San Diego County Regional Airport Authority

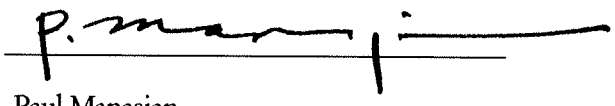
Fiscal-Year 2006-2007 Municipal Stormwater Permit Annual Report

January 2008

Statement of Certification for the 2006-2007 San Diego County Regional Airport Authority Municipal Permit Annual Report

"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 ensure 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."

Date: January 28, 2008

Signature: 

Printed Name: Paul Manasjan

Title: Director, Environmental Affairs Department

SAN DIEGO COUNTY
REGIONAL AIRPORT AUTHORITY

INTER-OFFICE COMMUNICATION

Date: June 27, 2003

To: Thella F. Bowens
President/CEO

From: Ted Sexton
Vice President, Operations

Subject: Authorization to Sign National Pollutant Discharge Elimination System (NPDES) Documents

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NPDES Permits (including General NPDES Permits) require submission of various reports and certifications, which must be prepared and signed by a principal executive office or duly authorized representative. A person is a duly authorized representative if: (1) the authorization is made in writing by the executive officer and (2) a copy of the authorization is retained as part of the permit records for each facility. The authorized representative must be the individual or position having overall responsibility for environmental matters.

This is to request your approval, evidenced by your signature below, authorizing the Director of Environmental Affairs for the Authority to serve as the duly authorized representative for purposed of executing all documents related to the NPDES Permit requirements.

Thella F. Bowens
President/CEO
San Diego County Regional Airport Authority

30 June '03
Date

Cc: Paul Manasjan, Director, Environmental Affairs
Zane Gresham, Morris & Foerster

SAN DIEGO
INTERNATIONAL
AIRPORT

Acknowledgements

The San Diego County Regional Airport Authority fiscal-year 2006-2007 Municipal Stormwater Permit Annual Report has been prepared by the Authority Environmental Affairs Department with the assistance of the Facilities Maintenance Department, the Landside Operations Department, the Airside Operations Department, the Facilities Development Department, the Real Estate Management Department, the Airport Planning Department, and the Human Resources Department. Staff from these departments are integral to implementation of the Authority's stormwater management program and to ensuring compliance with the Municipal Stormwater Permit.

The development and production of this report is a result of the talents and experience of several individuals. Special recognition and acknowledgement are given to the following individuals for their contributions and insight in making this document a collective success for the environment and the San Diego County Regional Airport Authority:

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Municipal Stormwater Permit
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CHAPTER PAGE

APPENDICES

Executive Summary

The San Diego County Regional Airport Authority (Authority) submits the fiscal-year 2006-2007 (FY06-07) Annual Report in compliance with California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. 2001-01, NPDES Permit #CAS0108758 (Municipal Permit). The FY06-07 Annual Report describes all the stormwater management activities conducted by the Authority between July 1, 2006 and June 30, 2007 to ensure compliance with the Municipal Permit.

The Authority has owned and operated San Diego International Airport (SDIA) since January 1, 2003. SDIA is located on approximately 660 acres adjacent to San Diego Bay, north of downtown San Diego, in San Diego County. The entire jurisdictional area of the Authority, namely, SDIA, discharges into San Diego Bay through 14 storm drain outfalls. Airport operations include two main airline terminals, a commuter terminal, one main runway area, taxiways, fueling facilities, ancillary support facilities, and a closed landfill site.

The Authority controls a number of operations/activities/facilities that are defined by the Municipal Permit as "municipal activities," including: roads and parking lots; the closed Naval Training Cemter (NTC) landfill; the municipal storm sewer system (MS4) or stormwater conveyance system; the grounds and buildings; the maintenance and storage facilities operated by the Authority; and the airfield itself. All municipal activities at SDIA are subject to the Authority Storm Water Management Plan (SWMP) and are required to implement the BMPs described therein relative to municipal activities. Of the municipal activities and areas listed above, only the landscaped areas of the facility grounds and the buildings are identified as low priority threats to surface water quality. During FY06-07, the Authority

conducted MS4 and municipal facility maintenance activities which included quarterly and annual inspection, cleaning, implementation of measures to prevent waste discharges to receiving waters during maintenance activities, and proper disposal of sediment and debris. The annual site inspections found that the BMPs required for use with municipal operations were being properly implemented and no formal enforcement actions were initiated.

The Authority's pollution prevention efforts included a waste reduction and recycling program and the development of an effective outreach program to educate all potential users of the single-stream recycling element. In FY06-07, the Authority added a one-day electronic and universal waste collection event to the Authority's pollution prevention efforts. The event was open to all airport tenants and Authority staff. The Authority has also established an integrated pest management (IPM) program designed to minimize the amount of pesticides and herbicides used to maintain the buildings and grounds at SDIA.

Forty-one (41) airport tenants, and the Authority itself, conduct activities that are subject to the Industrial Component of the Municipal Permit. These 42 entities are considered high priority threats to water quality. All are required to implement the BMPs listed in the SWMP. During the reporting period, the Environmental Affairs Department conducted both a quarterly inspection program and a comprehensive annual inspection program of all industrial activities at SDIA. These inspection resulted in 9 recorded enforcement actions. All issues of concern were resolved.

Fifteen (15) airport tenants conduct commercial activities that are subject to the Commercial Component of the Municipal Permit. All are required to implement the BMPs listed in the SWMP. During the reporting period, the Environmental Affairs Department conducted both a quarterly inspection program and a comprehensive annual inspection program of all commercial activities at SDIA. All but 1 of these commercial operations were found to be in compliance. The Authority initiated 1 enforcement action and the issues of concern were resolved.

During this reporting period, the Authority Airport Planning Department continued the preparation of an implementation plan for the SDIA Master Plan and initiated the environmental review processes in accordance with the California Environmental Quality Act (CEQA). None of the development projects initiated at the airport during FY06-07 were subject to the Authority SUSMP process.

During the reporting period, there were 8 construction projects at SDIA and the Environmental Affairs Department conducted regular site inspections of each project. No formal enforcement actions were initiated for any construction projects during FY06-07.

The Authority conducts an illicit discharge detection and elimination (IDDE) program that incorporates site monitoring methods, visual inspections, and a 24-hour telephone hotline (as a public reporting mechanism) in attempting to detect illegal discharges. During the reporting period, there were 220 IDDE incidents recorded, 6 of which involved sewage, and 7 of which were identified as unauthorized discharges. All of the sewage incidents were cleaned up without impacting the MS4. The 7 unauthorized discharge events resulted in 5 verbal notices to cleanup the incident, and 2 written notice to cleanup. All incidents were cleaned up without impact to the MS4.

The Authority's stormwater education and outreach program is designed to reach the target audiences required by the Municipal Permit. The overall goal of the education component is to increase the understanding of stormwater management issues and to help promote behavioral changes that will reduce stormwater pollution and enhance water quality. Elements of the education program include: the Authority webpage, airport storm drain stenciling, posters, signage, brochures, public service announcements, news releases, meetings, and focused training sessions. The FY06-07 Annual Report documents the continued expansion of the Authority's education and outreach efforts, as well as their effectiveness.

The Authority's stormwater management public participation program is primarily directed at airport tenants and Authority staff, but also includes the general public. Public participation opportunities during this reporting

period included: regular meetings of the San Diego County Regional Airport Authority Board, regular meetings of the Lindbergh Airport Managers Committee, regular meetings of the Tenant Safety Committee, a 24hour telephone hotline, the Authority webpage, and outreach events in collaboration with local environmental groups.

The FY06-07 Annual Report discusses the wet weather monitoring program in much greater detail than in previous Annual Reports. Information regarding the wet weather monitoring program is placed in Chapter 11 (Special Investigations) for the first time. Previous Annual Reports had discussed the wet weather stormwater monitoring program in Chapter 3.

Using "A Framework for Assessing the Effectiveness of Jurisdictional Urban Runoff Management Programs," the Authority presents an assessment of each component of the stormwater management program implemented during FY06-07. Based on the results of current program implementation and the findings of the effectiveness assessment, the majority of the management measures currently being implemented by the Authority have proven to be effective. Taken as a whole, the Authority's program is in compliance with the Municipal Permit. Any changes proposed to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit (adopted on January 24, 2007) and scheduled for submittal to the RWQCB in March of 2008.

This report presents an accounting of the Authority's stormwater management program expenditures for FY06-07, and the budget for FY07-08. Costs are categorized by Personnel, Non-personnel, and the Capital Improvement Program.

The FY06-07 Annual Report documents the Authority's compliance with the Municipal Permit. The majority of the management measures implemented by the Authority have proven to be effective. The program generally fulfills the requirements of the Municipal Permit. The FY06-07 Annual Report clearly demonstrates that the stormwater management program at SDIA is adequately planned, executed, reviewed, and funded.

1 Introduction

The San Diego County Regional Airport Authority (Authority) continually strives to operate San Diego International Airport (SDIA) in a manner that demonstrates the utmost respect for our unique natural setting - an urban center on the shore of San Diego Bay. The Authority conducts airport activities in a manner that protects the natural resources, the health and well-being of the people that work here, the surrounding neighborhoods and communities, and the traveling public as they pass through our facility. Potential stormwater impacts are just one characteristic of the airport's "environmental footprint" that the Authority aims to minimize.

This report describes the stormwater management activities of the Authority during the period of July 1, 2006 to June 30, 2007 - the fiscal year 2006-2007 (FY06-07). The Authority submits this FY06-07 Annual Report in compliance with California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. 2001-01, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS0108758, *Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego (County), the Incorporated Cities of San Diego County, and the San Diego Unified Port District* (the Municipal Permit). Although the Municipal Permit was renewed on January 24, 2007, the renewed permit did not alter stormwater management activities at the airport during FY06-07.

This report has been prepared by the Authority Environmental Affairs Department with the assistance of the Facilities Maintenance Department, the Landside Operations Department, the Airside Operations Department, the Facilities Development Department, and the Real Estate Management Department. These departments are responsible for the implementation of the Storm Water Management Plan (SWMP) for SDIA. Staff from these departments are integral to eliminating and reducing pollutants in stormwater runoff and to ensuring the Authority's compliance with the NPDES permits applicable at SDIA, including the Municipal Permit.

The RWQCB provided comments on the FY05-06 Annual report in a letter dated October 31, 2007, with a subject title of "Review of Jurisdictional Urban Runoff Management Program 2005-2006 Annual Report for San Diego County Regional Airport Authority, Order No. 2001-01, NPDES Permit No. CAS0108758" ("October 31, 2007 RWQCB Review Letter"), and directed that "revisions and any responses to comments should be addressed in the Fiscal Year 2006-2007 Annual Report." Where appropriate throughout this report, the Authority provides responses to the RWQCB comments.

ORGANIZATION OF THE FY06-07 ANNUAL REPORT

The FY06-07 Annual Report presents a compilation of the Authority's stormwater management efforts in the following order:

Executive Summary
1 - Introduction
2 - Municipal Component of Existing Development
3 - Industrial Component of Existing Development
4 - Commercial Component of Existing Development
5 - Residential Component of Existing Development
6 - Land Use Planning for New Development/Redevelopment Component
7 - Construction Component
8 - Illicit Discharge Detection and Elimination Component
9 - Education Component
10 - Public Participation Component
11 - Special Investigations
12 - Assessment of Program Effectiveness
13 - Fiscal Analysis Component
14 - Conclusions and Recommendations

BACKGROUND ON THE SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY

The Authority became the owner and operator of SDIA on January 1, 2003. With approximately 300 employees, the Authority uses an annual budget of approximately $100 million to manage SDIA - a regional asset responsible for contributing some $4.5 billion annually to the local economy.

SDIA is located on approximately 660 acres adjacent to San Diego Bay and just north of downtown San Diego in San Diego County. Approximately 85-90% of the airport property is covered by impervious surfaces. Airport operations include two main airline terminals, a commuter terminal, a fixed base operation facility, one main runway area, taxiways, and ancillary support facilities which include a remote fueling facility, air cargo, ground support, a closed landfill site, an airplane wash-rack, overnight airplane parking areas, and the Airport Rescue and Fire Fighting (ARFF) Facility.

The climate at SDIA is generally mild with an average temperature of 71°F and extremes ranging from the high 40's during the winter to the low 80's during the summer. The majority of the 12 inch-average-annual rain falls during the period from October to April.

SDIA lies within the Pueblo San Diego (908.00) hydrologic unit of the San Diego Basin Plan and within the San Diego Bay Watershed of the Municipal Permit. The entire jurisdictional area of the Authority consists of the airport itself. Stormwater runoff from SDIA discharges into San Diego Bay through 14 storm drain outfalls.

In regards to the Municipal Permit, there are 3 notable characteristics of the Authority: a) the absence of private property ownership within the Authority's jurisdictional boundaries; b) the absence of a residential population within the Authority's jurisdictional boundaries; and c) the absence of hillsides as defined in the Municipal Permit.

REGULATORY FRAMEWORK FOR STORMWATER MANAGEMENT AT SAN DIEGO INTERNATIONAL AIRPORT

Presently, the Authority's operations must comply with two NPDES Stormwater Permits. The Authority has prepared a single document, the SDIA SWMP, to fulfill the requirements of these two permits, specifically:

- California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. 2001-01, NPDES No. CAS0108758, *Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego, the Incorporated Cities of San Diego County, and the San Diego Unified Port District* (the Municipal Permit);

  The Municipal Permit specifies the waste discharge requirements for discharges of urban runoff from the MS4s of the jurisdictions named. The Authority was added to the list of jurisdictions by Permit addendum on August 13, 2003. The Municipal Permit outlines the responsibilities of the jurisdictions (referred to as the Copermittees) to implement stormwater management programs, best management practices (BMPs), and monitoring programs. The permit requires that these efforts be outlined in a Jurisdictional Urban Runoff Management Program (JURMP) Document. The SDIA SWMP fulfills the Municipal Permit requirement to prepare a JURMP Document.

- State Water Resources Control Board (SWRCB) Water Quality Order No. 97-03-DWQ, NPDES General Permit No. CAS000001, *Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities* (the General Industrial Storm Water Permit);

  Under the General Industrial Storm Water Permit, specific industrial facilities (dischargers), of which SDIA is one, are required to control and eliminate sources of pollutants in stormwater through the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP is a tool for recognizing and evaluating potential sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility. The SWPPP is also a guide to help identify site-specific BMPs required to reduce or prevent pollutants associated with industrial activities in stormwater discharges and authorized non-stormwater discharges. The SDIA SWMP fulfills the General Industrial Storm Water Permit requirement to prepare a SWPPP.

SAN DIEGO INTERNATIONAL AIRPORT STORM WATER MANAGEMENT PLAN (SDIA SWMP)

While not a necessity to review this Annual Report, we present the general structure of the SDIA SWMP here. The SDIA SWMP presents information in a manner that facilitates understanding by Authority staff and SDIA tenants. The format of the SWMP is generally based on a standardized format for JURMP Documents that was developed and agreed upon by the Copermittees. There are notable differences, however, most apparent in Chapters 2, 3, and 6 of the SWMP.

The significant difference between the SWMP and a JURMP Document becomes apparent in Chapter 2 of the SWMP, entitled "Description of Facility and Pollutant Sources." Chapter 2 provides an overview of the Authority and SDIA, a site map of SDIA, a detailed descriptions of the drainage areas of SDIA, and descriptions of those activities conducted by the Authority and its tenants that could generate stormwater pollutants. Chapter 2 addresses the inventory and prioritization requirements of the Existing Municipal, Industrial, and Commercial Development Components [Municipal Permit Requirements F.3.a-d. and H.1.a(2-5)].

Chapter 3 of the SWMP further distinguishes the differences between the SWMP and a JURMP Document. Entitled "Operational Storm Water Management Practices," Chapter 3 outlines the BMPs that are required for implementation at SDIA by the Authority and its tenants during day-to-day operations. The Chapter addresses the Existing Development BMP implementation requirements. The requirements for identification of pollution prevention and the maintenance of the MS4 are also addressed in Chapter 3 [Municipal Permit Requirements F.3.a-d. and H.1.a(2-5)].

Chapter 6 addresses the inspection and enforcement requirements of the Municipal Permit for all Existing Development, except construction [Municipal Permit Requirements F.3.a-d. and H.1.a(2-5)]. Chapter 6 of the SWMP, entitled "Inspection and Enforcement," describes how the Authority inspects Authority (municipal and industrial) and tenant (industrial and commercial) areas and activities. Chapter 6 details the mechanisms in place to enforce the implementation of BMPs and other stormwater requirements at SDIA.

ANNUAL REPORT HIGHLIGHTS

The One-day Electronic and Universal Waste Collection Event, open to all airport tenants and Authority staff, was added to the Authority's pollution prevention efforts in FY06-07. The event is highlighted in the discussion of the Municipal Component in Chapter 2. Changes to the inventory for the Industrial Component are discussed in Chapters 3. Enforcement meausures taken by the Authority are highlighted in the discussions of the Industiral Component in Chapter 3, the Commercial Component in Chapter 4, and the Illicit Discharge Detection and Elimination Component in Chapter 8.

Chapter 6 highlights continued recent developments regarding the adoption of the Airport Master Plan. Chapter 8 of this report presents information suggesting that the amount of IDDE information being reported each year may be reaching the plateau that has always been anticipated. The expanding education and outreach efforts of the Authority are noted in Chapter 9.

This Annual Report takes the discussion of the wet weather stormwater monitoring program that was presented in Chapter 3 of all the previous Annual Reports and moves the discussion to Chapter 11 (Special Investigations). The wet weather monitoring program is discussed here in much greater detail than in previous Annual Reports.

Finally, the Assessment of Program Effectiveness (Chapter 12) continues to evolve as more data and information are gathered over four years of program implementation. The Authority's procedures and methods have begun to allow for a more complete evaluation of the program and more robust conclusions and recommendations for improvement.

2 Municipal Component of Existing Development

The Authority conducts a number of operations that are defined as "municipal activities" by the Municipal Permit. This chapter describes the Authority's efforts during FY06-07 to comply with the Municipal Component of the Municipal Permit. The areas and activities at SDIA considered "municipal" include: a) the roads and parking lots; b) the closed NTC Landfill; c) the stormwater conveyance system (MS4) maintained by the Authority; d) the grounds and buildings; e) the maintenance and storage facilities operated by the Authority; and f) the airfield itself, consisting of the entire Airside Operations Area (AOA). The Authority's municipal operations and the stormwater management controls placed on them are outlined in Chapters 2, 3, 6, and 7 of the SDIA SWMP.

SOURCE IDENTIFICATION AND PRIORITIES (INVENTORY)

Table 2-1 presents the inventory of Authority municipal operations at SDIA. As shown in Table 2-1, only the landscaped areas of the facility grounds and the buildings are identified as low priority threats to surface water quality. Each of the remaining land uses and areas listed in Table 2-1 are defined as high priority threats to surface water quality by the Municipal Permit.

Table 2-1. Municipal Operations at SDIA

Type of Activity	Water Quality Threat Priority	Item or Description
Roads	High	4 miles
Parking Lots	High	12 lots
		7,725 total parking spaces
		74 acres
Closed Landfill	High	39 acres
MS4	High	210 inlets
		86,000 feet of storm drain pipe
Maintenance and Storage Areas	High	Hazardous Waste Storage Area
		Vehicle Storage Area
		Runway Generator Shop
		Terminal 2 West Equipment Storage Area
Solid Waste Operations	High	Trash and Recycling Compactor Area
		Terminal 2 East Trash Compactor
		Terminal 2 West Trash and Recycling Compactor Area
		Landscape Waste Dumpster
Airside Operations Areas	High	Ramp Scrubbing
		Runway Rubber Removal
Grounds (Landscaped)	Low	12.5 acres
Buildings	Low	Commuter Terminal
		Terminal 1
		Terminal 2
		Cargo Terminal
		West Wing (offices)
		Building A (offices)
		HVAC Building (HVAC and Power Plant)
		LPi Building (Offices)

BMP IMPLEMENTATION AND POLLUTION PREVENTION

All municipal operations at SDIA are required to implement the relevant BMPs listed in Chapter 3 and Appendix B of the SWMP, including the generally applicable site-wide BMPs and the pollution prevention measures. In addition to the hard-copies provided to each department, Authority staff can access the SWMP through the Authority's intranet/internet websites.

