having staff deliver the stormwater pollution prevention message, the program has the advantage of "the messenger" constantly being at the customers' disposal, thereby being able to effectively reach and educate a large group of potential polluters.

School Outreach

Environmental education promotes public awareness and increases knowledge of environmental issues. The earlier that environmental education is provided, the more likely that it will have a strong effect on an individual's values, and in turn, influence lifestyle. As such, the MRWG performed outreach to elementary school students by offering pollution prevention presentations to schools throughout the area.

The Malibu Foundation for Environmental Education conducted the presentations in two different types of settings, classroom and assembly. The classroom presentation was geared toward an individual grade level; whereas, the school assembly was intended to reach the entire school. The program allowed schools the flexibility of choosing which setting they preferred.

The presentation utilized an interactive slideshow. This interactive slideshow connects students with their surroundings, teaching them about the storm drain system and how litter in the Mojave area impacts rivers. The presentations introduced students to stormwater pollution and the impact that their actions have on the environment. It stressed responsibility and awareness within communities and the ways in which students can help improve their surroundings. The presentations were also a call to action. Students were encouraged to act on the lessons learned by hosting their own cleanup event.

Additionally, SGA worked with City/Town and County representatives to use the Enviroscape, an educational tool for children that illustrates how the storm drain system works when pollutants reach the storm drain system.

MRWG Website

The MRWG updated and edited the www.mojaveriver.org website. This website is a resource for residents, businesses, and City and County representatives to access information related to stormwater pollution and the Mojave River Watershed. It is also a source of news and information on the program's efforts to reduce stormwater pollution. It provides information on what residents, businesses, and developers can do to prevent stormwater pollution. The website has links to:

- General Information
- Pollution Prevention Tips
- Household Hazardous Waste and Oil Recycling
- Pollution Reporting
- Educational Materials and School Presentations

Distributed outreach materials included the website address as a resource for more information on stormwater pollution prevention and where to properly dispose of household hazardous waste.

Recent modifications to the website included the development of a new section on seasonal BMP tips and resources for maintaining a healthier neighborhood, and an environmental quiz to test the website user's environmental knowledge by answering six questions. Revisions also included correcting the web address to the State Water Resources Control Board's website and adding a link to the Lahontan RWQCB's website.

3.1.2 Summary of BMPs

Educational Articles Targeted to School Children, Parents, and Teachers

Table 3-3 highlights the elementary schools that placed a stormwater pollution prevention article in their school newsletter.

Table 3-3 Elementary School Newsletter Outreach Efforts

Name of School Location	City/Area	Newsletter Name	Articles Placed in Newsletter
Discovery School of Arts 13247 Amethyst Road	Victorville	Discovery School of the Arts Newsletter	1
Hollyvale Elementary School 11645 Hollyvale Avenue	Victorville	Hollyvale Newsletter	1
Mesquite Trails Elementary School 13884 Mesquite Street	Hesperia	Eagle Express	1
Pathways to College 9144 Third Avenue	Hesperia	FYI: Weekly Newsletter	1
Rancho Verde Elementary School 14334 Pioneer Road	Apple Valley	Rancho Verde Roundup	1
Sixth Street Prep School 15476 6th Street	Victorville	News from the Hive	1
		Total	6

Environmental Outreach Booths at Local and Regional Events

Table 3-4 summarizes the outreach materials disseminated at the 24th Annual High Desert Home, Recreation, and Lifestyle Show and 25th Annual High Desert Home and Garden Show. It is estimated that a total of 950 residents were educated over the course of the two community events.

Table 3-4 Outreach Materials Distributed via Environmental Outreach Booths

Educational Material	Quantity Distributed
Tear sheets (list of household hazardous waste collection centers)	950
Tip Cards (tips on paint, pesticide, and fertilizer)	237
Pens	188

Combined Homeowner and Business Outreach Program and Material Distribution

Outreach to homeowners and stores were performed in Fall 2008. Partnerships were maintained with garden centers/nurseries, paint stores, hardware stores, and home improvement stores to disseminate outreach materials within the local community. The MRWG worked with stores to train 62 employees on BMPs and the proper disposal of pesticides, fertilizers, and paint, furthering their ability to pass on these pollution prevention messages to their customers. Table 3-5 highlights the business types and number of partnerships the MRWG has been able to maintain.

Table 3-5 Business Outreach Efforts and Partnerships	
Business Type	**Number of Partnerships**
Garden Centers/Nurseries	9
Paint Stores	4
Hardware Stores	7
Home Improvement Stores	5

The results in Table 3-6 illustrate the number of outreach materials distributed to homeowners through the MRWG's partnership with 25 local garden centers/nurseries, paint, hardware, and home improvement businesses.

Table 3-6 Outreach Materials Distributed via Local Businesses	
Educational Material	**Quantity Distributed**
Tear sheets (list of household hazardous waste collection centers)	2,200
Tip Cards (tips on paint, pesticide, and fertilizer)	3,000
Shelf Talkers (tips on pesticide, fertilizer, and paint)	15
Posters (identified phone number and website)	17

Table 3-7 lists the educational materials distributed to 47 home improvement store employees during four (4) training presentations conducted in Fall 2008.

Table 3-7 Outreach Materials Distributed to Home Improvement Store Employees	
Educational Material	**Quantity Distributed**
Tear sheets (list of Household Hazardous Waste collection centers)	47
Tip Cards (tips on paint, pesticide, and fertilizer)	141
Pens	47

School Outreach

The Malibu Foundation for Environmental Education conducted elementary school presentations and reached 7,310 students in Fall 2008 and Spring 2009. Table 3-8 documents the schools that participated in the outreach program and number of students educated at each assembly.

Table 3-8 Elementary School Presentations			
Name of School Location	**City / Area**	**Date of Assembly**	**Number of Students Educated**
Sixth Street Prep School 15476 6th Street	Victorville	10/27/08	225
Vista Verde Elementary School 13403 Vista Verde Street	Victorville	11/6/08	800
Park View Elementary School 13427 Cahuenga Road	Victorville	11/10/08	90
Academy for Academic Excellence 17500 Mana Road	Apple Valley	11/21/08	225
Mojave Mesa Elementary School 15552 Wichita Road	Apple Valley	11/24/08	600

Table 3-8 Elementary School Presentations			
Name of School Location	**City / Area**	**Date of Assembly**	**Number of Students Educated**
Rio Vista Elementary School 13590 Havasu Road	Apple Valley	11/25/08	660
Puesta del Sol Elementary School 15887 Academy	Victorville	12/1/08	510
Pathways to College 9144 Third Avenue	Hesperia	12/2/08	50
Discovery School of Arts 13247 Amethyst Road	Victorville	12/4/08	700
Mission Crest Elementary School 13065 Muscatel Street	Hesperia	12/5/08	700
Mariana Elementary School 10601 Manhasset Road	Apple Valley	12/12/08	250
Cypress Academy 10365 Cypress Avenue	Hesperia	12/16/08	800
Green Tree East Elementary School 17246 Gibralter Drive	Victorville	2/3/09	200
Cottonwood Elementary School 8850 Cottonwood Avenue	Hesperia	2/24/09	900
Topaz Elementary School 14110 Beech Street	Hesperia	4/28/09	600
		Total	7,310

MRWG Website

The updated and revised MRWG website includes pollution prevention tips for residents and businesses, provides household hazardous waste and oil recycling information, allows users to report observed water pollution, provides for quick and easy access to download educational materials for reproduction and reuse, and contains information on how to reserve a 45-minute interactive assembly presentation for their local schools. Table 3-9 illustrates the assorted information available on the website for businesses and residents.

Table 3-9 Website Pollution Prevention Information	
Pollution Prevention Information for Businesses	**Pollution Prevention Information for Residents**
Food Service Industry	Home Improvement
Automotive Industry	Automotive Maintenance
Construction and Development	Lawn Care and Gardening
Commercial Landscape Maintenance	Dog and Livestock Owner
Carpet Cleaning	
Mobile Vehicle Maintenance	
General Industrial and Manufacturing Businesses	
Regulatory Information	

3.1.3 Program Effectiveness

Assessment methods are the specific activities, actions, or processes used to obtain and evaluate assessment data or information. For MCM 1, Public Education and Outreach, the effectiveness assessment methods used include confirmation, tabulation, surveys, and quantification. These methods can be summarized as follows:

- Confirmation consists of documenting whether an activity or task has been completed to document compliance with activity-based permit requirements.
- Tabulation consists of simple accounting and can be expressed in both absolute and relative terms. This method relies on recordkeeping and is useful in documenting trends over time.
- Surveys encompass a variety of methods designed to discern knowledge, attitudes, awareness, or behaviors of a specific target audience. Surveys gather a sample of data that is representative of a group by asking questions of a target audience.
- Quantification refers to efforts to quantify reductions in loading or runoff discharges, or improvements in environmentally quality. There are two main approaches for using quantification methods, quantity tracking and pollutant load estimation.

The overall effectiveness of the Public Education and Outreach Program was determined to be at Outcome Levels 1 (Documenting Activities), 2 (Raising Awareness), 3 (Changing Behavior), and 4 (Reducing Loads from Sources).

Educational Articles Targeted to School Children, Parents, and Teachers

The effectiveness Outcome Level for publishing educational articles in six elementary school newsletters is estimated to be at Levels 1, 2, 3, and 4. To substantiate the level of effectiveness associated with this BMP the MRWG documented the number and location of newsletters where a stormwater pollution prevention message was included and quantified a reduction in trash loadings to the MS4. It is inferred that as a result of the newsletter articles and Malibu Foundation for Environmental Education elementary school presentations that the awareness of the target audience was raised and a direct behavioral change was observed by three elementary schools. Three schools independently organized school clean up events to keep the community clean in Fall 2008 and Winter 2009, as shown in Table 3-10. Over 176 students collected a total of 50 pounds of trash during the school clean up events therefore reducing a source of pollution.

Table 3-10 Elementary School Clean Ups

Name of School Location	City / Area	Date of School Clean Up	Number of Participants	Pounds of Trash Collected
Sixth Street Prep School 15476 6th Street	Victorville	11/18/08	20	5
Park View Elementary School 13427 Cahuenga Road	Victorville	12/1/08	90	40
Vista Verde Elementary School 13403 Vista Verde Street	Victorville	12/2/08	66	5
		Total	176	50

Environmental Outreach Booths at Local and Regional Events

The effectiveness of the environmental outreach booths at the 24th Annual High Desert Home, Recreation, and Lifestyle Show and 25th Annual High Desert Home and Garden Show are considered to be at Outcome Levels 1 and 2. The MRWG concludes that as a result of one-on-one interactions with event attendees and the dissemination of outreach materials to 950 residents, a reasonable level of heightened awareness and understanding could be expected by event goers.

Combined Homeowner and Business Outreach Program and Material Distribution

It is realistic to deduce that the effectiveness of the combined homeowner and business outreach program conducted in partnership with garden centers/nurseries, paint stores, hardware stores, and home improvement stores can be assessed as Outcome Levels 1, 2, 3, and 4. As described in Section 3.1.1, the MRWG was able to document, distribute outreach materials, and interact with residents, business owners, and employees at 25 different locations.

Homeowner and business outreach activities performed by the MRWG met the requirements of the Phase II Small MS4 General Permit and reasonably raised the target audience's awareness and understanding of stormwater pollution prevention measures. As an evaluation tool, the MRWG conducted undercover surveys at nine (9) garden centers, four (4) hardware stores, five (5) home improvement stores, and six (6) paint stores. Undercover surveyors asked store employees basic questions in regards to behaviors associated with the use and disposal of products that are potential sources of pollution.

Undercover surveys found that about half of the store employees were knowledgeable of how to properly dispose of pesticides and used paint while other employees were aware of a phone number, website, or other reference where the customer could get the information they needed to properly dispose the pesticides and used paint.

Since homeowner and business outreach programs have been determined to be effective at Outcome Levels 1, 2, and 3, and based on the findings of the other MCMs, continued efforts and measures were taken to focus the outreach program in areas that provide the greatest opportunity to improve stormwater quality. These program areas included the following:

- Train Store Staff – Emphasis was put on educating more owners, managers, and employees on stormwater pollution while conducting outreach. This is because once educated, the staff, seen as experts by the customers, served as catalysts to spread the stormwater pollution prevention message to "do-it-yourselfers" who may be unintentionally engaged in various polluting activities during their home improvement projects. By having staff deliver the stormwater pollution prevention message, the program has the advantage of "the messenger" constantly being at the customers' disposal, thereby being able to effectively reach and educate a large group of potential polluters.

- Partner with Local Agency – Partnered with the local water agency, Victorville Water District, which has similar initiatives in preventing urban runoff, to promote the "Cash for Grass" program which serves as a catalyst for people to replace traditional lawns with native plants and zero-scape practices.

- Attend Additional Community Events – Staffed a booth at the 24th Annual High Desert Home, Recreation, and Lifestyle Show and 25th Annual High Desert Home and Garden Show to target the "do-it-yourself" audience on how to prevent stormwater pollution.

- Create and Distribute Article for Elementary School Newsletters – Outreached to teachers and parents through placing an article in newsletters with information on stormwater pollution and tips to prevent it.

School Outreach

As mentioned above for the publishing of educational articles in elementary school newsletters, the combined effort of the school newsletters and Malibu Foundation for Environmental Education elementary school presentations has effectively resulted in Outcome Levels 1, 2, 3, and 4 being achieved as a result of documented implementation, a heightened sense of awareness and understanding, and quantifiable reduction of trash loadings to the MS4 because of the three self organized school clean up events.

MRWG Website

Outcome Levels 1 and 2 were attained with the MRWG website. Outreach materials distributed at community events, schools, and business partner locations all refer to the MRWG website for addition information to raise the public's awareness and understanding of stormwater pollution prevention measures and where to properly dispose of household hazardous waste. During this reporting period the website received a total of 1,766 unique visitors.

Conclusion on Overall Public Education and Outreach Program Effectiveness

Largely, the Public Education and Outreach Program is deemed to be effective at various levels, Outcome Levels 1 (Documenting Activities), 2 (Raising Awareness), 3 (Changing Behavior), and 4 (Reducing Loads from Sources), for differing outreach efforts. The comprehensive Public Education and Outreach Program is moving forward in the right direction and will continue to foster a greater sense of awareness and understanding among Mojave River Watershed homeowners and businesses with regard to stormwater pollution and the impacts associated with specific actions that impact our waterways. It is the goal of the MRWG that this heightened sense of awareness will translate into changing behaviors that result in reduced pollutant loads to the MS4 and receiving water body. Long term analysis of the Public Education and Outreach Program will likely demonstrate more actions similar to the independently organized school clean up events observed during the last two Fiscal Years.

3.1.4 Proposed Program Modifications

The MRWG does not propose any program modifications at this time.

3.2 MCM 2 – Public Involvement and Participation

The public can often provide valuable input and assistance to the implementation of a stormwater program. Therefore, the public is given opportunities to play an active role in both the development and implementation of the Mojave River Watershed Program. An active and involved community is crucial to the success of a stormwater program because it allows for:

- Broader public support since citizens who participate in the development and decision making process are partially responsible for the program and, therefore, may be more likely to take an active role in its implementation;
- Shorter implementation schedules due to fewer obstacles in the form of public and legal challenges and increased sources in the form of citizen volunteers;
- A broader base of expertise and economic benefits since the community can be a valuable and free intellectual resource; and
- A conduit to other programs as citizens involved in the stormwater program provide important cross-connections and relationships with other community and government programs. This benefit is particularly valuable when trying to implement a stormwater program on a watershed basis.

The status of implementation of the Public Involvement and Participation Program Fifth Year Measureable Goal is summarized below in Table 3-11.

Table 3-11 Public Involvement and Participation Program Fifth Year Measurable Goal

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	As the other five minimum control measures are implemented, reevaluate the effectiveness of the Public Involvement/Participation programs that the Permittees have become involved in. Determine necessary adjustments to the current programs or if new programs should be initiated.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.2.1 Implementation Status of Measureable Goal

The MRWG successfully accomplished the fifth year goal of MCM 2, Public Involvement and Participation. Program accomplishments included active participation with numerous organizations throughout the watershed to maximize the exposure of the stormwater message, hosting an Annual Public Workshop on November 6, 2008 to discuss implementation of the Mojave River Watershed stormwater program and solicit input from the public, and four litter clean up events.

Public Involvement and Stakeholder Participation

Water supply and water quality are issues that resonate with the High Desert community. The MRWG actively pursued opportunities involving the coordination of activities amongst themselves and with other area stakeholders with similar goals and agendas. The involvement of a diverse cross-section of people has been effective in terms of providing invaluable connections, further feedback, and information sources related to stormwater pollution prevention. Permittees continued to work collectively with stakeholders to preserve water quality in the High Desert. Permittees were active in participating with the following stakeholders during this reporting year:

- Mojave Water Agency Technical Advisory Committee Meetings – Permittees participated in meetings coordinated through Mojave Water Agency Technical Advisory Committee. This group is made up of water purveyors, farmers, property owners, and other community stakeholder groups in the High Desert.

- Alliance for Water Awareness and Conservation Meetings – Permittees participated in quarterly meetings with this regional water conservation group. The Alliance for Water Awareness and Conservation is an organization which actively provides water-related public information through workshops, publications, monthly newspaper articles, and displays.

- San Bernardino County Flood Control District, Zone 4 Meeting – Permittees participated in the Flood Control District, Zone 4 Advisory Committee Meeting, which is comprised of a wide cross-section of stakeholders groups, political, and community leaders in the High Desert community.

- Mojave River Watershed Group Meetings – Eleven (11) meetings were held among the Permittees for this reporting year, which were made open to other stakeholders.

Annual Public Workshop

On November 6, 2008, the MRWG hosted the 4th Annual Public Workshop at the City of Victorville. Residents, business and building community members, industry representatives, and elected officials of San Bernardino County, the Town of Apple Valley and the Cities of Hesperia and Victorville were invited to participate in a workshop to present information on the Mojave River Watershed stormwater program and obtain input from the public. The main topics discussed at the workshop included an overview of the stormwater permit and management plan, required fourth year compliance practices, and a review of the fourth year annual report. On behalf of the MRWG, SGA reached out to 34 community organizations and businesses to promote the Annual Public Workshop. A copy of the workshop flyer and sign-in sheet is included in Appendix A.

Cash for Grass Workshop

The "Cash for Grass" Program is an incentive program that offers eligible water users in the residential, commercial, industrial, and institutional sectors a rebate of $0.90 per square foot to convert established grass into a water-smart landscape. Over half of the water used at residences and businesses is used for outdoor watering of landscaped areas such as grass. This program provides the community with an incentive to re-landscape their properties with attractive water-smart landscaping to conserve water, reduce water bills, and reduce irrigation runoff.

Litter Clean Up Events

Public education and outreach efforts at local elementary schools encouraged teachers and students to organize their own litter clean up events to help reduce stormwater pollution. As a result of Permittee education and outreach efforts, elementary school teachers and students from three (3) local schools took the initiative to independently coordinate their own litter clean up events. Over 176 students collected a total of 50 pounds of trash during the school litter clean up events.

The Town of Apple Valley organized a Community Clean Up Day event which included the participation of Town staff and approximately 800 volunteers. Community groups that participated in the event included: Boy and Girl Scout Troops; family child care services; local high school, junior high school, and elementary school clubs; Adopt-A-Street members; churches; civic groups; and families and individuals. The clean up event included picking up trash, removing debris, and recycling metal materials at over 30 sites designated by Town Code Enforcement personnel. Volunteers were able to clean up 22.34 tons of trash and recycle 4.51 tons of metal.

The City of Hesperia conducted several successful events including two Citywide Clean Up and Tire Amnesty Days, an Earth Day, and Electronic Waste Drop-off Day. Clean Up Day events were hosted in October 2008 and April 2009. The October event was combined with a Tire Amnesty Day and 176 volunteers collected 31.7 tons of trash, 7.1 cubic yards of green waste, and 569 tires. During the April Clean Up Day, over 300 volunteers collected another 48.6 tons of trash, 205 cubic yards of green waste, and 667 tires. Additional Tire Amnesty events yielded 451 tires. To reduce the use of plastic bags the City of Hesperia provided Earth Day participants with reusable bags at their April 2009 event. In September 2008 a total of 42.3 tons of e-waste was collected at an Electronic Waste Drop-off Day.

The City of Victorville also hosted biannual trash clean up day events in October 2008 and April 2009. At the October 2008 Community Clean Up Day event a total of 316 volunteers helped to collect a total of 2.01 tons of trash. Another 337 volunteers participated in the April 2009 Community Clean Up Day event and removed additional 3.01 tons of trash.

3.2.2 Summary of BMPs

Public Involvement and Stakeholder Participation

The MRWG continued to work collectively with other area stakeholders to preserve water quality in the High Desert Region. Table 3-12 identifies the extent of involvement with each of the area stakeholders by attending regularly schedule meetings.

Table 3-12 Area Stakeholder Meetings Attended				
Organization/Stakeholder	Meetings Attended			
	AV	H	V	SBC
Mojave Water Agency Technical Advisory Committee Meetings	0	8	4	0
Alliance for Water Awareness and Conservation Meetings	0	11	4	0
San Bernardino County Flood Control District, Zone 4 Meetings	4	3	2	1
Mojave River Watershed Permittee Meetings	11	11	11	11

Annual Public Workshop

Permittees successfully engaged the public during this workshop to obtain helpful input on how to further involve the public in the implementation of the stormwater management program and answer community questions related to established stormwater regulations and their impacts on local businesses.

Cash for Grass Workshop

An initial "Cash for Grass" pilot workshop was held at a local home improvement store on April 18, 2009. Table 3-13 documents the number of workshop attendees and their overall commitment to implement the program.

Table 3-13 Cash for Grass Workshop Participation			
Location	Number of Attendees	Signed Up for the Program	Committed to Sign Up for the Program
Home Depot 15150 Bear Valley Road Victorville, CA 92392	10	1	3

Litter Clean Up Events

As discussed in Section 3.1.3 and shown in Table 3-10, three (3) elementary schools independently organized school litter clean up events to keep the community clean in Fall 2008 and Winter 2009 and the Town of Apple Valley and Cities of Hesperia and Victorville organized large clean up events in October 2008 and April 2009. In addition the City of Hesperia conducted Tire Amnesty Days and an Electronic Waste Drop-off event.

3.2.3 Program Effectiveness

The overall effectiveness of MCM 2, Public Involvement and Participation, can be characterized as reaching Outcome Levels 1, 2, 3, and 4.

Public Involvement and Stakeholder Participation

Permittee involvement in the various stakeholder meetings has provided the MRWG with an opportunity to share information about the stormwater management efforts of the member agencies and has also fostered relationships with other stakeholder participants to jointly spread information about stormwater pollution prevention and permit compliance. Through stakeholder workshops and other public outreach efforts, Permittees have been able to connect the stormwater pollution message with other efforts within the watershed. These collaborative efforts can be viewed as raising the awareness and understanding of

citizens, area stakeholders, and community leaders to further disseminate the stormwater pollution prevention message.

Annual Public Workshop

Community involvement through the Annual Public Workshop can be viewed as being effective and achieving Outcome Levels 1 and 2. Permittees issued press releases and distributed flyers to announce the 4th Annual Public Workshop event. Members of the High Desert community, including businesses, builders, and MRWG agency officials participated in the workshop to make it a success. It can be inferred that workshop participants gained a heightened sense of awareness and understanding as a result of actively participating in the workshop and providing input to the MRWG.

Cash for Grass Workshop

The initial "Cash for Grass" pilot workshop managed to attract a modest turnout and is viewed as the first step to implementing change in the build environment to conserve water and reduce excess irrigation runoff. Since this program is relatively new and still in its infancy, it is unreasonable to assess its effectiveness at this time.

Litter Clean Up Events

As discussed in Section 3.1.3, there was an indirect benefit from the Malibu Foundation for Environmental Education elementary school presentations. These presentations raised the awareness of the target audience and resulted in a behavioral change observed by three elementary schools. This change in behavior produced a reduction in potential load sources by eliminating 50 pounds of litter that may have ended up in the MS4. A significant reduction in potential load sources was realized by the formal litter clean up events hosted by the Town of Apple Valley and Cities of Hesperia and Victorville.