The Authority continues its pollution prevention efforts with its waste reduction and recycling program. The elements of the Authority's waste reduction and recycling program are presented in Table 2-2. The Authority's recycling campaign is designed to educate staff about the single-stream recycling program. Available in hard-copy and accessible through the Authority's intranet website, the Authority's bilingual (English-Spanish) Recycling Guide was distributed to describe and promote the program. The brochure also includes suggestions for other ways to help reduce the amount of waste being generated at work or at home. Approximately 5.9% of the waste generated at SDIA was recycled during the reporting period (324 tons of material recycled out of the 5,497 tons of waste generated).

As noted previously in the FY05-06 Annual Report, the Airport Authority also provided education about Universal Waste to staff and tenants. In February of 2006, the Authority first provided staff and tenants with information about changes to the California "Universal Waste Rule." The Airport Authority also began a universal waste collection program for Authority staff at that time. Containers are provided in designated areas where Authority employees may dispose of alkali or rechargable batteries, cell phone batteries, and electronic devices. The universal waste is collected and properly disposed/recycled. In additional, the Authority hosted a One-day Electronic and Universal Waste Collection Event on August 11, 2006, that was open to all staff and tenants. The event allowed staff and tenants to relinquish electronic and universal waste (such as batteries and fluorescent light bulbs) for proper recycling or disposal. More than 3 tons of electronic and universal waste were collected during this one day event.

The Authority also continues to provide the Service Animal and Pet Relief Area for those animals that are traveling with passengers. The area provides a place for animals to have a water or restroom break while waiting for departure or upon arrival. Approximately 400 pet waste bags were dispensed at the Service Animal and Pet Relief Area in FY06-07.

Table 2-2. SDIA Pollution Prevention - Waste Reduction and Recycling Programs

Waste Reduction and Recycling Program	Description
Recycled-Content Product Procurement Program	Procurement Department program designed to purchase products and supplies that feature recycled contents. Approximately 80% of the office paper purchased is at least 30% recycled content, all of the new packaging material purchased is at least 30% recycled content, all of the 30-gallon or larger capacity trash bags and all the floor mats are made from recycled plastics and rubber, all of the toner cartridges purchased are recycled cartridges, all of the cleaning and maintenance supplies (such as gloves and dust masks) are partially made from recycled materials, and all Authority brochures are printed on recycled paper.
Office Waste Reduction Program	Program cultivated a corporate culture that provides for and requests the use of electronic formats for virtually all communication within and between departments. Electronic communication with outside entities is also preferred where feasible. Ten "document processing centers" in shared work areas that are computer-network accessible and feature double-sided printing and copying, document scanning and electronic mailing capacity. Employees are encouraged to use clean waste paper for note and scratch paper. Interoffice mail is distributed using reusable envelopes. Document destruction service providers are required by contract to recycle the waste paper.
Single-Stream Recycling Program	Single stream-recycling program in which all recyclable material can be collected in the same container. Acceptable recyclable materials include cardboard, mixed paper, old newspapers, aluminum, glass, tin cans, and plastics. A total of 50 recycling bins throughout the airport terminals to collect and store recyclables generated by travelers/visitors, airport staff, vendors, and the airline companies. The Authority office staff use desk side recycling containers. The airport janitorial staff, vendors, and tenants also have access to 2 recyclables compactors and several front load recyclables bins.
Office Paper Recycling Program	Waste paper recycling containers are provided at each workstation and in all shared document-processing areas, allowing for 100% of office waste paper to be recycled.
Package Material Recycling Program	Approximately 100% of the recyclable package material waste is recycled.
Green Waste Reduction Program	Approximately 95% of the landscape plants at SDIA are drought tolerant and low waste generating varieties of ground covers, shrubs, and trees. Mulch is used throughout the landscape areas to help retain water, soil, and fertilizers.
Integrated Pest Management Program	Program reduces the use of fertilizers, herbicides, and pesticides on airport property.
Alternative Fuels Program	The Authority operates a compressed natural gas (CNG) fueling station and operates four CNG vehicles.
Universal Waste Collection Program	Initiation of a Universal Waste collection program that provides containers for the collection of alkali and rechargable batteries, cell phone batteries, and electronic devices.

In the October 31, 2007 RWQCB Review Letter, RWQCB staff noted that "it appears that your recycling effort has decreased from the previous year (2005-06 -25% and 2006-07 - 7.5%) (sic)... please explain this and how you plan to substantially increase your recycling efforts in the future." First, it should be noted that while the percentage of the waste stream that was recycled between the two previous reporting periods may have decreased, the Authority's recycling efforts certainly have not. In fact, by hosting the One-day Electronic and Universal Waste Collection Event, noted above, the Authority expanded efforts to capture recyclables in FY06-07 and collected of several tons of recyclable electronics. In April of 2007, the Authority was also selected once again by the Waste Reduction and Diversion Awards Program of the City of San Diego Environmental Services Department as one of the Recyclers of the Year. The Authority's recycling efforts are broader and farther-reaching than ever.

The recycling rate of 25% reported in our FY04-05 Annual Report resulted from the inclusion of 1224 of demolition material in the total amount of recylcbles recovered during that year. In 2004 and 2005, the Authority made an effort to recycling materials that were generated from remodeling/ improvement/construction projects. One of the major projects underway during that time-frame was the Terminal 2 West Tile Replacement Project, which involved the replacement of over 100,000 square feet of floor tile and mortar. Working with the project contractor and the waste hauler, the Authority was able to coordinate the recycling of 1224 tons of tile and mortar. The types of remodeling/improvement/construction projects that generate such large amounts of debris do not occur during every reporting period, and is one factor in the fluctuation of the percentage of waste recycled from year to year. The Authority continues to pursue recycling opportunities for demolition debris.

Second, there are several factors which influence the amount of waste being generated at the airport, most notably the amount of people using the facilities, the intents and focus of those people, and the time-constraints on most of those people and many of the operations which occur throughout the day. While the airport has numerous recycling containers throughout the airport, the general focus of the nearly 60,000 people a day who pass through the terminal is to find their departure gate and pass unhindered through a security checkpoint. Since the focus of activities in the terminals is to direct

travelers to the appropriate gate and ensure the security of themselves and the airport, the majority of the signage and information displays in the terminals is directed at those issues and not necessary recycling or any number of other worthy causes. That said, the 60,000 daily members of the traveling public that pass throught the terminals often miss the recylcing opportunities made available by the Authority, even when a recycling container might be right in front of them. In order to increase recycling, additional recycling containers have been placed throughout the terminals.

Third, it is currently the nature of commercial air travel to collect all the in-flight waste materials in a single trash bag just before the plane lands. There is little time available for airline stewards to seperate waste while in flight - although most airlines are beginning to address this issue, due in part to the negative publicity generated by a December 2006 Natural Resources Defense Council report entitled "Trash Landings - How Airlines and Airports Can Clean Up Their Recycling Programs." To this time, it has been difficult to capture recyclables from the in-flight waste that is disposed from aircraft arriving at SDIA. As such, the amount of in-flight waste reaching the trash compactors at SDIA only increases the weight of trash generated at the airport (although it is not really generated here, but rather brought here) and escapes our current capabilities to recover recyclables. The quantity of in-flight waste is also influenced by a number of factors, such as the time and place of flight origination, the length of the flight, and the number of passengers on board. All of this in turn negatively impacts our recycling percentage when viewed as a portion of the waste from SDIA disposed in local landfills, and also results in further fluctuations in the data when viewed on an annual basis. The Authority recently began collaboration with the USEPA, other airports nationwide, and several airline companies to help facilitate the recycling of in-flight waste. This collaboration should increase the recycling of in-flight waste both here at SDIA and around the county.

MAINTENANCE OF MS4 AND MUNICIPAL FACILITIES

The Authority conducts MS4 and municipal facility maintenance activities on a year-round basis. These activities include inspection and cleaning of MS4 components, proper disposal of sediment and debris removed from the MS4, and implementation of measures to prevent waste discharges to receiving waters during these maintenance activities. Table 2-3 presents information summarizing the MS4 and municipal facility maintenance activities conducted during the reporting period.

Table 2-3. MS4 and Municipal Operation Maintenance Activities During FY06-07

Type of Activity	Manpower Metric*	Materials Metric*
Street Sweeping - Landside	720 hours	5.75 cubic yards
Ramp/Apron Sweeping and Scrubbing - Airside, as needed	384 hours	7,200 gallons of wastewater
Runway Rubber Removal - Airside, as needed	240 hours	31,500 gallons of wastewater
MS4 Cleaning, as needed	84 hours	12.5 cubic yards
Landscape Maintenance	2,160 hours	1,080 cubic yards
Pesticide/Herbicide Application, as needed	60 hours	51.5 gallons
Solid Waste disposal	Not Applicable	5,173 tons
Recyclable Waste recovery	Not Applicable	324 tons

* All metrics are approximated.

MANAGEMENT OF PESTICIDES, HERBICIDES, AND FERTILIZERS

As noted in Table 2-2 above, the Authority has established an integrated pest management (IPM) program designed to minimize the use of herbicides, pesticides, and fertilizers in maintaining the buildings and grounds at SDIA. The IPM program encourages the use of native plant species in the landscaped areas to help minimize the need for excessive irrigation and the need for excessive application of fertilizers and/or herbicides. In addition to encouraging the proper use and disposal of chemicals, the IPM program also ensures that the Facilities Maintenance Department minimizes its inventory of pesticides, herbicides, and fertilizers. A total of 51.5 gallons of pesticides and/or herbicides were applied at SDIA during FY06-07.

SUMMARY OF INSPECTIONS

The Environmental Affairs Department inspected municipal operations during FY06-07. The inspections are listed in Table 2-4 and included: a) quarterly inspections; b) municipal land use area-specific inspections; c) an annual inspection of the MS4; and d) a comprehensive annual inspection conducted in the final quarter of the fiscal year. All areas of municipal land use and activity, the associated sources of stormwater pollution, and authorized non-stormwater discharges were visually inspected during the quarterly inspections and unauthorized discharges were noted. The annual comprehensive site inspection also included: 1) a review of

Table 2-4. Municipal Activity Site Inspections Conducted During FY06-07

Date	Inspection Element	Number of Municipal Activities Inspected/ Number of Activities Requiring Inspection	Activity Types and Number
07/13/06	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots, MS4 (various inlets) (1), 4 Maintenance and Storage Areas, 4 Solid Waste Operations, Airside Operations Areas (1), Grounds(1), 8 Buildings
09/21/06	Site-specific Inspection of Closed Landfill	1 / 1	Closed Landfill
10/09/06	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots, MS4 (various inlets) (1), 4 Maintenance and Storage Areas, 4 Solid Waste Operations, Airside Operations Areas (1), Grounds(1), 8 Buildings
12/20/06	Site-specific Inspection of Closed Landfill	1 / 1	Closed Landfill
02/05/07	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots, MS4 (various inlets) (1), 4 Maintenance and Storage Areas, 4 Solid Waste Operations, Airside Operations Areas (1), Grounds(1), 8 Buildings
03/01/07	Site-specific Inspection of Closed Landfill	1 / 1	Closed Landfill
05/15/07 through 06/07/07	Annual Comprehensive Site Inspection	32 / 32	Roads (1), 12 Parking Lots, MS4 (various inlets) (1), 4 Maintenance and Storage Areas, 4 Solid Waste Operations, Airside Operations Areas (1), Grounds(1), 8 Buildings
06/06/07	Site-specific Inspection of Closed Landfill	1 / 1	Closed Landfill
06/27/07 06/28/07 06/29/07	MS4 Inspection	1 / 1	MS4 (210 inlets)

records; 2) a review and evaluation of all BMPs; 3) visual inspection of all the equipment needed to implement the BMPs; and 4) the preparation of an evaluation report that summarized the inspection and highlighted any revisions necessary to the BMPs. The Environmental Affairs Department also conducted site-specific inspections of the closed NTC Landfill portion of SDIA on a quarterly basis.

The annual comprehensive stormwater site inspection found that overall the BMPs required for municipal operations, as listed in the SWMP, were adequate and properly implemented. Operations were found to be clean and orderly. No unauthorized discharges or other concerns were identified.

In the October 31, 2007 RWQCB Review Letter, RWQCB staff noted that "the Annual Report does not identify the number of municipal areas and activities requiring inspection and the number of municipal areas and activities that were inspected." That information has now been included in Table 2-4 for each element of the municipal activity inspection program.

The October 31, 2007 RWQCB Review Letter also stated that "it is again strongly recommended that the Annual Comprehensive Site Inspection (ASCI) be scheduled in the first quarter of the fiscal year (July-September) rather than the last quarter of the fiscal year (April-June). This will allow completion of the ASCI near the start of the wet season, and enough time to implement all required Best Management Practices (BMPs). This recommendation was previously made to the Authority in a Regional Board letter dated November 6, 2006." The Authority has been considering this possibility for some time, and appreciates the recommendation of RWQCB staff. However, the issue is complicated by the Authority's obligations under the General Industrial Storm Water Permit. The General Industrial Storm Water Permit requires that the Authority conduct an Annual Comprehensive Site Compliance Evaluation (essentially the ASCI) between July 1 and June 30 each year (that is, the fiscal year), but further requires that the evaluations be conducted within 8-16 months of each other. Given that the evaluation must be conducted annually, it does not seem possible to extend the time period between evaluations to 16 months, and thus, the evaluations would need to be conducted within 8-12 months of each other. As such, if the ASCI were conducted in June, the ASCI for the following fiscal year could be

conducted no sooner thatn the month of March. Similarly, if the ASCI were conducted in March, the ASCI for the following fiscal year could be conducted no sooner than the month of December. And if the ASCI were conducted in December, the ASCI for the following fiscal year could be conducted no sooner than the month of September. Therefore, it will take a minimum of 4 years to align the ASCI with the month of September and precede the start of the wet season (October 1). Beginning in FY07-08 or FY08-09, the Authority will start to adjust the time of year in which the ASCI is conducted to eventually align the ASCI with the month of September (if not, earlier in the fiscal year), and thereby, benefit from having evaluated site conditions and corrected BMPs, as necessary, prior to the onset of the wet season.

COMPLIANCE AND ENFORCEMENT ACTIONS

As noted above, municipal operations were found to be in compliance with the SWMP. As such, no enforcement actions were initiated during FY06-07.

REVISIONS TO THE SWMP

The SWMP was last revised in January of 2005. Previously, both the FY04-05 and FY-5-06 Annual Reports stated that the Authority expected to use the output from the Storm Drainage System BMP Project (see Chapter 11 of this report) to revise the SWMP, as appropriate. The FY05-06 Annual Report noted that adoption of a new Municipal Permit (first released by the RWQCB as a Tentative Order No. R9-2006-0011 on March 14, 2006) was expected soon, and that therefore, the Authority would await the adoption of the new permit before revising the SWMP in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes that might be required by a new permit. A re-issued (new) Municipal Permit (RWQCB Order No. R9-2007-0001) was indeed adopted on January 24, 2007. The new permit allowed one-year to update the SWMP, as necessary. That deadline was recently extended by Addendum No. 1 to Order No. R9-2007-0001 adopted by the RWQCB on December 12, 2007. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

3 Industrial Component of Existing Development

This chapter presents the stormwater management activities during FY06-07 that address the Industrial Component of the Municipal Permit. A number of airport tenants, and the Authority itself, conduct regular activities subject to the Industrial Component. Chapters 2, 3, 6, and 7 of the SDIA SWMP outline the stormwater management controls placed on industrial activities.

For the FY06-07 Annual Report, the discussion of "Stormwater Monitoring Related To Industrial Activities" has been moved from this chapter to Chapter 11, Special Investigations. The reasons for presenting the information in Chapter 11 are outlined in Chapter 11.

SOURCE IDENTIFICATION AND PRIORITIES (INVENTORY)

Forty forty one of the 56 tenants listed in the facility inventory of the SWMP are identified as industrial operations. The Authority also conducts industrial activities at SDIA. Thus, the total number entities/operations at the SDIA that are considered subject to the Industrial Component of the Municipal Permit is 42. All 42 entities/operations are considered high priority threats to water quality by the Municipal Permit definition. The 42 operations are listed below in Table 3-1. Please note that 4 tenants appear in the table more than once due to the nature of the activities they conduct and the categorization of those activities in the SWMP. These 4 are ATS, American Airlines, Jimsair Aviation Services, and United Airlines.

Table 3-1. Industrial Operations at SDIA

Type of Activity	Tenant Name
Passenger Carrier	Aerovias De Mexico
	Alaska Airlines
	Aloha Airlines
	American West Airlines
	American Airlines
	American Eagle Airlines
	Atlantic Southeast Airlines, Inc. fka Delta Connection
	Continental Airlines
	Delta Air Lines
	ExpressJet Airlines
	Frontier Airlines
	Hawaiian Airlines
	Jazz Air (Air Canada)
	Jetblue Airways
	Mesa Airlines, Inc. fka America West Express
	Midwest Airlines
	Northwest Airlines
	Skywest Airlines
	Southwest Airlines
	Sun Country
	United Airlines
	USAirway
Cargo Carrier	ABX Air, Incorporated dba Airborne Express
	Ameriflight
	Astar Air Cargo, Inc. fka DHL Airways Inc.
	BAX Global (ATI)
	Federal Express
	Kitty Hawk Aircargo, Inc.
	United Parcel Service Company
	West Air Inc.

Table 3.1 Industrial Operations at SDIA (continued)

Type of Activity	Tenant Name
Fixed Base Operation	Jimsair Aviation Services
Aircraft Fueler	Aircraft Services International Group, Incorporated
	American Airlines
	Jimsair Aviation Services
Fuel Vendor	Allied Aviation Services
	Jimsair Aviation Services
Aircraft Ground Handling Services	ATS
	GAT
	Integrated Airline Services
	Swift Air Service
	Swiss Port
Food Services - Major	HMS Host Corporation
Aircraft and Ground Service Equipment Maintenance	American Airlines
	ATS
	ExecAir
	United Airlines
Jetway Maintenance Service	Elite Line Services Inc. fka Extreme Line Services, Inc.
Airport Operations	SDCRAA - Airside Operations Department and Facilities Maintenance Department

BMP IMPLEMENTATION AND POLLUTION PREVENTION

Industrial operations at SDIA are required to implement those BMPs in Chapter 3 and Appendix B of the SWMP relevant to their operations, including the generally applicable site-wide BMPs and pollution prevention measures. The BMPs and pollution prevention measures were discussed with tenants and staff, as necessary, during the site inspections described below.

SUMMARY OF INSPECTIONS

The Environmental Affairs Department inspected industrial operations at SDIA on a quarter-annual basis, with the fourth quarter inspection part of a comprehensive annual site inspection program. All areas of industrial activity and associated sources of stormwater pollution were visually inspected during the quarterly inspections and unauthorized discharges were noted. The annual comprehensive site inspection also included: 1) a review of records; 2) a review and evaluation of all BMPs; 3) a visual inspection of all the equipment needed to implement the BMPs; and 4) the preparation of an evaluation report that summarized the inspection and highlighted any revisions necessary to the BMPs.

In addition to the inspections conducted by the Environmental Affairs Department, the Airside Operations Department also conducted quarterly inspections of the aircraft fueler and fuel vendor operations in accordance with Federal Aviation Administration (FAA) regulations. These inspections are designed to identify safety concerns, but also identify poorly maintained or leaking equipment. The Environmental Affairs Department is advised of any environmental issues discovered during these inspections.

Table 3-2 presents the dates and types of industrial activity inspections conducted by the Authority during FY06-07.

Table 3-2. Industrial Activity Site Inspections Conducted During FY06-07

Date	Inspection Element
07/12/06	Quarterly FAA 139.321(b) Fuel/Fueler Inspection
07/13/06	Quarterly Site Inspection
10/09/06	Quarterly Site Inspection
10/18/06	Quarterly FAA 139.321(b) Fuel/Fueler Inspection
01/09/07	Quarterly FAA 139.321(b) Fuel/Fueler Inspection
02/05/07	Quarterly Site Inspection
04/13/07	Quarterly FAA 139.321(b) Fuel/Fueler Inspection
05/15 through 06/07/07	Annual Comprehensive Site Inspection

Inspections by the Environmental Affairs Department generally found industrial activities to be in substantial compliance with the requirements of the SDIA SWMP and the Municipal Permit Industrial Component. The majority of the required industrial BMPs are being implemented properly. Table 3-3 identifies the types of industrial activity and associated BMPs which were most frequently found as being improperly implemented at the time of inspection. In each instance, BMPs were compared with those required in the SWMP and each operation was directed to correctly implement the relevant BMPs. In general, issues and concerns identified during inspections were corrected as soon as they were brought to the attention of the tenant managing/supervising staff. Based on the inspections, the Authority determined that the BMPs listed in the SWMP were adequate, and no additions or modifications were required. No unauthorized discharges to receiving waters were identified during industrial activity inspections in FY06-07. Poor housekeeping and poor materials/waste management were again frequently identified as issues of concern, along with oily stains and leaking equipment. These concerns were also indentified in both the FY04-05 and FY05-06 Annual Reports. Both of these issues require constant attention from industrial activity site managers/supervisors. It should be noted that uncontrolled washing activities had been identified as an issues of concern in all 3 of the previous Annual Reports prepared by the Authority. Since uncontrolled washing was not identified as an issue of concern by the FY06-07 industrial activity inspection program, it would appear that the tenants are improving their implementation of BMPs.

Table 3-3. Types of Industrial Activities for Which BMPs Were Being Improperly Implemented as Determined During Site Inspections

Industrial Activity	BMPs Required by SDIA SWMP
Improper storage of materials.	SC-7 - Outdoor Storage of Significant Materials
Oily stains on the ground surface. Used absorbent left on ground surface.	SC-2 - Aircraft, Ground Vehicle and Equipment Maintenance SC-3 - Aircraft, Ground Vehicle and Equipment Fueling SC-8 - Waste/Garbage Handling and Disposal
Improper storage of waste.	SC-8 - Waste/Garbage Handling and Disposal
Leaking vehicles or equipment.	SC-2 - Aircraft, Ground Vehicle and Equipment Maintenance

COMPLIANCE AND ENFORCEMENT ACTIONS

The Authority's industrial activity inspection program found 9 separate industrial operations which were improperly implementing the required relevant industrial BMPs. The 9 industrial operations were issued a written notice in response to issues identified during the annual comprehensive site inspection. Each notice detailed the concerns regarding BMP implementation identified by the Environmental Affairs Department during the inspection, requested corrective action and written response within a specific time-frame, and provided information on the proper implementation the particular BMPs required for their activities. The concerns identified during the inspection are listed in Table 3-4 below. Each item was addressed satisfactorily and no further enforcement actions were initiated.

Table 3-4. Industrial Operation Compliance Concerns Identified during Site Inspections and Dates of Resolution

Operation	Compliance Issue(s)	Type & Date of Notice	Date of Resolution
American Eagle	Oily stains in operation areas.	Written - 05/25/07	05/29/07
Capital Cargo	Used dry absorbent left on ground. Oily stains in operation areas. Improper storage of material and waste.	Written - 05/30/07	06/19/07
DAL Global Services	Stains in operations areas. Leaking equipment.	Written - 06/01/07	06/14/07
Elite Line Services, Inc.	Improper storage of material.	Written - 05/31/07	06/20/07
Jimsair Aviation Services, Inc.	Improper storage of material. Leaking equipment.	Written - 06/08/07	06/26/07
Northwest Airlines, Inc.	Oily stains and spills in operation areas. Improper storage of material and waste.	Written - 05/25/07	06/06/07
Skywest Airlines	Improper storage of material and waste.	Written - 06/05/07	06/08/07
Timco	Improper storage of waste.	Written - 05/29/07	05/31/07
United Airlines, Inc.	Stains in operations areas. Improper storage of materials.	Written - 05/24/07	06/05/07

REVISIONS TO THE SWMP

The SWMP was last revised in January of 2005. During FY06-07, the inventory of industrial operations changed with the addition of 1 new tenant, namely, ExpressJet Airlines. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

4 Commercial Component of Existing Development

This chapter presents the stormwater management activities during FY06-07 that address the Commercial Component of the Municipal Permit. There are several airport tenant facilities and/or operations subject to the Commercial Component. Chapters 2, 3, 6, and 7 of the SDIA SWMP describe the stormwater management controls applicable to commercial activities.

SOURCE IDENTIFICATION AND PRIORITIES (INVENTORY)

Fifteen (15) of the 56 tenants listed in the facility inventory of the SWMP are identified as commercial operations subject to the Commercial Component requirements of the Municipal Permit. These 15 entities are listed in Table 4-1.

BMP IMPLEMENTATION AND POLLUTION PREVENTION

Commercial operations at SDIA are required to implement those BMPs in Chapter 3 and Appendix B of the SWMP relevant to their operations, including the generally applicable site-wide BMPs and pollution prevention measures. These BMPs and pollution prevention measures were discussed with tenants, as necessary, during the site inspections described below.

Table 4-1. Commercial Operations at SDIA

Type of Activity	Water Quality Threat Priority	Tenant Name
Janitorial Services	High	SPC Airport Services, Inc.
Food Service	Medium	La Salsa/Submarina dbe under HMS Host
	Medium	McDonald's dbe under HMS Host
	Medium	Nine Dragons dbe under HMS Host
	Medium	Gate Gourmet
Passenger Services	Medium	Huntleigh USA Corporation
	Medium	ITS (aka SMS)
	Medium	Primeflight Aviation Services
Retail Concessionaires	Low	Casa Fenix dba Express Bodicare and Images of CA
	Low	Procurement Concepts
	Low	Smarte Carte, Incorporated
	Low	Travelex America, Incorporated
Other	Low	Aeronautical Radio, Incorporated
	Low	NSEI
	Low	Travelers Aid Society of San Diego, Incorporated

SUMMARY OF INSPECTIONS

The Environmental Affairs Department inspected commercial operations on a quarter-annual basis, with the fourth quarter inspection part of a comprehensive annual site inspection program. All areas of commercial activity and associated sources of stormwater pollution were visually inspected and unauthorized discharges were noted. The annual comprehensive site inspection also included: 1) a review of records; 2) a review and evaluation of all BMPs; 3) visual inspection of all the equipment needed to implement the BMPs; and 4) the preparation of an evaluation report that summarized the inspection and highlighted any revisions necessary to the BMPs. Table 4-2 presents dates on which the quarterly and annual commercial activity site inspections were conducted during FY06-07.

Table 4-2. Commercial Activity Site Inspections Conducted during FY05-06

Date	Inspection Element
07/13/06	Quarterly Site Inspection
10/09/06	Quarterly Site Inspection
02/05/07	Quarterly Site Inspection
05/15 through 06/07/07	Annual Comprehensive Site Inspection

Overall, the inspections found the facilities to be properly implementing the required BMPs. SDIA SWMP BMP SC-7 - Outdoor Storage of Significant Materials was the only BMP found to be implemented improperly. Based on the inspection program, the Authority determined that the BMPs listed in the SWMP were adequate, and no additions or modifications were required. No unauthorized discharges to receiving waters were identified during commercial activity inspections in FY06-07.

COMPLIANCE AND ENFORCEMENT ACTIONS

The Authority's inspection program found that tenant commercial activities were generally in compliance with the SWMP. Only one operation was found to be improperly implementing the required relevant commercial BMPs. The operator was issued a written notice detailing the concern regarding BMP implementation identified by the Environmental Affairs Department during the inspection. The notice requested corrective action and written response within a specific time-frame, and provided information on the proper implementation the particular BMP required for their activities. The concern identified during the inspection is listed in Table 4-3 below. The item was addressed satisfactorily and no further enforcement actions were initiated. There were no further enforcement actions taken during FY05-06.

Table 4-3. Commercial Operation Compliance Concerns Identified during Site Inspections and Dates of Resolution

Operation	Compliance Issue(s)	Type & Date of Notice	Date of Resolution
SPC Airport Services, Inc.	Improper storage of materials.	Written - 05/31/07	06/11/07

REVISIONS TO THE SWMP

The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

5 Residential Component of Existing Development

As stated several times in the SDIA SWMP (specifically, in the Executive Summary, Section 5.2, and Appendix A), as well as the Introduction to this Annual Report, there are no residential land uses or activity areas within the Authority's jurisdiction. For this reason and consistent with the previous Annual Report, the FY06-07 Annual Report contains no discussion of activities conducted by the Authority relative to the Residential Component of the Municipal Permit.

Please note, however, that both the SDIA SWMP and Annual Reports discuss issues relative to the general public under the Education and Public Participation components (Chapters 9 and 10 of this report).

6 Land Use Planning for New Development and Redevelopment Component

The Municipal Permit requires that the Authority land use planning policies, principles, and processes support efforts to minimize the short- and long-term impacts of land development activities on receiving water quality. The Municipal Permit requires evaluation of the SDIA Master Plan and modification of the development project approval process and environmental review process, as necessary, to reduce pollutants and runoff flows from development and redevelopment projects to the maximum extent practicable. Aspects of the Authority's master planning process and development approval process relevant to stormwater management are outlined in Chapter 4 of the SDIA SWMP. Each of the previous Annual Reports noted that the SDIA Master Plan had not yet been adopted by the Airport Authority Board. The situation remained unchanged during FY06-07: the SDIA Master Plan was not adopted. This chapter of the Annual Report discusses compliance activities relative to land use planning and development/redevelopment activities at the SDIA during FY06-07.

LAND USE PLANNING ACTIVITIES

The Authority Airport Planning Department is responsible for development and implementation of the Airport Master Plan and the environmental review processes required by the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). The following discussion builds upon the information presented in previous

Annual Reports and outlines events conducted by the Authority during this reporting period related to the continuing development and public review of the Airport Master Plan. As noted in earlier Annual Report, there are five primary steps to the Airport Master Plan process and on June 6, 2005, the Authority Board adopted a resolution authorizing staff to begin the last step, specifically, the preparation of an implementation plan for the SDIA Airport Master Plan and initiation of the environmental review processes in accordance with the California Environmental Quality Act (CEQA).

The Airport Master Plan, which guides the future development of SDIA, consists of two key components. The first is the Airport Land Use Plan and the second is implementation of specific projects contained in the Airport Master Plan, called the Airport Implementation Plan. The Airport Land Use Plan depicts the boundaries of SDIA and describes existing and proposed land uses and future planning areas. The Airport Land Use Plan will describe four general categories of land use on the airport: airfield, terminal, ground transportation and airport support. For the Airport Land Use Plan, the Authority will describe programs for airport uses, request programmatic approvals and will follow with future project specific environmental consideration. The Airport Implementation Plan is intended to provide project-level approvals for those elements that are to be developed at this time. The Authority has identified specific physical improvements at SDIA to allow the airport to effectively continue its mission of serving San Diego's commercial air transportation needs as currently forecasted.

Adoption of the Airport Master Plan by the Authority Board requires compliance with the California Environmental Quality Act (CEQA). To that end, on September 19, 2005, the Authority released a Notice of Preparation (NOP) for a Draft Environmental Impact Report (EIR) for the Airport Master Plan (the airport land use plan and implementation plan) for San Diego International Airport. On January 13, 2006, the Authority released a Revised NOP for a Draft EIR for the Airport Master Plan. The NOP was revised to explain project elements that been added to the Implementation Plan portion of the Master Plan. On May 22, 2006, the Authority released the Draft EIR for public review and comment for a 120-day period through September 18, 2006. The Draft EIR noted that hydrology, water quality, and urban runoff impacts could all be mitigated.

The Draft EIR released in May 2006 limited environmental consideration to those forecast through the year 2015. Significant public comment suggested that the Draft EIR should consider potential environmental impacts to regional transportation through the year 2030, since much of the regional transportation planning uses 2030 as a planning horizon. In response to these comments, on December 4, 2006, the Airport Authority Board directed staff to prepare a Final EIR that addressed all comments received and to provide projected traffic and other associated transportation impacts through the year 2030. However, on May 3, 2007, the Airport Authority Board directed staff to include two new alternatives into the EIR. The inclusion of these alternatives would require revising and re-issuing the Draft EIR - and preclude the need for the Final EIR requested by the Airport Authority Board in December of 2006. By the end of the FY06-07 reporting period, a revised Draft EIR had not yet been released.

The certification of a Final EIR and the subsequent adoption of the Airport Master Plan will ensure that a responsible planning and mitigation program will be implemented at SDIA that considers the full range of development possibilities, cumulative impacts, and mitigation opportunities related to water quality and stormwater runoff pollution prevention.

SUSMP IMPLEMENTATION AND POST-CONSTRUCTION BMPS

The Authority Standard Storm Water Mitigation Planning (SUSMP) process is outlined in Section 4.2.2 and Appendix C of the SWMP. The only development project subject to the SUSMP requirements during FY06-07 was Capital Improvement Project (CIP) #3057 - Installation of the Engineered Materials Arresting System (EMAS) within the Runway Safety Area. An area of crushable material located at the west end of the runway, the EMAS is designed to decelerate and arrest an aircraft that has overrun the runway. Since construction of the EMAS Project began in May of 2006, it was previously discussed in this same section of the FY05-06 Annual Report.

The Authority SUSMP process as applied to the EMAS Project required preparation of an Urban Storm Water Mitigation Plan (USWMP) by a civil engineer registered in the State of California. The EMAS Project USWMP was submitted to and approved by the Authority Environmental Affairs Department. The site design, source control, and treatment control BMPs recommended by the USWMP were incorporated into the project. The

USWMP found that there were no primary pollutants of concern (POCs) associated with the project and that the secondary POCs were total aluminum, total and dissolved copper, total iron, TSS, and total zinc. The EMAS Project USWMP further determined that the most significant secondary POCs were copper and zinc. Table 6-1 presents a description of the project and the site design, source control, and treatment control BMPs that were incorporated into the project.

Table 6-1. SDIA Development/Redevelopment Projects Subject to SUSMP during FY06-07

Project Name and Description	Site Design and Post-Construction BMPs	Project Status During FY06-07
CIP Project #3057 - Installation of Engineered Materials Arresting System (EMAS) within the Runway Safety Area. Installation of approximately 2.25 acres of crushable pavement designed to decelerate and arrest an aircraft that has overrun the runway. The EMAS Project area covered approximately 10 acres and included the relocation of existing radio antennas and lighting structures. The EMAS itself has a total paved area footprint of 250 feet wide by 395 feet long to accommodate the 315-foot by 218 foot EMAS. The installation also required the abandonment of existing drainage facilities and the installation of a new 12-inch drainage line on the north side of the EMAS, connecting a new catch basin to an existing 18-inch storm drain, as well as a new drainage line on the south side of the EMAS that connects to an existing 54-inch storm drain.	Site Design - Strict safety guidelines outlined by the Federal Aviation Administration limited the area available for site design BMPs. The location and nature of the EMAS project further limited incorporation of extensive site design BMPs. As a result of these limitations, site design BMPs were not considered economically or technically practicable. However, existing vegetation was not disturbed in order to minimize clearing and exposure of sediment and soil. Since the EMAS installation project redevelops an already developed area, runoff characteristics did not change significantly from pre-project conditions. Source controls - BMPs were selected from those listed in the Authority's SWMP. The applicable source control BMPs implemented following construction of the EMAS include: 1) non-stormwater management; 2) employee training; 3) outdoor wash-down and sweeping; 4) storm drain maintenance; 5) housekeeping; 6) spill prevention, control, and cleanup; and 7) legacy soil contamination management. Treatment controls - The same site limitations associated with site design BMPs resulted in selection of drainage or catch basin filter inserts as the most economically and technically practicable treatment control BMP.	Continued from June 2006 and completed October 2007

In response to the RWQCB staff comment to "please provide a status report on the progress of the Installation of Engineered Materials Arresting System (EMAS), and a projected completion date for the project" (The October 31, 2007 RWQCB Review Letter), the Authority reports that the construction of the EMAS Project began in May of 2006, continued into the FY06-07 reporting period, and was finally completed in October of 2007 (as shown in Table 6-1).

REVISIONS TO THE SWMP

There are no revisions to the Land Use Planning for New Development and Redevelopment Component portions of the SWMP. The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

7 Construction Component

Construction activities at SDIA are subject to the Construction Component of the Municipal Permit, whether conducted by the Authority or airport tenants. These activities and the stormwater management controls placed on them are outlined in Chapter 5 of the SDIA SWMP. This section of the Annual Report discusses construction activities at SDIA during FY06-07.

SOURCE IDENTIFICATION AND PRIORITIES (INVENTORY)

There were 8 construction projects at SDIA during the reporting period that required the implementation of storm water management controls. All other construction activities were conducted either entirely indoors or without elements that required the implementation of BMPs. All 8 projects were initiated by the Authority (none by airport tenants). The 8 projects subject to the Construction Component requirements of the Municipal Permit are listed in Table 7-1 below.

The Authority determined that all 8 projects were medium threats to water quality in accordance with the Municipal Permit. The October 31, 2007 RWQCB Review Letter noted that the EMAS Project should be designated as a high, and not medium, threat to water quality, since the EMAS Project USWMP determined that the secondary pollutants of concern were copper and zinc (see discussion in Section 6 above) and "the northern section of San Diego Bay is known to be an impaired water body for copper." Nevertheless,

Table 7-1. SDIA Construction Projects - FY06-07

#	Sponsor	Project Name	Project Description	Status during FY06-07
1	Authority	CIP #3057 EMAS	Improve runway safety area by upgrading the instrument approach and installing an Engineered Materials Arresting System.	Continued from June 2006 and completed October 2006
2	Authority	CIP #3056A Reseal PCC Joints	Pavement and joint repair for airfield pavement including taxiway, runway, and aprons.	Continued from June 2006 and completed November 2006
3	Authority	CIP #4024 Resurface Runway 9/27 and Taxiway B	Resurface runway and taxiway, rehabilitate centerline and touchdown zones lighting systems.	Started July 2006 and completed November 2006
4	Authority	CIP #3096I T1E 100% Baggage Screening	Construct structural canopy and baggage conveyor system in Terminal 1 East.	Continued from June 2006 and completed December 2006
5	Authority	CIP #3060A Replace ARFF Bay Doors	Construct support wall, widen door spaces, and install new doors at the ARFF station.	Continued from June 2006 and completed March 2007
6	Authority	CIP #4023 Rehabilitate Parking Lot #6	Resurface, reseal, repave, and restripe employee Parking Lot #6 Harbor Island.	Started December 2006 and completed March 2007
7	Authority	CIP #4027/4032 Install Elevator/ Reconfigure Checkpoint 3	Install elevator at Terminal 1 East and reconfigure Checkpoint 3 at Terminal 1 West.	Started in February 2007 and continued through June 2007
8	Authority	CIP #3078 Paint Terminal 1 & Terminal 2 Pedestrian Bridges	Resurface and repaint pedestrian bridges and pavilions.	Started in April 2007 and continued through June 2007

we continue to identify the EMAS Project as a medium threat to water quality in this Annual Report since the 303(d) List used in the EMAS Project USWMP was the list that had been officially approved by the USEPA at the time the threat to water quality determination, namely, the 2002 303(d) List (the 2006 303(d) List not being approved until June 28, 2007). The 2002 303(d) List identifies only "San Diego Bay, Shelter Island Yacht Basin" (with an estimated size of affected area to be only 153 acres) to be impaired for dissolved copper. Stormwater runoff from the area of the EMAS Project drains into the Navy Channel portion of San Diego Bay, well away from the Shelter Island Yacht Basin. The threat to water quality determination is now really a mute point since the project was completed in October of 2006, well before receipt of the October 31, 2007 RWQCB Review Letter.

BMP IMPLEMENTATION AND POLLUTION PREVENTION

All construction activities at SDIA are subject to the SDIA SWMP and are required to implement the BMPs relative to these activities discussed in Chapter 5 of the SWMP, including the generally applicable pollution prevention measures. These BMP requirements and pollution prevention measures were discussed, as necessary, with Authority staff and the construction contractors performing the work during inspections and regularly-scheduled (typically weekly) progress meetings.

SUMMARY OF INSPECTIONS

During the reporting period, the Environmental Affairs Department conducted regular inspections of all construction projects listed in Table 7-1. Inspections were typically conducted on a weekly basis during both the wet and dry seasons. All areas of construction activity, the sources of stormwater pollution, and the adequacy and effectiveness of the BMPs being implemented were visually inspected. Inspectors also investigated the sites for evidence of existing or potential unauthorized discharges.