3.2.4 Proposed Program Modifications

Proposed program modifications include investigating whether Public Involvement and Participation Programs have changed public behavior. Results of this investigation will be reported in the 2009-10 Annual Report.

3.3 MCM 3 – Illicit Discharge Detection and Elimination

The goal of the Illicit Discharge Detection and Elimination (IDDE) Program is to detect, respond to, investigate and eliminate illicit discharges and illicit connections, and conduct enforcement so that the discharge of pollutants to the storm drain system is prevented, controlled, and mitigated to the MEP. Illicit discharges can be attributed to illegal dumping and non-stormwater discharges originating from illegal connections to the MS4. These discharges can potentially contain pollutants that may impact receiving water quality. The baseline objectives of this program are:

- Incidental spills, or disposal (including septic system failures, sanitary sewer leaks, or overflows) reported by the public or other agencies or observed by Permittee field staff during the course of their normal daily activities will be investigated, contained, and cleaned up.

- Prohibited non-stormwater discharges to the storm drain system reported by the public or other agencies or observed by Permittee field staff during the course of their normal daily activities will be eliminated through voluntary termination or enforcement action.

- Suspected prohibited non-stormwater discharges in the storm drain system reported by the public or other agencies or observed by Permittee staff during the course of their normal daily activities, that may result from illicit connections or whose origin is unknown, will be investigated to determine the nature and source of the discharge and eliminated through voluntary termination or enforcement action.

Table 3-14 provides an overview of the IDDE Program Fifth Year Measureable Goals and their status of completion.

Table 3-14 Illicit Discharge Detection and Elimination Program Fifth Yr. Measurable Goals

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	Increase public awareness of illicit discharges through the Public Education and Outreach and Public Involvement and Participation Programs.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		
2	The Permittees will implement and revise, as improvements are identified, the policies and procedures developed in the first three years. They will have an effective, enforceable program (ordinances, policies, or regulations) in place to detect and eliminate non-stormwater discharges (including illegal dumping) to the MS4.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.3.1 Implementation Status of Measureable Goals

The fifth year goals of MCM 3, Illicit Discharge Detection and Elimination, were reached in accordance with the SWMP. Program accomplishments included implementing an effective public education and outreach campaign to educate Mojave River Watershed residents about the impacts of illicit discharges and proper methods of household hazardous waste disposal, maintaining sufficient legal authority to enforce the goals of the IDDE program, conducting investigations of reported or observed illicit discharges, and following through with enforcement actions when appropriate.

Increase Public Awareness of IDDE

The MRWG was able to effectively increase public awareness of illicit discharges through the implementation of the Public Education and Outreach Program described in Section 3.1.1. The education and outreach activities conducted through MCM 1 included the distribution of educational brochures and other handouts that contained messages about the improper disposal of materials and non-stormwater discharges to the storm drain system. These educational materials also referenced the MRWG website, where citizens can report observed water pollution activities and retrieve additional information on pollution prevention practices. Educational materials also included the watershed's 1-800-CLEANUP hotline number for the general public to report spills and other discharges. Efforts conducted under MCM 2 also helped to spread the message about eliminating illicit discharges and illegal dumping.

IDDE Implementation and Procedures

The Mojave River Watershed can be characterized as a region with soils that rapidly infiltrate urban and stormwater runoff. In addition, the region's requirement for developed properties to retain stormwater runoff from a 100-year storm event prevents spills and other non-stormwater discharges from ever reaching the MS4. As a result of these typical conditions found throughout the watershed, a limited number of illicit discharges have been detected by the MRWG member agencies.

However, for those instances when an illicit discharge or connection is detected, the MRWG has developed effective policies and procedures to prevent and manage the discharge of pollutants to the storm drain system. These include a comprehensive public education and outreach program, field investigations, complaint responses, incident response and tracking, enforcement, and municipal staff training. Member agencies began development of a Draft Area-Wide Enforcement Response Guidance manual to assist in taking enforcement actions for stormwater quality deficiencies and violations. Once finalized, this Area-Wide Enforcement Response Guidance manual will be implemented at the discretion of each Permittee in addition to their established internal guidelines. A copy of the draft guidance manual is included in Appendix B.

Permittees respond, report, and monitor all identified illegal discharges and the County of San Bernardino continues to operate a 24-hour water pollution reporting hotline, 1-800-CLEANUP, and a website reporting system. The County also has an established partnership with "We Tip" to encourage citizens to turn in illegal dumpers by calling 1-800-78-CRIME. **"**We Tip" is a national nonprofit organization, staffing operators to take anonymous tips from all states within the United States, including Puerto Rico and the Virgin Islands. A $25,000 reward program is setup to reward individuals that provide information leading to the arrest and conviction of illegal dumpers.

As a preventative measure, the public education and outreach program and MRWG website promote and encourage Mojave River Watershed residents to utilize the various household hazardous waste collection sites located throughout the watershed. The household hazardous waste collection program provides residents with a legal and cost-effective way to dispose of unwanted household chemicals that cannot be disposed with regular trash.

IDDE Legal Authority

The MRWG member agencies have adequate legal authority through existing municipal codes and ordinances to implement and enforce the IDDE Program and mitigate illicit discharges such as illegal dumping, recreational sewage, industrial/business connections, non-stormwater discharges, and sanitary sewer overflows.

To strengthen existing municipal codes and ordinances, the MRWG conducted extensive research to develop a comprehensive Model Stormwater Ordinance. The Model Stormwater Ordinance was developed between February and June 2009 and in Fiscal Year 2009-10 will undergo review by each agency's legal counsel to identify any potential conflicts with existing ordinances, the need for additional stormwater ordinance provisions, and agency specific customization prior to adoption, if additional stormwater ordinance provisions are deemed necessary. The model ordinance will be modified at the discretion of each agency in accordance with their own internal practices, policies, and procedures. A copy of the Model Stormwater Ordinance is included in Appendix C.

3.3.2 Summary of BMPs

Increase Public Awareness of IDDE

A detailed summary of the BMPs implemented under MCM 1, Public Education and Outreach, and MCM 2, Public Involvement and Participation, are described in Sections 3.1.2 and 3.2.2, respectively. These educational activities included elementary school newsletter articles about stormwater pollution prevention, community event booths with displays conveying proper disposal of trash and household hazardous waste, outreach materials distributed at business locations which listed locations of household hazardous waste centers and encouraged proper disposal of potential pollutants, interactive school presentations on stormwater pollution and the impact that human actions have on the environment, and available resources on the MRWG website. Many of these educational activities incorporated a pointed message about illicit discharges and the impacts that they have on the environment.

IDDE Implementation and Procedures

Table 3-15 documents the number of illicit discharges reported and investigated by each MRWG member agency and the results of each recorded incident.

Table 3-15 Illicit Discharges Reported and Resolved

Permittee	Illicit Discharges Reported	Illicit Discharges Resolved[1]	Resulted in Enforcement Action	Resolution Rate
Town of Apple Valley	96	96	3	100%
City of Hesperia	192	171	135	89%
City of Victorville	172	172	39	100%
County of San Bernardino	3	3	0	100%

[1] Member agencies are unable to resolve all illicit discharges because at times the discharger is unknown and cannot be easily identified. For example, illegal dumping on a vacant lot.

The Mojave River Watershed has four (4) household hazardous waste collection centers, Table 3-16, and several automotive retail outlets for residents to properly dispose of their unwanted medications, paint, used motor oil, antifreeze, automotive batteries, lawn care products, drain cleaners, pool care products, and household cleaners.

Table 3-16 Household Hazardous Waste and Used Oil Collection Centers			
Name Location	**City / Area**	**Days of Operation**	**Times Open**
Apple Valley HHW-Public Works Yard 22411 S. Outer Highway 18	Apple Valley	1st & 3rd Saturday	10 am to 2 pm
City of Barstow Corporation Yard 900 South Avenue H	Barstow/ Unincorp. County	Saturdays	9 am to 2 pm
Hesperia Fire Station 17443 Lemon Street	Hesperia	Tuesday & Thursday Saturday	9 am to 1 pm 9 am to 3 pm
Victorville Fire Department East of Desert Knoll Dr. on Loves Ln.	Victorville	Wednesday & Sunday	9 am to 4 pm

IDDE Legal Authority

In addition to each Permittee's existing municipal codes and ordinances, a Model Stormwater Ordinance was developed by the MRWG. This model is currently being reviewed by each member agency's legal counsel. Should member agencies determine that additional stormwater ordinance provisions are necessary, these model provisions will further strengthen each Permittee's legal authority to successfully implement and enforce the requirements of the Phase II Small MS4 General Permit. The following provides an outline of the provisions developed and incorporated into the Model Stormwater Ordinance:

1. Authority
2. Purpose and Intent
3. Definitions
4. Stormwater Management Program
5. Prohibited Pollutants in Discharges
6. Exemptions from Discharge Prohibitions
7. Illicit Connection and Illicit Discharge Prohibition
8. Reduction of Pollutants in Stormwater
9. New Development and Redevelopment Requirements
10. Low Impact Development Requirements
11. Construction Site Requirements
12. Maintenance and Transfer of Properties Subject to BMP and LID Maintenance Requirements
13. Authority to Inspect
14. Falsifying Information
15. Administrative Remedies
16. Nuisance
17. Civil Penalties
18. Criminal Penalties
19. Nonexclusive Remedies
20. Compensation for Damages
21. Citations
22. Violations of Other Laws
23. Injunctions
24. Other Civil Remedies
25. Permit Suspension, Revocation, or Modification
26. Penalties

3.3.3 Program Effectiveness

The overall effectiveness of MCM 3, Illicit Discharge Detection and Elimination, was assessed at Outcome Levels 1, 2, 3, and 4.

Increase Public Awareness of IDDE

The MRWG was able to effectively increase the public's awareness and understanding of illicit discharges and their associated impacts to water quality through the implementation of various public education and outreach methods described in Sections 3.1.1, 3.2.1, and 3.3.1. The outreach efforts connected with the IDDE Program were determined to be at Outcome Levels 1, 2, 3, and 4. The Outcome Levels achieved for the public awareness component of the IDDE Program is confirmed through the documentation of outreach materials distributed to Mojave River Watershed residents and businesses, improved level of awareness as a result of one-on-one interactions during community events, and reduced loads as a result of residents properly disposing their household hazardous waste at designated collection centers. In addition, the MRWG website and 1-800-CLEANUP and 1-800-78-CRIME hotlines supplemented the outreach materials distributed and assisted in raising public awareness while facilitating the public's ability to reduce pollutant loads by reporting illicit discharges and illegal dumping to the Permittees.

IDDE Implementation and Procedures

A limited number of illicit discharges have been detected by the MRWG member agencies. Due to the advantageous site conditions found throughout the watershed, where properties have onsite retention or detention facilities and dry wells, IDDE is more focused on illegal dumping and the occasionally observed or reported nuisance flow that makes it off a given property.

Program effectiveness Outcome Levels 1, 2, 3, and 4 have been attained through the implementation of the IDDE Program. MRWG member agencies have documented the number of suspected illicit discharge inspections conducted and resolved and the number of enforcement actions taken, established and maintained a hotline and website for reporting water pollution, identified problem areas with a storm drain map detailing the watershed's high risk threat zones, tracked the number of illegal discharge clean ups, and recorded the training of inspectors and responders, see Table 3-17. In addition, member agencies such as the County of San Bernardino have gone beyond the requirements of the Phase II Small MS4 General Permit to include the inspection of County Unincorporated areas outside the permit boundary for the purpose of IDDE.

Table 3-17 Illicit Discharges Detection and Elimination Related Training

Permittee	Number of Stormwater Personnel	Number of Total Personnel Trained
Town of Apple Valley	2	3
City of Hesperia	4	7
City of Victorville	1	2
County of San Bernardino	3	27

Although a moderate number of illicit discharge complaints were received, it is understood that the MRWG effectively raised public awareness about illicit discharges and illegal dumping. Permittees assume that the low number of recorded complaints via the website and hotlines, and moderate numbers by residents and Permittee staff during the course of their normal daily activities are a result of post-construction BMPs infiltrating urban and stormwater runoff onsite prior to reaching the MS4.

Table 3-18 Illicit Discharge Complaints Received	
Medium through which Complaints were received	**Number of Complaints**
1-800-CLEANUP Hotline	0
1-800-78-CRIME "We Tip" Hotline	0
MRWG Website	0
Permittee Staff, Resident Complaints, and Other Sources	364

A change in public behavior and source load reduction has been identified through the number of residents making use of the household hazardous waste and used oil collection centers. Table 3-19 documents the amount of materials collected and prevented from entering the MS4.

Table 3-19 Quantity of Materials Collected at Household Hazardous Waste and Used Oil Centers					
Household Hazardous Waste Collection Center Location	**Quantity of Material Collected (Tons)**				
	2004-05	**2005-06**	**2006-07**	**2007-08**	**2008-09**
Town of Apple Valley	78.2	89.1	83.4	116.3	98.3
City of Hesperia	129.5	124.7	126.0	133.5	94.4
City of Victorville	82.6	92.4	108.4	103.8	102
Unincorporated County of San Bernardino	186.3	187.3	240.2	222.0	222.5
TOTALS	476.6	493.5	558.0	575.6	517.2

IDDE Legal Authority

Program effectiveness Outcome Level 1 was achieved for this measureable goal. Permittees conducted a review of existing municipal codes and ordinances to confirm adequate legal authority to implement and enforce the requirements of the IDDE Program. In addition, a Model Stormwater Ordinance was prepared for further evaluation and possible adoption by each MRWG member agency, if deemed necessary by legal counsel.

3.3.4 Proposed Program Modifications

The MRWG does not propose any program modifications at this time.

3.4 MCM 4 – Construction Site Stormwater Runoff Control

The purpose of the Construction Site Stormwater Runoff Control Program is to reduce pollutants from construction activities that result in a land disturbance of greater than or equal to one acre.

The MRWG SWMP includes the development and implementation of program elements to:

- Ensure adequate legal authority to require erosion and sediment controls on construction sites;
- Review project plans to confirm the incorporation of temporary BMPs to address potential water quality impacts during construction;
- Require construction site operators to implement appropriate erosion and sediment control BMPs;
- Require construction site operators to manage construction wastes to prevent adverse impacts to water quality; and
- Conduct construction site inspections and enforce the application of control measures to effectively reduce the transport of pollutants from the construction site to the storm drain system.

Table 3-20 provides a summary of Permittee implementation for the Construction Site Stormwater Runoff Control Program Fifth Year Measureable Goal.

Table 3-20 Construction Site Stormwater Runoff Control Program Fifth Year Measurable Goal

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	Review the construction site stormwater runoff control program, emphasizing the inspection, monitoring, and enforcement metrics for effectiveness. Modify the program as required to comply with the Permit.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.4.1 Implementation Status of Measureable Goal

The fifth year measureable goal for MCM 4, Construction Site Stormwater Runoff Control Program, was accomplished by the Permittees through the implementation of construction site inspections, monitoring, and enforcement consistent with the effectiveness metrics developed in year one of the program. Actions taken by Permittees to implement the Construction Site Stormwater Runoff Control Program included reviewing construction plans and issuing grading permits consistent with local requirements and ordinances, conducting routine and follow up inspections of construction sites to ensure proper implementation and maintenance of BMPs and compliance with local requirements, proceeding with

enforcement actions for sites in violation of local requirements, providing regular training and outreach for municipal inspectors and construction staff and contractors, and maintaining a tracking system of construction sites.

Construction Site Inspections and Monitoring

Permittees made periodic site inspections during the course of a construction project to ensure compliance with codes and ordinances. Permittee inspectors verified at project commencement the proper installation and maintenance of BMP control measures throughout the construction phase of the project. Supplemental inspections were performed by the Permittees in response to complaints received from citizens and referrals from other internal departments or intergovernmental enforcement agencies on issues related to stormwater quality.

Correction and Enforcement Actions

Permittees have issued Notices of Correction on a number of construction projects. Common deficiencies observed include the inadequate and/or improper selection and maintenance of BMPs, improper storage of materials outdoors, failure to install proper secondary containment to capture spills that may occur, outdoor washing without containment of wash water, failure to cover stock piles, and deferred BMP maintenance. MRWG Permittee inspectors have developed good working relationships with construction site operators to quickly address areas of concern without having to resort to more extreme measures such as enforcement actions or referral to the Lahontan RWQCB. However, in one instance enforcement action and referral to the Lahontan RWQCB was necessary to ensure compliance.

Member agencies began development of a Draft Area-Wide Enforcement Response Guidance manual to assist in taking enforcement actions for stormwater quality deficiencies and violations. Once finalized, the Area-Wide Enforcement Response Guidance manual will be implemented at the discretion of each Permittee in addition to their established internal guidelines. A copy of the draft guidance manual is included in Appendix B.

3.4.2 Summary of BMPs

Construction Site Inspections and Monitoring

Table 3-21 shows the number of construction sites issued a grading permit and the relative sizes of these construction projects. As could be expected with the recent economic downturn, the issuance of grading permits is significantly down from previous years.

Table 3-21 Number of Grading Permits Issued and Project Sizes

Permittee	Grading Permits Issued	Construction Projects > 1 Acre	Construction Projects < 1 Acre
Town of Apple Valley	27	13	14
City of Hesperia	20	6	14
City of Victorville	292	27	265
County of San Bernardino	4	0	4

Table 3-22 illustrates the number of construction site inspections performed by each Permittee in compliance with MCM 4, Construction Site Stormwater Runoff Control Program.

Table 3-22 Number of Construction Site Inspections

Permittee	Number of Inspections
Town of Apple Valley	4,979
City of Hesperia	217
City of Victorville[1]	135
County of San Bernardino[2]	9

[1] The number of construction sites inspected is only for construction sites greater than one acre.

[2] Four (4) inspections and five (5) follow-up inspections were necessary within the Permit boundary. However, fifteen (15) inspections and forty-five (45) follow-up inspections were performed outside the permit boundary in the Unincorporated County areas that fall within the Lahontan Regional Water Quality Control Board jurisdiction.

It is important to train inspectors and other municipal staff to perform comprehensive inspections of construction sites to ensure that construction activities do not result in adverse impacts to water quality. It is equally important to train local contractors, builders, and developers on the proper installation and maintenance of BMPs to eliminate non-stormwater discharges and reduce the impacts of erosion and sediment with site appropriate controls. On November 5, 2008 and December 4, 2008, City, Town, and County personnel attended the Certified Professional in Erosion and Sediment Control (CPESC) training workshops. The training was organized by the San Bernardino County Stormwater Program and covered federal and state rules and regulations, site planning and management, soil loss prediction, runoff control, soil stabilization, and sediment control techniques. Table 3-23 highlights the number of municipal staff who received training in Fiscal Year 2008-09 and the number of construction site operator training sessions made available.

Table 3-23 Construction Site Stormwater Runoff Control Training

Permittee	Municipal Staff Trained	Construction Site Operator Trainings Made Available
Town of Apple Valley	2	1
City of Hesperia	2	1
City of Victorville	7	1
County of San Bernardino	57	1

Correction and Enforcement Actions

Although Notices of Correction have been issued on some projects, Permittee inspectors have worked closely with construction owners and operators to resolve deficiencies in a prompt manner to prevent polluted discharges for construction sites. Table 3-24 summarizes the number of Notices of Correction issued and the number of projects requiring enforcement action as a result of non-compliance.

Table 3-24 Notices of Correction and Enforcement Actions

Permittee	Notices of Correction	Enforcement Actions
Town of Apple Valley	20	0
City of Hesperia	107	0
City of Victorville	0	0
County of San Bernardino[1]	2	1

[1] Fourteen (14) Notices of Correction were issued for projects outside the Permit boundary and five (5) enforcement actions resulted in referrals to the Lahontan Regional Water Quality Control Board.

3.4.3 Program Effectiveness

Program effectiveness for MCM 4, Construction Site Stormwater Runoff Control, was assessed at Outcome Levels 1, 2, 3, and 4.

Construction Site Inspections and Monitoring

A large portion of the construction program is typically focused on site inspections that can serve as the basis for establishing baselines regarding how the sites are operating, what pollutants are of concern, and the level of BMP implementation and maintenance. In turn, follow-up inspections can be used to track changes and ensure that the sites are properly implementing and maintaining their BMPs.

MRWG Permittees have effectively achieved Outcome Levels 1, 2, and 3. Construction programs have documented and maintained adequate legal authority to enforce the Construction Site Stormwater Runoff Control Program, tracked the number of grading permits issued and construction sites inspected, and maintained records of training sessions attended by municipal staff and construction site operators. These training sessions have raised the awareness and understanding of impacts associated with construction site activities on the receiving water body and routine inspections have also served to reinforce the level of awareness necessary to install and maintain appropriate BMPs at construction sites. A change in behavior is inferred due to the number of construction sites complying with the Construction General Permit requirements and adequately implementing and maintaining BMPs to reduce and control erosion, sediment, and non-stormwater discharges from construction sites. In addition, up front reviews of project specific Storm Water Pollution Prevention Plans (SWPPPs) provide plan checkers with an opportunity to communicate with construction site operators to raise their level of awareness with regards to the proper installation and maintenance of stormwater BMPs.

Correction and Enforcement Actions

As a result of Notices of Correction and Enforcement Actions, Permittees have effectively achieved Outcome Levels 1, 2, 3, and 4 for this portion of the Construction Site Stormwater Runoff Control Program. Permittees have previously documented adequate enforcement policies and mechanisms to issue Notices of Correction and Enforcement Actions to influence a change in behavior at deficient construction sites. By recording the number of Notices of Correction and Enforcement Actions taken over the last Fiscal Year, Permittees have effectively documented their activities to achieve Level 1 status. By working closely with construction site operators to correct BMP shortcomings, Permittees have been able to increase the level of awareness amongst these problematic construction site owners and operators, and to change behaviors in the field. These changes in behavior ultimately result in the proper implementation of effective BMPs to reduce pollutant loads to the receiving water body.

3.4.4 Proposed Program Modifications

The State Water Resources Control Board is likely to adopt the proposed Draft General Permit for Discharges of Stormwater Associated with Construction Activities in September 2009, a proposed program enhancement is to have staff that performs construction inspections or plan reviews attend new training focused on the new Construction General Permit requirements.

3.5 MCM 5 – Post-Construction Stormwater Management in New Development and Redevelopment

The purpose of the Post-Construction Stormwater Management in New Development and Redevelopment Program is to minimize potential adverse impacts to water quality from development projects by incorporating site planning, post-construction controls (site design, source control, and treatment control BMPs), and long-term maintenance agreements.

The goal of this Program is to assure that appropriate post-construction BMPs are included in New Development and Redevelopment project plans to minimize impacts from urban and stormwater runoff on the receiving water body. Permittees currently have a system in place to address urban and stormwater runoff by using post-construction BMPs such as retention and detention basins incorporated into the project site. These devices function to control stormwater volume and improve water quality by settling out particulates and other pollutants of concern.

Table 3-25 provides the status of implementation of the Post-Construction Stormwater Management in New Development and Redevelopment Program for the Fifth Year Measureable Goal.

Table 3-25 Post-Construction Stormwater Management in New Development and Redevelopment Program Fifth Year Measurable Goal

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	Implement and revise ordinances and policies.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.5.1 Implementation Status of Measureable Goal

The fifth year measurable goal for MCM 5, Post-Construction Stormwater Management in New Development and Redevelopment, was to implement and revise ordinances and policies. Permittees successfully accomplished this goal by requiring project proponents to submit engineering and grading plans which incorporated structural and non-structural BMPs appropriate for the High Desert communities, contracting with qualified consultants to provide professional services to review plans, inspect BMP installation, and ensure compliance with the post-construction program, and assessing ordinances and policies to verify adequate legal authority and guidelines to achieve the requirements of the Phase II Small MS4 General Permit.

Post-Construction Stormwater Management Implementation

Permittees are conditioning new development and redevelopment projects to submit engineering and grading plans which incorporate post-construction controls (site design, source control, and treatment

control BMPs) and long-term maintenance agreements to mitigate urban and stormwater runoff after a developer has completed a project. MRWG member agencies are using discretionary approval and placing conditions on developments to require the incorporation of post-construction BMP controls. In addition, flood damage prevention ordinances that place requirements on new construction also help with conditioning projects to mitigate post-development urban and stormwater runoff. These ordinances seek to limit peak discharges from new developments by retaining and infiltrating stormwater onsite. These devices function to control stormwater volume and improve water quality by settling out particulates and other pollutants of concern.