Table 7-2 shows the 8 construction projects inspected during the fiscal year, the corresponding threat to surface water quality prioritization, and the dates of inspection. A total of 170 inspections were conducted during FY06-07.

Along with the regular site inspections, the Environmental Affairs Department also participated in pre-construction meetings and regularly-scheduled (typically weekly) construction progress meetings. These meetings allow the Environmental Affairs Department to reinforce storm water pollution prevention principles and to discuss the BMPs specific to the project. The Environmental Affairs Department participated in a total of 94 construction project-related meetings during FY06-07.

In addition to inspections and meeting attendance by the Environmental Affairs Department, the Facilities Development Department (FDD - responsible for project management) has dedicated inspection staff on site for each project every day of construction activity. The FDD construction inspectors are familiar with proper storm water BMP implementation and are trained to raise immediate stormwater concerns with the construction contract site supervisor. Stormwater concerns that require additional follow-up are brought to the attention of the Environmental Affairs Department.

Table 7-2. Construction Activity Inspections at SDIA during FY06-07

#	Project Name	Water Quality Threat Priority	Inspection Dates		
1	CIP #3057 - EMAS	Medium	July 5, 2006 July 12, 2006 July 14, 2006 July 21, 2006 July 28, 2006 August 18, 2006 August 25, 2006	August 28, 2006 August 30, 2006 September 6, 2006 September 8, 2006 September 12, 2006 September 13, 2006 September 20, 2006	September 22, 2006 October 2, 2006 October 5, 2006 October 19, 2006 October 25, 2006 November 9, 2006
2	CIP #3056A - Reseal PCC Joints	Medium	July 5, 2006 July 7, 2006 July 12, 2006 July 14, 2006	July 21, 2006 August 1, 2006 August 2, 2006 August 4, 2006	August 7, 2006 August 18, 2006 August 25, 2006 September 6, 2006
3	CIP #4024 Resurface Runway 9/27 and Taxiway B	Medium	July 9, 2006 July 12, 2006 July 18, 2006 July 24, 2006 July 28, 2006 August 3, 2006	August 8, 2006 August 9, 2006 August 16, 2006 August 25, 2006 September 13, 2006 September 22, 2006	October 2, 2006 October 5, 2006 October 19, 2006 November 27, 2006
4	CIP #3096I T1E 100% Baggage Screening	Medium	July 7, 2006 July 14, 2006 July 18, 2006 August 1, 2006 August 2, 2006 August 4, 2006 August 7, 2006 August 8, 2006 August 15, 2006 August 22, 2006 August 25, 2006 August 28, 2006 August 30, 2006 September 5, 2006 September 6, 2006 September 7, 2006 September 8, 2006 September 12, 2006	September 13, 2006 September 18, 2006 September 22, 2006 October 2, 2006 October 9, 2006 October 12, 2006 October 17, 2006 November 1, 2006 November 3, 2006 November 6, 2006 November 20, 2006 November 21, 2006 November 22, 2006 November 27, 2006 November 29, 2006 November 30, 2006 December 4, 2006 December 12, 2006	December 18, 2006 December 20, 2006 December 27, 2006 December 28, 2006 January 2, 2007 January 8, 2007 January 9, 2007 January 16, 2007 January 22, 2007 January 31, 2007 February 2, 2007 February 6, 2007 February 8, 2007 February 12, 2007 February 16, 2007 February 20, 2007 February 23, 2007

Table 7-2. Construction Activity Inspections at SDIA during FY06-07 (continued)

#	Project Name	Water Quality Threat Priority	Inspection Dates		
5	CIP #3060A Replace ARFF Bay Doors	Medium	July 12, 2006 July 24, 2006 August 1, 2006 August 4, 2006 August 7, 2006 October 2, 2006 October 5, 2006 October 19, 2006 October 25, 2006	October 31, 2006 November 9, 2006 November 22, 2006 November 29, 2006 December 8, 2006 December 15, 2006 December 28, 2006 January 5, 2007 January 18, 2007	January 25, 2007 February 1, 2007 February 7, 2007 February 16, 2007 February 23, 2007 March 2, 2007 March 6, 2007 March 12, 2007
6	CIP #4023 Rehabilitate Parking Lot #6	Medium	January 16, 2007 January 18, 2007 January 23, 2007 January 25, 2007 January 26, 2007	February 1, 2007 February 14, 2007 February 20, 2007 February 23, 2007 February 5, 2007	March 2, 2007 March 5, 2007 March 12, 2007
7	CIP #4027/4032 Install Elevator/ Reconfigure Checkpoint 3	Medium	March 2, 2007 March 19, 2007 April 3, 2007	April 18, 2007 May 7, 2007 May 14, 2007	May 22, 2007 June 12, 2007 June 19, 2007
8	CIP #3078 Paint Terminal 1 & Terminal 2 Pedestrian Bridges	Medium	April 5, 2007 April 10, 2007 April 17, 2007 April 18, 2007 April 26, 2007 April 27, 2007 May 1, 2007	May 7, 2007 May 16, 2007 May 10, 2007 May 11, 2007 May 18, 2007 May 29, 2007 May 31, 2007	June 4, 2007 June 5, 2007 June 12, 2007 June 14, 2007 June 20, 2007 June 27, 2007 June 28, 2007

The Environmental Affairs Department continues to provide stormwater pollution prevention training to construction project managers, developers, and contractors, both on site and during project meetings. The results of the inspections were discussed with the construction contract site supervisor, typically at the end of each inspection and again during regular progress meetings. When necessary, inspectors required corrective actions and/or modification to the BMPs being employed on the project.

Table 7-3 identifies the construction activities for which BMPs were not properly implemented. Poor housekeeping and poor materials/waste management were the issues of concern most frequently identified. These concerns were also indentified in both the FY04-05 and FY05-06 Annual Reports. Both of these issues require constant attention from construction site supervisors. While concrete waste management was not identified as frequently as other material and waste management concerns during site inspections, concrete waste management and storm drain inlet protect also require the constant attention of construction site supervisors and inspectors.

The construction oversight conducted by the Environmental Affairs Department generally found these 8 projects to be in substantial compliance with the requirements of the SDIA SWMP and the Municipal Permit Construction Component. In general, all the issues and concerns identified during inspections were corrected as soon as they were brought to the attention of the construction contract supervisor. No unauthorized discharges to receiving waters were identified during construction site inspections in FY06-07.

Table 7-3. Types of Construction Activity for which BMPs Were Most Frequently Not Properly Implemented as Determined During Site Inspections - FY06-07

Construction Activity	BMPs Required in SDIA SWMP*
Materials not properly managed or stored	WM-1 Material Delivery and Storage
Solid waste not properly managed or stored	WM-5 Solid Waste Management

* As noted in the SDIA SWMP, required Construction BMPs are generally those listed in the CASQA California Stormwater Best Management Practice Handbook for Construction Activity.

COMPLIANCE AND ENFORCEMENT ACTIONS

The issues noted in Table 7-3, identified during site inspections, were generally resolved through verbal communication with the construction contract site supervisor in the field and at weekly progress meetings. The Environmental Affairs Department did not issue any written notices for stormwater violations at construction sites during FY06-07.

EDUCATION FOCUSED ON CONSTRUCTION ACTIVITIES

The Authority's efforts during FY06-07 to provide focused education to construction project managers, developers, and contractors regarding stormwater management concerns and construction activities are discussed in Chapter 9 - Education.

REVISIONS TO THE SWMP

There are no revisions to the Construction Component of the SWMP. The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

8 Illicit Discharge Detection and Elimination Component

Chapter 7 of the SWMP describes the illicit discharge detection and elimination (IDDE) program conducted by the Authority. The Authority has established the following program elements to detect illegal discharges: a) routine visual inspections of the entire airport and the MS4; b) implementation of a dry weather monitoring program; and c) public reporting mechanisms. The program is designed to be adaptive and allow for: a) periodic assessment of the data and information collected; b) re-evaluation of areas of concern; and c) implementation of clean-up and/or enforcement efforts, as necessary. This chapter of the Annual Report outlines IDDE program activities conducted during FY06-07.

SITE-WIDE AND MS4-SPECIFIC INSPECTION ACTIVITIES

In order to ensure the health and safety of the 17 million plus members of the traveling public that pass through SDIA annually, the airport facilities are under constant visual and electronic surveillance by several different Authority Departments, including Airside Operations, Landside Operations, and Airport Security and Public Safety. SDIA is under 24-hour surveillance due in large part to the heightened security measures put in place after September 11, 2001. The concerns for safe operation of the facilities and early detection of suspicious activity mean virtually every action is subject to visual observation and reporting, including any activity or incident that may be an environmental or stormwater management concern, such as a fuel spill during aircraft fueling operations or an overfilled trash can in the parking lot.

The constant surveillance at SDIA includes the routine daily inspections of the airport terminals, runways, and airside operations by the Airside Operations Supervisors. These inspections are one element of the IDDE program, since any environmental issues are both reported to the Environmental Affairs Department and captured in the SDIA daily log. The remaining elements of the IDDE program at SDIA are conducted by the Environmental Affairs Department.

The Environmental Affairs Department conducts monthly inspections of the entire facility and the above-ground portions of the MS4 during the wet season (October 1 - May 31). These inspections are designed to identify unauthorized stormwater discharges and to ensure that BMPs are being implemented properly and operating as designed. The Environmental Affairs Department also conducts visual observations of non-stormwater discharges on a quarter-annual basis.

Taken as a whole, the surveillance and inspection activities represent the site-wide and MS4-specific inspection elements of the IDDE program at SDIA. The information in Table 8-1 highlights the regular inspection activities conducted by the Environmental Affairs Department during the reporting period.

DRY WEATHER MONITORING PROGRAM

The Authority has developed a Dry Weather Monitoring Program in compliance with the Municipal Permit to characterize dry weather flows at the SDIA, to eliminate illicit connections and illegal discharges, and to help identify pollutants of concern. The Authority's dry weather monitoring program utilizes monitoring, sample analysis, and data interpretation procedures consistent with those developed by the Copermittees. The program features designated monitoring locations and frequencies, field screening/sampling procedures, data interpretation techniques, and follow-up investigation and reporting procedures. The Permit requires the Authority to perform dry weather monitoring at least once between May 1 and September 30 each year. However, over the last two seasons, the Authority has increased the number of monitoring events to 3 each season and has timed these events to coincide with dry weather sampling being conducted by the Port of San Diego and the City of San Diego on the same day.

Table 8-1. IDDE MS4 Inspection and Monitoring Conducted During FY06-07

Date	Inspection Element
07/13/06	Dry Weather Monitoring
07/13/06	Quarterly authorized/unauthorized non-stormwater discharge monitoring
08/10/06	Dry Weather Monitoring
10/09/06	Quarterly authorized/unauthorized non-stormwater discharge monitoring
10/14/06	Monthly Wet Weather Monitoring - sample collected
11/14/06	Monthly Wet Weather Visual Observations
11/27/06	Monthly Wet Weather Visual Observations
12/16-17/06	Monthly Wet Weather Monitoring - sample collected
01/30/07	Monthly Wet Weather Visual Observations
02/05/07	Quarterly authorized/unauthorized non-stormwater discharge monitoring
02/27/07	Monthly Wet Weather Visual Observations
03/21/07	Monthly Wet Weather Visual Observations
04/12/07	Monthly Wet Weather Visual Observations
04/20/07	Monthly Wet Weather Visual Observations
05/15/07	Quarterly authorized/ unauthorized non-stormwater discharge monitoring
05/21/07	Dry Weather Monitoring
05/22/07	Dry Weather Monitoring (follow-up)
06/18/07	Dry Weather Monitoring

The Authority has implemented a dry weather monitoring program since 2003. The program originally started with four dry weather monitoring locations, but has since expanded to ten locations in FY06-07. Over the past four years, the dry weather monitoring program has been continuously evaluated and improved to represent the land use activities at the Airport. The Authority now follows a Storm Water Sampling Plan (Sampling Plan), prepared in November of 2005, which provides a framework for both the wet weather and dry weather programs at the airport. The November 2005

Sampling Plan provides greater statistical power in the interpretation data and the assessment of long-term program effectiveness. The new sampling program outlined in the November 2005 Sampling Plan was first implemented for dry weather monitoring during FY06-07.

There were 14 dry weather monitoring stations at the Airport during the reporting period, a reporting period that included portions of two dry seasons: the months of July, August, and September of 2006 (FY06 Dry Season) and the months of May and June of 2007 (FY07 Dry Season). The dry weather monitoring stations are evaluated and adjusted, if needed, at the beginning of each dry season to ensure that land use and other operational activities are properly evaluated and represented. As such, although only 10 locations were monitored in each Dry Season, there was a total of 14 sites monitored during the FY06-07 monitoring program, since a) the locations of 2 sites were 'revised/relocated" between Dry Seasons, and b) 2 sites from the FY06 Dry Season were dropped and replaced with 2 new sites in the FY07 Dry Season. In total, there were four scheduled dry weather monitoring events during FY06-07: 1) July 13, 2006; 2) August 10, 2006; 3) May 21, 2007; and 4) June 18, 2007. There was also one follow-up sampling event conducted on May 22, 2007, in response to the results of the dry weather monitoring event conducted the day before.

Each monitoring station Site ID has the format C-BXX-X, where: C denotes "compliance sampling" in accordance with the Municipal Permit; B denotes the drainage basin number in which the site is located (-BXX-); and the last number is the site number (-X). Site numbers ending in "A" are alternate sites for use when salt water intrusion has been identified at a primay monitoring site. Site numbers ending in "R" indicate that the location was revised/replaced between dry seasons. Samples were taken at all sites with flowing or ponded water. Conductivity was the first field parameter measured. If the specific conductance of the sample was high enough to suggest that the sample was likely seawater, then the sample was not subjected to additional field screening or laboratory analysis. The field data sheets and analytical data reports for the FY06-07 dry weather monitoring program are presented in Appendix A. The results of the FY06-07 program are discussed below.

Site C-B01-1 - the site was dry and there was no evidence of surface runoff to the site during the two monitoring events conducted in the FY06 Dry Season. Ponded water was present at the site during the two monitoring events conducted in the FY07 Dry Season. The water was observed to have a yellow color each time, although all field analyses results were below the action levels. Laboratory analyses showed that copper concentrations exceeded the action level each time, and zinc concentrations exceeded the action level on only the first of the two occasions. There was no evidence of an illegal discharge in the vicinity and no up stream sources identified. The laboratory results for copper and zinc are consistent with the results of the Authority's wet weather sampling program.

Site C-B03-2 - ponded water was present at the site during all four monitoring events. High levels of conductivity suggested the water resulted from seawater intrusion at the site, so no further field analyses were conducted and no laboratory analyses were performed.

Site C-B04-9 - ponded water was present at the site during the two monitoring events conducted in the FY06 Dry Season. High levels of conductivity each time suggested the water resulted from seawater intrusion, so no further field analyses were conducted and no laboratory analyses were performed.

Site C-B04-9A - is the alternate to C-B04-9 and located approximately 25 feet from Site C-B04-9. As the alternate, this site is monitored if and when the water present at Site C-B04-9 is determined to be salt water. Each time salt water was found at Site C-B04-9 during the FY06 Dry Season, salt water was also found at site C-B04-9A. For these reasons, Sites C-B04-9 and C-B04-9A were both removed from the dry weather monitoring program at the beginning of the FY07 Dry Season.

Site C-B05-3 - the site was dry and there was no evidence of surface runoff to the site during the two monitoring events conducted in the FY06 Dry Season.

Site C-B05-3R - this site is the replacement site for C-B05-3. The site was adjusted at the start of the FY07 Dry Season after further evaluation of the site location and drainage area. Site C-B05-3R is located in the middle of a large gravel parking lot on the north side of the airport property. A water truck is employed daily during the dry season to control dust at the parking lot. During the May 21, 2007 monitoring event, there was very shallow water ponded at the bottom of the catch basin sample point. There was not a sufficient volume to take a sample for laboratory analysis, but there was enough for field screening. The sample did not exceed any action levels during field screening. During the June 18, 2007 monitoring event, there was very shallow water ponded in the catch basin, but there was not enough volume to take a sample for field or laboratory analysis.

Site C-B05-4 - the site was dry and there was no evidence of surface runoff to the site during all four monitoring events conducted in FY06-07.

Site C-B06-5 - ponded water was observed during the July 13, 2006 monitoring event, however, the high level of conductivity suggested seawater intrusion at the site, so no further field analyses were conducted and no laboratory analyses were performed. The site was dry during the other 3 monitoring events conducted in FY06-07.

Site C-B07-6 - the site was dry and there was no evidence of surface runoff to the site during the two monitoring events conducted in the FY06 Dry Season.

Site C-B07-6R - this site is the replacement site for C-B07-6. The site was adjusted at the start of the FY07 Dry Season after further evaluation of the site location and sampling point. Located approximately 20 feet from the old sample location, Site C-B07-6R should provide better opportunities to collect water samples, if and when water is present. However, during the two monitoring events conducted during the FY07 Dry Season, the site was dry and there was no evidence of surface runoff to the site.

Site C-B07-7 - the site was dry and there was no evidence of surface runoff to the site during all four monitoring events conducted in FY06-07.

Site C-B08-8 - the site was dry and there was no evidence of surface runoff to the site during the first monitoring event conducted during the FY06 Dry Season. Ponded water was observed at this site during the August 10, 2006 monitoring event, however, the high level of conductivity suggested seawater intrusion at the site, so no further field analyses were conducted and no laboratory analyses were performed. During both monitoring events conducted during the FY07 Dry Season, enough ponded water was present to allow for both field and laboratory analyses. During the May 21, 2007 monitoring event, the ammonia (NH3-N) concentration equaled the action level of 1.0 mg/L. The sample did not exceed any of the action level for laboratory analytes. A follow-up investigation was performed for ammonia within 24 hours. On May 22, 2007, the ammonia concentration was still at the action level of 1.0 mg/L NH3-N. Additional samples were taken from the MS4 approximately 25 feet east and southwest of the site. On the east side, the ammonia concentration was 2.5 mg/L, and on the southwest side, the ammonia concentration was 1.5 mg/L. There was no surface runoff to the site on either May 21 or May 22, 2007, and there was no evidence of an illegal discharge observed during the follow-up event. Trash and debris was observed in MS4 at the east and southwest locations on May 22, 2007. Two other sample points in the upstream portion of the MS4 which contained ponded water on May 22, 2007, showed high levels of conductivity suggestive of salt water intrusion. Since the laboratory sample collected on May 21, 2007, did not exceed any action levels, it was determined that the trash and debris may be the cause of the ammonia and that the site should be closely evaluated during future dry weather monitoring events. During the final monitoring event of FY06-07, on June 18, 2007, ponded water was again observed at C-B08-8, however, neither the field nor laboratory action levels were exceeded.

Site C-B09-10 - the site added to the dry weather monitoring program at the start of the FY07 Dry Season. While the site was found to have residual moisture during both monitoring events conducted during the FY07 Dry Season, there was no evidence of surface runoff to the site and there was not enough volume to take a sample for either field or laboratory analyses.

Site C-B12-9 - the site was also added to the dry weather monitoring program at the start of the FY07 Dry Season. While the site was found to have ponded water during both monitoring events conducted during the FY07 Dry Season, there was no evidence of surface runoff to the site and there was not enough volume to take a sample for either field or laboratory analyses.

In summary, there were four dry weather monitoring events during FY06-07. The FY06-07 monitoring program included portions of the FY06 Dry Season (July - September) and portions of the FY07 Dry Season (May-June). During the FY06 Dry Season, water was found to be ponded at Sites C-B03-2, C-B04-9, C-B04-9A, C-B06-5, and C-B08-8, however, each time field sampling identified the water as salt water intrusion (from tidal fluctuations in San Diego Bay). During the FY07 Dry Season, water was found to be ponded at Sites C-B01-1, C-B03-2, C-B05-3R, C-B08-8, and C-B12-9. Field sampling identified the water at Sites C-B03-2 as salt water intrusion each time. There was not enough water present to collect samples at Site C-B12-9 on either occasion that water was present.

Table 8-2 lists the stations by Site ID, includes a brief description of the location, indicates on which dates, if any, there was a sufficient volume of water was present to allow sampling (whether field analysis and/or laboratory analyses, once field analyses ruled out the likelihood that the water was the result of salt water intrusion), and notes the potential pollutants of concern identified as a result of sampling and analysis.

During the FY07 Dry Season, there were 3 sites at which a sufficient volume of water was present to allow sampling, once field analyses ruled out the likelihood that the water was the result of salt water intrusion. Field sampling of the ponded water at Site C-B01-1 did not exceed action levels on either of the two occasions on which it was found. Laboratory analyses of the ponded water collected at Site C-B01-1 each time reported that copper concentrations exceeded the action level each time, and zinc concentrations exceeded the action level on one occasion. There was no evidence of illegal discharge in the vicinity of Site C-B01-1. The laboratory results suggesting copper and zinc as potential pollutants of concern are consistent with the results of the Authority's wet weather sampling program. Field sampling of the ponded water at Site C-B05-3R did not exceed action levels on the one

Table 8-2. Dry Weather Monitoring Program Sample Sites during FY06-07

Site ID	Site Description	Date(s)with sufficient water to sample	Type of Analyses (S, F, L)*	Potential Pollutant(s) of Concern Identified
C-B01-1	Inlet inside zipper line, south of FBO, north of runway	5/21/07	F, L	Cu, Zn
		6/18/07	F, L	Cu
C-B03-2	Inlet inside zipper line, south of runway, near B1-D sign	7/13/06	S	
		8/10/06	S	
		5/21/07	S	
		6/18/07	S	
C-B04-9	Inlet outside fence, near beacon, near Laurel Street.	7/13/06	S	
		8/10/06	S	
C-B04-9A	Concrete channel south of C-B04-9	7/13/06	S	
		8/10/06	S	
C-B05-3	Inlet within the rental car holding lot			
C-B05-3R	Inlet within the rental car holding lot	5/21/07	F	
C-B05-4	Inlet, south of runway, north of generator yard			
C-B06-5	Inlet southeast of control tower	7/13/06	S	
C-B07-6	Inlet west of oil-water separator in cargo area			
C-B07-6R	Inlet pipe, manhole west of o/w separator in cargo area			
C-B07-7	Inlet south of cargo area, west of West Wing			
C-B08-8	Trench northwest of Terminal 1 East, near Gate 8	8/10/06	S	
		5/21/07	F, L	Ammonia
		5/22/07	F	Ammonia
		6/18/07	F, L	
CB09-10	Manhole near Terminal 2 Parking Entrance			
C-B12-9	Inlet in West RON			

* S = sample conductivity suggests salt water and no further analyses conducted.
F = field analyses
L = laboratory analyses

occasion on which it was found, and there was an insufficient volume of water present to allow for collection of a sample that could be sent for laboratory analysis. And finally, Site C-B08-8 had ponded water on all three occasions the site was monitored (twice in accordance with the program schedule and once as a follow-up to the results of earlier sampling). On the first occasion of dry weather monitoring at this site, field analysis identified the ammonia concentration as equal to the action level of 1.0mg/L, although laboratory analysis did not confirm the exceedance. A follow-up investigation the next day also showed field analysis ammonia concentrations at the site and in the site vicinity above the action level. Since the laboratory analysis did not exceed any action levels, and since trash and debris were observed in the MS4 at this location, it was determined that the trash and debris may be the cause of the ammonia and that the site should be closely evaluated during future dry weather monitoring events. During the final monitoring event of FY06-07, on June 18, 2007, ponded water was again observed at C-B08-8, although neither the field nor laboratory action levels were exceeded. Finally, there were no unauthorized discharges identified as a result of the dry weather monitoring activities conducted in FY06-07.

In the October 31, 2007 RWQCB Review Letter, RWQCB staff requested a "status report regarding the sources of the contaminated ponded water near Site ID 3." To begin, Site ID 3 has been both renamed and relocated. As stated above, the Authority now follows a Sampling Plan that was finalized in November of 2005 and first put into use for the FY05-06 wet season (at is, after the FY05 Dry Season which ran from July to September of 2005 and after the final collection of dry weather monitoring samples from Site ID 3). The November 2005 Sampling Plan has changed the sample site identification nomenclature to the format C-BXX-X noted above. Furthermore, as was also noted above, the dry weather monitoring stations are evaluated and adjusted, if needed, at the beginning of each dry season to ensure that land use and other operational activities are properly evaluated and represented. Such was the case for location of what was Site ID 3. For these two reasons, Site ID 3 has been renamed and relocated.

Nevertheless, the Authority can provide a status report on the potential sources of contaminated ponded water similar to Site ID 3, since Site C-B08-8 now represents the same land uses and operational activities.

The similarities between what was Site ID 3 and what is now Site C-B08-8 include: 1) the type of MS4 structure at each location, namely, a slit trench; 2) the location of each in relation to the terminal and gate areas; 3) the types of activities which occur in proximity to each sample site, namely, aircraft parking, loading/unloading, fueling, and lavatory waste management. The summary of dry weather monitoring conducted at Site ID 3, as detailed in the FY05-06 Annual Report, noted that both field and laboratory data indicated exceedances for ammonia and conductivity, just as reported for Site C-B08-8 above. As stated in the FY05-06 Annual Report, there was no evidence of an illegal discharge in the vicinity of Site ID 3 and no one apparent source of contaminants. Again, similar to the discussion of Site C-B08-8 above. Possible sources of contaminants at Site ID 3 remain the same as those discussed in the FY05-06 Annual report and the discussion of Site C-B08-8 above. For these reasons, the close evaluation proposed for future dry weather monitoring efforts of the water that ponds in the slit trenches near the gate areas will include a special investigation at the beginning of the FY08 Dry Season, as was initially suggested in the summary of the dry weather monitoring program in the FY05-06 Annual Report.

PUBLIC REPORTING - COMPLAINT HOTLINES

The Authority continues to exercise and promote the mechanisms available to staff, tenants, and the general public for reporting complaints or concerns regarding unauthorized stormwater discharges as described in Section 7.7 of the SDIA SWMP. There are four primary mechanisms available for reporting complaints or concerns: the Airside Operations Department 24-hour telephone line (619-400-2710); the Environmental Affairs Department main telephone line (619-400-2782) and webpage; the Project Clean Water regional hotline (888-846-0800) and webpage operated by the County of San Diego; and the THINKBLUE Hotline (888-844-6525) and webpage operated by the City of San Diego.

The two regional hotline efforts of the Municipal Copermittees, Project Clean Water and THINKBLUE, are designed to provide publicly reported illicit discharge information to the appropriate jurisdictions, such as the Authority. In turn, the Authority promotes both Project Clean Water and THINKBLUE at outreach and training events. The Authority also promotes the THINKBLUE public service announcements on television screens at the baggage claim areas in Terminal 2 West.

The Airside Operations Department 24-hour telephone number functions as a hotline for tenants and SDCRAA staff to report stormwater pollution concerns. This telephone number is promoted to tenants and staff by including the telephone number on the back of all required Airport Security ID badges. The general public is also redirected to this number anytime they pick up an airport white courtesy phone located throughout the airport terminals. Most of the unauthorized stormwater discharge issues that require notification or response of any kind are initially reported to the Airside Operations Department 24-hour telephone line. Each call is logged and directed to the appropriate department for immediate response. While the Environmental Affairs Department need not always be contacted directly for response actions, the Environmental Affairs Department monitors the log as part of the SWMP IDDE program.

Appendix B presents information on the 220 IDDE events reported to either the Authority's 24-hour telephone line or directly to the Environmental Affairs Department during the reporting period. The Environmental Affairs Department classified each incident into one of the 8 categories shown in Table 8-3. The most frequently reported types of incidents were trash or non-petroleum spills that occurred on the airside. The "trash or non-petroleum spill on the airside" IDDE category has been the most frequently reported issue for 3 of the last 4 fiscal years (being the second most frequently reported issue in the other year). One possible explanation for this trend is the fact that trash and debris on the airside are a serious threat to the safe operation of a jet engine, and therefore, people working on the airside are keenly aware of issues involving trash and debris. Another reason for the trend is that 2 of the 4 Solid Waste Disposal Areas are on the airside, which increases the chances that a "trash or non-petroleum spill" will occur on the airside. It should be noted that "pest management issues" recorded in the IDDE log generally involve the appropriate application of pesticides, and not an illicit discharge. Tracking pesticide application events in the IDDE log is another mechanism used by the Authority to monitor pesticide use and to promote integrated pest management, thus limiting the quantities of pesticides and herbicides at SDIA. The nature and disposition of all 222 IDDE incidents noted in Table 8-3 are presented in Appendix B.

Table 8-3. Summary of IDDE Incidents by Category as Reported during FY06-07*

Incident Category	Number of Incidents
Trash or non-petroleum spill on the airside	81
Trash or non-petroleum spill on the landside	49
Pest management issue	39
Petroleum spill on the airside	30
Petroleum spill on the landside	7
Unauthorized discharge	7
Sewage issue	6
Construction project issue	1

* - See Appendix B for detailed description of each incident.

In addition to the Airside Operations Department 24-hour telephone line, the Authority webpage also provides another mechanism for staff, tenants, and the general public to contact the Environmental Affairs Department regarding stormwater concerns. The webpage provides background information on the SDIA SWMP, the IDDE program, and both telephone numbers and email addresses for the Environmental Affairs Department.

SANITARY SEWAGE - ISSUES AND RESPONSE

Section 7.9 of the SDIA SWMP identifies those controls that the Authority has implemented to limit infiltration from the sanitary sewer system into the stormwater conveyance system and to prevent and respond to sewage spills. As noted in Table 8-3 above and as detailed in Appendix B, there were 6 IDDE incidents related to sewage at SDIA during the reporting period. Two of these incidents involved the triturator which is part of the sewage disposal system used to discharge aircraft waste into the City of San Diego Metropolitan Waste Water Department sewer system. The triturator is housed in a covered and bermed building in order to ensure that no sewage is discharged outside the actual sewer connection point. Sewage is emptied from the aircraft into mobile lavatory trucks and then into the sewer system at the triturator via a connection hose. Of the 2 IDDE incidents at the triturator: one involved a mechanical problem with the connection hose; and

ther other involved a spill that had breached the containment berm on March 12, 2007. The spill was cleaned up and no storm drains were impacted. One of the 6 IDDE sewage incidents involved a possible leak from a aircraft-lavatory-waste-hauling truck. The spill was immediately cleaned up when brought to the attention of the operator. The 3 remaining IDDE sewage incidents involved sewage spills from the plumbing system in Terminal 2: one on September 5, 2006, and the other two almost simultaneously on January 5, 2007. Each of these spills were addressed immediately, the spills cleaned up, and the problems corrected. None of the 6 IDDE incidents related to sewage impacted the stormwater conveyance system.

INVESTIGATION, FOLLOW-UP, AND ENFORCEMENT

Each of the IDDE incidents listed in Table 8-3 were resolved in the manner noted in Appendix B. Virtually all of the incidents noted in Table 8-3 and described in Appendix B were addressed immediately in the field at the time the incident was reported. Approximately 59% of the incidents listed in Table 8-3 were related to trash and non-petroleum spills on either the airside or the landside. Each of these issues was addressed without impacts to the stormwater conveyance system. Of the 30 petroleum spills on the airside and the 7 petroleum spills on the landside, all but 2 involved less than 20 gallons of petroleum. Each of the 37 petroleum spills was cleaned up immediately, without impacts to the storm water conveyance system, including the 40 gallon spill that occurred on September 8, 2006, and the 400 gallon spill that occurred on Thanksgiving Day, November 23, 2006. As previously noted, the pest management issues actually involved the appropriate application of pesticides, and not an illicit discharge, with the tracking of pesticide application events used as a mechanism to promote integrated pest management. The details and disposition of the 6 sewage issues noted in Table 8-3 are discussed in the Sanitary Sewage - Issues and Response sub-section above. As shown in Appendix B, the 1 construction project issue captured in the IDDE log for FY06-07 was a minor issue that was resolved immediately.

The Authority IDDE program identified 7 incidents as unauthorized discharges during FY06-07, as noted in Table 8-3. Whenever an illicit discharge was detected by any of the Authority IDDE program elements, the Environmental Affairs Department documented the incident, required corrective action, if necessary, and monitored the implementation of any

required corrective actions. The Environmental Affairs Department contacted the responsible parties for each of these 7 incidents to ensure corrective action and provide education on proper procedure to prevent re-occurrance. Four (4) of the unauthorized discharge incidents involved improper management of wash water, 1 incident involved the discharge of water from a leaking heating ventilation and air conditioning (HVAC) pipe, 1 incident involved a trash and liquid spill on the airside, and 1 incident involved an aircraft de-icing fluid discharge. In response to 5 of the 7 unauthorized discharges, the Environmental Affairs Department verbally directed the responsible parties to cease the activity, implement proper BMPs, and cleanup any contaminants as necessary. On October 11, 2006, the Environmental Affairs Department issued a written Notice to Jet Wash for the re-occurrence of the unauthorized discharge of washwater and directed employee training on the proper implementation of BMPs. On October 16, 2006, the Environmental Affairs Department issued a written Notice to American Airlines for the re-occurrence of the unauthorized discharge of trash and liquid, and directed cleanup, where feasible, and employee training on the proper implementation of BMPs. This unauthorized discharge was cleaned up. None of the IDDE incidents that occurred during this reporting period required additional follow-up or enforcement actions beyond those described above.

USED OIL AND TOXIC MATERIALS DISPOSAL

Section 7.8 of the SWMP describes the mechanisms used to facilitate the proper management and disposal of used oil and toxic materials by the Authority. Like the Authority itself, airport tenants are required to dispose of materials through licensed handlers. The Authority provides information to tenants to help facilitate their own disposal needs, when asked or when necessary.

In addition, as first mentioned in Chapter 2 of this report, the Authority hosted a one-day electronic and universal waste collection event on August 11, 2006, that was open to all staff and tenants. The event allowed staff and tenants to relinquish electronic and universal waste (such as batteries and fluorescent light bulbs) for proper recycling or disposal. Table 8-4 lists the hazardous materials disposed of by the Authority during FY06-07, a portion of which includes the universal waste collected at the one-day collection event.

Table 8-4. Hazardous Wastes Disposed of by the Authority during FY06-07

Description of Waste	Total Quantity Disposed
Hazardous Waste, Solid (Debris with flammable liquid)	450 pounds
Asbestos and Non-friable Waste	80 pounds
Waste Flammable Liquid (Paints and Thinners)	135 gallons
Waste Corrosive Inorganic Liquid	3 gallons
Waste Aerosols, Flammable	40 pounds
Non RCRA Hazardous Waste, Solid (Toner, Soil and/or Debris)	2,706 tons
Non RCRA Hazardous Waste, Solid (Oily Debris and/or Diesel)	1,420 pounds
Non RCRA Hazardous Waste Liquid (Water with Hydrocarbons)	50 gallons
Non-Hazardous Waste Solid (Soil)	18,290 pounds
Non-Hazardous Waste Liquid (Rinse Water)	200 gallons
Waste Flammable Solids, Organic	1,900 pounds
Waste Toxic Solids, Organic	5 pounds
Universal Waste (Fluorescent Lamps, Monitors, Alkali and/or Rechargeable Batteries)	3,801 pounds

REVISIONS TO THE SWMP

The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

9 Education Component

The overall goal of the education component of the SDIA SWMP is to educate the Authority staff, airport tenants, contractors, the traveling public, and our surrounding communities about: a) the potential impacts of polluted urban runoff on water quality; b) stormwater pollution prevention measures required for implementation at SDIA; and c) the SWMP and its availability. The education efforts outlined in the SWMP are intended to increase understanding of stormwater management issues and to help promote behavioral changes that will reduce stormwater pollution. Described below are the education activities conducted by the Authority during FY06-07.

EDUCATION PROGRAM DESCRIPTION AND ACTIVITIES

The Authority stormwater education program is designed to reach all of the target audiences required by the Municipal Permit, with one exception: there are no specific efforts directed at the "residential community," since there is no residential land use or activity within the Authority's jurisdiction (as noted previously in this Annual Report). As such, the audiences addressed by the education component of the SWMP include: the general public and school children; Authority departments and personnel; the airport industrial and commercial tenants; quasi-governmental agencies, such as the FAA; and construction site project managers/developers/contractors.

The education program emphasizes the consistent presentation of readily understandable information about the causes and effects of stormwater pollution, as well as the proper use of BMPs. Each element of the education program is designed to present the appropriate Municipal Permit "agenda" message to a particular audience. The education program seeks to partner with other Copermittees, airport tenants, non-profit organizations, and other interested stakeholders to ensure cost-effective use of resources.

The discussion of the Authority's Education Program in Chapter 8 of the SWMP provides details on the education mechanisms and proposed training frequencies. The following tables summarize the education efforts conducted by the Authority during the reporting period. There are several instances where one education mechanism has been applied to several target audiences. For example, the Authority webpage, airport storm drain stenciling, and the airport recycling brochure were each developed to address all the target audiences. Tables 9-1 through 9-4 present information relative to the education efforts directed at the following composite audiences during FY06-07: a) the general public and school children; b) Authority staff; c) airport industrial, commercial, and quasi-governmental agency tenants; and d) construction project managers, developers, and contractors.

REVISIONS TO THE SWMP

There are no revisions to the Education Component of the SWMP. The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

Table 9-1. Education Activities for the Public and School Children during FY06-07

Program Element	Description of Activities	Estimated Audience Size
Authority Webpage	Environmental Affairs webpage (www.san.org/environmental) includes information on the Authority's stormwater program and the SWMP.	14,433
Storm Drain Stenciling	"No Dumping" warning on storm drain inlets throughout the airport.	100s of thousands
Posters/Banners/ Signage in Terminals and Parking Lots	Annual California Coastal Cleanup Day Billboard display throughout Terminals, during entire reporting period and on-going.	100s of thousands
	"Don't Trash California" Anti-litter Campaign Billboard displays throughout Terminals, during entire reporting period and on-going.	
	Protect San Diego Coastal Wildlife Billboard displays throughout Terminals, during entire reporting period and ongoing.	
Brochures	Airport Recycling Guide in airport terminals and at various outreach events.	Up to 2,500
Public Service Announcements (PSAs) in Terminals	Think Blue PSAs aired in the Terminal 2-West baggage claim area during the entire reporting period.	100s of thousands
	"Don't Trash California" Anti-litter Campaign PSA aired in Terminal 2-West baggage claim area during the entire reporting period.	
Media News Releases	November 14, 2006, news release announces "Youth Art Wall: Children's Water Conservation Poster Contest Displayed at San Diego International Airport." A community partnership to provide a positive water conservation message.	100s of thousands
	Summer 2006 "Skyscapes" mailer notes Authority's commitment to environment.	10s of thousands
Collaborative Efforts	Continued collaboration with WiLDCOAST to support the "Wildlife Outreach Program" to encourage conservation of local wildlife and habitats.	Not Applicable
	Continued collaboration with San Diego CoastKeeper to support "Project Swell" and provide children with a water-quality-based educational curricula and to suppport the "Common Grounds" water quality monitoring database.	
	Continuing collaboration with Surfrider Foundation to support "Hold On To Your Butt" public education campaign about cigarette butts as a stormwater pollutant.	
	Collaboration with San Diego CoastKeeper and others to participate in the 22nd Annual California Coastal Cleanup Day Event held September 16, 2006.	
	Collaboration with local government agencies, universities, and businesses to initiate the "San Diego Regional Sustainability Partnership," with one focus being natural resource conservation and protection.	
	Collaboration with City of San Diego Water Department to present the Youth Art Wall: Children's Water Conservation Poster Contest Display to provide a positive water conservation message.	
	Collaboration with I Love A Clean San Diego to sponsor the 5th Annual Creek to Bay Cleanup Event held April 28, 2007.	