To improve awareness of the post-construction requirements and how to effectively implement them in the High Desert, Permittees attended various training sessions and workshops including the California Water Board's Using Green Infrastructure to Address Hydromodification Issues within the Arid West, Permeable Interlocking Concrete Pavement LID Webinar, California Department of Water Resources' National Flood Insurance Program Floodplain Management Workshop, and internal member agency training sessions. County of San Bernardino training included collaborative efforts with field staff to identify opportunities to retrofit and implement post-construction BMPs at existing County maintenance facilities.

Ordinance and Policy Revisions

Permittees have adequate legal authority through existing municipal codes and ordinances to implement and enforce the Post-Construction Stormwater Management in New Development and Redevelopment Program. Previous ordinances were enacted to promote water conservation which also prevents excessive discharges of nuisance water. Existing landscape ordinances attempt to prepare for the area's growing water needs and aim to eliminate sprinkler runoff from filling retention basins.

In addition to existing municipal codes and ordinances, a Model Stormwater Ordinance was developed by the MRWG and is currently undergoing legal counsel review. If deemed necessary by each Permittee's legal counsel and adopted, it will further strengthen the legal authority of member agencies to implement and enforce the requirements of the Post-Construction Stormwater Management in New Development and Redevelopment Program.

3.5.2 Summary of BMPs

Post-Construction Stormwater Management Implementation

Table 3-26 shows the number of projects meeting the threshold for post-construction BMP requirements and implementing control measures.

Table 3-26 Number of Projects Implementing Post-Construction BMPs

Permittee	Number of Projects
Town of Apple Valley	15
City of Hesperia	2
City of Victorville[1]	0
County of San Bernardino	3

[1] No post-construction BMPs were built in the City of Victorville during the last Fiscal Year. However, two projects were conditioned to include post-construction BMPs and these projects have not been built yet.

Table 3-27 provides the number of Permittee staff trained on the implementation of post-construction BMPs and LID strategies.

Table 3-27 Number of Personnel Trained on Post-Construction BMP Implementation	
Permittee/Private Industry	**Personnel Trained**
Town of Apple Valley	2
City of Hesperia	26
City of Victorville	1
County of San Bernardino	27

Ordinance and Policy Revisions

In addition to existing municipal codes and ordinances, a Model Stormwater Ordinance was developed by the MRWG. This model is currently being reviewed by each member agency's legal counsel. Should member agencies determine that additional stormwater ordinance provisions are necessary, these model provisions will further strengthen each Permittee's legal authority to successfully implement and enforce the requirements of the Phase II Small MS4 General Permit.

3.5.3 Program Effectiveness

Overall, the assessed program effectiveness for MCM 5, Post-Construction Stormwater Management in New Development and Redevelopment, was at Outcome Levels 1, 2, 3, and 4.

Post-Construction Stormwater Management Implementation

Implementation of MCM 5, Post-Construction Stormwater Management in New Development and Redevelopment, has been assessed at Outcome Levels 1, 2, 3, and 4. Permittees have documented the appropriate legal authority to enforce the requirements of this MCM and noted the number of projects conditioned for the incorporation of post-construction BMPs. Permittee staff has actively participated in various trainings and workshops to understand how to successfully implement and enforce the post-construction BMP requirements of this program. This training has resulted in a better understanding of post-construction BMP and LID options, and the MCM 5 requirements. The Post-Construction Stormwater Management in New Development and Redevelopment Program has demonstrated an effective change in behavior from the way developers constructed projects to now incorporating post-construction BMPs. Although pollutant load reduction quantities, as a result of post-construction BMPs installed on project sites, have not been assessed it can be concluded that these BMPs are making a positive impact in reducing pollutant loads to the storm drain system.

Ordinance and Policy Revisions

Program effectiveness Outcome Level 1 was achieved for this portion of the measureable goal. Permittees conducted a review of existing municipal codes and ordinances to confirm adequate legal authority to implement and enforce the requirements of the Post-Construction Stormwater Management in New Development and Redevelopment Program. In addition, a Model Stormwater Ordinance was prepared for further evaluation and possible adoption by each MRWG member agency, if deemed necessary by legal counsel.

3.5.4 Proposed Program Modifications

The MRWG is in the process of developing a Model Water Quality Management Plan (WQMP) guidance document and post-construction BMP manual to assist project applicants with the design and preparation of engineering plans to incorporate effective post-construction BMPs to treat and infiltration stormwater runoff from discretionary projects.

3.6 MCM 6 – Pollution Prevention and Good Housekeeping for Municipal Operations

Municipalities conduct various activities that can generate or mobilize pollutants in stormwater runoff. The purpose of the Pollution Prevention and Good Housekeeping for Municipal Operations Program is to reduce pollutants from these operations and maintenance activities (e.g. small construction improvement projects, street sweeping, storm drain cleaning, corporation yard operation, etc.) through the development and implementation of good housekeeping, BMPs, and activity specific stormwater pollution prevention training.

Pollution prevention and good housekeeping practices are critical to maintaining progress and achieving continued improvement in water quality. Permittees have developed a pollution prevention and good housekeeping program that requires employees to examine and subsequently alter their actions to reduce the type and amount of pollution. Recognizing the benefits of pollution prevention practices, the MRWG has developed this program based on the following goals:

- Develop and implement an operation and maintenance program with the ultimate goal of preventing or reducing pollutant runoff from municipal operations into the storm drain system;
- Integrate pollution prevention and good housekeeping practices training into municipal employee training programs; and
- Implement the appropriate BMPs to mitigate urban and stormwater runoff pollution.

Implementation status of the Pollution Prevention and Good Housekeeping for Municipal Operations Program Fifth Year Measureable Goal is summarized below in Table 3-28.

Table 3-28 Pollution Prevention and Good Housekeeping for Municipal Operations Program Fifth Year Measurable Goal

BMP	Description	Status					
		Implemented	Not Applicable	Modified	Effective	Unknown	Not Effective
1	Train Permittee employees as scheduled during the previous year.	**Town of Apple Valley**					
		✓			✓		
		City of Hesperia					
		✓			✓		
		City of Victorville					
		✓			✓		
		County of San Bernardino					
		✓			✓		

3.6.1 Implementation Status of Measureable Goal

Program accomplishments to satisfy the fifth year measurable goal included training municipal operations personnel on pollution prevention techniques and good housekeeping practices, identifying and implementing post-construction BMPs at municipal facilities to reduce the discharge of pollutants to the MEP, and incorporating pollution prevention practices into daily work routines.

Municipal Operations Personnel Training

Permittees conducted comprehensive training of municipal operations personnel to identify pollution prevent practices that can be incorporated into daily work routines and good housekeeping tips. Training materials covered ways to reduce pollutants from operation and maintenance activities such as small construction improvement projects, street sweeping, storm drain cleaning, and corporate yard operation through the development and implementation of control measures and BMPs. Training materials used met the requirements of the permit and provided municipal staff with adequate training to perform their duties in a manner that reduces the potential to discharge pollutants of concern to the storm drain system.

Training materials used included Microsoft PowerPoint presentations, videos, modules, BMP manuals, brochures, booklets, and in the field hands on training. Training programs provided to municipal operations staff covered the following topics:

- BMPs for the daily duties of a municipal employee
- Pollution prevention
- Good housekeeping
- Stormwater compliance rules and regulations
- Spill prevention
- Spill reporting and response procedures
- Outdoor storage of materials and waste
- Vehicle and equipment maintenance
- Vehicle and equipment washing
- Street maintenance
- Landscaping

3.6.2 Summary of BMPs

Municipal Operations Personnel Training

As a result of training, municipal operations staff prepared and implemented nine (9) site-specific municipal yard SWPPPs. Source control and post-construction BMPs implemented at the municipal yards include: catch basin curb inlet screens; curb inlet oil absorbent geotextile booms; storm drain drop inlet inserts with oil absorbent filters; and spill absorbent kits near fueling areas for responding to small incidental spills.

Table 3-29 briefly summarizes the number of municipal operations staff trained in Fiscal Year 2008-09.

Table 3-29 Number of Staff Trained for Municipal Operations

Permittee	Number of Staff Trained
Town of Apple Valley	3
City of Hesperia	97
City of Victorville	69
County of San Bernardino	27

3.6.3 Program Effectiveness

Effectiveness Outcome Levels 1, 2, and 3 were measured for MCM 6, Pollution Prevention and Good Housekeeping for Municipal Operations.

Municipal Operations Personnel Training

Documented municipal training programs were determined to increase the knowledge of municipal staff. As a result municipal staff used good judgment and appropriate housekeeping measures while performing municipal operations. This higher level of comprehension and change in behavior by municipal operations staff facilitated the use of site appropriate BMPs and pollution prevention techniques to minimize impacts to receiving water quality.

3.6.4 Proposed Program Modifications

The MRWG does not propose any program modifications at this time.

4.0 Goals and Activities Planned for Fiscal Year 2009-10

Stormwater activities planned for Fiscal Year 2009-10 include:

- Distribution of public education materials to homeowners and businesses.
- Outreach to school children, parents, and teachers.
- Participation in local stakeholder groups and support public participation in community litter clean up events.
- Investigation into whether Public Involvement and Participation Programs have changed public behavior.
- Legal counsel review of the Model Stormwater Ordinance to identify potential conflicts with existing ordinances, the individual agency's need for additional stormwater ordinance provisions, and agency specific customization prior to adoption, if additional stormwater ordinance provisions are deemed necessary.
- Enhancement and completion of the Area-Wide Enforcement Response Guidance manual to supplement and enhance each member agency's internal enforcement action guidelines. The completed manual will be implemented at the discretion of each Permittee in addition to their established internal guidelines.
- Implementation and enforcement of the Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, and Post-Construction Stormwater Management in New Development and Redevelopment Programs.
- Permittee personnel responsible for compliance with the Phase II Small MS4 General Permit provisions will attend stormwater training classes and workshops, as deemed appropriate.

5.0 Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Town of Apple Valley

Signature of Permittee (legally responsible representative)	Date signed
Brad Miller, P.E.	Town Engineer
Name (Please print)	Title

City of Hesperia

Signature of Permittee (legally responsible representative)	Date signed
John Leveillee, P.E.	City Engineer
Name (Please print)	Title

City of Victorville

Signature of Permittee (legally responsible representative)	Date signed
John A. McGlade, P.E.	City Engineer
Name (Please print)	Title

County of San Bernardino

Signature of Permittee (legally responsible representative)	Date signed
Granville M. “BOW” Bowman, P.E., P.L.S.	Director
Name (Please print)	Title

6.0 MRWG Member Agency Contact Information

The following is contact information for each of the MRWG Member Agencies:

Town of Apple Valley
14955 Dale Evans Parkway
Apple Valley, CA 92307

Contact Person: Mark Abbott
Contact Phone No.: (760) 240-7000 ext. 7353

City of Hesperia
9700 Seventh Avenue
Hesperia, CA 92345

Contact Person: Tina Souza
Contact Phone No.: (760) 947-1474

City of Victorville
14343 Civic Drive
Victorville, CA 92393-5001

Contact Person: Helen Wilson
Contact Phone No.: (760) 955-5158

County of San Bernardino
825 E. Third Street
Second Floor, Room 201
San Bernardino, CA 92415-0835

Contact Person: Dan Ilkay
Contact Phone No.: (909) 387-8119

APPENDIX A

Annual Public Workshop Flyer and Sign-In Sheet

Mojave River Watershed

Stormwater Management Program

FOURTH ANNUAL PUBLIC WORKSHOP

In Compliance with the Clean Water Act Phase II Stormwater Requirements

Fourth Annual Public Workshop
on the
Stormwater Management Program
for the
Upper Mojave River Watershed

November 6, 2008
6:00 – 7:00 pm
City Council Chambers
14343 Civic Dr.
Victorville, CA

In compliance with the Clean Water Act Stormwater Phase II regulations which affect our High Desert Communities, this workshop will include:

- An overview of the stormwater permit and management plan
- Required compliance practices (geared towards year 4)
- Review of fourth year annual report

Who should attend:

- Interested residents of the High Desert communities
- Elected officials and staff members of public agencies
- Building community members
- Industry representatives

FOR MORE INFORMATION
call Dan Ilkay at
909-387-8119

Mojave River Watershed Group	
Annual Public Workshop	**Meeting Date:** **November 6, 2008**

Name	Agency
Wendell L. Iwatsuru	Madole & Assoc.
HELEN WILSON	City of Victorville
Tina Souza	City of Hesperia
Judie Spink	Merrell-Johnson Engineering, Inc.
JAMES NELSON	TOWN OF APPLE VALLEY
Dan Ilkay	County of SB
Brianna Berger	Lahontan Regional Water Quality Control Board
Stephen GROVER	S. GROVER ASSOCIATES
Janis Miller	J.E. Miller & Associates

APPENDIX B

Draft Area-Wide Enforcement Response Guidance

MOJAVE RIVER WATERSHED GROUP
STORMWATER PROGRAM

MODEL ENFORCEMENT RESPONSE GUIDANCE

July 28, 2009

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Draft Enforcement Response Guidance – Mojave River Watershed Group

Introduction

The Enforcement Response Guidance (ERG) has been produced to aide Permittees and businesses within their jurisdictions comply with the area-wide urban stormwater runoff permit (CAS000004) compliance with consistency in the level of enforcement for typical types of stormwater program infractions. This guidance is a mechanism or tool for use in implementing the enforcement authority within local stormwater and water quality ordinances, and stormwater program requirements. Enforcement guidance has been established for the following types of infractions:

- Industrial/Commercial Site - Illegal Discharges (Fixed or Mobile)
- Industrial/Commercial Site – Not Implementing Proper Best Management Practices (BMP)
- Construction Site – Discharges
- Construction Site – Not Implementing Proper Best Management Practices (BMP)
- General NPDES Permit-Required Sites without Permit
- Residential Illegal Discharges
- Illicit Connection/Illegal dupming

For each type of infraction, conditions associated with the infraction have been identified, for example, observed discharge “in the act”, or evidence of past discharge. The ERG prescribes different enforcement options for different infraction conditions. Situations requiring enforcement can vary greatly, so the ERG provides enforcement flexibility by allowing options for most types of infractions. However, minimum enforcement procedures are prescribed for certain types of infractions, and at various points in the enforcement process. The following enforcement options are available within the ERG:

- Verbal Enforcement
- Notice of Correction (NOC)
- Notice of Violation (NOV)
- Require Clean Up or Charge Clean Up Costs
- Refer to the Lahontan Regional Water Quality Control Board (Lahontan)
- Administrative Order
- Administrative Civil Action
- Civil Action
- Criminal Action

Enforcement response guidance is presented in tabular format on the following pages. Agencies may or may not conduct inspections for the following infractions. However, violations observed during the course of the agency's daily activities, or that which is reported by a third party may result in review and enforcement action by the agency.

Draft Enforcement Response Guidance – Mojave River Watershed Group

1. Type of infraction: Industrial/Commercial Illegal Discharge

Infraction	**Conditions**		**Enforcement Response**
Industrial/Commercial Illegal Discharge	Observed Discharge (In the Act)	Immediately or Potentially Dangerous to Environment or Human Health	**First Occurrence** Verbally require responsible party to immediately discontinue discharge and require cleanup Re-inspect within 30 days, or within a compliance schedule prescribed by the Permittee **Minimum**: **Enforcement Options:** Issue Notice of Violation (NOV) Administrative Order Administrative Civil Action Notify Appropriate Agencies Civil Action Require Clean Up or Charge Clean Up Costs Criminal Action
			Second Occurrence or Continued Violation or Non-compliance with NOV **Minimum**: Issue Notice of Violation (NOV) with copy to Lahontan Notify Appropriate Agencies **Enforcement Options**: Administrative Order Civil Action Refer to Lahontan for enforcement or permitting Administrative Civil Action Criminal Action
Industrial/Commercial Illegal Discharge	Observed Discharge (In the Act)	Known not Immediately Dangerous	**First Occurrence** Verbally require responsible party to immediately discontinue discharge and/or require clean-up Re-inspect within 30 days, or within a compliance schedule prescribed by the Permittee **Minimum**: Issue Notice of Correction (NOC) to immediately discontinue discharge and implement BMPs. For General Permit sites, copy to Lahontan. Require clean up or charge clean up costs. **Enforcement Options**: Administrative Order Civil Action Administrative Civil Action Criminal Action
			Second Occurrence or Continued Violation or Non-compliance with NOC **Minimum**: Issue Notice of Violation (NOV) with copy to Lahontan Notify Appropriate Agencies **Enforcement Options**: Administrative Order Civil Action Refer to Lahontan for enforcement or permitting Administrative Civil Action Criminal Action

Draft Enforcement Response Guidance – Mojave River Watershed Group

1. Type of infraction: Industrial/Commercial Illegal Discharge

Industrial/Commercial Illegal Discharge	Evidence of Recent or Past Discharge (Not Observed in the Act)	**First Occurrence** **Minimum**: Issue Notice of Correction (NOC) to immediately discontinue discharge and implement BMPs Re-inspect within 30 days, or within a compliance schedule prescribed by the Permittee Require Clean-Up or Charge Clean-Up Costs **Enforcement Options**: Administrative Order Civil Action Administrative Civil Action Criminal Action
		Second Occurrence or Continued Violation or Non-compliance with NOC **Minimum**: Issue Notice of Violation (NOV) with copy to Lahontan Notify Appropriate Agencies **Enforcement Options:** Administrative Order Civil Action Refer to Lahontan for enforcement or permitting Administrative Civil Action Criminal Action

2. Type of Infraction: Industrial/Commercial Site Not Implementing Proper Best Management Practice (BMP)

Infraction	Conditions	Enforcement Response	
Commercial/Industrial Site not Implementing BMPs/SWPPP	Company aware of BMPs	**Minimum**: Notice of Violation (NOV) with Copy to RWQCB Re-inspect in 30 Days	Noncompliance After 30 days: **Minimum**: Second Notice of Violation (NOV) with Copy to Lahontan **Enforcement Options**: Administrative Order Civil Action Administrative Civil Action Criminal Action Refer Site to the Lahontan for Enforcement
Commercial/Industrial Site not Implementing BMPs	Company not aware of BMPs	**Minimum**: Issue Notice of Correction (NOC) Re-inspect in 30 Days	Noncompliance After 30 days: **Minimum**: Second Notice of Violation (NOV) with Copy to Lahontan **Enforcement Options**: Administrative Order Civil Action Administrative Civil Action Criminal Action Refer Site to the RWQCB for Enforcement

3. Type of Infraction: Construction Site Discharges

Infraction	Conditions	Enforcement Response
Construction Site Illegal Discharge	Observed Discharge (In the Act)	Require responsible party to Immediately Discontinue Discharge Re-inspect within 30 days **Minimum**: Issue Notice of Violation (NOV) with Copy to Lahontan Require Clean-Up or Charge Clean-Up Costs **Enforcement Options**: Refer site to Lahontan Administrative Order Administrative Civil Action Civil Action Criminal Action
Construction Site Illegal Discharge	Evidence of Recent or Past Discharge (Not Observed in the Act)	Require responsible party to Discontinue Additional Discharges Re-inspect within 30 days **Minimum**: Issue Notice of Violation (NOV) with Copy to Lahontan Require Clean-Up or Charge Clean-Up Costs **Enforcement Options**: Refer site to Lahontan Administrative Order Administrative Civil Action Civil Action Criminal Action

4. Type of Infraction: Construction Site Not Implementing Proper BMPs

<table>
<tr><th>Infraction</th><th>Conditions</th><th colspan="2">Enforcement Response</th></tr>
<tr><td rowspan="3">Construction Site not Implementing BMPs/SWPPP</td><td rowspan="3">Wet Season</td><td rowspan="3">Enforcement action is at discretion of each agency
Minimum:
Notice of Correction (NOC)
Re-Inspect in 7 days
Option:
Stop Work Order</td><td>Noncompliance After 7 days

Minimum:
Second Notice of Violation (NOV)
Re-Inspect in 7 days</td></tr>
<tr><td>Noncompliance After Second 7 days

Minimum:
ThirdNotice of Violation (NOV)
Re-Inspect in 7 days</td></tr>
<tr><td>Noncompliance After Third 7 days

Enforcement Options:
Administrative Order Civil Action
Administrative Civil Action Criminal Action
Refer Site to the Lahontan for Enforcement</td></tr>
<tr><td rowspan="3">Construction Site not Implementing BMPs/SWPPP</td><td rowspan="3">Dry Season</td><td rowspan="3">Minimum:
Verbal Notice of Correction (NOC)
Re-Inspect in 7 days
Options:
Notice of Correction (NOC) with Copy to RWQCB
Stop Work Order</td><td>Noncompliance After 7 days

Minimum:
Second Notice of Violation (NOV) with Copy to Lahontan
Re-Inspect in 7 Days</td></tr>
<tr><td>Noncompliance After Second 7 days

Minimum:
Third Notice of Violation (NOV)
Re-Inspect in 7 Days</td></tr>
<tr><td>Noncompliance After Third 7 days

Enforcement Options:
Administrative Order Civil Action
Administrative Civil Action Criminal Action
Refer Site to the Lahontan for Enforcement</td></tr>
</table>

5. Type of Infraction: General NPDES Permit Required Sites Without Permit

Infraction	**Enforcement Response**		
Site Without Required General NPDES Permit (Industrial or Construction Site)	**Minimum**: Notice of Correction (NOC) with Copy to Lahontan (must comply within 60 days by obtaining WDID, or conditional exclusion)	Noncompliance after 60 days **Enforcement Options**: Notice of Violation (NOV) with Copy to Lahontan and (must comply within 30 days by obtaining WDID, or non-applicability confirmation letter)	Noncompliance after 30 days **Enforcement Options**: Refer to Lahontan

6. Type of infraction: Residential Illegal Discharges

Infraction	Enforcement Response
Residential Illegal Discharge (In the Act, or Evidence of Past Discharge)	**First Occurrence** Verbally require responsible party to Immediately Discontinue Discharge and provide with BMPs Re-inspect as necessary **Enforcement Options:** Notice of Correction (NOC) Involve Code Enforcement Require Clean Up or Charge for Clean Up Costs
	Second Occurrence or Continued Violation or Non-compliance with NOC **Enforcement Options:** Notice of Violation (NOV) with copy to Lahontan Involve Code Enforcement Administrative Order Civil Action Administrative Civil Action Criminal Action

7. Type of Infraction: Illicit Connection

Infraction	Conditions	Enforcement Response
Illicit Connection	Connection Not Currently Discharging	**Minimum:** **Enforcement Options**: ▪ Notice of Correction (NOC) ▪ Notice of Violation (NOV) ▪ Administrative Order ▪ Administrative Civil Action ▪ Civil Action ▪ Criminal Action
Illicit Connection	Connection Currently Discharging	**Minimum:** Follow Illegal Discharge Response Procedures Require Disconnection of Source or Plugging of Line within 24 hrs. Re-inspect in 24 hours Require Permanent Removal of Connection within 60 Days. Re-inspect in 60 Days

8. Non-Compliance with WQMP – New Development / Significant Redevelopment

Infraction	Conditions	Enforcement Response
Not IMP Non-Structural BMPs		**Minimum:** Notice of Correction (NOC) Notice of Violation (NOV)
Not Installed Structural BMPs		**Minimum:** Notice of Violation (NOV)
Not Maintaining Structural BMPs		**Minimum:** Notice of Correction (NOC) Notice of Violation (NOV)

APPENDIX C

Model Stormwater Ordinance

CHAPTER XX – STORMWATER MANAGEMENT AND DISCHARGE CONTROLS

XX.XX.0010 Authority

The United States Congress passed the Clean Water Act (33 USC Section 1251 et seq., as amended, including Section 402(p) therein) as a mandate, in part, that cities obtain permits to "effectively prohibit non-stormwater discharges into the storm sewers" and "require controls to reduce the discharge of pollutants to the maximum extent practicable..." This permitting authority has been delegated by the United States Environmental Protection Agency to the State of California, which has authorized the State Water Resources Control Board and its local regulatory agencies, the Regional Water Quality Control Boards, to control point and nonpoint source discharges to California's waterways.