Table 9-1. Education Activities for the Public and School Children during FY06-07 (Continued)

Program Element	Description of Activities	Estimated Audience Size
Special Presentations	July 27, 2006. Presentation at StormCon 2006. "Challenges of Managing Storm Water at the Busiest Single-Runway Airport in the US."	50
	August 25, 2006. Presentation to grade-school students at "Airport Explorers YMCA Camp." Focus on natural resources and water protection.	24
	October 14, 2006. Presentation to the "Price Fellows" group of high school students regarding environmental issues at the Airport.	35
	November 9, 2006. Presentation to students from the Montgomery Field campus of Embry-Riddle Aeronautical University. Environmental issues at airports.	12

Table 9-2. Education Activities for Authority Employees during FY06-07

Program Element	Description of Activities	Estimated Audience Size*
Authority Webpage	Environmental Affairs webpage (www.san.org/environmental) includes information on the Authority's stormwater program and the SWMP.	Up to 300
	Airport Recycling Guide, Pollution Prevention information, and Energy Savings Checklist remain posted on the intranet and internet.	
Storm Drain Stenciling	"No Dumping" warning on storm drain inlets throughout the airport.	Up to 300
Posters/Banners/ Signage in Terminals and Parking Lots	Annual California Coastal Cleanup Day Billboard display throughout Terminals, during entire reporting period and on-going.	Up to 300
	"Don't Trash California" Anti-litter Campaign Billboard displays throughout Terminals, during entire reporting period and on-going.	
	Protect San Diego Coastal Wildlife Billboard displays throughout Terminals, during entire reporting period and ongoing.	
	"Don't Trash California" Anti-litter Campaign Magnetic Bumper Stickers distributed to tenants and staff during entire reporting period and ongoing.	
Brochures	Airport Recycling Guide in airport terminals and at various outreach events.	Up to 300
Public Service Announcements (PSAs) in Terminals	Think Blue PSAs aired in the Terminal 2-West baggage claim area during the entire reporting period.	Up to 300
	"Don't Trash California" Anti-litter Campaign PSA aired in Terminal 2-West baggage claim area during the entire reporting period.	
Media News Releases	November 14, 2006, news release announces "Youth Art Wall: Children's Water Conservation Poster Contest Displayed at San Diego International Airport." A community partnership to provide a positive water conservation message.	Up to 300
	Summer 2006 "Skyscapes" mailer notes Authority's commitment to environment.	
Email Announcements/ Tenant Advisories	August 3, 2006. Tenant Advisory announcing Lindbergh Field Summer Clean-up Week featuring a one-day e-waste/u-waste collection event.	Up to 300
	September 8, 2006. Email to entire staff regarding the 22nd Annual California Coastal Cleanup Day to be held September 16, 2006.	
	September 18, 2006. Email to entire staff regarding National Pollution Prevention Week 2006, September 18-24.	
	November 14, 2006. Email to entire staff regarding California Recycles Day on November 15, 2006.	
	December 4, 2006. Tenant Advisory providing Holiday Season pollution prevention tips.	
	December 20, 2006. Email to entire staff regarding Energy Conservation Tips.	

Table 9-2. Education Activities for Authority Employees during FY06-07 (Continued)

Program Element	Description of Activities	Estimated Audience Size*
Email Announcements/ Tenant Advisories (continued)	February 2, 2007. Tenant Advisory announcing the availability of the FY05-06 Municipal Annual Report on the Authority webpage.	Up to 300
	February 16, 2007. Tenant Advisory regarding proper universal waste disposal.	
	March 26, 2007. Tenant Advisory announcing Off-site E-Waste Recycling Event.	
	April 2, 2007. Tenant Advisory announcing Off-site E-Waste Recycling Event.	
	April 11, 2007. Email to entire staff regarding 5th Annual Creek to Bay Cleanup Event.	
	May 14, 2007. Email to entire staff announcing Bike-to-Work Day (May 18).	
	May 24, 2007. Tenant Advisory regarding wood recycling at the airport.	
	June 18, 2007. Tenant Advisory annoucing 3rd Annual Airport Safety Fair on June 21, 2007.	
	June 29, 2007. Email to staff regarding Email Attachment Reduction Campaign.	
Annual Open House	June 15, 2007. Provided outreach and training materials regarding the Authority's Storm Water Management Program at the Annual Employee Open House.	Up to 300
Department Meetings	Environmental Affairs Staff attendance at Facilities Maintenance Department - Monthly Status Meetings: July 25, 2006 November 28, 2006 May 29, 2007 August 29, 2006 January 30, 2007 June 26, 2007	Up to 40
Targeted Training/ Presentations for Specific Employee Groups	Mandatory Stormwater Pollution Prevention Awareness Training: July 11, 2006 September 19, 2006	65
	September 14, 2006. Facilities Development Department - Stormwater Management Refresher Training for Project Managers.	15
	October 9, 2006. Airport Master Plan Program Department - Stormwater Management Refresher Training For Project Managers.	8
	December 1, 2006. Facilities Development Department - Stormwater Management Refresher Training for Project Assistant Staff.	20
	June 21, 2007. Airport Tenant and Employee Safety Fair - outreach and training materials regarding the Authority's Stormwater Management Program.	250
Special Presentations	September 16, 2006. 22nd Annual California Coastal Cleanup Day.	20
	April 28, 2007. I Love A Clean San Diego's 5th Annual Creek to Bay Cleanup.	15

Table 9-2. Education Activities for Authority Employees during FY06-07 (Continued)

Program Element	Description of Activities	Estimated Audience Size*
Attendance at external professional training/ workshops	July 26-27, 2006. StormCon '06, Denver, CO.	1
	September 14, 2006. San Diego Green Conference, San Diego, CA.	4
	September 23-24, 2006. Airport Council International - North America Environmental Affairs Committee Meeting, Reno, NV.	1
	September 25-27, 2006. 2006 CASQA Stormwater Conference, Sacramento, CA.	2
	November 14-15, 2006. The Greening of California (IEA), San Diego, CA.	3
	November 15, 2006. Zero Waste Conference, San Diego, CA.	1
	November 17, 2006. 8-hour HAZWOPER Refresher Training, San Diego, CA.	1
	February 7-8, 2007. Stormwater Education and Outreach/Community-Based Social Marketing Seminar, San Diego, CA.	3
	March 21, 2007. Construction and Demolition Waste Diversion, San Diego, CA.	2
	April 29- May 1, 2007. Airport Council International - North America Environmental Affairs Committee Meeting, Vancouver, Canada.	1
	May 15, 2007. New Municipal Stormwater Permit Regulations, San Diego, CA.	3
	May 17, 2007. Integrated Pest Management Training, San Diego, CA.	2
	June 14, 2007. 8-hour HAZWOPER Refresher Training, San Diego, CA.	3
	June 20, 2007. San Diego Watershed Data Management Summit, San Diego, CA.	2

***** - There are approximately 300 Authority Employees at any time during the reporting period.

Table 9-3. Education Activities for Airport Industrial, Commercial, and Quasi-Governmental Agency Tenants during FY06-07

Program Element	Description of Activities	Estimated Audience Size
Authority Webpage	Environmental Affairs webpage (www.san.org/environmental) includes information on the Authority's stormwater program and the SWMP.	14,433
Storm Drain Stenciling	"No Dumping" warning on storm drain inlets throughout the airport.	1,000s
Posters/Banners/ Signage in Terminals and Parking Lots	Annual California Coastal Cleanup Day Billboard display throughout Terminals, during entire reporting period and on-going.	1,000s
	"Don't Trash California" Anti-litter Campaign Billboard displays throughout Terminals, during entire reporting period and on-going.	
	Protect San Diego Coastal Wildlife Billboard displays throughout Terminals, during entire reporting period and ongoing.	
	"Don't Trash California" Anti-litter Campaign Magnetic Bumper Stickers distributed to tenants and staff beginning June 21, 2006 and on-going.	Up to 1,000
Brochures	Airport Recycling Guide in airport terminals and at various outreach events.	Up to 2,500
Public Service Announcements (PSAs) in Terminals	Think Blue PSAs aired in the Terminal 2-West baggage claim area during the entire reporting period.	1,000s
	"Don't Trash California" Anti-litter Campaign PSA aired in Terminal 2-West baggage claim area during the entire reporting period.	
Media News Releases	November 14, 2006, news release announces "Youth Art Wall: Children's Water Conservation Poster Contest Displayed at San Diego International Airport." A community partnership to provide a positive water conservation message.	1,000s
	Summer 2006 "Skyscapes" mailer notes Authority's commitment to environment.	
Tenant Advisories	August 3, 2006. Tenant Advisory announcing Lindbergh Field Summer Clean-up Week featuring a one-day e-waste/u-waste collection event.	1,000s
	October 30, 2006. Announce "Airfield Sweeping and Scrubbing Schedule."	
	December 4, 2006. Tenant Advisory providing Holiday Season pollution prevention tips.	
	February 2, 2007. Tenant Advisory announcing the availability of the FY05-06 Municipal Annual Report on the Authority webpage.	
	February 16, 2007. Tenant Advisory regarding proper universal waste disposal.	
	March 26, 2007. Tenant Advisory announcing Off-site E-Waste Recycling Event.	
	April 2, 2007. Tenant Advisory announcing Off-site E-Waste Recycling Event.	
	May 24, 2007. Tenant Advisory regarding wood recycling at the airport.	
	June 18, 2007. Tenant Advisory annoucing 3rd Annual Airport Safety Fair on June 21, 2007.	

Table 9-3. Education Activities for Airport Industrial, Commercial, and Quasi-Governmental Agency Tenants during FY06-07 (Continued)

Program Element	Description of Activities	Estimated Audience Size
Tenant Safety Committee Meetings	Environmental Affairs Department presented stormwater management program updates at Tenant Safety Committee meetings: July 5, 2006 November 1, 2006 March 7, 2007 August 2, 2006 December 6, 2006 April 4, 2007 September 6, 2006 January 3, 2007 May 2, 2007 October 4, 2006 February 7, 2007 June 6, 2007	358
Lindbergh Airport Managers Committee (LAMC) Meetings	Environmental Affairs Department presented specific stormwater management program updates to air-carrier station managers at monthly LAMC meetings: July 19, 2006 February 21, 2007 June 20, 2007 August 1, 2006 May 16, 2007	76
Targeted Training/ Presentations for Specific Tenant Groups	March 7, 2007. Stormwater, Universal Waste, and the California Least Tern.	37
	June 21, 2007. Airport Tenant and Employee Safety Fair - outreach and training materials regarding the Authority's Stormwater Management Program.	780

Table 9-4. Education Activities for Airport Construction Project Managers, Developers, and Contractors during FY06-07

Program Element	Description of Activities	Estimated Audience Size
Authority Webpage	Environmental Affairs webpage (www.san.org/environmental) includes information on the Authority's stormwater program and the SWMP.	14,433
Storm Drain Stenciling	"No Dumping" warning on storm drain inlets throughout the airport.	100s
Posters/Banners/ Signage in Terminals and Parking Lots	Annual California Coastal Cleanup Day Billboard display throughout Terminals, during entire reporting period and on-going.	100s
	"Don't Trash California" Anti-litter Campaign Billboard displays throughout Terminals, during entire reporting period and on-going.	
	Protect San Diego Coastal Wildlife Billboard displays throughout Terminals, during entire reporting period and ongoing.	
Brochures	Airport Recycling Guide in airport terminals and at various outreach events.	Up to 2,500
Public Service Announcements (PSAs) in Terminals	Think Blue PSAs aired in the Terminal 2-West baggage claim area during the entire reporting period.	1,000s
	"Don't Trash California" Anti-litter Campaign PSA aired in Terminal 2-West baggage claim area during the entire reporting period.	
Direct Contact through Project Meetings and Inspections	Environmental Affairs Department staff attendance at Pre-construction meetings: 3 meetings.	60
	Environmental Affairs Department staff attendance at regularly scheduled Project Progress meetings: 91 meetings.	1,063
	Environmental Affairs Department follow-up meetings to site inspections and tailgate meetings. Typically, one-on-one with construction contract site supervisor: 170 meetings.	170

10 Public Participation Component

The Authority has established two main goals for the public participation element of the SDIA SWMP. The first goal is to develop mechanisms to facilitate public participation in the implementation of the SWMP. The second is to then gain through those mechanisms the participation of the community in helping to sustain and improve the Authority's stormwater management efforts. An educated public generally makes for a more effective partner in preventing stormwater pollution. As such, there is some overlap between the Authority's public education efforts described in Chapter 9 of this Annual Report and the public participation efforts described here. Public participation is garnered in two primary ways: participation in implementation of SWMP programs and public feedback on SMWP programs. Feedback is used to improve the SWMP itself and to improve the implementation of the SWMP.

The Authority's public participation program is directed primarily at airport tenants and Authority staff, while also addressing the general public to the extent possible. The mechanisms used to facilitate public participation on the part of these groups during FY06-07 are described here.

PUBLIC PARTICIPATION OPPORTUNITIES FOR TENANTS AND STAFF

In addition to daily interactions between the tenants and Authority staff, several mechanism were used during the reporting period to provide airport tenants and staff the opportunity to participate in the implementation and ongoing development of the Authority's SWMP. These mechanisms included: a) regular meetings of the San Diego County Regional Airport Authority Board; b) monthly meetings of the Lindbergh Airport Managers Committee; c) monthly meetings of the Tenant Safety Committee; d) the 24-hour telephone line; e) the Authority's webpage; and f) outreach events. The use of these 6 public participation mechanisms for tenants and Authority staff during the reporting period are summarized here.

a) San Diego County Regional Airport Authority Board Meetings:

The Airport Authority Board is committed to ensuring that SDIA operates in a manner that complies with all federal, state and local environmental laws. Tenants and Authority staff are encouraged to become involved and help to continually improve both the SWMP and its implementation. Tenants and staff are encouraged to speak directly to the Board during public meetings. During FY06-07, the Board held a combined total of 49 general and subcommittee meetings.

b) Lindbergh Airport Managers Committee:

Tenants and Authority staff meet monthly to discuss and improve the operational aspects of SDIA. During these meetings, tenants and staff are encouraged to become involved in the SWMP, take ownership of the SWMP, and help ensure SWMP implementation. The meetings allow for frank exchange of information and opinions regarding stormwater management concerns at SDIA. There were 12 meetings of the Lindbergh Airport Managers during the reporting period. The Environmental Affairs Department presented updates on specific stormwater management issues at 5 of these meetings.

c) Tenant Safety Committee:

The Tenant Safety Committee is another opportunity to encourage participation of tenants and Authority staff to take ownership of the SWMP and to help ensure effective implementation of the plan. During these monthly committee meetings stormwater management concerns are

presented by the Environmental Affairs Department and discussed with tenants and staff. At the same time, tenants and staff are welcome to submit comments on the SWMP and its implementation during the meetings. The Committee held 12 meetings during FY06-07, with the Environmental Affairs Department making a special presentation at 1 of the meetings.

d) 24-hour Telephone Line/Public Hotline:

The daily activities of airport tenants and Authority staff have a substantial impact on the successful implementation of the SWMP. The SWMP provides guidance about reducing pollutants discharging to the MS4 and the proper implementation of appropriate BMPs. Taking ownership of the MS4 and making appropriate use of BMPs are some of the best ways for tenants and staff to participate in the implementation of the SWMP. The Airside Operations Department 24-hour telephone line/public hotline facilitates timely communication between the Environmental Affairs Department and concerned tenants and staff. Tenants and staff are also reminded to report unauthorized non-stormwater discharges to the 24-hour telephone line.

e) Authority Webpage:

The Authority webpage features several pages dedicated to the environmental issues at SDIA (www.san.org/environmental), including stormwater management. The webpage, accessible by airport tenants and Authority staff, presents the SDIA SWMP in its entirety, along with contact information for the Environmental Affairs Department. The webpage provides another opportunity for tenants and staff to review and comment on the SWMP and the manner in which the SWMP and the BMPs described therein are implemented at SDIA. The environmental page of the Authority webpage had 14,433 hits during FY06-07.

f) Outreach Events for Airport Tenants and Authority Staff:

Outreach events allow the Environment Affairs Department and airport tenants and Authority staff to exchange information, ideas, and opinions about general stormwater management issues and theses specific to the airport. Outreach events have both an education component and a public participation component. Such events promote public participation and further environmental stewardship by tenants and staff. Outreach events are an important element of public participation and help keep communication

open between the Authority, its tenants, and its staff. During FY06-07, the Authority conducted or participated in three outreach events that allowed the Environmental Affairs Department to share concerns about proper stormwater management at SDIA with tenants and staff.

On June 15, 2007, the Environmental Affairs Department provided outreach and training materials about the SWMP to Authority staff at the Annual Employee Open House.

On June 21, 2007, at the Authority's Annual Safety Fair, the Environmental Affairs Department provided outreach and education materials on trash, litter, and debris as stormwater pollutants. This year, the Department handed out "Don't Trash California" T-shirts to all Airport tenants and Authority staff making a pledge to help keep the airport grounds clean on both the airside and the landside. More than 1,025 tenants and staff combined took the pledge.

The Authority also promoted two local watershed cleanup events during the reporting period. The two events which drew participation by Authority staff and their families included the 22nd Annual California Coastal Cleanup Day on September 16, 2006 and the I Love A Clean San Diego's 5th Annual Creek to Bay Cleanup event on April 28, 2007.

PUBLIC PARTICIPATION OPPORTUNITIES FOR THE GENERAL PUBLIC

The Authority uses a variety of mechanisms to provide the general public with opportunities to participate in the ongoing development and implementation of the Authority's SWMP. Some of the mechanisms used to encourage participation by the general public are similar to those used with tenants and staff.

These mechanisms include a) regular meetings of the San Diego County Regional Airport Authority Board; b) regular meetings of the San Diego Municipal Permit Copermittees; c) the Authority's webpage; d) the Project Clean Water webpage; e) the Authority's 24-hour telephone line; f) the Copermittee's regional hotline telephone numbers; and g) outreach events for the General Public.

a) San Diego County Regional Airport Authority Board Meetings:

As stated above, the Airport Authority Board is committed to ensuring that SDIA operates in a manner that complies with all environmental laws. The public is encouraged to review and comment on the SDIA SWMP and to thereby help to continually improve both the plan and its implementation. The general public is encouraged to speak directly to the Board during public meetings. During FY06-07, the Board held a combined total of 49 general and subcommittee meetings.

b) San Diego Municipal Permit Copermittee Meetings:

The San Diego Municipal Permit Copermittees meet regularly to discuss various aspects of the stormwater management programs being implemented throughout the county in accordance with the Municipal Permit. In addition to the regular meetings of the Copermittee Management Committee, the Copermittees have established a number of subcommittees and workgroups. All meetings of the Committee, the subcommittees, and the workgroups are open to the general public. These meetings provide numerous opportunities for public participation in stormwater management activities both throughout the region and at SDIA. Attendees include a wide variety of experts, including representatives of federal, state and local agencies, industry representatives, environmental groups, consulting firms, product vendors, and academic and research institutions, as well as the general public. Combined, the Copermittees held more than 36 general, subcommittee, and workgroup meetings during FY06-07.

c) Authority Webpage:

As stated above, the Authority webpage features several sections regarding the environmental issues at SDIA (www.san.org/environmental), including stormwater management. The webpage is accessible by the general public and presents the SDIA SWMP in its entirety. The webpage provides contact information for the Environmental Affairs Department, allowing the general public another opportunity to review and comment on the SWMP and the BMPs described therein. Again, the environmental page of the Authority webpage had 14,433 hits during FY06-07.

d) Project Clean Water Webpage:

Partly in response to its duties as the Principal Copermittee to the Municipal Permit, the County of San Diego established the Project Clean Water webpage (www.projectcleanwater.org) that features both general and specific information on regional water issues and the local stormwater management programs. The webpage features contact information and direct web-links to the Authority. The webpage is intended to represent a major portal for public participation in stormwater management regionally and at the individual jurisdictional level.

e) Authority's 24-hour Telephone Line/Public Hotline:

The general public can always address immediate stormwater concerns directly to the Authority using the Airside Operations Department 24-hour telephone line/public hotline. In addition to providing the general public with another link to the Environmental Affairs Department, the telephone line enables the general public to report unauthorized non-stormwater discharges and other stormwater concerns.

f) Copermittees' Public Hotlines:

The Municipal Permit Copermittees have established two regional hotlines, the Project Clean Water Hotline and the THINKBLUE Hotline. Both are 1-800-numbers that allow the general public to obtain contact information for any of the individual jurisdiction stormwater management programs, including the Authority's. The hotlines also provide another mechanism for the general public to report unauthorized non-stormwater discharges and/or other stormwater concerns, which are then referred to the appropriate jurisdiction. The hotlines provide services in English and Spanish and are available 24-hours a day.

g) Outreach Events for the General Public:

Similar to the previous discussion of outreach events for the general public allow the Authority and the general public to exchange information, ideas, and opinions about stormwater management issues in general and those specific to the airport. Such events promote public participation and further environmental stewardship by the general public.