The *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville*, in conjunction with the *Cities/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville*, collectively known as the Mojave River Watershed Group, submitted a Stormwater Management Program (SWMP) and requested coverage under the General Permit for the Discharge of Storm Water from Small Municipal Separate Storm Sewer Systems (MS4s), also adopted as Waste Discharge Requirements (WDRs), pursuant to the Porter-Cologne Water Quality Control Act (California Water Code Section 13000 et seq., as amended). The National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements shall be collectively referred to herein as the MS4 Permit. The *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville* is a Co-Permittee under the MS4 Permit and must comply with the requirements set forth in the MS4 Permit and Mojave River Watershed Group SWMP.

XX.XX.0020 Purpose and Intent

(a) The purpose of this Code is to protect health and safety, and promote the welfare of the community by:

(1) Controlling non-stormwater discharges to the stormwater conveyance system.

(2) Reducing pollutants in stormwater discharges, including those pollutants taken up by stormwater as it flows over urban areas, to the maximum extent practicable.

(3) Reducing pollutants in stormwater discharges in order to achieve applicable receiving water quality objectives.

(b) The intent of this Code is to protect and enhance the water quality of receiving waters in a manner pursuant to and consistent with the Clean Water Act, Porter-Cologne Water Quality Control Act, General Permit for the Discharge of Storm Water from Small MS4s, and any applicable future Regional Water Quality Control Board, Lahontan Region, MS4 Permit and any other subsequent amendments, revisions, or reissuance of the permit.

XX.XX.0030 Definitions

For the purposes of this Code, the following definitions shall apply:

(a) **"Authorized Enforcement Officer"** shall mean the "*Director of Public Works/City Engineer*," his/her designee(s), or a *City/County/Town* Code Enforcement Officer.

(b) **"Best Management Practices" or "BMPs"** shall mean schedules of activities, pollution treatment practices or devices, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, operation and maintenance procedures and other management practices or devices to prevent, reduce, or eliminate to the maximum extent practicable (MEP) the discharge of pollutants directly or indirectly to stormwater, receiving waters or the stormwater drainage system. BMPs may be structural or non-structural, and include, but are not limited to, site design, source control, treatment control, and natural design methods. BMPs may include any type of pollution prevention and control measure that can help to achieve compliance with this Code.

(c) **"California Environmental Quality Act" or "CEQA"** shall mean the California Environmental Quality Act, California Public Resource Code Sections 21000 et seq., and the regulations thereunder.

(d) **"California Regional Water Quality Control Board, Lahontan Region" or "RWQCB"** shall mean the Board members, its Executive Officer, and their staff.

(e) **"City/County/Town"** shall mean the *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville, San Bernardino County*, California.

(f) **"*City/County/Town* Permit"** shall mean any permit issued by the *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville*.

(g) **"Clean Water Act"** shall mean the Federal statute (33 USC Section 1251 et seq., as amended, including Section 402(p) therein) requiring municipal and industrial dischargers to obtain NPDES Permits for their discharges of stormwater.

(h) **"Code of Federal Regulations" or "CFR"** shall mean the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the federal government of the United States.

(i) **"Construction"** shall mean construction, clearing, grading, grubbing, or excavation activities that result in soil disturbance. Construction does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility, nor does it include emergency construction activities required to immediately protect the public health and safety.

(j) **"Construction/Industrial Activities Stormwater General Permit"** shall mean the NPDES General Permits adopted by the State Water Resources Control Board, which authorizes the discharge of stormwater associated with construction or industrial activities under certain conditions.

(k) **"*County/Municipal* Codes"** shall mean the official governmental record of all regulatory, penal and certain administrative ordinances of the *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville*, California, as it may be amended.

(l) **"Development"** shall mean "New Development" or "Redevelopment".

(m) **"Director"** shall mean the *Director of Public Works/City Engineer* or his/her designee(s).

(n) **"Discharge"** shall mean, when used without qualification, the "discharge of a pollutant".

(o) **"EPA"** shall mean the Environmental Protection Agency of the United States.

(p) **"Erosion"** shall mean the wearing away of land surface by water or wind which occurs from weather or runoff.

(q) **"Governmental"** shall mean a municipal corporation, county, state, federal, or governmental body, agency or entity.

(r) **"Hazardous material" or "Hazardous substance"** shall mean any material defined as hazardous by Chapter 6.95 of the California Health and Safety Code or any substance designated pursuant to 40 CFR 302. This also includes any unlisted hazardous substance which is a solid waste, as defined in 40 CFR 261.2, which is not excluded from regulation as a hazardous waste under 40 CFR 261.4(b), or is a hazardous substance under Section 101(14) of the Act, if it exhibits any of the characteristics identified in 40 CFR 261.20 through 261.24.

(s) **"Hydromodification"** shall mean the alteration of a natural drainage system through a change in the system's flow characteristics.

(t) **"Illicit Connection"** shall mean any manmade conveyance that is connected to the MS4 without a permit, excluding roof drains and other similar types of connections.

(u) **"Illicit Discharge"** shall mean any discharge to the MS4 that is prohibited under local, state, or federal statutes, ordinances, codes, or regulations. The term includes all non-stormwater discharges, except discharges pursuant to an NPDES Permit, discharges that are exempt or conditionally exempt in accordance with any applicable order of the Regional Water Quality Control Board, Lahontan Region, and discharges authorized by the Executive Officer of the Lahontan Regional Water Quality Control Board.

(v) **"Impaired water body"** shall mean a water body that is listed by the California State Water Resources Control Board or EPA as impaired by a particular pollutant or pollutants, pursuant to Section 303(d) of the Federal Clean Water Act.

(w) **"Impervious surface area"** shall mean a constructed or modified surface that cannot effectively infiltrate rainfall. The term includes, but is not limited to, building rooftops, pavement, sidewalks, and driveways.

(x) **"Litter"** shall mean all improperly discarded waste material, including, but not limited to, convenience food, beverage, and other product packages or containers constructed of steel, aluminum, glass, paper, plastic, and other natural and synthetic materials, thrown or deposited on the lands and waters of the state, but not including the properly discarded waste of the primary processing of agriculture, mining, logging, sawmilling, or manufacturing per California Code Section 68055.1(g).

(y) **"Low Impact Development" or "LID"** shall mean technologies and design strategies with the goal of maintaining or replicating the pre-development hydrologic regime through the use of design techniques to create a functionally equivalent hydrologic site design. Hydrologic functions of storage, infiltration and groundwater recharge, as well as the volume and frequency of discharges are maintained through the use of integrated and distributed micro-scale stormwater retention and detention areas, reduction of impervious surfaces, and the lengthening of runoff flow paths and flow time. Other strategies include the preservation/protection of environmentally sensitive site features such as riparian buffers, wetlands, steep slopes, valuable (mature) trees, flood plains, woodlands, and highly permeable soils.

(z) **"Maximum Extent Practicable" or "MEP"** shall mean the acceptability standard for BMPs established by Congress in Clean Water Act Section 402(p)(3)(B)(iii) that dischargers of stormwater must meet. MEP means using the most effective set of BMPs that can be implemented and still remain practicable. A BMP is effective if it prevents, reduces or removes pollutants that would otherwise be present in the runoff due to human activity. A BMP is practicable if it complies with stormwater and other regulations; is compatible with the area's land use, character, facilities and activities; is technically feasible (considering area soil, geography, water resources, and other resources available); is economically feasible; and provides benefits that are reasonable in relation to costs. MEP generally emphasizes pollution prevention and source control BMPs (as the first line of defense) in combination with treatment methods serving as a backup (additional line of defense).

(aa) **“MS4 Permit” or “NPDES Permit”** shall mean the Waste Discharge Requirement for stormwater discharges from municipal separate storm sewer systems issued by the State Water Resources Control Board or Regional Water Quality Control Board, Lahontan Region. The provisions of this Ordinance shall be interpreted to provide legal authority to support applicable sections of subsequent MS4 Permit Orders, as they may apply within the *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville*. Aspects of this Ordinance were developed based on discharge requirements contained in the MS4 Permit and anticipated discharge requirements known to be common in other regional permits.

(bb) **“Municipal Separate Storm Sewer System” or “MS4”** shall mean a conveyance or system of conveyances (including roads with drainage systems, municipal streets, alleys, catch basins, curbs, gutters, ditches, manmade channels, or storm drains), owned by a governmental entity, that is designed or used for collecting or conveying runoff water. This excludes those systems, or system parts designated as sanitary sewers, combined sewers, or publicly owned wastewater treatment works.

(cc) **“National Pollutant Discharge Elimination System” or “NPDES”** shall mean the national program for issuing modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Clean Water Act § 307, 402, 318 and 405, as amended. This term includes an “approved program”.

(dd) **“New Development”** shall mean land disturbing activities, structural development, including construction or installation of a building or structure, creation of impervious surfaces, and land subdivision for which either a discretionary land use approval, grading, or building permit is required.

(ee) **"Non-Stormwater"** shall mean any fluid not composed entirely of stormwater and that originates on or traverses any property.

(ff) **"Notice of Intent” or NOI"** shall mean a Notice of Intent to comply with an NPDES General Permit.

(gg) **“Owner”** shall mean the legal owner of a parcel of real property, except when the legal owner of the property is the holder of the mortgage, note, or other such security, in which case it is beneficiary of said real property.

(hh) **“Person”** shall mean any natural person as well as any corporation, partnership, government entity or subdivision, trust, estate, cooperative association, joint venture, business entity, or other similar entity, or the agent, employee or representative of any of the above.

(ii) **“Priority Planning Projects”** shall mean those discretionary new development and redevelopment projects that are required by the MS4 Permit to incorporate appropriate stormwater mitigation measures into their design plan.

(jj) **“Pollutant(s)”** shall mean the Clean Water Act § 502(6) (33 U.S.C. § 1362(6)) definition as referenced in California Water Code § 13373.

(kk) **"Receiving Water"** shall mean all waters of the State such as surface water or groundwater, including saline waters within the boundaries of the State. Shall also mean all waters of the United States and tributaries of waters of the United States that are used for recreational or other purposes; from which fish or shellfish are taken; or which are used for industrial purposes of industries in interstate commerce.

(ll) **“Redevelopment”** shall mean any construction activity that result in the creation, addition, or replacement of five thousand (5,000) square feet or more of impervious surface area on an already developed site. Redevelopment includes, but is not limited to: the expansion of a building footprint; addition or replacement of a structure; replacement of impervious surface area that is not part of a routine maintenance activity; and land-disturbing activities related to structural or impervious surfaces. Redevelopment does not include routine maintenance activities to maintain original line and grade, hydraulic capacity, original purpose of facility or emergency construction activities to immediately protect public health and safety.

(mm) **“Source Control BMP”** shall mean non-structural activities, practices, and procedures that are designed to prevent urban runoff pollution.

(nn) **“State Water Resources Control Board,” “State Water Board,” or “SWRCB”** shall mean the Board members, its Executive Director, and their staff.

(oo) **"Storm Drain System" or “Stormwater Conveyance System”** shall mean all of the property interests owned or leased by the *City/County/Town* and used directly or indirectly in the collection, conveyance, transport, storage or disposal of stormwater and including but not limited to street gutters, conduits, natural or artificial drains, storm drains, channels, lined diversion structures, basins and watercourses, together with appurtenances, pumping stations and equipment.

(pp) **“Stormwater Management Program” or “SWMP”** shall mean the Mojave River Watershed Group Stormwater Management Program, or a comparable *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville* specific program.

(qq) **“Standard Industrial Classification” or “SIC”** shall mean the four digit code system used to identify business types in the MS4 Permit and Clean Water Act Amendments. The six digit North American Industrial Classification System (NAICS) is supplanting the SIC. Cross-references between SIC and NAICS codes shall follow those of the Economic Classification Policy Committee of the United States Office of Management and Budget, which is distributed by the National Technical Information Service.

(rr) **“Stormwater”** shall mean stormwater and surface runoff or drainage associated with storm events and snow melt, and is that portion of precipitation that flows across a surface to the storm drain system or receiving waters.

(ss) **“Storm Water Pollution Prevention Plan” or “SWPPP”** shall mean a plan, as required by the State Construction or Industrial General Permit, identifying potential pollutant sources and describing the design, placement, and implementation of BMPs, to effectively prevent non-stormwater discharges and reduce pollutants in stormwater discharges.

(tt) **"Structural BMP"** shall mean any structural facility designed and constructed to mitigate the adverse impacts of stormwater and urban runoff pollution, including source control and treatment control BMPs.

(uu) **"Treatment Control BMP"** shall mean any engineered system designed to remove pollutants by simple gravity settling of particulate pollutants, filtration, biological uptake, media adsorption or any other physical, biological or chemical process.

(vv) **"Urban Runoff"** shall mean water or pollutants conveyed by the MS4.

(ww) **"Water Quality Management Plan" or "WQMP"** shall mean a post-construction water quality mitigation plan, that is designed to minimize pollutant discharges from priority planning development and redevelopment projects, which may potentially have adverse impacts on urban runoff or stormwater quality.

XX.XX.0040 Stormwater Management Program

Notwithstanding other provisions in the *City/County/Town Municipal Code*, the NPDES Permit requires the *City/County/Town of Apple Valley/Hesperia/San Bernardino/Victorville* to implement the Mojave River Watershed Group Stormwater Management Program (SWMP) as an enforceable element of the NPDES Permit..

XX.XX.0050 Prohibited Pollutants in Discharges

(a) It is prohibited to:

(1) Discharge directly or indirectly into the storm drain system any stormwater or other solid, liquid, or gaseous matter in violation of any law, rule, regulation, permit, order or other requirement of any federal, state, county, municipal or other governmental entity or agency;

(2) Discharge non-stormwater directly or indirectly to the storm drain system or any street or lined or unlined drainage ditch which leads to a public storm drain, unless such discharge is permitted by an NPDES Permit or a *City/County/Town* permit. If such discharge is permitted by an NPDES Permit,

but caused the *City/County/Town* to violate any portions of its NPDES Permit for stormwater discharges, such discharge is also prohibited;

(3) Throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, placed, left or maintained, any refuse, rubbish, garbage, or other discarded or abandoned objects, articles, and accumulations, in or upon any street, alley, sidewalk, storm drain, inlet, catch basin, conduit or other drainage structures, business, place, or upon any public or private lot of land in the *City/County/Town*, in a manner and place where they may result in an illegal discharge;

(4) Throw or deposit litter in any fountain, pond, lake, stream or any other body of water in a park or elsewhere within the *City/County/Town*.

(b) It is unlawful for any person to construct, use or maintain a connection to the stormwater conveyance system that discharges any matter other than stormwater, except as set forth in *Section XX.XX.0060* for Exemptions from Discharge Prohibitions. This section expressly supersedes any previously issued permit or authorization granted by the *City/County/Town* and expressly prohibits any previously legal non-conforming connection.

(c) Pollutants prohibited from discharge to the MS4 shall include:

(1) Any water constituent found at concentrations or levels that may potentially cause a beneficial use impairment in a downstream receiving water body that is currently on a Clean Water Act 303(d), Monitoring, Enforceable Limit, or similar list;

(2) Any sediment, settleable, or suspended solid;

(3) Any living or dead animal or the biological waste products of domestic animals;

(4) Any food, food processing or medical waste;

(5) Any thermal, color, conductive, oxygen demanding, growth inducing, corrosive, hazardous, or radioactive waste;

(6) Any chemical waste, salt, organic compound, pesticide, or metal;

(7) Any hydrocarbon based fuel, oil, lubricant, fluid, or additive; and

(8) Any substance designated as a pollutant by the Regional Water Quality Control Board.

XX.XX.0060 Exemptions from Discharge Prohibitions

Except as described in *Section XX.XX.0060(f)*, the following are exempt from the discharge prohibitions in *Section XX.XX.0050*:

(a) Any discharge or connection regulated under a valid facility specific NPDES Permit or facility specific Regional Water Quality Control Board Waste Discharge Requirements, not including a Construction or Industrial Activities Stormwater General Permit, provided that the discharge or connection is in compliance with all relevant permit conditions to the satisfaction of the Regional Water Quality Control Board.

(b) Stormwater discharges regulated under the Construction or Industrial Activities Stormwater General Permit are exempt from discharge prohibitions established by this Code, provided that the discharger is in compliance with all relevant General Permit conditions to the satisfaction of the Regional Water Quality Control Board.

(c) Non-stormwater agricultural discharges that the State Water Resources Control Board or Regional Water Quality Control Board explicitly allows pursuant to a written waiver, Waste Discharge Requirement, or formal policy, provided that the discharger can demonstrate compliance with all relevant permits, waiver or policy conditions to the satisfaction of the State Water Resources Control Board or Regional Water Quality Control Board.

(d) Except as described in *Section XX.XX.0080*, the following categories of non-stormwater discharges, if the discharger installs, implements, and maintains Best Management Practices (BMPs) or other appropriate action to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP) using the best available technology and if the discharge does not degrade the stormwater conveyance system:

(1) Diverted stream flows, provided required permits are obtained.

(2) Flows from riparian habitats and wetlands.

(3) Foundation drains, not including active groundwater dewatering systems.

(4) Individual residential washing of vehicles.

(5) Irrigation water including recycled water used for irrigation.

(6) Landscape irrigation.

(7) Lawn watering.

(8) Rising groundwater.

(9) Swimming pool, spa, or fountain discharges excluding filter backwash, acid wash, and algaecide-treated other process water discharges.

(10) Uncontaminated groundwater infiltration to storm drains.

(11) Uncontaminated pumped groundwater.

(12) Water from crawl space pumps.

(13) Water from footing drains, not including active groundwater dewatering systems.

(14) Springs.

(15) Air conditioning condensation.

(16) *City/County/Town* pre-approved diversions of potable water as part of utility line maintenance, provided that the discharge does not cause erosion or contain sediment or other pollutants.

(17) Discharges from potable water sources not subject to an NPDES Permit, other than water main breaks.

(e) Exemptions to protect public health and safety. Discharges of trauma scene post-cleanup residues, and other discharges provided that it is in conformance with the Regional Water Quality Control Board's Conditional Waiver of Waste Discharge Requirements.

(f) Any discharge category described in *Section XX.XX.0060(d)* that the authorized enforcement officer determines is a significant source of pollutants to waters of the United States shall be prohibited from entering the stormwater conveyance system or

receiving waters, or the discharger shall implement additional BMPs to reduce pollutants in that discharge to the MEP, using the best available technology.

(1) The authorized enforcement officer may issue a written notice to the discharger imposing a schedule to cease the discharge or implement the additional BMPs.

(2) The schedule may take into account the nature and severity of any effects caused by the discharge and the time required to design, engineer, fund, procure, construct and make appropriate BMPs or interim BMPs operational.

XX.XX.0070 Illicit Connection and Illicit Discharge Prohibition

Any industrial discharger, discharger associated with construction activity, or other discharger subject to any NPDES General Permit issued by the United States Environmental Protection Agency, the State Water Resources Control Board, or Regional Water Quality Control Board, Lahontan Region, shall comply with all requirements of such permit. Proof of coverage under such NPDES General Permits may be required in a form acceptable to the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), prior to issuances of any *City/County/Town* grading, building, or occupancy permits.

(a) No owner or person shall use, allow, or suffer, an illicit connection to the MS4; and must therefore remove or terminate such illicit connection.

(b) No person shall cause, nor contribute, to the exceedance of water quality standards, nor impair attainable beneficial use objectives in receiving waters of the State.

(c) No person shall allow a discharge to enter the MS4, unless:

(1) It consists entirely of stormwater; or

(2) Is authorized by an NPDES Permit; or

(3) Is identified in an NPDES Permit as an exempt discharge; or

(4) Is authorized by the Executive Officer of the Regional Water Quality Control Board.

(d) Illicit discharges that are prohibited from entering the MS4 shall include, but are not limited to, the following:

(1) The discharge of wash waters to the MS4 from the cleaning of gas stations, auto repair garages, or other automotive service facilities;

(2) The discharge of runoff to the MS4 from mobile auto washing, steam cleaning, mobile carpet cleaning, and other such mobile commercial and industrial operations;

(3) The discharge of runoff to the MS4 from areas where repair of machinery and equipment, which are visibly leaking oil, fluid or antifreeze, is undertaken;

(4) The discharge of runoff or wash down to the MS4 from paved or unpaved storage areas where materials containing grease, oil, paint, toxic or other hazardous substances, and uncovered receptacles containing hazardous materials are, or have been, located;

(5) The discharge of chlorinated or brominated, swimming pool or spa water and filter backwash or diatomaceous earth to the MS4;

(6) The washing of materials or impervious surfaces that result in discharges to the MS4;

(7) The discharge of concrete or cement laden wash water from concrete trucks, pumps, tools, and equipment to the MS4; and

(8) Dumping or disposal of materials into the MS4, such as:

a. Solid waste as defined in California Public Resources Code, Section 40191;

b. Solid waste, including, but not limited to, trash, litter, food wastes, packaging, paper bags, newspaper, and garbage;

c. Construction or landscape debris, such as leaves, dirt, grass clippings, bark, fertilizer, bags, or plant cans;

d. Any governmentally banned or unregistered algaecide, pesticide, insecticide, fungicide, nematicide, acaricide, or herbicide;

e. Automotive, fuel and chemical wastes including batteries;

f. Animal, biological, food processing, or medical wastes; and

g. Other material that may have an adverse impact on water quality, wildlife, or receiving water habitat value.

XX.XX.0080 Reduction of Pollutants in Stormwater

The owner, occupant or other person in charge of day-to-day operation or maintenance of each parcel within the *City/County/Town* shall adhere to the following good housekeeping and BMP requirements:

(a) For premises exposed to stormwater, the owner, occupant or other person in charge of day-to-day operations shall use appropriate BMPs, or other steps to reduce the discharge of pollutants to at least the MEP standard.

(b) No person or entity shall dump, release, spill, leak, pump, pour, emit, empty, discharge, inject, bury or dispose into the environment, any solid or liquid wastes, including any pollutant, in or upon any part of the MS4, or upon any public or private premises within the *City/County/Town*.

(c) No person or entity shall cause, suffer, or permit any solid or liquid waste or pollutant, to come to be located upon, in, on, or under any premises in the *City/County/Town*, except in the original manufacturers container or a governmentally authorized container, waste facility, or treatment works.

(d) No person shall dispose of any hazardous substance or material, into any litter or waste container.

(e) Washing down paved areas shall be prohibited unless necessary for health or safety purposes and not in violation of any other provision of this Code. Runoff from the authorized washing of paved areas shall be minimized to the MEP and appropriate BMP measures shall be implemented to remove solids, such as litter and debris, sediments and hydrocarbons and other organic chemicals.

(f) Uncovered outdoor storage of unsealed containers of building materials, lawn and automotive care products, or other substances that may contribute pollutants to the stormwater conveyance system is prohibited.

(g) Commercial tenants, multi-family building managers and industrial owners shall inspect trash receptacles and refuse storage areas on a weekly basis for loose garbage and liquid waste residue and shall not allow such garbage and residue to enter the storm drain system. Trash receptacles shall have solid covers and shall remain closed to prevent the entry of rain and the exit of windblown litter. Trash receptacles shall be maintained without broken covers and leaks.

(h) Premises with twenty-five (25) or more motor vehicle parking spaces, or five thousand (5,000) square feet of parking lot area, and upon which runoff water is conveyed, shall be vacuum swept monthly and shall employ other BMPs as may be necessary, to reduce discharges to the MEP.

(i) Premises with between ten (10) and twenty-four (24) motor vehicle parking spaces, and upon which runoff water is conveyed, shall be vacuum swept quarterly and shall employ other BMPs as may be necessary, to reduce discharges to the MEP.

(j) Objects, such as motor vehicle parts, containing grease, oil, or other hazardous substances, and unsealed receptacles containing hazardous materials, shall not be stored in areas exposed to stormwater or otherwise susceptible to runoff.

(k) For premises where machinery or other equipment is repaired or maintained, the owner, occupant or other person in charge of the day-to-day operations shall use BMPs or other steps to prevent discharge of maintenance or repair related pollutants to the MS4.

(l) Machinery and equipment, including motor vehicles, which are leaking oil or fluid must be repaired.

(m) Use of any algaecide, pesticide, herbicide or fungicide, the manufacture of which has been either voluntarily discontinued or prohibited by the United States Environmental Protection Agency, is prohibited.

(n) Intentional disposal of any trash, litter, debris or hazardous material of any type into a storm drain is prohibited.

(o) Materials and equipment necessary for pollutant source control activities, that are commensurate with facility operations and materials, shall be maintained and kept readily available and accessible to all employees.

(p) Any BMP, runoff reduction, discharge control structure, or activity must be designed, operated and maintained to prevent the release of odors, or entrance and proliferation of pathogens or their vectors, or other nuisance microbe, invertebrate or vertebrate organisms.

(q) If the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), determines that water quality criteria may be compromised by discharges from a parcel or development, the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), shall have the authority to require BMP implementation until the discharge of runoff or pollutants to the MS4, or receiving water, have been reduced to the MEP.

XX.XX.0090 New Development and Redevelopment Requirements

A Water Quality Management Plan (WQMP) shall be prepared and submitted for all priority planning development and redevelopment projects. The WQMP shall include proposed source control and structural best management practices, and Low Impact Development (LID) techniques as specified in the NPDES Permit, and the WQMP shall be prepared in conformance with the Mojave River Watershed Group SWMP and related guidance documents. Structural BMPs shall be required for all priority planning development projects, and such projects shall be designed so that the structural BMPs comply with the volume or flow design criteria specified in the NPDES Permit.

The *City/County/Town*n may require independent review of the submitted WQMP. The project applicant shall pay for all costs and expenses incurred by the *City/County/Town* in the review of new development or redevelopment projects for compliance with the NPDES Permit and Mojave River Watershed Group SWMP. The *City/County/Town* may elect to

require a deposit of estimated costs and expenses, and the actual costs and expenses shall be deducted from the deposit, and the balance, if any, refunded to the project applicant.

(a) The following types of new development and redevelopment projects are identified as priority planning projects requiring preparation of a Water Quality Management Plan that complies with the Mojave River Watershed Group SWMP and NPDES Permit requirements.

(1) Single-family hillside residences;

(2) Residential projects with ten (10) or more housing units;

(3) Industrial or commercial developments with one or more acres of impervious area;

(4) Automotive service facilities (SIC 5013, 5014, 5541, 7532-7534, and 7536-7539);

(5) Retail gasoline outlets;

(6) Restaurants (SIC 5812);

(7) Parking lots of five thousand (5,000) or more square feet, or twenty-five (25) or more parking spaces;

(8) All significant redevelopment projects, where significant redevelopment is defined as priority planning development projects, which include the addition or replacement of five thousand (5,000) or more square feet of impervious surface on a developed site.

(9) Developments of two thousand five hundred (2,500) square feet of impervious surface or more, adjacent to or discharging directly into environmentally sensitive areas, such as water bodies listed on the CWA Section 303 (d) list of impaired waters.

(10) Streets, roads, highways and freeways of five thousand (5,000) square feet of paved surface. The WQMP should address the project area. This category includes any paved surface used for the transportation of automobiles, trucks,

motorcycles and other vehicles and excludes any routine road maintenance activities where the footprint is not changed.

(b) For priority planning projects where redevelopment results in an alteration to more than fifty percent (50%) of the impervious area of the previous development, the entire project must be mitigated. For projects where fifty percent (50%) or less of the impervious area is altered, only the altered area must be mitigated.

(c) The following pollution source control requirements shall apply to all persons submitting applications for new development or redevelopment projects within the *City/County/Town*.

(1) During application review for priority planning development or redevelopment projects, the applicant shall submit an appropriate project specific Water Quality Management Plan to the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s).

(2) In developing a Water Quality Management Plan, an applicant shall infiltrate, or adequately treat, the projected runoff for the new development or redevelopment using the design standards for structural or treatment control BMPs as specified in the NPDES Permit. All projects are required to incorporate post-construction structural or treatment control BMPs that incorporate, at a minimum, either a volumetric or flow based treatment control design standard, or both, as identified in the NPDES Permit to mitigate (infiltrate, filter or treat) stormwater runoff.

a. For compliance with this requirement, lined planters, pools, hot tubs, spas, and similar structures shall be considered impermeable surfaces that may potentially generate runoff.

(3) Structural and design elements that typically increase infiltration, reduce pollutant conveyance, and decrease runoff include:

a. Using green strips, sand filters, swales, infiltration basins, biofilters, and planters to maximize infiltration;

b. Replacing impermeable surfaces with porous materials;

c. Directing impervious surface runoff to permeable areas;

d. Grading the site to encourage runoff to permeable areas;

e. Directing runoff to dry wells, perforated pipes, infiltration trenches, or other source reduction BMPs;

f. Removing or designing curbs, berms and landscaping to facilitate infiltration;

g. Using cisterns or retention basins to store precipitation or runoff for reuse; and

h. Installing treatment control BMPs to remove pollutants.

(4) All Water Quality Management Plans must include a structural and treatment control BMP maintenance schedule, the applicant's signed statement of responsibility for continued BMP maintenance, and plan for continued maintenance responsibilities.

(5) The applicant shall retain responsibility for such maintenance until responsibility is legally transferred in accordance with *Section XX.XX.0120*

(6) The project applicant, facility operators and/or owners shall also provide, as requested by the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), any other legally enforceable agreement that assigns responsibility for the maintenance of post-construction structural or treatment control BMPs and LID features.

(7) The Water Quality Management Plan must indicate that subsequent property transfers, include, as a written condition and are subject to, the transferee assuming full responsibility for maintenance of any structural, treatment and/or source control BMPs and LID features.

(8) The *City/County/Town* may require that the terms, conditions, and requirements imposed pursuant to *Section XX.XX.0090* be recorded with the County of San Bernardino Auditor/Controller-Recorder's office by the property owner. The signature of the property owner or any successive owner shall be sufficient for the recording of these terms, conditions, and requirements and a

signature on behalf of the *City/County/Town* shall not be required for recordation.

(9) As a condition for issuing a certificate of occupancy for a new development or redevelopment project, the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), shall require:

a. The applicant, facility operators and/or owners, as appropriate, to construct all stormwater pollution control BMPs, structural or treatment control BMPs, and LID features shown on the approved project plans.

b. The applicant, facility operators and/or owners to submit, for review and approval, a BMP and LID maintenance schedule and inspection plan.

c. The applicant to file a signed statement that the project site and all structural or treatment control BMPs and LID features shall be maintained in compliance with the Water Quality Management Plan.

(d) The following design elements shall be required for all priority planning development or redevelopment projects, except single-family residences unless the *City/County/Town's Public Works Director/City Engineer* determines that the construction may result in the discharge of significant levels of a pollutant into the MS4:

(1) Preparation and *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), approval of the Water Quality Management Plan, as a condition of approval.

(2) Runoff shall not be conveyed to, from, or through, the following areas:

a. Loading and unloading dock areas;

b. Repair and maintenance bays;

c. Vehicle and equipment wash areas; and

d. Fueling areas.

(3) Developments which include outdoor material storage areas that may discharge MS4 pollutants, must include design elements to:

a. Place the materials within enclosures, such as cabinets, sheds, or awnings, which prevent contact with rain, runoff, or other liquids that might flow to the MS4.

b. Liquid handling areas shall use impervious spill containing floors, drains, sumps, vessels, berms, secondary containment, dikes, and curbs to contain materials and eliminate discharges to the MS4.

(4) Waste material bins must be stored in a covered area to prevent rainfall or roof drainage, from any structure, through the waste.

(5) The area where a trash receptacle or receptacles are located for use as a repository for solid wastes must meet the following structural or treatment control BMP requirements:

a. Drainage from adjoining roofs and pavement must be diverted away from the trash storage areas.

b. The area must be covered with a roof or awning to prevent rain from entering the area and sewer or storm drain conveyance system, screened or walled to prevent offsite transport of trash, and connected to the sanitary sewer.

c. Trash bins must have solid covers and be covered at all times except while being emptied.

(6) Fueling area designs must meet the following criteria:

a. The fuel dispensing area must be covered with an overhanging roof structure or canopy. The canopy's minimum dimensions must be equal to or greater than the area within the grade break. The canopy must not drain onto the fuel dispensing area, and the canopy downspouts must be routed to prevent drainage across the fueling area.

b. The fuel dispensing area must be paved with Portland cement concrete (or equivalent smooth impervious surface), and the use of asphalt concrete shall be prohibited.

c. The fuel dispensing area must have a two (2) percent to four (4) percent slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents runon of stormwater to the extent practicable.

d. At a minimum, the concrete fuel dispensing area must extend six and a half (6.5) feet from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus one (1) foot, whichever is less.

(7) Any project including downspouts, roof gutters or subsurface drainage shall utilize perforated pipes, infiltration trenches, “French Drains” or similar systems, unless prohibited by the *City/County/Town’s Public Works Director/City Engineer*, or his/her designee(s), or site specific circumstances endanger public safety so as to prohibit its use as determined by the *Public Works Director/City Engineer*, or his/her designee(s).

(8) Each project implementing a Water Quality Management Plan shall be individually evaluated to ascertain if the proposed project is in substantial conformance with the approved Water Quality Management Plan before release of the Certificate of Occupancy.

(9) The Water Quality Management Plan must demonstrate to the *City/County/Town’s Public Works Director’s/City Engineer’s*, or his/her designee’s(s’), satisfaction that proposed BMPs and LID features, numeric design criteria, or design elements meet the requirements of this Code.

(10) The *City/County/Town’s Public Works Director/City Engineer*, or his/her designee(s), shall approve or disapprove of any proposed project plans. If the plans are disapproved, the developer may request a written explanation for the disapproval. Any disapproved plan must be revised by the project applicant and resubmitted for approval. No *City/County/Town* grading or building permit shall be issued until the *City/County/Town’s Public Works Director/City*

Engineer, or his/her designee(s), has approved a Water Quality Management Plan.

(e) The *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), may waive the requirements of *Section XX.XX.0090* of the *City/County/Town Municipal Code*, if the petitioner demonstrates the impracticability of implementing them. Recognized circumstances demonstrating impracticability include: (i) extreme space limitations for treatment; (ii) unfavorable or unstable soil conditions; (iii) high groundwater; and (iv) excessive groundwater contamination risk because a known unconfined aquifer lies beneath the land surface or an existing or potential underground source of drinking water is less than ten feet from the soil surface. Any other justification for impracticability must first be submitted to the Regional Water Quality Control Board, and then petitioned to the *City/County/Town*.

(f) Compliance with an approved Water Quality Management Plan shall be a condition of any required planning approval.

XX.XX.0100 Low Impact Development Requirements

(a) Low Impact Development (LID) requirements shall apply to all priority planning development and redevelopment projects within the *City/County/Town,* except for the following:

(1) Any development involving emergency construction activities required to immediately protect public health and safety; or

(2) Public road and flood control infrastructure developments, which shall be subject to the *City/County/Town's* design standards that incorporate LID principles.

(b) Unless excluded by *Section XX.XX.0100(a)*, any priority planning development that alters an existing impervious surface area shall comply with this Code as follows:

(1) Where the development results in an alteration of at least fifty (50) percent of the impervious surfaces of an existing developed site, the entire site shall be

brought into compliance with the standards and requirements of this Code; and

(2) Where the development results in an alteration of less than fifty (50) percent of the impervious surfaces of an existing developed site, only such incremental development shall meet the standards and requirements of this Code.

(c) All priority planning development and redevelopment projects shall install, implement, and maintain the following LID techniques:

(1) Minimize directly connected impervious surfaces.

(2) Drain a portion of impervious areas such as rooftops, parking lots, sidewalks, walkways, and patios into pervious areas prior to discharge to the stormwater conveyance system. The amount of runoff from impervious areas that drains to pervious areas shall correspond with the total capacity of the project's pervious areas to infiltrate or treat runoff, taking into consideration the pervious areas' soil conditions, slope, and other pertinent factors.

(3) Properly design and construct the pervious areas to effectively receive and infiltrate or treat runoff from impervious areas, taking into consideration the pervious areas' soil conditions, slope, and other pertinent factors.

(4) If developed with low traffic areas and appropriate soil conditions, construct a portion of walkways, trails, overflow parking lots, alleys, or other low -traffic areas with permeable surfaces, such as pervious concrete, porous asphalt, unit pavers, and granular materials.

(5) Conserve natural areas, including existing trees, other vegetation, and soils.

(6) Construct streets, sidewalks, or parking lot aisles to the minimum widths necessary, provided that public safety and a walk able environment for pedestrians are not compromised.

(7) Minimize the impervious footprint of the project.

(8) Minimize soil compaction.

(9) Minimize disturbances to natural drainages, such as natural swales, or topographic depressions.

(10) Implement buffer zones for natural water bodies.

(11) Maintain or lengthen the pre-existing time of concentration.

(d) Hydromodification Management.

(1) Post-construction peak runoff flow rates and velocities from the project site shall be maintained at levels that will not cause an increase in downstream erosion.

(2) Measures to control flow rates and velocities shall not disrupt flows and flow patterns that are necessary to support downstream wetlands or riparian habitats. Diversion of runoff to regional facilities shall not be allowed to deprive immediate downstream habitats of the necessary natural low flows levels experienced during the dry weather season or overbank flow events.

(3) Hardening natural downstream areas to prevent erosion is prohibited, except where predevelopment conditions are shown, to the satisfaction of the *City/County/Town*, to be so erosive that hardening would be required even in the absence of the proposed development.

(e) All required LID principles shall be incorporated into the Water Quality Management Plan for new development and redevelopment projects.

(f) All grading and/or site drainage plans for the development shall incorporate the approved LID features described in the project specific Water Quality Management Plan.

(g) The development's LID features shall be maintained and remain operable at all times and shall not be removed from the development unless and until such features have been replaced with other LID features in accordance with this Code.

(h) The *Public Works Director/City Engineer*, or his/her designee(s), shall prepare, maintain, and update, as deemed necessary and appropriate, a manual that shall include urban and stormwater runoff quantity and quality control development principles and technologies for achieving the LID standards described in *Section XX.XX.0100*. The manual shall also include technical feasibility and implementation parameters, as well as other rules, requirements and procedures as the *Public Works*

Director/City Engineer, or his/her designee(s), deems necessary, for implementing the provisions of this Code. Alternatively, the *Public Works Director/City Engineer*, or his/her designee(s), may adopt manuals developed by others that are deemed appropriate for use within the Mojave River Watershed.

XX.XX.0110 Construction Site Requirements

Any discharger associated with construction activity, or other discharger subject to any NPDES General Construction Permit issued by the United States Environmental Protection Agency, the State Water Resources Control Board, or Regional Water Quality Control Board, Lahontan Region, shall comply with all requirements of such permit. Proof of coverage under such an NPDES General Construction Permit may be required in a form acceptable to the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), prior to issuances of any *City/County/Town* grading, building, or occupancy permits.

Runoff from construction sites may be a major source of pollution and is subject to federal, state, and local requirements to improve stormwater quality. With few exceptions, these requirements will include the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) for every construction activity as defined herein within the *City/County/Town*. SWPPPs may be reviewed at the construction site by the City/County/Town's authorized enforcement officer. Stormwater treatment measures known as BMPs may be required along with inspections by the *City/County/Town* or State to determine compliance with the SWPPP, NPDES Permit, Construction General Permit, and the installation and management of the BMPs.

Any person performing or causing to be performed construction activities in the *City/County/Town* shall comply with the provisions of this Code, applicable regulations for erosion and sediment control, all grading and drainage regulations and any subsequent revisions or amendments to said regulations.

(a) All persons engaged in construction activity within the *City/County/Town* shall operate in compliance with all state and federal laws regulating or pertaining to stormwater management and runoff, including operating with all required permits. The *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), may require that said permits be displayed at the worksite as a condition of continuing to perform said construction.

(b) No person shall commence or continue any construction activity in the *City/County/Town* that causes the disturbance of one or more acres, or less than one acre which is part of a common plan of development for one or more acres, by clearing, grading, excavating or reconstructing existing facilities involving removal and replacement without demonstrating to the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), that such person has obtained coverage under an NPDES Construction General Permit for stormwater discharges associated with construction activity from the State Water Resources Control Board. For purposes of the Construction General Permit, construction activity requiring a permit does not include:

(1) Routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility; or

(2) Emergency construction activities required to protect the public health and safety.

(c) Any person engaged in a construction activity requiring coverage under a Construction General Permit shall retain at the construction site the following documents:

(1) A copy of the Notice of Intent (NOI) to comply with the requirements of the Construction General Permit for stormwater discharges associated with construction activity;

(2) A Waste Discharge Identification (WDID) number issued by the State Water Resources Control Board; and

(3) A Storm Water Pollution Prevention Plan for the construction activity requiring the construction permit.

(d) Any person engaged in a construction activity requiring coverage under a Construction General Permit shall provide any of the documents described in *Section XX.XX.0110* to the *City/County/Town* upon request of the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s).

(e) Prior to the issuance of any building or grading permit for the construction of a new development or redevelopment project, the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), shall evaluate the proposed project to determine its potential to generate illicit discharges into the municipal storm drain system during construction. Based upon this evaluation, the *City/County/Town* may require that conditions be placed upon the issuance of the building or grading permit to minimize the risk of discharge of pollutants into the storm drain system. The imposition of conditions under this section shall be based on the standards set forth in the most recent edition of the California Stormwater Best Management Practice Handbooks (Municipal, Industrial/Commercial, New Development and Redevelopment, and Construction volumes), and additional standards as determined by the *City/County/Town*.

(f) The SWPPP for the construction site is to remain at the site and is to be made available to the *City/County/Town's* authorized enforcement officer. At the start of construction and during construction the *City/County/Town*'s authorized enforcement officer may inspect any site to determine that the SWPPP for the site is being followed, the project is in conformance with the Conditions of Approval, and that the indicated BMPs have been properly installed and satisfactorily maintained. If the SWPPP has not been implemented and/or if the BMPs onsite have not been satisfactorily installed or maintained the *City/County/Town's* authorized enforcement officer will notify the owner or operator of the deficiencies. The *City/County/Town* may also seek an injunction to stop the work as provided herein and civil or criminal penalties.

(g) Subject to all of the provisions of this Code, the following additional requirements shall apply to persons conducting construction in the *City/County/Town* for which a certificate of occupancy is required, and the owners of such property. The requirements set forth below shall apply at the time of demolition of an existing structure or commencement of construction and until receipt of a certificate of occupancy:

(1) Runoff containing sediment, construction waste and other pollutants from construction sites and construction vehicles and equipment parking areas which is likely to enter the storm drain system shall be reduced to the MEP.

(2) Any sediment or other materials that are tracked off the site by vehicles and equipment shall be removed the same day as they are tracked off the site. Where determined to be necessary by the *City/County/Town's Public Works Director/City Engineer*, or his/her designee(s), a temporary sediment barrier shall be installed.

(3) For any painting removal, paint preparation, or sandblasting activities that will result in particles entering the air or landing on the ground, BMP steps shall be implemented to prevent or minimize to the MEP such particle releases into the environment.

(4) Between August 1st through October 1st and November 1st through May 1st, of each year the owner of property or any person performing improvements thereon shall use a plastic or other covering, along with additional runoff control devices if necessary, to intercept and safely convey the runoff on unprotected areas to control runoff of pollutants.

(5) Excavated soil shall be located on the site in a manner that minimizes the amount of soil transported into the public right-of-way and onto adjoining properties. Soil stockpiles shall be covered with plastic or other covering until the soil is either used or removed.

(6) Washing construction equipment or vehicles is not allowed on *City/County/Town* rights-of-way or private roadways adjacent to a construction

site. No person shall allow water from vehicles or equipment on a construction site to runoff into the *City/County/Town's* storm drain system or right-of-way.

(7) Drainage controls shall be utilized as needed to prevent discharge, depending on the extent of proposed grading and topography of the site, including but not limited to the following:

a. Detention ponds, sediment ponds, or infiltration pits;

b. Dikes, filter berms or ditches; or

c. Downdrains, chutes or flumes.

(h) The *City/County/Town* may, as a condition of granting a building or grading permit, set forth reasonable limits on the clearing of vegetation from construction sites, including, but not limited to, regulating the length of time during which soil may be bare.

(i) The *City/County/Town* is permitted to enter and inspect facilities permitted under and subject to this Code as often as may be necessary to determine compliance with this Code and permits issued hereunder.

(1) If an owner or operator holding a permit has security measures in force which require proper identification and clearance before entry into its premises, the owner or operator shall make the necessary arrangements to allow the *City/County/Town's* authorized enforcement officer access to the premises.

(2) Owners or operators holding a permit or their designated representatives shall allow the *City/County/Town's* authorized enforcement officer ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of an NPDES Permit to discharge stormwater, and to determine performance of any additional duties required by the permit or by applicable state and federal law.

(3) The *City/County/Town* shall have the right to setup on any permitted facility such devices as are necessary in the opinion of the *City/County/Town* to conduct monitoring and/or sampling of the facility's stormwater discharge.

(4) The *City/County/Town* has the right to require permitted dischargers to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.

(5) Any temporary or permanent obstruction to safe and easy access to the permitted site or facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the *City/County/Town* and shall not be replaced. The costs of clearing such access shall be borne by the operator.

(6) Unreasonable delay in allowing the *City/County/Town* access to a permitted facility is a violation of a stormwater discharge permit and of this Code. A person who is the operator of a facility with an NPDES Permit to discharge stormwater associated with construction activity violates the permit terms if the person denies the *City/County/Town* reasonable access to the permitted facility for conducting any activity authorized or required by this Code.

(j) If the *City/County/Town* has been refused access to the premises, then the *Public Works Director/City Engineer*, or his/her designee(s), may seek issuance of a search warrant from any court of competent jurisdiction in addition to issuing a compliance order, seeking an injunction and assessing appropriate civil or criminal penalties.

XX.XX.0120 Maintenance and Transfer of Properties Subject to BMP and LID Maintenance Requirements

The transfer, sale, deed, or lease of a parcel, which is subject to a requirement for maintenance of structural and treatment control BMPs and LID features shall include conditions requiring and assigning the transferee, and its successors, to:

(a) Assume responsibility for maintenance and operation of any existing structural or treatment control BMP and LID feature to at least the MEP standard.

(b) Replace any degraded structural or treatment control BMP or LID feature with new control measures, BMPs, or LID features meeting, the then current, standards of the *City/County/Town*.

(c) Conduct BMP and LID maintenance and inspections as required in the approved Water Quality Management Plan.

(d) Ensure that all structural or treatment control BMPs and LID features are inspected at least yearly and retain proof of such inspections for at least three (3) years.

(e) For conditions, covenants, and restrictions for properties which include structural or treatment control BMPs and LID features that are to be maintained by a homeowner's association, such conditions, covenants, and restrictions shall provide for maintenance of the BMPs and LID features by the association.

(f) BMPs and LID features that are to be maintained by individual property owners shall include a written explanation of the maintenance responsibilities with any deed transferring title to said property, as well as being attached to any property conditions, covenants, and restrictions.

(g) If property, on which structural or treatment control BMPs and LID features are located, is to be dedicated to a governmental agency, the transferor shall remain responsible for the BMPs and LID features until the agency provides a signed assumption of responsibility and conformation that they meet agency design standards.

XX.XX.0130 Authority to Inspect

The authorized enforcement officer shall be authorized, with the consent of the owner/occupant or with a warrant obtained pursuant to Code of Civil Procedure §§ 1822.50 et seq., to enter and inspect the premises of any user of the storm drain system to determine compliance with the provisions of this Code. If such entry is refused or cannot be obtained, the authorized enforcement officer shall have recourse to every remedy provided by law to secure lawful entry and inspection of the premises, including a search warrant obtained pursuant to Code of Civil Procedure §§ 1822.50 et seq. For inspections required

by the Mojave River Watershed Group SWMP and NPDES Permit, the authorized enforcement officer may inspect a property or facility during normal business hours upon twenty-four (24) hours notice to the owner, operator, or person responsible for the day-to-day activities of such property or facility.