During FY05-06, the Authority continued to collaborate with four local environmental groups that shared concern for proper stormwater management at SDIA and protection of San Diego Bay - the receiving water for runoff from the airport. The Authority has collaborated with the San Diego Coastkeeper to help support the "Project Swell" campaign aimed at engendering environmental stewardship in local schoolchildren through education using water-quality-specific curricula. The Authority also collaborated with Coastkeeper on the "Common Grounds" water quality monitoring database, as well as the 22nd Annual California Coastal Cleanup Day Event on September 16, 2006. In addition, the Authority has collaborated with WiLDCOAST to support its "Wildlife outreach Program" - a bilingual campaign aimed at educating the public and schoolchildren about watershed and natural resource management. The Authority continues to support the Surfrider Foundation's "Hold On To Your Butt" campaign aimed at educating the public and children about cigarette butts as a stormwater pollutant through educational brochures, t-shirts, bumper stickers, and public service announcements. All three of these efforts began during FY04-05 and continued through FY05-06 and FY06-07. As a member of the San Diego Bay Watershed Copermittees, the Authority also helped to sponsor one of the local cleanup sites of the I Love A Clean San Diego's 5th Annual Creek to Bay Cleanup event on April 28, 2007.

The Authority worked with the City of San Diego Water Department to present the Youth Art Wall: Children's Water Conservation Poster Contest Display in airport Terminal 2 beginning in the late summer of 2006. In November of 2006, the Authority joined with local government agencies, universities, and businesses as a charter member of the "San Diego Regional Sustainability Partnership," with one focus of the partnership being natural resource conservation and environmental protection.

REVISIONS TO THE SWMP

There are no revisions to the Public Participation portion of the SWMP. The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first

amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

11 Special Investigations

The FY03-04 Annual Report first mentioned, and the FY04-05 Annual Report outlined in detail, a special project that had been in the planning and design phase since the inception of the Authority in 2003 and which finally got underway in January of 2005. Entitled the "Storm Drainage System BMP Project (CIP #3105A)," the project featured 10 distinct elements. The FY05-06 Annual Report presented a discussion of the activities for each of the 10 tasks, which were all completed as FY05-06 ended. This FY06-07 Annual Report now presents information on the implementation of the stormwater Sampling Plan, dated November 2005, that resulted from the completion of one of the 10 elements of the Storm Drainage System BMP Project.

The Annual Report describes the stormwater management activities of the Authority to ensure compliance with the Municipal Permit during any particular fiscal year. While the Municipal Permit does include some stormwater monitoring activities, the stormwater monitoring program outlined in the Authority's Sampling Plan goes well beyond Municipal Permit requirements. For that reason, the stormwater monitoring efforts outlined in the Sampling Plan and conducted during FY06-07 are discussed here in the Special Investigations chapter of the Annual Report. The FY06-07 Annual Report is the first to present information on this broadened sampling program, which also includes the type of stormwater monitoring reporting

that has been presented in Chapter 3, Industrial Component of Existing Development, under the heading of "Stormwater Monitoring Related To Industrial Activities." So, as first mentioned in Chapter 3 of this report, the discussion of "Stormwater Monitoring Related To Industrial Activities" has been moved from Chapter 3 to the discussion here in Chapter 11, Special Investigations.

There were no other special investigations underway at SDIA during the reporting period that resulted in any additional data or information relevant to urban runoff that has not already been presented elsewhere in this Annual Report.

STORM DRAINAGE SYSTEM BMP PROJECT

To briefly summize the Storm Drainage System BMP Project, the project was designed to: increase understanding of the site hydrology, the hydraulics of the MS4, and the pollutant sources on the airport site; evaluate historic stormwater sampling data and recommend improvements to the SDIA wet and dry weather stormwater sampling programs; evaluate the appropriateness and adequacy of the BMPs required by the Authority SWMP to address those sources; and provide recommendations for additional BMPs and for overall improvements to the SDIA stormwater management program and the SDIA SWMP document. MACTEC Engineering and Consulting, Incorporated was contracted to assist the Authority in conducting this project. The scope of work was divided into the 10 tasks listed below (which were fully described in the FY04-05 Annual Report).

Task 1 - Data Gathering and Review - Completed in FY04-05
Task 2 - Hydrology Assessment - Completed in FY04-05
Task 3 - Hydraulic Analysis - Completed in FY05-06
Task 4 - Tidal Surge Study - Completed in FY05-06
Task 5 - BMP Document Review - Completed in FY04-05
Task 6 - Site Audit - Completed in FY04-05
Task 7 - Stormwater Sampling Plan - Completed in FY05-06
Task 8 - Catastrophic Fuel Release Evaluation - Completed in FY05-06
Task 9 - Chemical Emergency Response Evaluation - Completed in FY05-06
Task 10 - BMP Recommendations - Completed in FY05-06

THE SAMPLING PLAN

Task 7 of the Storm Drainage System BMP Project, entitled Stormwater Sampling Plan, resulted in a completely revised and updated Sampling Plan that addresses the runoff sampling requirements of the General Industrial Storm Water Permit, but also helps to identify sources of runoff pollution from the airport and helps to evaluate the effectiveness of the BMPs being implemented. MACTEC evaluated the quality of the existing historic stormwater sampling data set and recommended a sampling program that provides representative sample locations and a sufficient amount of data to provide adequate statistical power in evaluating long-term program effectiveness. Development of the Sampling Plan also included consideration of the variability in annual precipitation patterns at the airport and the impact of such variability on program implementation and on the assessment of long-term program effectiveness. The final stormwater Sampling Plan was completed in November of 2005.

The Authority's storm water sampling program is based on the Sampling Plan, with the objectives of: 1) compliance with permit conditions; 2) identification and characterization of sources of pollutants-of-concern (POCs); and 3) measuring the effectiveness of BMPs in controlling runoff water quality. These objectives were also reflected in outcome of Task 10 of the Storm Drainage System BMP Project, the BMP Recommendations Report (MACTEC, 2005). The objectives of the BMP Recommendations Report were to ensure that BMPs comply with the BAT/BCT and Maximum Extent Practicable (MEP) standards and to identify BMPs that can reduce the concentrations of POCs. Ultimately, implementation of both the Sampling Plan and the BMP Recommendations Report is designed to: (1) demonstrate that storm water quality is below the relevant benchmark for the POCs; and (2) show that the water quality is improving over time as current BMPs are implemented and any new BMPs or modifications to existing BMPs are introduced. Although the Sampling Plan was completed in time to allow the Authority to use the sample sites described in the Sampling Plan for the FY05-06 wet season (as discussed in Annual Report for FY05-06), full-scale implementation of the Sampling Plan as outlined below began at the start of the FY06-07 wet season. In FY06-07, all elements of the Sampling Plan - compliance sampling, source identification sampling, and BMP effectiveness sampling - were performed as described in the plan.

COMPLIANCE SAMPLING ELEMENT

The first objective of the Sampling Plan is compliance with applicable permit-required monitoring. The Authority must comply with both the Municipal Permit and the General Industrial Storm Water Permit. Monitoring is required under both of these permits. The Authority is required to conduct dry weather monitoring and to participate in the regional wet weather monitoring program under the Municipal Permit. The San Diego Municipal Permit Copermittees currently contract for services to conduct the monitoring required to fulfill the requirements under the Municipal Permit. The Authority is also responsible for conducting monitoring under the General Industrial Storm Water Permit. The compliance sampling element of the Sampling Plan addresses only the monitoring requirements of the General Industrial Storm Water Permit, which are outlined in Section B.2 of the permit.

The General Industrial Storm Water Permit requires that the basic four analytes, namely oil and grease (O&G), specific conductance (SC), total suspended solids (TSS), and pH must be analyzed. In addition, samples must be analyzed for analytes that are likely to be found in storm water runoff from the permitted facility. Three analytes, namely biological oxygen demand (BOD), chemical oxygen demand (COD), and ammonia (NH3) are listed specifically by the permit for air transportation facilities. The other analytes, selected based on a review of historical water quality results and activities conducted within the drainage basins at SDIA, include total metals (aluminum, copper, iron, lead, and zinc), dissolved metals (copper and zinc), methylene blue active substances (MBAS), and total petroleum hydrocarbons (TPH). The Sampling Plan analyzes TPH as diesel range organics (C10-C24), Jet-A, and oil range organics (C22-C36). Although historical data for stormwater samples collected at SDIA suggest that glycols are not a POC, and therefore, glycols are not listed as analytes in the Sampling Plan, samples collected during the FY06-07 wet season were also analyzed for ethylene and propylene glycol. As such, samples from the compliance sampling locations were analyzed for these 15 POCs.

The General Industrial Storm Water Permit basically requires that facility operators shall collect storm water samples during the first hour of discharge from (1) the first storm event of the wet season, and (2) at least one other storm event in the wet season. Sample collection is only required of storm water discharges that occur during scheduled facility operating hours and that

are preceded by at least 3 working days without storm water discharge. The goal for compliance sampling element is, therefore, to obtain two grab samples per wet season from the first hour of discharge. Although the General Industrial Storm Water Permit requires only that samples be collected during "scheduled facility operating hours," because storms in the San Diego area do not usually begin until after 11 p.m. or later, sampling generally occurred outside of the scheduled facility operating hours in order to achieve the two sampling events required by the permit. The Sampling Plan also defines a storm event, in order to comply with General Industrial Storm Water Permit requirements and to increase the likelihood mobilizing for a successful sampling event.

Sampling locations selected for compliance monitoring are described in Table 11-1 and consist of ten primary locations. The locations of sampling sites are based on a review of the potential pollutants and pollutant sources, and the scope of operations within the drainage basins. Sampling locations were selected as far downstream as possible to capture as many areas with industrial activities as possible within a given drainage basin. Sheet flow runoff is collected where sampling locations are influenced by salt water intrusion from San Diego Bay or where access is restricted. A map of the sample locations described in the Sampling Plan is presented in Appendix C.

SOURCE IDENTIFICATION SAMPLING ELEMENT

The second objective of the Sampling Plan is to identify and rate sources of POCs in terms of annual mass loading in storm water, the potential for reduction through BMP implementation, and the best combination of sources to address through BMP implementation to achieve pollutant load reduction objectives.

The effectiveness of BMPs currently being implemented was evaluated as part of the Site Audit report (MACTEC, June 2005) (Task 6 of the Storm Drainage System BMP Project). POCs were identified based on comparisons of historical stormwater quality data to selected benchmark values. The 12 analytes that exceeded the benchmarks were (in order of descending exceedance frequency): copper (total and dissolved), total zinc, total aluminum, total iron, biological oxygen demand (BOD), chemical oxygen demand (COD), total suspended solids (TSS), oil and grease, specific conductivity, total lead, ethylene glycol, and pH.

Table 11-1. Sample Locations for Compliance Sampling Element

Drainage Basin	Sampling Location ID	Sampling Method	Location Description
1	C-B01-1	Grab *	Sheet flow at storm drain inlet.
3	C-B03-2	Grab *	Sheet flow at storm drain inlet.
5	C-B05-3	Grab * *	Inlet pipe in storm drain inlet.
5	C-B05-4	Grab *	Sheet flow at storm drain inlet.
6	C-B06-5	Grab *	Sheet flow at storm drain inlet.
7	C-B07-6	Grab * * * *	Inlet pipe in manhole west of oil/water separator.
7	C-B07-7	Grab *	Sheet flow at storm drain inlet at end of concrete swale.
8	C-B08-8	Grab * * *	Sheet flow from the loading area of T1.
9	C-B09-10	Grab * *	Sheet flow at curb inlet at SE corner of T2 parking lot/road into lot.
12	C-B12-9	Grab * * * *	

* Grab sample collected using a Vortox sampler

* * Grab sample collected using automated equipment

* * * Composite sample collected using automated sampling equipment

* * * * Grab sample collected manually.

Copper and zinc were identified as the priority POCs because they exceeded the benchmark values more than 50 percent of the time, i.e., they had the highest exceedance frequencies airport-wide and for most of the outfalls and drainage basins. The other analytes that exceeded benchmark values are considered, for the purposes of the sampling program, secondary POCs. The source identification objectives of this sampling program focus on the primary POCs. The airport operations, industrial, and ground transportation land use categories generally had the highest copper and zinc Relative Pollution Risks (RPRs) of all land use categories within each of the drainage basins, as well as airport-wide (Site Audit, MACTEC, June 2005). The secondary POCs are also anticipated to benefit from the implementation of BMPs designed to address the primary POCs.

Samples from the source identification sampling locations were analyzed for the primary POCs (total and dissolved copper and zinc) and, to help assess the treatability of storm water runoff at SDIA, particle size distribution analysis was also performed at one sample location (which is considered to be representative of other drainage basins in terms of particle size distribution).

For the purposes of source identification sampling element, the number of samples required to estimate mean copper and zinc concentrations was based on the number of samples required for copper, determined by the power analyses detailed in the Sampling Plan itself to be 14 for airport operations related sources (i.e., runways, roofs, and aircraft loading/unloading areas) and 17 for ground transportation related sources (i.e., parking lots). Based on the weather characteristics of the San Diego region, and considering the cost of mobilization, a goal of capturing five to six storms per wet season at each sampling location was considered feasible, meeting the target of 14 for airport operations sources and 17 for ground transportation sources. This allowed mobilizing only for storms for which there was a high probability of successful sample collection. For the FY06-07 wet season, source identification samples were collected during both of the compliance sampling rounds and 4 additional storms that had been predicted to have a high chance of successful sample volumes.

A one-year period has been selected to gather the baseline source characterization data prior to the implementation of enhanced source control BMPs identified in the BMP Recommendations Report (MACTEC, 2005b). The minimum number of sampling locations was selected to meet the source identification objectives and achieve the required number of samples within the one year period, based on the power analysis detailed in the Sampling Plan. As such, 14 sampling locations have been selected to characterize the quality of non-industrial storm water runoff associated with vehicle and aircraft use and emissions, atmospheric deposition, and galvanized metal structures, particularly metal roofs.

Sampling locations are described in Table 11-2. Sampling locations were selected to capture runoff from parking lots, runways, roofs, airport operations and aircraft loading/unloading areas. Samples of runoff from parking lots will help evaluate the concentration of POCs in storm water

Table 11-2. Sampling Locations for Source Identification Sampling Element

Source Type	Drainage Basin	Sampling Location ID	Sampling Method	Location Description
Parking Lot	5	S-B05-5	Composite *	Inlet pipe in storm drain inlet. Same as location C-B05-3.
	8	S-B08-1	Composite *	Sheet flow at curb inlet 08-45-I. Combine with S-B08-2.
	8	S-B08-2	Composite *	Sheet flow at curb inlet on S end of T1 parking lot entry road. Combine with S-B08-1.
	9	S-B09-3	Composite *	Sheet flow at curb inlet on southeast corner of SE corner of T2 parking lot/road into lot. Combine with S-B11-4. Same as location C-B09-10.
	11	S-B11-4	Composite *	Sheet flow at manhole 11-10-M. Combine with S-B09-3.
Roof Runoff	7	S-B076	Grab * *	Flow from downspout on Authority employee office building.
	8	S-B08-8	Grab * *	Flow from downspout on T1 building.
	12	S-B12-7	Grab * *	Flow from downspout on T2 buildign.
Runway	3	S-B0310	Grab * * *	Sheet flow from runway at storm drain inlet.
	6	S-B06-11	Grab * * *	Sheet flow from runway at storm drain inlet.
	8	S-B08-9	Grab * * *	Sheet flow from runway at storm drain inlet.
Airport Operations	6	S-B06-12	Composite *	Inlet pipe in trench drain.
Aircraft Loading/ Unloading	8	S-B08-14	Composite *	Sheet flow from the loading area of T1. Same as location C-B08-8.
	12	S-B12-13	Composite *	Sheet flow from the loading area of T2.

* Composite sample collected using automated sampling equipment

* * Grab sample collected manually.

* * * Grab sample collected using a Vortox sampler

runoff from vehicle emissions and use and atmospheric deposition. Samples of runoff from runways and airport operations will help evaluate the concentration of POCs in storm water runoff from aircraft emissions and use and atmospheric deposition. Samples of runoff from roofs will help evaluate the concentration of POCs in storm water runoff from metal roofs

and atmospheric deposition. For the FY06-07 wet season sampling effort, some of the sample locations and sampling methods are different than those listed in the Storm Water Sampling Plan. One of the sampling sites was moved because of potential construction in that location. Other sites were moved due to the infeasibility of installing automated monitoring equipment at those locations. For the runway sites, Vortox samplers were used to collect samples. When installed, the valves on the Vortox units were set to be fully open, so the sample collected was a grab rather than a composite. With the typically intermittent, small-scale nature of southern California storms, leaving the valve open only part-way in an attempt to collect a composite sample may have resulted in no or too little volume captured.

Sampling Locations S-B08-1 and S-B08-2 are sheet flow locations from the Terminal 1 parking lot. These samples are combined into one sample to reduce laboratory analytical costs and to provide a more representative sample of the entire parking lot. Similarly, Sampling Locations S-B09-3 and S-B11-4, sheet flow from the Terminal 2 parking lot, are combined. Sampling Location S-B05-5 was selected to characterize runoff from the large rental car storage lot in drainage basin 5.

To characterize runoff from the roofs of buildings at SDIA, Sampling Locations S-B07-6, S B12 7, and S-B08-8 were assigned to downspouts representative of various roofing materials and ages. Both terminals have multi-ply, built-up, shingle asphalt roofs with lead and galvanized steel flashing. Sampling Locations S-B08-9, S-B03-10 and S-B06-11 were chosen to characterize runoff from the runway, and Sampling Locations S-B12-13 and S-B08-14 were chosen to characterize runoff from aircraft loading/ unloading areas. Sampling Location S-B06-12 was chosen to be a composite sample representing runoff from Drainage Basin 6, which has the highest RPR of all the drainage basins. This drainage basin is primarly comprised of airport operations and industrial land uses and contains a variety of both structural and non-structural BMPs.

BMP EFFECTIVENESS SAMPLING ELEMENT

The third objective of the Sampling Plan is to monitor the performance and effectiveness of BMPs for both discrete treatment control BMPs and BMP systems. BMP systems are considered combinations of source and treatment controls implemented throughout a watershed or basin that together can

provide a reduction in pollutants. For both treatment control BMPs and BMP systems, objectives are to assess whether the BMPs are reducing pollutant concentrations (for both primary and secondary POCs) below benchmark values and whether BMPs are achieving the short-term and long-term pollutant reduction objectives for the primary POCs. Since no new structural treatment control BMPs have been constructed at SDIA, no treatment control BMP monitoring was conducted.

The BMP effectiveness element of the Sampling Plan is designed to extend over a 10 year period. The 2006-2007 season represents the first year of both the paired watershed study (a 6 year program to evaluate BMP system effectiveness) and the trend analysis monitoring (a minimum 10 year program). In a paired watershed study, one watershed is considered the control. Within the control watershed, BMPs are neither added nor removed. The other watershed is the treatment or test watershed where new BMPs are implemented. Two periods of monitoring are required: calibration and treatment. During the calibration period, the two watersheds are treated identically and a relationship between the control and treatment watersheds is established. The 2006-2007 season represents the first year of the calibration phase. Two such studies are included in this program. The first consists of the parking lots for Terminal 1 and Terminal 2. The second study is between the drainage basins for Outfalls 8 and 12. For the trend analysis, the goal is to obtain enough data to confidently establish a downward trend of pollutants in storm water discharges. Drainage Basin 6 was selected as the location for monitoring long term pollutant trends because it had the highest RPR (Site Audit, MACTEC, June 2005) and is, therefore, a priority target for BMP implementation.

Samples from the BMP effectiveness sampling locations were analyzed for the primary POCs (total and dissolved copper and zinc) and secondary POCs (total aluminum, total iron, biological oxygen demand, chemical oxygen demand, total suspended solids, oil and grease, specific conductance, total lead, ethylene glycol, and pH). Seven (7) locations for BMP effectiveness monitoring were selected from the 14 source identification sampling locations to minimize the number of additional sampling locations. These 6 locations are: S-B06-12, S-B08-1, S-B08-2, S-B08-14, S-B09-3, S-B11-4, and S-B12-13.