Adequate identification shall be provided by the authorized enforcement officer, when entering the premises of any user. If the authorized enforcement officer has reasonable cause to believe that non-stormwater discharge conditions on or emanating from the premises are so hazardous, unsafe, or dangerous as to require immediate inspection to safeguard the public health or safety, the authorized enforcement officer shall have the right to immediately enter and inspect the property, and may use any reasonable means required to effect such entry and make such inspection, whether the property is occupied or unoccupied and whether or not formal permission to inspect has been obtained. Where a user has instituted security measures requiring proper identification and clearance before entry onto the premises, the user shall make all necessary arrangements with its security guards in order that, upon presentation of such identification, duly designated *City/County/Town* personnel shall be permitted to enter the premises without delay for the purpose of performing their authorized duties. For facilities which require special clearances to conduct inspections, it shall be the responsibility of the user to obtain all necessary clearances on behalf of the *City/County/Town* so that *City/County/Town* inspections are not impaired. Such inspections may include:

(a) Investigating the source of any discharge to any public street, inlet, gutter, storm drain or the storm drain system located within the jurisdiction of the *City/County/Town*;

(b) Identifying products produced, processes conducted, chemicals and materials used, stored or maintained on the subject premises;

(c) Identifying points of discharge of all waste water, non-stormwater, processed water systems and pollutants;

(d) Investigating the natural slope of the premises, including drainage patterns and manmade conveyance systems;

(e) Establishing the location of all points of discharge from the premises, whether by surface runoff or through a storm drain system;

(f) Locating any illicit connection or illicit discharge;

(g) Investigating and inspecting a vehicle, truck, trailer, tank truck or other mobile equipment;

(h) Reviewing and inspecting all records of the owner or occupant of public or private property relating to chemicals or processes presently or previously stored or occurring on the property, including material and/or chemical inventories, facilities maps or schematics and diagrams, material safety data sheets, hazardous waste manifests, business plans, pollution prevention plans, NPDES General Permits, Storm Water Pollution Prevention Plans, monitoring program plans, and any and all records relating to illicit connections, illicit discharges, or any other source of contribution or potential contribution of pollutants to the storm drain system;

(i) Inspecting, sampling, and testing any area runoff, soils area (including groundwater testing), process discharge, materials within any waste storage area (including any container contents), and/or treatment system discharges for the purpose of determining the potential for contributions of pollutants to the storm drain system;

(j) Inspecting the integrity of all storm drain and sanitary sewer systems, any connections to other pipelines on the property using appropriate tests, including but not limited to smoke and dye tests or video surveys. Take photographs or videotapes, and making measurements, drawings or any other records reasonably necessary to document conditions as they exist on the premises;

(k) Installing and maintaining monitoring systems for the purpose of measuring any discharge or potential source of discharge to the storm drain system;

(l) Review any records, reports, test results or other information required to enforce the provisions of this Code. Such review may include the necessity to photograph, videotape, or copy any applicable information; and

(m) Evaluating compliance with this Code and/or the Clean Water Act and applicable state law, and all regulations thereto.

XX.XX.0140 Falsifying Information

Any person who knowingly makes any false statement, representation, record, report, plan, or other document filed with the *City/County/Town* or who falsifies, tampers with, or knowingly renders inaccurate monitoring devices or methods required under this Code, shall have violated this Code.

XX.XX.0150 Administrative Remedies

(a) Notice of Noncompliance. Whenever the authorized enforcement officer finds that any user has violated or is violating any provision of this Code or *City/County/Town* permit, the authorized enforcement officer may deliver to the owner or occupant of any property, or to any person responsible for an illicit connection or prohibited discharge a notice of noncompliance. The notice of noncompliance shall be delivered in accordance with *Section XX.XX.0150(f)*.

(1) The notice of noncompliance shall identify the provisions of this Code that have been violated. The notice of noncompliance shall state that continued noncompliance may result in additional enforcement actions against the owner, occupant and/or person.

(2) The notice of noncompliance shall state a compliance date that must be met by the owner, occupant and/or person; provided, however, that the compliance date may not exceed ninety (90) days unless the authorized enforcement officer extends the compliance deadline an additional reasonable period of time, under the circumstances, where good cause exists for the extension.

(b) Administrative Compliance Orders.

(1) The authorized enforcement officer may issue an administrative compliance order. The administrative compliance order shall be delivered in accordance

with *Section XX.XX.0150(f)*. The administrative compliance order may be issued to:

a. The owner or occupant of any property requiring abatement of conditions on the property that cause or may cause a prohibited discharge or an illicit connection in violation of this Code;

b. The owner of property subject to the terms, conditions or requirements imposed on a project in accordance with *Section XX.XX.0090* to ensure adherence to those terms, conditions and requirements;

c. A permittee subject to the requirements of any permit issued to ensure compliance with the terms, conditions and requirements of the permit; and

d. Any person responsible for an illicit connection or prohibited discharge.

(2) The administrative compliance order may include the following terms and requirements:

a. Specific steps and time schedules for compliance as reasonably necessary to eliminate an existing prohibited discharge or to prevent the imminent threat of a prohibited discharge, including but not limited to a prohibited discharge from any pond, pit, well, surface impoundment, holding or storage area;

b. Specific steps and time schedules for compliance as reasonably necessary to discontinue any illicit connection;

c. Specific requirements for containment, cleanup, removal, storage, installation of overhead covering, or proper disposal of any pollutant having the potential to contact stormwater runoff;

d. Any other terms or requirements reasonably calculated to prevent the imminent threat of or continuing violations of this Code, including, but not limited to requirements for compliance with BMP guidance documents promulgated by any federal, state, or regional agency; and

e. Any other terms or requirements reasonably calculated to achieve full compliance with the terms, conditions and requirements of any permit issued pursuant hereto.

(c) Stop Work Orders. The authorized enforcement officer may serve a written stop work order on any person engaged in doing or causing to be done new construction, tenant improvements, alterations or additions, if:

(1) A *City/County/Town* permit is required and no permit has been granted by the *City/County/Town*;

(2) Work has begun without necessary prior written approval by the authorized enforcement officer; or

(3) Violations of this Code are found at the site of the new construction, tenant improvements, alterations or additions. Any person served a stop work order shall stop such work forthwith until written authorization to continue is received from the authorized enforcement officer.

(d) Cease and Desist Orders.

(1) The authorized enforcement officer may issue a cease and desist order. A cease and desist order shall be delivered in accordance with *Section XX.XX.0150(f)*. A cease and desist order may direct the owner or occupant of any property and/or any other person responsible for a violation of this Code to:

a. Immediately discontinue any illicit connection or prohibited discharge to the storm drain system;

b. Immediately contain or divert any flow of water off the property, where the flow is occurring in violation of any provision of this Code;

c. Immediately discontinue any other violation of this Code;

d. Immediately clean up all areas affected by the violation.

(2) The authorized enforcement officer may direct by cease and desist order that (1) the owner of any property which property is subject to any conditions or requirements issued pursuant to *Section XX.XX.0090*; or (2) any occupant of

any property or any other person responsible for a violation of this Code: immediately cease any activity not in compliance with the conditions or requirements issued pursuant to *Section XX.XX.0090*, or the terms, conditions and requirements of the applicable permit.

(e) Recovery of Costs. The authorized enforcement officer may deliver to the owner or occupant of any property, any permittee or any other person who becomes subject to a notice of noncompliance or administrative order, an invoice for costs. An invoice for costs shall be delivered in accordance with *Section XX.XX.0150(f)*. An invoice for costs shall be immediately due and payable to the *City/County/Town* for the actual costs incurred by the *City/County/Town* in issuing and enforcing any notice or order. If any owner or occupant, permittee or any other person subject to an invoice for costs fails to either pay the invoice for costs or successfully appeal the invoice for costs in accordance with *Section XX.XX.0150(g)*, then the *City/County/Town Attorney/Counsel* may institute collection proceedings.

(f) Delivery of Notice. Any notice of noncompliance, administrative compliance order, stop work order, cease and desist order or invoice of costs to be delivered pursuant to the requirements of this Code shall be subject to the following:

(1) The notice shall state that the recipient has a right to appeal the matter as set forth in *Sections XX.XX.0150(g-l)* of this Code;

(2) Delivery shall be deemed complete upon (a) personal service to the recipient; (b) deposit in the U.S. mail, postage pre-paid for first class delivery; or (c) facsimile service with confirmation of receipt;

(3) Where the recipient of notice is the owner of the property, the address for notice shall be the address from the most recently issued equalized assessment roll for the property or as otherwise appears in the current records of the *City/County/Town*;

(4) Where the owner or occupant of any property cannot be located after the reasonable efforts of the authorized enforcement officer, a notice of

noncompliance, stop work order, or cease and desist order shall be deemed delivered after posting on the property for a period of ten (10) business days.

(g) Administrative Hearing for Notices of Noncompliance, Administrative Compliance Orders, Invoices for Costs and Adverse Determinations. Except as set forth in *Section XX.XX.0150(i)*, any person receiving a notice of noncompliance, administrative compliance order, an invoice for costs, or any person who is subject to any adverse determination made pursuant to this Code, may appeal the matter by requesting an administrative hearing. Notwithstanding the foregoing, these administrative appeal procedures shall not apply to criminal proceedings initiated to enforce this Code.

(h) Request for Administrative Hearing. Any person appealing a notice of noncompliance, an administrative compliance order, an invoice for costs or an adverse determination shall, within thirty (30) days of receipt thereof; file a written request for an administrative hearing, accompanied by an administrative hearing fee as established by separate resolution, with the *City/County/Town Clerk*, with a copy of the request for administrative hearing mailed on the date of filing to the *City/County/Town Chief Administrative Officer/Manager*. Thereafter, a hearing on the matter shall be held before the Hearing Officer within forty-five (45) business days of the date of filing of the written request unless, in the reasonable discretion of the Hearing Officer and pursuant to a written request by the appealing party, a continuance of the hearing is granted.

(i) Administrative Hearing for Stop Work Orders, Cease and Desist Orders, and Emergency Abatement Actions. An administrative hearing on the issuance of a stop work order, cease and desist order or following an emergency abatement action shall be held within five (5) business days following the issuance of the order or the action of abatement, unless the hearing (or the time requirement for the hearing) is waived in writing by the party subject to the stop work order, cease and desist order or the emergency abatement. A request for an administrative hearing shall not be required

from the person subject to the stop work order, cease and desist order or the emergency abatement action.

(j) Hearing Proceedings. The authorized enforcement officer shall appear in support of the notice, order, determination, invoice for costs or emergency abatement action, and the appealing party shall appear in support of withdrawal of the notice, order, determination, invoice for costs, or in opposition to the emergency abatement action. Except as set forth in this Code regarding the burden of establishing that a discharge was within the definition of a non-prohibited discharge, the user shall show cause before the Hearing Officer why the proposed enforcement action should not be taken.. Each party shall have the right to present testimony and other documentary evidence as necessary for explanation of the case.

(k) Final Decision and Appeal. The final decision of the Hearing Officer shall be issued within ten (10) business days of the conclusion of the hearing and shall be delivered by first-class mail, postage prepaid, to the appealing party. The final decision shall include notice that any legal challenge to the final decision shall be made pursuant to the provisions of Code of Civil Procedure §§ 1094.5 and 1094.6 and shall be commenced within ninety (90) days following issuance of the final decision. The administrative hearing fee paid by a prevailing party in an appeal shall be refunded. Notwithstanding this section the final decision of the Hearing Officer in any preceding determining the validity of a stop work order, cease and desist order or following an emergency abatement action shall be mailed within five (5) business days following the conclusion of the hearing.

(l) Appeal. Any decision of the authorized enforcement officer or the administrative hearing officer may be appealed to the *City/County/Town Council/Board of Supervisors* by giving notice to the authorized enforcement officer within ten (10) days of receipt of said decision. The *City/County/Town Council/Board of Supervisors* may, at its discretion, appoint a *City/County/Town* hearing officer to conduct the hearing.

(m) *City/County/Town* Abatement. In the event the owner of the property, the operator of a facility, a permittee, or any other person fails to comply with any provision of a compliance schedule issued pursuant to this Code, the authorized enforcement officer may request the *City/County/Town Attorney/Counsel* to obtain an abatement warrant or other appropriate judicial authorization to enter the property, abate the condition and restore the area. Any costs incurred by the *City/County/Town* in obtaining and carrying out an abatement warrant or other judicial authorization may be recovered pursuant to *Section XX.XX.0150(e)*.

XX.XX.0160 Nuisance

(a) Any condition in violation of the prohibitions of this Code, including but not limited to the maintenance or use of any illicit connection or the occurrence of any prohibited discharge, shall constitute a threat to the public health, safety and welfare, and is declared and deemed a nuisance pursuant to Government Code § 38771.

(1) Court Order to Enjoin or Abatement. At the request of the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), the *City/County/Town Attorney/Counsel* may seek a court order to enjoin and/or abate the nuisance.

(2) Notice to Owner and Occupant. Prior to seeking any court order to enjoin or abate a nuisance or threatened nuisance, the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), shall provide notice of the proposed injunction or abatement to the owner and occupant, if any, of the property where the nuisance or threatened nuisance is occurring.

(3) Emergency Abatement. In the event the nuisance constitutes an imminent danger to public safety or the environment, the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), may enter the property from which the nuisance emanates, abate the nuisance and restore any property affected by the nuisance. To the extent reasonably practicable, informal notice shall be provided to the owner or occupant prior to abatement.

If necessary to protect the public safety or the environment, abatement may proceed without prior notice to or consent from the owner or occupant thereof and without judicial warrant.

a. An imminent danger shall include, but is not limited to, exigent circumstances created by the dispersal of pollutants, where the same presents a significant and immediate threat to the public safety or the environment.

b. Notwithstanding the authority of the *City/County/Town* to conduct an emergency abatement action, an administrative hearing pursuant to *Section XX.XX.0150 (j)* hereinabove shall follow the abatement action.

(4) Reimbursement of Costs. All costs incurred by the *City/County/Town* in responding to any nuisance, all administrative expenses and all other expenses recoverable under state law, including reasonable consulting fees and attorneys fees, shall be recoverable from the person(s) creating, causing, committing, permitting or maintaining the nuisance.

(5) Nuisance Lien. All costs shall become a lien against the property from which the nuisance emanated and a personal obligation against the owner thereof in accordance with Government Code § 38773.1 and § 38773.5. The owner of record of the property subject to any lien shall be given notice of the lien prior to recording as required by Government Code § 38773.1.

a. At the direction of the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), the *City/County/Town Attorney/Counsel* is authorized to collect nuisance abatement costs or enforce a nuisance lien in an action brought for a money judgment or by delivery to the San Bernardino County Office of the Assessor of a special assessment against the property in accord with the conditions and requirements of Government Code § 38773.5.

XX.XX.0170 Civil Penalties

The user may be fined a sum not to exceed $____ for each offense. Each violation shall be considered a separate and distinct offense, and each day on which a violation shall occur or continue shall be deemed a separate and distinct offense. In addition to the penalties provided in this Code, the *City/County/Town* may recover all reasonable attorney's fees, court costs, court reporters fee and other expenses of litigation against the person found to have violated this Code, NPDES Permit, *City/County/Town* permit, or the orders, rules, regulations and permits issued under this Code.

XX.XX.0180 Criminal Penalties

(a) Prosecutor. The *City/County/Town Attorney/Counsel* may act on the request of the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), to pursue enforcement actions in accordance with the provisions of this Code.

(b) Infractions. Any person who willfully violates any provision of this Code or any permit condition; who knowingly violates any stop work order, cease and desist order, termination or immediate termination order, prohibition or effluent limitation; who knowingly makes false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to this Code or NPDES Permit; or who falsifies, tampers with or knowingly causes inaccuracy in any monitoring device or method required or authorized under this Code shall be guilty of an infraction or misdemeanor as hereinafter specified.

(1) Each day or portion thereof such violation is in existence shall be a new and separate offense.

(2) Any person so convicted shall be:

a. Guilty of an infraction offense and punished by a fine not exceeding $____ and not less than $____ for a first offense;

b. Guilty of an infraction offense and punished by a fine not exceeding $____ and not less than $____ for a second offense.

c. Guilty of a misdemeanor for the third and any additional offenses and punished by a fine not exceeding $____ and not less than $____ or ___ months in jail, or both.

(c) Misdemeanors. Notwithstanding the above, a first or second offense may be charged and prosecuted as a misdemeanor. Any person who negligently or knowingly violates any provision of this Code, undertakes to conceal any violation of this Code, continues any violation of this Code after notice thereof; or violates the terms, conditions and requirements of any permit issued pursuant to this ordinance, shall be guilty of a misdemeanor punishable by a fine of not more than _____ dollars or by imprisonment for a period of not more than _____ months, or both.

(d) Payment of any fine or service of a jail sentence shall not relieve a person, firm, partnership, corporation or other entity from the responsibility of correcting the condition resulting from the violation.

XX.XX.0190 Nonexclusive remedies

Each and every remedy available for the enforcement of this Code shall be nonexclusive and it is within the discretion of the authorized enforcement officer or enforcing attorney to seek cumulative remedies, except that multiple monetary fines or penalties shall not be available for any single violation of this Code.

XX.XX.0200 Compensation for Damages

Any person, entity, or user who, by violation of this Code, causes any damage to the storm drain system, including the imposition of fines or penalties on the *City/County/Town* by federal, state or local regulatory agencies, shall be liable to the *City/County/Town* for all such damages, costs, fines, and penalties incurred by the *City/County/Town*.

XX.XX.0210 Citations

(a) Pursuant to Penal Code § 836.5, the authorized enforcement officer shall have the authority to cause the arrest of any person committing a violation of this Code. The

person shall be released and issued a citation to appear before a magistrate in accordance with Penal Code § 853.5, § 853.6, and § 853.9, unless the person demands to be taken before a magistrate. Following issuance of any citation the authorized enforcement officer shall refer the matter to the *City/County/Town Attorney/Counsel*.

(b) Each citation to appear shall state the name and address of the violator, the provisions of this Code violated, and the time and place of appearance before the court, which shall be at least ten (10) business days after the date of violation. The person cited shall sign the citation giving his or her written promise to appear as stated therein. If the person cited fails to appear, the *City/County/Town Attorney/Counsel* may request issuance of a warrant for the arrest of the person cited.

XX.XX.0220 Violations of Other Laws

Any person acting in violation of this Code also may be acting in violation of the Federal Clean Water Act or the State Porter-Cologne Water Quality Control Act and other laws and also may be subject to sanctions including civil liability. Accordingly, the *City/County/Town Attorney/Counsel* is authorized to file a citizen suit pursuant to the Federal Clean Water Act (Title 33 U.S.C. §1365(a)), seeking penalties, damages, and orders compelling compliance, and other appropriate relief. The *City/County/Town Attorney/Counsel* may notify EPA, the Regional Water Quality Control Board, Lahontan Region, or any other appropriate state, regional or local agency, of any alleged violation of this Code.

XX.XX.0230 Injunctions

At the request of the *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), the *City/County/Town Attorney/Counsel* may cause the filing in a court of competent jurisdiction, of a civil action seeking an injunction against any threatened or continuing noncompliance with the provisions of this Code. Order for reimbursement: Any temporary, preliminary or permanent injunction issued pursuant hereto may include an order

for reimbursement to the *City/County/Town* of all costs incurred in enforcing this Code, including costs of inspection, investigation and monitoring, the costs of abatement undertaken at the expense of the *City/County/Town*, legal expense, including litigation costs and consulting costs and attorney fees, and costs relating to restoration of the environment and all other expenses as authorized by law.

XX.XX.0240 Other Civil Remedies

(a) The *City/County/Town Chief Administrative Officer/Manager*, or his/her designee(s), may cause the *City/County/Town Attorney/Counsel* to file an action for civil damages in a court of competent jurisdiction seeking recovery of (i) all costs incurred in enforcement of the Code, including but not limited to costs relating to investigation, sampling, monitoring, inspection, administrative expenses, legal expenses, including litigation costs, consulting costs and attorney fees all other expenses as authorized by law, and consequential damages, (ii) all costs incurred in mitigating harm to the environment or reducing the threat to human health, and (iii) damages for irreparable harm to the environment.

(b) The *City/County/Town Attorney/Counsel* is authorized to file actions for civil damages resulting from any trespass or nuisance occurring on public land or to the storm drain system from any violation of this Code where the same has caused damage, contamination or harm to the environment, public property or the storm drain system.

(c) The remedies available to the *City/County/Town* pursuant to the provisions of this Code shall not limit the right of the *City/County/Town* to seek any other remedy that may be available by law.

XX.XX.0250 Permit Suspension, Revocation or Modification

(a) The *City/County/Town Public Works Director/City Engineer*, or his/her designee(s), may suspend or revoke any permit when it is determined that:

(1) The permittee has violated any term, condition or requirement of the permit or any applicable provision of this Code; or

(2) The permittee's discharge or the circumstances under which the discharge occurs have changed so that it is no longer appropriate to except the discharge from the prohibitions on prohibited discharge contained within this Code; or

(3) The permittee fails to comply with any schedule for compliance issued pursuant to this Code; or

(4) Any regulatory agency, including the EPA or State Water Resources Control Board or a Regional Water Quality Control Board having jurisdiction over the discharge, notifies the *City/County/Town* that the discharge should be terminated.

(b) The *City/County/Town Public Works Director/City Engineer*, or his/her designee(s), may modify any permit when it is determined that:

(1) Federal or state law requirements have changed in a manner that necessitates a change in the permit, or

(2) The permittee's discharge or the circumstances under which the discharge occurs have changed so that it is appropriate to modify the permit's terms, conditions or requirements, or

(3) A change to the permit is necessary to ensure compliance with the objectives of this Code or to protect the quality of receiving waters. The permittee shall be informed of any change in the permit terms and conditions at least sixty (60) days prior to the effective date of the modified permit.

(c) The determination that a permit shall be denied, suspended, revoked or modified may be appealed by a permittee pursuant to the same procedures applicable to appeal of an administrative compliance order hereunder. In the absence of a judicial order to the contrary, the permittee may continue to discharge pending issuance of the final decision by the Hearing Officer.

XX.XX.0260 Penalties

Any violation of the terms, conditions and requirements of any permit issued by the *City/County/Town* shall constitute a violation of this Code and subject the violator to the administrative, civil and criminal remedies available under this Code.

APPENDIX D

Meeting Sign-In Sheets

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** July 24, 2008
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
John Leveillee	City of Hesperia
Viola Cooper	US EPA cooper.viola@epa.gov
Douglas Feay	Water Board
Dan Ilkay	County of San Bern.
Helen Wilson	City of Victorville
Mark Abbott	Town of Apple Valley

Mojave River Watershed Group - Sign-In Sheet

Committee Meeting	**Meeting Date:** August 28, 2008
Facilitator Dan Ilkay	**Place/Room:** City of Hesperia

Name	Agency
Dan Ilkay	SB County
Jason Pereira	California Watershed Engineering
Tom Thornton	City of Hesperia
HELEN WILSON	CITY OF VICTORVILLE
MARK ABBOTT	TOWN OF APPLE VALLEY

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** 9/25/08
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	County of SB
Tom Thornton	City of Hesperia
Patrice Copeland	Lahontan RWQCB
HELEN Wilson	City of Victorville
Joe Flores	COVV
James Neilson	Town of Apple Valley

Mojave River Watershed Group - Sign-In Sheet

Committee Meeting	**Meeting Date:** October 23, 2008
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	SB County
Tom Thornton	Hesperia
Doug Feay P.G.	STATE WATER BOARD (Region 6)
STEPHEN GRONER	S. GRONER ASSOCIATES
Michael Hemrick	Mojave Foundation
Tina Souza	Hesperia
MARK ABBOTT	APPLE VALLEY
JAMES NEIGHBOR	APPLE VALLEY
HELEN WILSON	City of Victorville

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** December 4, 2008
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
JAMES NEILSON	APPLE VALLEY
TOM THORNTON	HESPERIA
DOUGLAS E. FREALY	STATE OF CALIFORNIA
HELEN WILSON	CITY OF Victorville
Tina Souza	City of Hesperia
Dan Ilkay	County of SB

Mojave River Watershed Group - Sign-In Sheet

Committee Meeting	**Meeting Date:** 1/22/09
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	Co. of SB
Helen Wilson	City of Victorville
Tina Souza	City of Hesperia
Thomas Thornton	City of Hesperia
Mark Abbott	Apple Valley
Stiphen Cromer	SGA Inc.

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** February 26, 2009
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	County of San Bernardino
Jason Pereira	California Watershed Engineering
THOMAS THORNTON	Hesperia
DOUGLAS FEALY	STATE WATER BOARD
Tina Souza	Hesperia
HELEN WILSON	City of Victorville
RALPH FITZSIMMONS	City of Victorville
Shellie Zias-Roe	County of San Bernardino

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** March 26, 2009
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	San Bernardino County
Tom Thornton	City of Hesperia
HELEN WILSON	City of Victorville
Tina Souza	City of Hesperia
MARK ABBOTT	TOWN OF APPLE VALLEY
JAMES NELSON	"

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** 4/29/09
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Dan Ilkay	SB County
HELEN WILSON	City of Victorville
Stephen Groner	SGA
Tom Thornton	City of Hesperia
Tina Souza	City of Hesperia
+ Douglas Feay	State of California
James Nielson	Town of Apple Valley

Mojave River Watershed Group - Sign-In Sheet	
Committee Meeting	**Meeting Date:** 5/28/09
Facilitator Dan Ilkay	**Place/Room:** Hesperia/Joshua

Name	Agency
Patrice Copeland	Lahontan RWQCB
Douglas E. Feay	Lahontan RWQCB
Tina Souza	Hesperia
Mark Abbott	Town of Apple Valley
Helen Wilson	City of Victorville
Dan Ilkay	County of SB
Thomas Thornton	City of Hesperia

Mojave River Watershed Group

Committee Meeting

Town of Apple Valley, City of Victorville, City of Hesperia
and the County of San Bernardino

Date/Time: June 25, 2009, 2 p.m.

Place: City of Hesperia, Civic Center, Joshua Room
9700 Seventh Avenue, Hesperia

ATTENDANCE SHEET

NAME	AGENCY	CONTACT NUMBER	SIGNATURE
JEFF ENDICOTT	AEI-CASC CONSULTING	909.783.0101 X5380	
TOM THORNTON	HESPERIA	760.947.1014	
EDUARD VARGA	S.B. COUNTY	(909) 387-8132	
ELIAS M. SEVERO	S.B. County	(909) 387-8103	
JAMES NEILSON	TOWN OF APPLE VALLEY	760.250.4125	
~~ED~~ HELEN WILSON	City of Victorville	760-955-5158	
DOUGLAS E. FEAY	State of CA	760-241-7353	

APPENDIX E

Training Certificates and Sign-In Sheets

Certified Professional in Erosion and Sediment Control Training

This workshop will prepare you to take the CPESC exam

Pre-qualification is necessary in order to take the CPESC exam

Workshop participants are encouraged to visit:

www.cpesc.org

November 5, 2008
7:30 am to 5 pm

Classroom and Field Training

Workshop Location
825 E. Third Street, Hearing Room
San Bernardino, California
To register
Call Elias Severo @ 909.387.8103

Session 1: CPESC Training, *7:30 am – 12 noon*
Session 2: BMP Field Training, *12 noon – 5 pm*
Lunch will be provided

Please Print Clearly!
This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control**
Session 1

Instructors: Mike Harding

Date: 11/5/2008 **Time:** 7:30 am -12:00 pm
Location: 825 E. Third Street, Hearing Room
San Bernardino, CA 92415

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
1	Neilson	James		Town of Apple Valley	760) 240-7000	10/2/2008	Ses. 1
2	Cylwik	Joseph		City of Big Bear Lake	(909) 866-5831	9/17/2008	Ses. 1
3	Plasencia	Jesus		City of Chino	(909) 591-9850	9/4/2008	Ses. 1
4	Garrety	Tad		City of Chino Hills	(909) 364-2722	9/17/2008	Ses. 1
5	Torres	Reggie		City of Colton	(909) 514-4209	9/25/2008	Ses. 1
6	Abeto	Jude		City of Colton	(909) 514-4209	9/25/2008	Ses. 1
7	Thorton	Tom		City of Hesperia	(760) 947-1014	9/10/2008	Ses. 1
8	Otjen	Keith		City of Hesperia	(760) 947-1014	9/10/2008	Ses. 1
9	Esparza	Tony		City of Loma Linda	(909) 799-4405	8/26/2008	Ses. 1
10	Rosales	Joe		City of Montclair	(909) 625-9470	8/26/2008	Ses. 1
11	Roberts	Mike		City of Montclair	(909) 625-9470	8/26/2008	Ses. 1
12	Wilson	Steve		City of Ontario	(909) 395-2389	9/19/2008	Ses. 1
13	Hedman	Anabella		City of Ontario	(909) 395-2389	9/19/2008	Ses. 1
14	Elliot	Yvonne		City of Ontario	(909) 395-2143	9/22/2008	Ses. 1
15	Rapp	Scott		City of Rancho Cucamonga	(909) 477-2740	9/9/2008	Ses. 1
16	Carver	Julie		City of Rialto	(909) 421-7210	8/27/2008	Ses. 1
17	Gibbon	Jarrod		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 1
18	Gapuzan	Steve		City of Upland	(909) ~~514-4209~~ 291-2470	10/2/2008	Ses. 1
19	Wilson	Helen		City of Victorville	(760) 955-5161	9/9/2008	Ses. 1
20	Yeager	Matt		S.B.CO. Public Works/EMD	(909) 387-8112	10/3/2008	Ses. 1
21	Ilkay	Dan		S.B.CO. Public Works/EMD	(909) 3878119	10/032008	Ses. 1
22	Lam	Hoa		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
23	Basta	Sameh		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
24	Dillon	Jonathan		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
25	Pham	Anthony		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
26	Roser	Mike		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
27	Ruvalcaba	Eloy		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
28	Bradley	Jinghui		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1
29	Kim	Gia		S.B.CO. Public Works/Land Development	(909) 387-8149	9/19/2008	Ses. 1

~~30 Jeff~~ Beth Hemerling Beth Hemerling
Annesley Township

Please Print Clearly!
This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control**
Session 2

Instructors: Mike Harding

Date: **11/5/2008** **Time:** 12:00 am - 5:00 pm
Location: 825 E. Third Street, Hearing Room
San Bernardino, CA 92415

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
1	Neilson	James		Town of Apple Valley	760) 240-7000	10/2/2008	Ses. 2
2	Cylwik	Joseph		City of Big Bear Lake	(909) 866-5831	9/17/2008	Ses. 2
3	Plasencia	Jesus		City of Chino	(909) 591-9850	9/4/2008	Ses. 2
4	Hernandez	Ron		City of Chino	(909) 591-9850	9/4/2008	Ses. 2
5	Valdez	Ruben		City of Chino	(909) 591-9850	9/4/2008	Ses. 2
6	Cruz	Jorge		City of Chino	(909) 591-9850	9/4/2008	Ses. 2
7	Allinder	Don		City of Chino	(909) 591-9850	9/4/2008	Ses. 2
8	Garrety	Tad		City of Chino Hills	(909) 364-2722	9/17/2008	Ses. 2
9	Torres	Reggie		City of Colton	(909) 514-4209	9/25/2008	Ses. 2
10	Tahir	Sultan		City of Colton	(909) 514-4209	10/2/2008	Ses. 2
11	Abeto	Jude		City of Colton	(909) 514-4209	10/2/2008	Ses. 2
12	Thorton	Tom		City of Hesperia	(760) 947-1014	9/10/2008	Ses. 2
13	Otjen	Keith		City of Hesperia	(760) 947-1014	9/10/2008	Ses. 2
14	Esparza	Anthony		City of Loma Linda	(909) 799-4405	9/22/2008	Ses. 2
15	Esparza	Tony		City of Loma Linda	(909) 799-4405	8/26/2008	Ses. 2
16	Rosales	Joe		City of Montclair	(909) 625-9470	8/26/2008	Ses. 2
17	Roberts	Mike		City of Montclair	(909) 625-9470	10/2/2008	Ses. 2
18	Elliot	Yvonne		City of Ontario	(909) 395-2143	9/22/2008	Ses. 2
19	Wilson	Steve		City of Ontario	(909) 395-2389	9/19/2008	Ses. 2
20	Hedman	Anabella		City of Ontario	(909) 395-2389	9/19/2008	Ses. 2
21	Montgomery	John		City of Ontario	(909) 395-2389	9/19/2008	Ses. 2
22	Rapp	Scott		City of Rancho Cucamonga	(909) 477-2740	9/9/2008	Ses. 2
23	Moore	Mike		City of Rancho Cucamonga	(909) 477-2740	9/9/2008	Ses. 2
24	Carver	Julie		City of Rialto	(909) 421-7210	8/27/2008	Ses. 2
25	Quintero	Jose		City of Rialto	(909) 421-7210	8/27/2008	Ses. 2
26	Gibbon	Jarrod		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
27	Wingson	Henry		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
28	Barron	Kenny		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2

This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control**
Session 2

Instructors: Mike Harding

Date: **11/5/2008** **Time:** 12:00 am - 5:00 pm

Location: 825 E. Third Street, Hearing Rc
San Bernardino, CA 92415

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
29	Zamiski	David		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
30	Hughes	William		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
31	Kalfell	Mark		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
32	Puentes	Donna		City of San Bernardino	(909) 384-5111	9/17/2008	Ses. 2
33	Wilson	Helen		City of Victorville	(760) 955-5161	9/9/2008	Ses. 2
34	Salinas	Bob		City of Victorville	(760) 955-5161	9/9/2008	Ses. 2
35	Callister	Phil		City of Victorville	(760) 955-5161	9/9/2008	Ses. 2
36	Logsdon	Lee		City of Victorville	(760) 955-5161	9/9/2008	Ses. 2
37	Gapuzan	Steve		City of Upland	(909) 291-2970	10/3/2008	Ses. 2
38	Overson	Levi		S.B.CO A & E Dept. / Proj. Dev. Analyst	(909) 387-5149	9/15/2008	Ses. 2
39	Herkelrath	Larry		S.B.CO A & E Dept. / Proj. Dev. Analyst	(909) 387-5149	9/15/2008	Ses. 2
40	Fenn	Bill		S.B.CO A & E Dept. / Proj. Dev. Analyst	(909) 387-5149	9/15/2008	Ses. 2
41	Ilkay	Dan		S.B.CO. Public Works/EMD	(909) 387-8119	10/3/2008	Ses. 2
42	Yeager	Matt		S.B.CO. Public Works/EMD	(909) 387-8112	10/3/2008	Ses. 2
43	Cannon	Jeff		S.B.CO. Public Works/Trans Design	(909) 387-7940	9/4/2008	Ses. 2
44	Avila	John		City of Ontario	909 395 2137	9-5-08	
45	Nam	Nguyen		Water Board, 1288	951-321-4588		
46	Rivera	Mike		SBCO			
47	Ulrich	Brandy		SBCO			
48	Manuel	Gonzales		SBCO			
49	Kloepfer	Brian		S.B CO / Flood OP			

Please Print Clearly!
This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control**
Session 1

Instructors: Mike Harding

Date: 12/4/2008
Location: 825 E. Third Street, Hearing Room
San Bernardino, CA 92415

Time: 7:30 am -12:00 pm

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
1	Dacumos	Nancy		City of Fontana	(909)350-6682	10/16/2008	Ses.1
2	Romero	Sal		City of Fontana	(909) 350-6682	10/16/2008	Ses.1
3	Brown	Larry		City of Highland	(909) 864 8732	10/16/2008	Ses. 1
4	Dwiers	John		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
5	Paradis	Andre		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
6	Randall	Harmon		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
7	Roe	Henry		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
*8	Wallace	David		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
9	Wendler	Ron		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 1
10	Varga	Ed		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 1
11	Severo	Elias		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 1
12	Le	Kenneth		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 1
13	Briseno	Raul		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 1
14	Nguyen	Vu		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 1
15	Kim	Michele		S.B.CO. Public Works/EMD	(909) 387-8114	10/30/2008	Ses. 1
16	Merid	Jim		Huntington Beach	(714) 374-1548	10/31/2008	Ses. 1
17	Gill	Sean		City of Riverside	(951) 826-5892	10/31/2008	Ses. 1
18	Stevens	Bill		City of Yorba Linda/Public Works	(714) 961-7175	11/4/2008	Ses. 1
19	Dear	Steve		City of Yorba Linda/Public Works	(714) 961-7175	11/4/2008	Ses. 1
20	Osterman	Paul		Town of Apple Valley / City of Yucaipa	(760) 240-7000	11/12/2008	Ses. 1
21	Wirz	Matt		City of Grand Terrace	(909) 430-2217	11/12/2008	Ses. 1
22	Handra	Welly		S.B.CO. SWMD	(909) 386-8766	11/12/2008	Ses. 1
23	Rodabaugh	Marc		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 1
24	Miner	Doug		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 1
25	Murphy	Michael		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 1
26	Meeka	Darren		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 1
27	Torres	Diana		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 1
28	Visco	Arnel		S.B.CO. SWMD	(909) 386-8944	11/17/2008	Ses. 1
29	Hedman	Anabella		City of Ontario consultant	(868) 451-6100	11/17/2008	Ses. 1
30	Hartwill	Dwane		City of Redlands	(909) 798-7697	11/19/2008	Ses. 1
	SHORT	MICHAEL		S.B.C.O ~~LUS~~/Bldg & Safety			

MYINT DAVIS

WIRZ ANDREW

SBCO SWMD

Please Print Clearly!

This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control**
Session 2

Instructors: Mike Harding

Date: 12/4/2008 **Time:** 12:00 am - 5:00 pm

Location: 825 E. Third Street, Hearing Room
San Bernardino, CA 92415

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
1	Cruz	Jaime		City of Rialto	(909) 421-7210	10/15/2008	Ses. 2
2	Gonzales	Hank		City of Rialto	(909) 421-7210	10/15/2008	Ses. 2
3	Devlin	Mark		City of Rialto	(909) 421-7210	10/15/2008	Ses. 2
4	Dacumos	Nancy		City of Fontana	(909)350-6682	10/16/2008	Ses.2
5	Romero	Sal		City of Fontana	(909) 350-6682	10/16/2008	Ses.2
6	Vandergoot	Ron		S.B.CO. Public Works/EMD	(909) 387-8118	10/16/2008	Ses. 2
7	Martinez	Manny		S.B.CO. Public Works/EMD	(909) 387-8118	10/16/2008	Ses. 2
8	Brown	Larry		City of Highland	(909) 864-8732	10/16/2008	Ses. 2
9	Oubre	Ken		City of Ontario	(909) 395-2389	10/16/2008	Ses. 2
10	Gonzales	David		City of Ontario	(909) 395-2389	10/16/2008	Ses. 2
11	Hartwill	Dwane		City of Redlands	(909) 798-7697	11/19/2008	Ses. 2
12	Uychocde	Emmanuel		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
13	Calagui	Napoleon		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
14	Escalante	Jon		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
15	Lopez	Oliver		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
16	Brown	Ryan		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
17	Francis	Osama		S.B.CO. Public Works/Contracts	(909) 387-7920	10/16/2008	Ses. 2
18	Dwiers	John		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
19	Paradis	Andre		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
20	Randall	Harmon		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
21	Roe	Henry		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
22	Wallace	David		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
23	Wendler	Ron		S.B.CO. LUS/Building & Safety	(909) 387-4237	10/27/2008	Ses. 2
24	Lewis	Robert		City of Victorville/Public Works	(760) 955-5161	10/28/2008	Ses. 2
25	White	Jim		City of Victorville/Public Works	(760) 955-5161	10/28/2008	Ses. 2
26	Randall	Dave		City of Victorville/Public Works	(760) 955-5161	10/28/2008	Ses. 2
27	Varga	Ed		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 2
28	Severo	Elias		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 2
29	Le	Kenneth		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 2
30	Briseno	Raul		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 2
31	Nguyen	Vu		S.B.CO. Public Works/EMD	(909) 387-8109	10/28/2008	Ses. 2
32	Kim	Michele		S.B.CO. Public Works/EMD	(909) 387-8114	10/30/2008	Ses. 2
	SHORT	MICHAEL					
	MYINT	WIN		SB.CO. SWMP.			

Please Print Clearly!

This list will be used to confirm your attendance.

Class : **Certified Professional in Erosion and Sediment Control** **Date:** 12/4/2008 **Time:** 12:00 am - 5:00 pm

Session 2 **Location:** 825 E. Third Street, Hearing Room

Instructors: Mike Harding San Bernardino, CA 92415

	Name (Please Print Clearly)		Signature	City / Department	Phone	Conf. Date	Note
33	Merid	Jim		Huntington Beach	(714) 374-1548	10/31/2008	Ses. 2
34	Gill	Sean		City of Riverside	(951) 826-5892	10/31/2008	Ses. 2
35	Hendricks	Randy		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
36	Torres	Mark		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
37	Bohlander	Jeff		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
38	Picasso	Carlos		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
39	Zummo	Andy		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
40	Manuel	Jarrad		City of Chino Hills	(909) 364-2722	11/4/2008	Ses. 2
41	Stevens	Bill		City of Yorba Linda/Public Works	(714) 961-7175	11/4/2008	Ses. 2
42	Dear	Steve		City of Yorba Linda/Public Works	(714) 961-7175	11/4/2008	Ses. 2
43	Wirz	Matt		City of Grand Terrace	(909) 430-2217	11/12/2008	Ses. 2
44	Osterman	Paul		Town of Apple Valley / City of Yucaipa	(760) 240-7000	11/12/2008	Ses. 2
45	Handra	Welly		S.B.CO. SWMD	(909) 386-8766	11/12/2008	Ses. 2
46	Rodabaugh	Marc		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
47	Miner	Doug		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
48	Murphy	Michael		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
49	Meeka	Darren		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
50	Torres	Diana		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
51	Visco	Arnel		S.B.CO. SWMD	(909) 386-8944	11/14/2008	Ses. 2
52	Hedman	Anabella		City of Ontario consultant	(868) 451-6100	11/17/2008	Ses. 2
53	Hunter	Phuong		City of Moreno Valley	(951) 413-3470	11/14/2008	Ses. 2
54	Crowley	Berlyn		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
55	Kloepfer	Brian		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses.2
56	Fisher	Michael		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses.2
57	Allman	Lamar		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
58	Grunden	Roger		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
59	Hodge	Mike		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
60	Fristrom	Tyson		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
61	Ballesteros	Jack		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
62	Lemus	Angel		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
63	Stockton	Carey		S.B.CO. Public Works/Field operations	(909) 387-8019		Ses. 2
64							
65	Valdez	Ruben		chino			Ses. 2
66	HERNANDEZ	RON		CHINO			
67	CRUZ	JORGE A		CHINO			

Holloway, Pete	Pete Holloway	San Bernardino
Troncoso, Tony		San Bernardino County
Jones, Brock		" " " Flood
Chavez, Ronnie		SB County Flood zone #2
Morales, Martyn		SD County Flood Zone #2
~~Fisher, Michael~~		
Lucero, Robert	Robert Lucero	DPW operations

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
ZONE 4 ADVISORY COMMITTEE BUDGET HEARING MEETING
RECORD OF ATTENDANCE
Date: April 14, 2009 City of Victorville, Conference Rm. D

COMMITTEE MEMBERS:	Initials	MAYORS/Alternates:	Initials	OTHERS: Name / Organization	Initials
Louis Chavez	LC	City of Adelanto Mayor Charley B. Glasper		City of Hesperia Scott Priester	
Vester B. Lawrence	VBL	Town of Apple Valley ~~Rick Roelle~~ Scott Nassif	(AN)	City of Hesperia Mike Podegracz	
William 'Larry' Kempton	WLK	City of Barstow Joe Gomez		City of Victorville Joe Flores	JF
Guy E. Williams		City of Hesperia Thurston Smith		Gordon Scholt Lewis Center	
		City of Victorville Rudy Cabriales		Mehat Mikhail (SBC) (FCD) Ted Hromadka	
		ED PACK City of Hesperia		Rene Perez	
				Amer Jakhen	AJ

FLOOD CONTROL DISTRICT STAFF:	Initials	BOARD OF SUPERVISORS	Initials	CITY ENGINEERS:	Initials
Melissa Walker	MLW	Brad Mitzelfelt First District Supervisor		City of Adelanto Wilson So	
Kevin Blakeslee		First District Representative		Town of Apple Valley Brad Miller	
Rhonda Neill	RN	Richard Pedersen		City of Barstow Mike Stewart	
Trish Uribe	TU			City of Hesperia John Leveillee	
Harold Zamora	HZ			City of Victorville Sean McGlade	
Jon Smith	JS				

Mike For
Mehat Mikhail

CERTIFICATE OF TRAINING

presented to

James Neilson

Has successfully completed the training course

CPESC BMP Field Workshop

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

Training Sub-committee Chairman

CERTIFICATE OF TRAINING

presented to

James Neilson

To acknowledge completion of the exam preparation course for the

Certified Professional in Erosion and Sediment Control

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

San Bernardino County STORMWATER PROGRAM

Training Sub-committee Chairman

CERTIFICATE OF TRAINING

presented to

Paul Osterman

To acknowledge completion of the exam preparation course for the

Certified Professional in Erosion and Sediment Control

As developed and taught on December 4, 2008 by a certified CPESC instructor

Instructor

Training Sub-committee Chairman

[redacted]

Hello james neilson,

Thank you for attending the PICP Low Impact Development Webinar - No Cost Web seminar on Thursday, March 26, 2009 using WebEx.
If you have comments or questions, please contact your host, Barrett Davis, at:
bdavis@icpi.org

http://www.webex.com
We've got to start meeting like this(TM)

[redacted]

Subject: FW: Thank you for attending the Web seminar: PICP Low Impact Development Webinar - No Cost
Date: Thursday, April 2, 2009 7:33 PM
From: Mark Abbott <markaabbott@hotmail.com>
To: jamesneilson@caaprofessionals.com
Conversation: Thank you for attending the Web seminar: PICP Low Impact Development Webinar - No Cost

---

Date: Thu, 26 Mar 2009 19:01:23 +0000
From: messenger@webex.com
To: markaabbott@hotmail.com
Subject: Thank you for attending the Web seminar: PICP Low Impact Development Webinar - No Cost

Hello Mark Abbott,

Thank you for attending the PICP Low Impact Development Webinar - No Cost Web seminar on Thursday, March 26, 2009 using WebEx.
If you have comments or questions, please contact your host, Barrett Davis, at:
bdavis@icpi.org

http://www.webex.com
We've got to start meeting like this(TM)

CALIFORNIA JOINT POWERS INSURANCE AUTHORITY

Certificate of Completion

Hazardous Waste Operations and Emergency Response - Operations Level / Refresher Certification

This Certifies that

Earl Faust

has completed the workshop entitled Hazardous Waste Operations and Emergency Response - Operations Level / Refresher. This workshop meets the requirements of Title 8 CCR, GISO §5192(q)(6).
Annual refresher is required.
Workshop Length: 8 Hours

Given at Big Bear City, California on Thursday, July 24, 2008

CALIFORNIA
J · P · I · A

Jonathan Shull, Executive Director

CALIFORNIA JOINT POWERS INSURANCE AUTHORITY

Certificate of Completion

Hazardous Waste Operations and Emergency Response - Operations Level / Refresher Certification

This Certifies that

Lance Miller

has completed the workshop entitled Hazardous Waste Operations and Emergency Response - Operations Level / Refresher. This workshop meets the requirements of Title 8 CCR, GISO §5192(q)(6).
Annual refresher is required.
Workshop Length: 8 Hours

Given at Big Bear City, California on Thursday, July 24, 2008

CALIFORNIA
J · P · I · A

Jonathan Shull, Executive Director

CALIFORNIA JOINT POWERS INSURANCE AUTHORITY

Certificate of Completion

Hazardous Waste Operations and Emergency Response - Operations Level / Refresher Certification

This Certifies that

Jim Strickland

has completed the workshop entitled Hazardous Waste Operations and Emergency Response - Operations Level / Refresher. This workshop meets the requirements of Title 8 CCR, GISO §5192(q)(6).
Annual refresher is required.
Workshop Length: 8 Hours

Given at Big Bear City, California on Thursday, July 24, 2008

CALIFORNIA
J · P · I · A

Jonathan Shull, Executive Director

City of Victorville
Public Works Department
Safety Meeting - Sign-In Sheet

Date: Thursday, October 30, 2008
Meeting led by: Mike Boock

HAPPY HALLOWEEN

Items covered at meeting: Facility Storm Water BMP's - Recent (11 min. Video)
Trench Accident in Hesperia — Recycling - Materials Recycling
Facility Operations & open House - Time change over weekend

EMPLOYEE	SIGNATURE
Abrego, Rudy	
Acevado, Felix	
Alcala, Jose	Traffic Control
Allen, Christopher	
Alvarado, Sammy	Traffic Control
Arellanes, Joshua	
Armstrong, Dana	
Barajas, Guillermo	Traffic Control
Bates, Jamie	Traffic Control
Becerra, Elizabeth	
Berryhill, Jimmy	
Bevans, Vedencio	
Blakeley, James	
Boock, Michael	
Bracelly, Robby	
Bryan, Mark	
Burgen, Robert	Traffic Signals
Carmody, Stacy	
Castellanos, Maribel	
Cathcart, Michael	

Colver, Tony	
Contreras, Art	
Costello, Joe	
Crego, Michael	
Cruz, Alex	
Cruz, Sergio, Jr.	
Cryderman, John	
Davis, Nancy	
Dolney, Stephen	
Dubasik, John	
Economou, George	
Emberson, Clayton	
Ewing, Larry	
Felix, Danny	Traffic Control
Fitzpatrick, Joseph	
Flores, Joe	
Foster, Justin	
Fraley, James	
Garcia, Ernie	
Garcia, John	
Garcia, Vince	
Gerbitz, Pam	
Gomez, Bobby	
Gonzalez, Norman	
Guerrero, Daniel	

Hernandez, Abraham	
Hernandez, James	
Hill, Billy	
Hill, Don	
Holguin, Hilario	
Jakher, Amer	
Jenkins, Tim	
Jenks, Mike	
Jones, Boni	
June, Scott	
Kale, Sparky	
Kelsey, Robert	Traffic Control
Lackey, Sherri	
Lamphier, Richard	
Lawson, Chris	Traffic Control
Leggett, Caliph	
Lopez, Alfonso	
Lopez, Harry	
Lopez, Steve	
Machorro, Rosemary	
Manriquez, Robert	
Martinez, Basilio	
Martinez, Oscar	Traffic Signals
Massey, Dennis	
Mayo, Patrick	
McKinley, Jesse	

Medina, Joey	
Meis, Carrie	
Millender, Joe	
Montes, Joshua	
Montes, Osbaldo	
Morales, Fernando	
Morales, Tom	
Moreno, Vince	
Newell, Albert	
Nichols, Madonna	
O-Harper, Marquita	
Olvera, Francisco	Traffic Control
Ontiveros, Sophia	
Oros, Danny	
Pizzo, Tony	
Punzo, Jesus	
Ratliff, Rosalinda	
Robinson, Juan	Traffic Signals
Rodriquez, Louie	
Roybal, Manny	Traffic Control
Russo, Vince	Traffic Control
Schneider, Brian	
Shirley, Leeroy	Traffic Control
Smith, Arnold	
Soper, Barbara	
Sorensen, Rod	

SIGN-IN SHEET

MUNICIPAL STORMWATER POLUTION PREVENTION TRAINING

LOCATION: Apple Valley. YARD

DATE: 6/9/09

NAME	ORGANIZATION / DEPT.	SIGNATURE
PAUL BARAGONA	Dep. Public Works	
Shane Gorman	Dept Public Works-	
Howard Bowers	Dep. Public works	
James Surritt	Dep. Public Works	
Kyle Riley	Dep. Public Works	
Ophillo Cardoza	Dep. Public Works	
J. KEVIN ADDISON	DEPT of PUBLIC WORKS	
ERNIE ARLOTTI	DPW	
TONY PEREZ	DPW (YARD 516)	
Craig Sherman	Dept of Public Work(s)	
Joseph Bonetpels	DPW Trans	

County of San Bernardino
Public and Support Services Group
DEPARTMENT OF PUBLIC WORKS

CRAIG SHERMAN
Public Works Operations Supervisor

(760)247-8208
Fax (760)247-7379

11923 Joshua Road
Apple Valley, CA 92307
csherman@dpw.sbcounty.gov

Public Services and Support Group
DEPARTMENT OF PUBLIC WORKS

JOSEPH BONETPELS
Maintenance & Construction Supervisor II
Apple Valley Maintenance Yard

jbonetpels@dpw.sbcounty.gov

(760) 247-8208
Cell (760) 963-0834
Fax (760) 247-7379

11923 Joshua Rd.
Apple Valley, CA 92307

SIGN-IN SHEET

MUNICIPAL STORMWATER POLUTION PREVENTION TRAINING

LOCATION: Blue Jay Yard **DATE:** 6/10/09

NAME	ORGANIZATION / DEPT.	SIGNATURE
ERIK HOLMES	ROADS	
JOHN DE CADENA	ROADS	John DeCadena
Andy Watts	ROADS.	Andy Watts

County of San Bernardino
Public and Support Services Group
DEPARTMENT OF PUBLIC WORKS

ISAIAS GOMEZ
Public Works Operations Supervisor

(909) 336-7509
Fax (909) 336-7480

26830 Street Hwy 189 PO Box 791
Blue Jay, CA 92371
igomez@dpw.sbcounty.gov

Economic Development/Public Services Group
DEPARTMENT OF PUBLIC WORKS
COUNTY SURVEYOR

ANDREW WATTS
Maintenance & Construction Supervisor II
Blue Jay Maintenance Yard

awatts@dpw.sbcounty.gov

(909) 336-7509
Fax (909) 336-7480

26830 St. Hwy. 189, P.O. Box 791
Blue Jay, CA 92317

SIGN-IN SHEET

MUNICIPAL STORMWATER POLUTION PREVENTION TRAINING

LOCATION: BARDY MESA **DATE:** 6/11/09

NAME	ORGANIZATION / DEPT.	SIGNATURE
Edmond T Rebhan	Transportation	Edmond T Rebhan
Edward JASSO JR	TRANS	
Frank Opice	Trans	
DAVID Christoplt	Trans.	
Larry Jewett	Transportation	Larry Jewett
Anthony FREEMAN	TRANS	
Roy MONTRY	TRANS	
BILL LITTLE	Trans	
A George Pallas	FCD Zone 4&6	

County of San Bernardino
Public and Support Services Group
DEPARTMENT OF PUBLIC WORKS

ROY MONTRY
Public Works Operations Supervisor

(760) 949-0335
Fax (760) 949-0659

12397 Sycamore Street
Victorville, CA 92392
Rmontry@dpw.sbcounty.gov

County of San Bernardino
Public and Support Services Group
DEPARTMENT OF PUBLIC WORKS

FRANK OPICE
Maintenance & Construction Supervisor II

(760)949-0335
Fax (760)949-0659

12397 Sycamore Street, R.R. #1
Victorville, CA 92311
fopice@dpw.sbcounty.gov

SIGN-IN SHEET

MUNICIPAL STORMWATER POLUTION PREVENTION TRAINING

LOCATION: BIG BEAR RD. YARD

DATE: 6/24/09.

NAME	ORGANIZATION / DEPT.	SIGNATURE
Dean Saylor	Trans	Dean Saylor
Jim Dibel	Trans	Jim [illegible]

Economic Development/Public Services Group
DEPARTMENT OF PUBLIC WORKS
COUNTY SURVEYOR

JIM DIBEL
Public Works Operations Supervisor
Big Bear Maintenance Yard

jdibel@dpw.sbcounty.gov

(909) 866-2167
Fax (909) 866-9506

42090 North Shore Dr., P.O. Box 274
Big Bear Lake, CA 92315

County of San Bernardino
Public Services and Support Group
DEPARTMENT OF PUBLIC WORKS

DEAN SAYLOR
Maintenance & Construction Supervisor

(909) 866-2167
Fax (909) 866-9506

42090 North Shore Drive., P.O. Box 274
Big Bear Lake, CA 92315

BY ED VARGA, EMD

SIGN-IN SHEET

MUNICIPAL STORMWATER POLUTION PREVENTION TRAINING

LOCATION: TRONA Road YARD

DATE: 6/23/09

NAME	ORGANIZATION / DEPT.	SIGNATURE
Matthew L. Shaw	OPS.	[illegible]
Frank Park	OPS	[illegible]

Lissette Sanchez-Mendoza
Tina Souza
Tom Thornton

Public Workshop

Using Green Infrastructure to Address Hydromodification Issues Within the Arid West

1½ Days

Dates, Locations and Times:
March 9th, ½-day Tour, 1 – 5 pm
Meet at Apple Valley Commons, 20262 US Highway 18, Apple Valley, California 92307

March 10th, Workshop, 9 am – 5 pm
Victor Valley Performing Arts Center, 18422 Bear Valley Road, Victorville, CA 92395

Course Description: The Workshop is intended to address municipalities, resource agencies, regulators, local flood control agencies, and watershed groups. Speakers will discuss challenges facing the management and conservation of ephemeral streams and washes in order to protect beneficial uses. Speakers will provide guidance and tools to assess the functions of arid streams and riparian areas, as well as how to restore damaged arid streams and riparian areas. Some low impact development strategies for arid climates will also be discussed. Case studies will provide examples about ways to improve water quality and support beneficial uses by considering the ecological services of these rare and important ecosystems in the planning process.

Workshop Speakers
Speakers include: A.L. Riley (SFBWQCB), Mark Stone (Desert Research Institute), Susan Longville (Water Resources Institute), Jill Bays (Transition Habitat Conservancy), Neville Slade (Victor Valley Community College), Matt Yeager San Bernardino Co. Flood Control District); John A. Izbicki (US Geological Survey)

Questions concerning the class may be addressed to Molly Munz at mmunz@waterboards.ca.gov or (916) 341-5485.

Half Day Tour: By 1:00 PM, meet at the shopping center - Apple Valley Commons Lunch is on your own, several restaurants are available at Apple Valley Commons. The tour bus will stop at various tributaries to the Mojave River; including Desert Knolls and Oro Grande Wash. We will end the tour at the Lewis Center for Educational Research before heading back to Apple Valley Commons. Bring water, sun-protection, and wear sturdy walking shoes. Estimated time of tour: 4 hours.

Registration NOTE: Due to limited seating, the tour is available to the first 45 people who register. Confirmation is provided to registrants via email through the Training Academy.
Registration and Parking Fees: Paid through the Water Board Training Academy. Parking passes for the workshop will be provided free via email to those who register by the deadline of March 4th (Wednesday); a limited number of parking passes will be available at the workshop.
Registration opens February 4th: Water Board employees, follow the training registration requirements, obtain all required approvals and then register on-line at http://waternet/training. The public can register by following the instructions on-line at http://www.waterboards.ca.gov/academy/
Hotel Recommendation: Comfort Suites Victorville - This hotel accepts the State Rate and is the closest to the Workshop location, the Victor Valley Performing Arts Center.
If you have special accommodation or language needs, or registration questions, please contact Barbara Andersen no later than March 4th, at (916) 341-5519 or at bandersen@waterboards.ca.gov TTY/DD/Speech to Speech users may dial 7-1-1 for the California Relay Service.

Tom Thornton

STATE OF CALIFORNIA – CALIFORNIA NATURAL RESOURCES AGENCY

ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT
770 FAIRMONT AVENUE, SUITE 102
GLENDALE, CA 91203-1035

Date: APR 1 2009

To: Community Floodplain Administrators and Other Interested Parties

From: Salomon Miranda, PE SM
Floodplain Management and Local Assistance

Subject: NFIP Floodplain Management Workshop

You are invited to attend a National Flood Insurance Program Workshop to be held on Tuesday, April 21, 2009, entitled "Floodplain Management and Duties of the Local Administrator". The workshop will be held at the Orange Terrace Park, located at 20010 Orange Terrace Parkway, Riverside, California 92508. The "Floodplain Management and Duties of the Local Administrator" workshop concentrates on the fundamentals of floodplain management and community compliance with the NFIP.

As a participating community in the NFIP, we encourage you and your staff to take advantage of this training session. In particular, it is important that those individuals involved with the development review and building processes attend these workshops. It is also an excellent opportunity to train new staff.

These workshops reflect a greater commitment to training by the Department of Water Resources and the Federal Emergency Management Agency under the Community Assistance Program. This emphasis on training is a result of the review of communities through DWR/FEMA Community Assistance Visits and a determination that deficiencies are often the result of insufficient training of local administrators.

Please refer to the enclosed flier for specifics about the workshop. Since space for the workshop is limited, be sure to register on line at http://www.water.ca.gov/floodmgmt/lrafmo/fmb/fas/nfip/workshop/dwr.cfm or return the enclosed registration form as soon as possible (fax or mail only). **No phone registrations please.** Reservations will be accepted on a first-come, first-served basis. If you have any questions concerning the workshop, please phone me at (818) 500-1645 Ext. 245 or e-mail me at salomon@water.ca.gov.

Enclosures

CERTIFICATE OF TRAINING

presented to

Keith Otjen

To acknowledge completion of the exam preparation course for the

Certified Professional in Erosion and Sediment Control

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

San Bernardino County STORMWATER PROGRAM

Training Sub-committee Chairman

CERTIFICATE OF TRAINING

presented to

Keith Otjen

Has successfully completed the training course

CPESC BMP Field Workshop

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

San Bernardino County STORMWATER PROGRAM

Training Sub-committee Chairman

CERTIFICATE OF TRAINING

presented to

Tom Thornton

Has successfully completed the training course

CPESC BMP Field Workshop

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

San Bernardino County STORMWATER PROGRAM

Training Sub-committee Chairman

CERTIFICATE OF TRAINING

presented to

Tom Thornton

To acknowledge completion of the exam preparation course for the

Certified Professional in Erosion and Sediment Control

As developed and taught on November 5, 2008 by a certified CPESC instructor

Instructor

San Bernardino County STORMWATER PROGRAM

Training Sub-committee Chairman

See ~~Attached~~ Sign-IN Sheet

JOIN US FOR A POWER POINT PRESENTATION AND LUNCH ON MAY 19TH

SINGLE & 2 STAGE SEEPAGE PITS.

PLAN REVIEW, INSTALLATION AND MAINTENANCE WILL BE COVERD.

ROGER L. WILLIAMS
TECHNICAL MARKETING REP. OF
TORRENT RESOURCES, INC.
WILL BE PRESENTING.

"EL POLLO LOCO" WILL BE SERVED FOR LUNCH.

- LOCATION: CITY HALL (JOSHUA ROOM).
- POWER POINT AND DISCUSSION: 11:30 AM. – 12:45 PM.
- FIELD VISITS: AFTER POWER POINT.
- LUNCH WILL BE SERVED @ 11:30 AM.

DUE TO LIMITED SPACE; ATTENDANCE SHALL BE LIMITED TO THE PERSONNEL LISTED BELOW:

ENGINEERING DEPT: JOHN LEVEILLEE, TOM THORNTON, MARK MCKINLEY, NICK MUELLER, TINA SOUZA, DWAINE LATIMER, MIKE BALDEWICZ, CURTIS COOK AND CHRIS ROSE,

BUILDING AND SAFETY: MIKE HEARN, GLEN JANZEN, JIM GILL, KEITH OTJEN, JERRY PALMER AND MARCUS JOHNSON.

PUBLIC WORKS: COLIN ROWE (PLUS 5 GUESTS)

FOR QUESTIONS ABOUT THIS EVENT CALL OR E-MAIL, CHRIS ROSE (SENIOR ENGINEERING TECH) @ 947-1016, CROSE@CITYOFHESPERIA.US

TORRENT RESOURCES 35 YEARS

CITY OF HESPERIA
SINGLE & TWO STAGE SEEPAGE PITS
SIGN-IN SHEET

DATE: MAY 19, 2009 **START TIME:** 11:30
END TIME:

PRESENTATION & FIELD VISIT: SINGLE AND TWO STAGE SEEPAGE PITS
PLAN REVIEW, INSTALLATION AND MAINTENANCE

	EMPLOYEE NAME	EMPLOYEE SIGNATURE	DEPARTMENT
1	MARK MCKINLEY		ENGINEERING
2	DWAYNE LATIMER		ENG.
3	ERIC LORENZ		"
4	DOE BURKE		Public Works
5	JEFF BENNINGTON		Public Works H_2O
6	Mark Solomon		Public Works (Sewer)
7	JOE ISKANDAR		P.W. - SEWER
8	Daniel Sanchez		P.W - SEWER
9	JERRY PALMER		BLDG & SAFTEY
10	GLENN JANZEN		B & S
11	JIM GILL		B & S.
12	Tina Souza		Development Services
13	Marcus Johnson		B+S
14	MIKE BALDEWICZ		ENGINEERING
15	KEITH OLSEN		B & S.
16	Curtis Cook		ENGINEERING
17	GEORGE CARDENAS		CONSULTANT
18	MIKE HEARN		B & S
19	NICK MUELLER		ENGINEERING
20	CHRIS ROSE		ENGINEERING.
21	TOM THORNTON		ENGINEERING
22	JOHN LEVEILLER		ENGINEERING
23			

City of Hesperia Public Works Division Safety Meeting Sign-In Sheet

Date: 6/1/09

		Signature			Signature
ADDANTE ✓	N	Nancy Addante	GODFREY ✓	C	
ALBERTS ✓	J		HARDIN ✓	K	
ALLOWAY ✓	J		HEARN ✓	N	
ANTUNEZ ✓	D		HERNANDEZ ✓	M	
ARAUJO ✓	T		HILL ✓	D	
			HUNTER ✓	A	
ASHBY ✓	R		ISKANDAR ✓	J	
BENNINGTON ✓	J		KING ✓	K	
BERAN ✓	J		KUNATH ✓	E	
BLAIR ✓	M		LATIMER ✓	J	
BOURNE ✓	C		LEON ✓	R	
BOURQUE ✓	S		LOPEZ ✓	J	
BROWN ✓	L		MCCALL ✓	R	
BULGARELLI	S	Out	MCDONALD ✓	J	
BURKE ✓	D		MCKENZIE	T	Out
BURNSIDE	J	Out	MALABICKY ✓	M	
BUSSEE ✓	K		MARGADONNA ✓	M	
CHACON	R		MARION ✓	A	
CLARK-SPILLA ✓	C		MEHAFFIE ✓	D	
CONTRERAS ✓	H		MILLER ✓	D	
CRAWFORD ✓	J		MOORE ✓	M	
DIAZ ✓	R		MORALES ✓	G	
DOBOS ✓	G		MURDOCK ✓	J	
DOMINGUEZ ✓	R		NOVACK ✓	R	
EVERETT ✓	J		OBRIEN-ORTA ✓	C	
FAHERTY ✓	M		OLDFIELD ✓	J	
GARRISON	D	Out	OTERO ✓	A	
GATES	D		OZANNE ✓	J	

City of Hesperia Public Works Division Safety Meeting Sign-In Sheet

Date: 6/1/09

		Signature			Signature
PARKER ✓	M		SWEENEY	M	OUT
ROMERO ✓	A		TOMLINSON ✓	M	
ROSS ✓	J		TORIX	L	
ROWE ✓	C		TUTHILL	M	OUT
SANCHEZ ✓	D		VASQUEZ	J	
SANTOS ✓	J		VERHEYEN ✓	S	
SAUDE	S	OUT	VILLAREAL ✓	E	
SMITH ✓	S		VOGEL	W	OUT
SOLOMON ✓	M		WILLIAMS ✓	J	
STEFFEN ✓	T		WULSTEIN ✓	A	
STILTNER ✓	L		YOUNG ✓	D	
STULL ✓	G		ZAPPIA ✓	M	
STUMP ✓	T				

City of Hesperia
Incorporated 1988

Streets, Water & Sewer

DATE: August 22, 2008

TIME IN: 1300
TIME OUT: 1500

LOCATION: Public Works Office Main St & Ninth Ave

SUBJECT: **Tail Gate Safety Meeting Week 29, 30, 31, & 32 (2 Hours)**

AGENDA

- Construction Site Safety Part 2-Flying Debris and Neatness
- Underground Service Alert Make the Call
- Tow Right, Tow Safely
- Don't Let Chemicals Get You

REFERENCE

City of Hesperia

-

Other

- *Let's Talk SAFETY 2008 American Water Works Association (AWWA)*

WASTEWATER TEAM

Colin Rowe:

Maintenance Crew Supervisor

Mark Solomon:

Senior Maintenance Worker Sewer

Albert Otero:

Maintenance Worker Sewer

Dean Hill:

Maintenance Worker Sewer

Joseph Iskander:

Maintenance Worker Sewer

Stephen Bulgarelli:

Maintenance Worker Sewer

Open:

Maintenance Worker Sewer

9700 Seventh Ave
Hesperia, California 92345
(760) 947-1417 Fax (760) 947-4060

www.cityofhesperia.us

City of Hesperia
Incorporated 1988

Streets, Water & Sewer

DATE: September 5, 2008

TIME IN: 1300
TIME OUT: 1400

LOCATION: Public Works Office Main St & Ninth Ave

SUBJECT: **Tail Gate Safety Meeting Week 33 & 34 (1 Hours)**

AGENDA

- Calling Cell Phone Users: Hang Up and Drive
- Gasoline: What You Don't Know Can Kill You

REFERENCE

City of Hesperia

-

Other

- *Let's Talk SAFETY 2008 American Water Works Association (AWWA)*

WASTEWATER TEAM

Colin Rowe:

Maintenance Crew Supervisor

Mark Solomon:

Senior Maintenance Worker Sewer

Albert Otero:

Maintenance Worker Sewer

Dean Hill:

Maintenance Worker Sewer

Joseph Iskander:

Maintenance Worker Sewer

Stephen Bulgarelli:

Maintenance Worker Sewer

Open:

Maintenance Worker Sewer

9700 Seventh Ave
Hesperia, California 92345
(760) 947-1417 Fax (760) 947-4060

www.cityofhesperia.us

City of Hesperia
Incorporated 1988

Streets, Water & Sewer

DATE: March 6, 2009

TIME IN: 1330
TIME OUT: 1430

LOCATION: Public Works Office Mojave Site

SUBJECT: **Tail Gate Safety Meeting Week 9 (1 Hours)**

AGENDA

- Gasoline: What You Don't Know Can Kill You

REFERENCE

City of Hesperia

-

Other

- *Let's Talk SAFETY 2009 American Water Works Association (AWWA)*

WASTEWATER TEAM

Colin Rowe:

Maintenance Crew Supervisor

Mark Solomon:

Senior Maintenance Worker Sewer

Albert Otero:

Maintenance Worker Sewer

Dean Hill:

Maintenance Worker Sewer

Joseph Iskander:

Maintenance Worker Sewer

Stephen Bulganelli:

Maintenance Worker Sewer

Danial Sanchez:

Maintenance Worker Sewer

City of Hesperia
Incorporated 1988

Streets, Water & Sewer

DATE: March 20, 2009

TIME IN: 1400
TIME OUT: 1500

LOCATION: Public Works Office Mojave Site

SUBJECT: **Review SSMP & Sanatary Sewer Overflow (SSO) Response (1 Hours)**

AGENDA

- Review over Sewer System Management Plan (SSMP)
- Review Sanatary Sewer Overflow (SSO)Emergancy Response

REFERENCE

City of Hesperia

- City of Hesperia's Sewer System Management Plan (SSMP)
- City of Hesperia's Sanatary Sewer Overflow (SSO) Response Plan

Other

-

WASTEWATER TEAM

Colin Rowe:

Maintenance Crew Supervisor

Mark Solomon:

Senior Maintenance Worker Sewer

Albert Otero:

Maintenance Worker Sewer

Dean Hill:

Maintenance Worker Sewer

Joseph Iskander:

Maintenance Worker Sewer

Stephen Bulganelli:

Maintenance Worker Sewer

Danial Sanchez:

Maintenance Worker Sewer

City of Hesperia
Incorporated 1988

Streets, Water & Sewer

DATE: April 3, 2009

TIME IN: 1400
TIME OUT: 1500

LOCATION: Public Works Office Mojave Site

SUBJECT: **Tail Gate Safety Meeting Week 12 & 13 (1 Hours)**

AGENDA

- Construction Site Safety Part 2: Flying Debris and Neatness
- What You Don't Know About Radon Can Kill You!

REFERENCE

City of Hesperia

-

Other

- *Let's Talk SAFETY 2009 American Water Works Association (AWWA)*

WASTEWATER TEAM

Colin Rowe:
Maintenance Crew Supervisor

Mark Solomon:
Senior Maintenance Worker Sewer

Albert Otero:
Maintenance Worker Sewer

Dean Hill:
Maintenance Worker Sewer

Joseph Iskander:
Maintenance Worker Sewer

Stephen Bulganelli:
Maintenance Worker Sewer

Danial Sanchez:
Maintenance Worker Sewer