Based on the power analyses in the Sampling Plan, 14 samples are required to compare mean concentrations to benchmark values. Three years of data will provide 15 samples for the BMP effectiveness sampling. The sampling frequency per wet season for BMP effectiveness monitoring also follows the same frequency of the source identification element, with 3 years allowed for the calibration period and 3 years for the treatment period. At the end of the three year calibration period, statistical analyses will be performed on the data to determine if an adequate number of samples have been collected before moving onto the treatment phase. To confidently establish a downward trend, monitoring at one established trend analysis location (S-B06-12) will be performed for a minimum of 10 years. Since the calibration and treatment sampling periods will last a combined six years, and since the trend analysis period requires a ten year period, and since the FY06-07 wet season is the first year for collecting any samples for the BMP effectiveness element of the Sampling Plan, there is no future discussion of this element of the plan in this Annual Report.

SAMPLE PLAN IMPLEMENTATION FY06-07

This section of the Annual Report summarizes the findings of the FY06-07 wet season sampling program as detailed in a "Final Storm Water Sampling Report," prepared by MACTEC, dated November 2007. A total of six storm events were monitored during the FY06-07 wet season, which was especially drier in comparison to previous years. The season's total rainfall for SDIA was 3.8 inches compared to the annual average rainfall of 10.2 inches. Table 11-3 provides a summary of each storm total rainfall and duration.

Table 11-3. Sampled Storm Event Summary

Event #	Date	Total Rainfall (inches)	Event Duration (hours)
1	October 14, 2006	0.76	9.3
2	December 16, 2006	0.29	12.7
3	December 17, 2006	0.13	1.2
4	January 31, 2007	0.53	34.3
5	Febraury 19, 2007	0.84	22.5
6	February 23, 2007	0.18	11.7

RESULTS AND ANALYSIS OF COMPLIANCE SAMPLING ELEMENT

Compliance sampling was completed during the first 2 storm events of the season October 14, 2006 and December 17, 2006. A total of 20 compliance samples were collected over the two storm events at 10 sampling sites. The complete analytical results are located in Appendix C. A summary of the results, showing median, maximum, and minimum values, along with the coefficient of variance, are presented in Table 11-4.

Results from the compliance sampling element were compared to the USEPA Multi-Sector General Permit (for industrial activity) benchmarks. The number of exceedances was calculated and analyzed. Since they are source discharge limits rather than receiving water limits, the USEPA Multi-Sector General Permit analyte benchmarks were used for comparison. The benchmarks should not be considered effluent limitations, as they are derived from water quality objectives that only directly apply to receiving waters. Water quality objectives do not directly apply to storm water discharges for any number of reasons. Two parameters, ethylene glycol and specific conductance, are not listed in the USEPA Multi-Sector General Permit, but rather have been assigned appropriate benchmark values as listed in the Sampling Plan

As shown in Table 11-5, the median concentrations calculated for the compliance sampling POCs were compared to the benchmarks to determine the number of exceedances of those benchmarks that occurred. Ammonia, oil and grease, total iron, total lead, and ethylene glycol did not exceed the benchmarks. BOD, COD, total aluminum, total copper, total zinc, dissolved copper, and dissolved zinc exceeded the benchmarks in over 60% of the samples. The remaining POCs exceeded the benchmarks in less than 60% of the samples. The analytical data tables in Appendix C show the results for each storm at each location and indicate that one or more benchmark exceedances occurred at all locations.

Table 11-4. Compliance Sampling Analytical Results Summary

Pollutant of Concern	Units	Median	Coefficient of variation (%)	Maximum Value	Minimum Value	Number of Samples
Ammonia	mg/l	0.2	105	1.3	0.05	20
BOD	mg/l	65.5	93	370	18	20
COD	mg/l	146	107	1160	47	20
Specific Conductivity	umhos/com	229.5	235	10400	69.3	20
Oil & Grease	mg/l	3.75	51	7.3	0.5	20
pH	pH units	6.05	13	430	4.9	20
Total Suspended Solids	mg/l	50	108	8700	12	20
Aluminum, Total	ug/l	1195	125	2700	25	20
Copper, Total	ug/l	205	167	205	19	20
Iron, Total	ug/l	1.75	98	8.6	0.05	20
Lead, Total	ug/l	23.5	97	110	1	20
Zinc, Total	ug/l	240	182	6500	74	20
Copper, Dissolved	ug/l	99	189	2500	4.3	20
Zinc, Dissolved	ug/l	185	200	5800	7.3	20
Ethylene Glycol	mg/l	ND	ND	ND	ND	20
Propylene Glycol	mg/l	ND	ND	ND	ND	20
MBAS	mg/l	0.15	58	0.4	0.05	20
Diesel Range Organics	mg/l	0.66	122	5.3	0.05	20
Jet-A	mg/l	ND	ND	ND	ND	20
Oil Range Organics	mg/l	1.7	81	6.4	0.61	20

Table 11-5. Comparison of Compliance Sampling Results to Benchmarks

Pollutant of Concern	Units	Median	Benchmark	Number of Analyses	Number of Exceedances	Exceedance Frequency
Ammonia	mg/l	0.2	19	20	0	0 %
BOD	mg/l	65.5	30	20	16	80 %
COD	mg/l	146	120	20	14	70 %
Specific Conductivity *	umhos/com	229.5	900	20	2	10 %
Oil & Grease	mg/l	3.75	15	20	0	0 %
pH	pH units	6.05	6.0 - 9.0	20	10	50 %
Total Suspended Solids	mg/l	50	100	20	7	35 %
Aluminum, Total	ug/l	1195	750	20	12	60 %
Copper, Total	ug/l	205	63.6	20	15	75 %
Iron, Total	ug/l	1.75	81.6	20	0	0 %
Lead, Total	ug/l	23.5	1000	20	0	0 %
Zinc, Total	ug/l	240	117	20	18	90 %
Copper, Dissolved	ug/l	99	63.6	20	12	60 %
Zinc, Dissolved	ug/l	185	117	20	15	75 %
Ethylene Glycol * *	mg/l	ND	100	20	0	0 %

* Exceedance is not of a USEPA Multi-Sector General Industrial Storm Water Permit as Specific Conductivity does not have a benchmark in the permit. Value is a Secondary Drinking water limit from "Drinking Water Standards, Maximum Contaminant Levels - California (California Department of Health Services), California Code of Regulations (CCR), Title 22, Division 4, Chapter 15, Domestic Water Quality and Monitoring."

* * Value is from the Canadian Environmental Protection Agency Guidelines developed for storm water discharges from airports and based on a scientific study of the 48-hour lowest concentration at which effects were observed (LOEC) for growth inhibition in Chilomonas paramecium.

RESULTS AND ANALYSIS OF SOURCE IDENTIFICATION SAMPLING ELEMENT

Source identification sampling was performed during the six storm events in the FY06-07 wet weather sampling season. The samples were collected from each of the 14 source identification monitoring sites during the first five storms of the season, with the exception of five roof runoff samples. Samplers made several attempts to collect these samples, however, the roof downspouts were not observed to be flowing during any of these attempts. During the last storm event on February 22, 2007, samples were only collected from those sites identified as requiring six samples for the FY06-07 wet season (i.e. parking lot sites), and those that had incomplete sampling for the 2006-2007 season, namely the two roof runoff monitoring sites, S-B12-7 and S-B08-8.

The complete analytical results for the source identification sampling are also located in Appendix C. A summary of the results, showing the median, maximum, and minimum values along with the coefficient of variance, are presented in Table 11-6. Those source identification sites which also double as the BMP effectiveness sites (S-B08-1, S-B08-2, S-B09-3, S-B11-4, S-B12-13, S-B08-14 and S-B06-12) were sampled for the complete list of POCs. Samples from the remaining sites were analyzed for total copper and zinc and dissolved copper and zinc. Particle size distribution analyses were attempted by the laboratory for site S-B06-12, but the concentration of particles was insufficient each time for a result to be obtained.

The results of the source identification sampling were analyzed in two ways to determine which basin(s) and source(s) appear to contribute the largest amount of pollutants. The samples were categorized by the spatial location and by the source of the pollutants. Spatial analysis helps determine if certain drainage basins have higher pollutant concentrations. The source of the pollutants can be used to target BMP implementation. Mass loadings from the different pollutant sources were calculated for the POCs.

In terms of spatial trend analysis, each of the sample locations was selected to represent both different pollutant sources and the storm water drainage basin. Comparing the results by basin provides a rough understanding of where higher pollutant sources may be found. It is important to remember that the source identification samples combined multiple pollutant sources and included a mixture of grab and composite sampling techniques.

Table 11-6. Source Identification Sampling Analytical Results Summary

Pollutant of Concern	Units	Median	Coefficient of variation (%)	Maximum Value	Minimum Value	Number of Samples
BOD	mg/l	34	64	104	9	28
COD	mg/l	78.5	59	218	14	28
Specific Conductivity	umhos/com	146.5	45	378	71	28
Oil & Grease	mg/l	1	65	4	1	28
pH	pH units	7	8	8	5	28
Total Suspended Solids	mg/l	12	108	96	4	28
Aluminum, Total	ug/l	110	200	3915	25	28
Copper, Total	ug/l	54	156	2000	10	61
Iron, Total	ug/l	145	206	5605	20	28
Lead, Total	ug/l	1	155	55.5	1	28
Zinc, Total	ug/l	130	350	21000	30	61
Copper, Dissolved	ug/l	43	178	1700	4	61
Zinc, Dissolved	ug/l	100	373	20000	5	61
Ethylene Glycol	mg/l	5	39	16	5	28
Propylene Glycol	mg/l	5	130	58	5	28

The results from the sampling site in Drainage Basin 7 were the highest for both total copper and total zinc. The site was a roof-runoff sampling location (S-B07-6), but may indicative of the amount of these POCs entering the storm drainage system from this particular drainage basin. The next highest results were from Drainage Basin 6 for total copper and Drainage Basin 8 for total zinc, representing sources from the runway and a parking lot, respectively. Drainage Basin 5 had the lowest total copper and total zinc results. The sampling location in Drainage Basin 5 (S-B05-5) represented runoff from the rental car parking lot on the northeast side of the facility. This area is mainly used to store vehicles and has limited other usage or buildings. The volume of vehicular traffic in this parking area is much less than that in the Terminal parking lots.

In terms of pollutant sources analysis, each sampling site is linked to a pollutant source, as noted above. The relationships are shown in Table 11-7. One way to compare the pollutant sources was to calculate the annual mass load for each source. The mass load takes into account the amount of runoff and the concentration of pollutant. Only the parking lot and airport operations sample locations collected flow data, using automated flow-weighted composite sampling equipment. However, the Sampling Plan provides a methodology for estimating the annual mass pollutant load without flow information.

Table 11-7. Pollutant Source for Each Source Identification Sampling Location

Source	Sampling Locations
Parking Lots	S-B05-5, S-B08-1, S-B08-2, S-B09-3, S-B11-4
Roof Runoff	S-B07-6, S-B08-8, S-B12-7
Runway	S-B03-10, S-B06-11, S-B08-9
Airport Operations	S-B06-12, S-B08-14, S-B12-13

For the parking lot and airport operations samples, the annual mass load was calculated for each sampling site using the following formula:

$$\textit{Annual Pollutant Load} = \textit{EMC (ug/L)} * \textit{Flow Volume (L)} * 2.2 \times 10^{-9}$$

where:

EMC = Event mean concentration for the season;

Flow Volume = Total annual flow volume

2.2×10^{-9} = Conversion factor from ug to lbs

The annual pollutant load from each sampling site was added together to represent the annual load from that particular source. For example, loads from S-B06-12, S-B12-13, and S-B08-14 were added together to get the total load from the "airport operations" source. Because the area contributing to the sample sites was smaller than the estimated total area for each pollutant source, the annual load was portioned up to estimated the load from the total pollutant area.

For the roof runoff and runway sample locations the annual pollutant loads were calculated using the grab sample EMC. Annual pollutant loads are calculated as follows:

*Annual Pollutant Load = Runoff area (sq ft) * Annual Rainfall (ft) * $(0.3048)^3$*1000*EMC/454,000*

where:

Annual Rainfall = 3.8 inches from October 2006 to May 2007

$(0.3048)^3$ = conversion from cubic feet to cubic meters

1000 = conversion factor from cubic meters to liters

EMC = Event mean concentration

454,000 = conversion factor from mg to lbs

The results of these calculations are presented in Table 11-8. The results from the grab sample annual load calculations are much larger than the results from the composite sample calculations. It appears that roofs are a much larger source of zinc and the runway/ramp is a source of copper. When comparing just the parking lots and airport operations, the parking lots are a larger source of zinc. The total copper load for both parking lots and airport operations are so close that there is not a statistical difference. Ranking the pollutant sources from highest to lowest pollutant load, the list appears as follows: 1) for total copper - runway/ramp, roofs, parking lots, airport operations; 2) for total zinc - roofs, runway/ramp, parking lots, airport operations.

CONCLUSIONS AND RECOMMENDATIONS FROM IMPLEMENTATION OF THE SAMPLING PLAN IN FY06-07

The analytical data for compliance sampling indicate that one or more benchmark exceedances occurred at all locations. The POCs exceeding the benchmarks were BOD, COD, total aluminum, total copper, total zinc, dissolved copper, and dissolved zinc in over 60% of the samples, and pH, Specific Conductivity, and total suspended solids in less than 60% of the samples. Total zinc consistently exceeded benchmarks in all drainage basins sampled. Dissolved zinc exceeded the benchmark in all drainage basins sampled, except for Drainage Basin 3; total and dissolved copper exceeded the benchmark in all drainage basins sampled, except for Drainage Basins 3 and 9; BOD exceeded the benchmark in all drainage basins sampled except for Drainage Basin 5; COD exceeded benchmarks in all except for Drainage

Table 11-8. Annual Pollutant Load Calculated for Pollutant Source Types

Source	Sampling Locations	Source Area (acres)	Pollutant of Concern	Annual Load (lbs)
Parking Lots	S-B05-5, S-B08-1, S-B08-2, S-B09-3, S-B11-4	80	Copper, Total	1.00
			Copper, Dissolved	0.60
			Zinc, Total	4.34
			Zinc, Dissolved	2.40
Roof Runoff	S-B07-6, S-B08-8, S-B12-7	40	Copper, Total	14.28
			Copper, Dissolved	8.96
			Zinc, Total	124.09
			Zinc, Dissolved	111.79
Runway	S-B03-10, S-B06-11, S-B08-9	320	Copper, Total	132.34
			Copper, Dissolved	105.36
			Zinc, Total	51.15
			Zinc, Dissolved	45.13
Airport Operations	S-B06-12, S-B08-14, S-B12-13	90	Copper, Total	0.91
			Copper, Dissolved	0.52
			Zinc, Total	2.11
			Zinc, Dissolved	1.85

Basins 5 and 9; pH exceeded benchmarks in all except for Drainage Basins 5 and 7, and aluminum exceeded benchmarks in all except for Drainage Basins 7, 8 and 12. Possible sources of the analytes that exceeded the benchmark values and the status of BMP implementation should be investigated within the upstream drainage basins. Another airport-wide site audit of BMP implementation was recently initiated and may provide some answers as to why exceedances occur within certain drainage basins. The site audit may also help lower pollutant levels by targeting areas that need improved BMP implementation.

Ranking the pollutant sources from highest to lowest pollutant load, the list appears as follows: 1) for total copper - runway/ramp, roofs, parking lots, airport operations; 2) for total zinc - roofs, runway/ramp, parking lots, airport operations.

The FY06-07 wet season source identification sampling results suggest that the runway/ramp areas and roofs be considered priority areas for the implementation of treatment control BMPs to reduce copper and zinc loads in storm water discharges. In fact, the Authority has already initiated a FY07-08 capital improvement roof downspout treatment BMP pilot program to reduce copper and zinc in roof runoff.

RESPONSE TO OCTOBER 31, 2007 RWQCB REVIEW LETTER

In the October 31, 2007 RWQCB Review Letter, RWQCB staff noted two issues that are addressed here. In Comment #4 of the letter, RWQCB staff "noted that the number and names of your sampling points (presented in Chapter 3, under the heading of "Stormwater Monitoring Related To Industrial Activities" in the FY05-06 Annual Report) have been revised from last year's annual report," and asked the Authority to "submit a revised site map, for the Storm Water Management Plan, showing the revised sampling locations with an explanation on the reasons for the relocation." The revised map of sampling locations to be incorporated into the Authority's SWMP is the same map presented in Appendix C of this report. The number and names of the sampling points points changed with the development and implementation of the November 2005 Sampling Plan, (the implementation of which has been discussed in detail throughout this chapter).

As stated previously, one of the ultimate goals both the Sampling Plan and the BMP Recommendations Report is to show that runoff water quality is improving over time as new BMPs are introduced or existing BMPs are more fully implemented or modified. In Comment #8, under the heading of Special Investigations, RWQCB staff directed the Authority to "please report when the Storm Water Management Plan will be updated and incorporate the recommendations from the final BMP Recommendations Report by MACTEC, dated March 2006." The recommendations of the BMP Recommendation Report will be incorporated into the revised SWMP currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

12 Assessment of Program Effectiveness

The Authority continues to evaluate the effectiveness of the SDIA stormwater management program in both the short-and long-term. For some time, the Authority has shared the concern of local, state, and national stormwater management practitioners regarding the means and methods used to assess the effectiveness of any stormwater management program. The San Diego Municipal Copermittees have developed, and continue to develop, criteria that allows for an assessment of the effectiveness of stormwater management efforts implemented in accordance with the Municipal Permit. The Copermittees produced "A Framework for Assessing the Effectiveness of Jurisdictional Urban Runoff Management Programs" (Framework) as a guidance document. The concepts developed in the Framework have since been incorporated into guidance offered by the California Stormwater Quality Association (CASQA). The Framework allows the Authority to conduct an assessment of: a) SDIA SWMP implementation; b) program effectiveness at improving stormwater discharge and receiving water quality; c) identification of management measures proven to be ineffective in reducing urban runoff pollutants and flow; and d) identification of any changes necessary to ensure the effectiveness of the program. The following presents both a narrative assessment of each component of the SDIA stormwater management program during FY06-07 and an assessment of the program in terms of the Framework. As a logical extension of the assessment, this chapter also identifies any improvement or degradation observed in water quality.

NARRATIVE ASSESSMENT OF PROGRAM COMPONENTS

Chapters 2 through 10 of this report outline the Authority's implementation of program components during FY06-07. A narrative assessment of each program component and identification of the strengths and weaknesses of the components are presented here. Taken as a whole, the SDIA SWMP is generally effective and in compliance with the Municipal Permit.

The Municipal, Industrial, and Commercial Components of the SWMP are designed to comply with both the Municipal Permit and the General Industrial Storm Water Permit. These components are considered to be well defined and properly implemented. Although the programs have been expanded to include implementation of stormwater management practices related to roads, parking lots, and recycling, most of the program elements of the Municipal Component have been in place since the 1990's when airport operations were first required to comply with the General Industrial Storm Water Permit. The Municipal, Industrial, and Commercial Components are essentially the strength of the SWMP. Chapter 3 identifies one change to the inventory of industrial operations - with 1 new tenant being added. In addition to this one inventory change, Chapters 2, 3, and 4 note that the Authority intends to conduct a thorough evaluation of the SWMP, and the need for further changes, in light of the output from the Storm Drainage System BMP Project and the re-issued Municipal Permit. Changes and modifications to the SWMP will appear in the revised plan currently being prepared and scheduled for submittal to the RWQCB in March of 2008.

The Land Use Planning Component of the SWMP has focused on adoption of the Airport Master Plan and the implementation of the SDIA SUSMP process. As noted in Chapter 6 of this Annual Report, the Master Plan continued to undergo CEQA review through FY05-06. None of the development projects initiated at the airport in FY06-07 were subject to the SUSMP process. The Land Use Planning Component of the SWMP remains effective. Any modifications to this component of the SWMP will appear in the revised plan scheduled for submittal to the RWQCB in March of 2008.

The Environmental Affairs Department continues to take an active role in pre-construction project meetings and regular project progress meetings with the construction contractors and relevant SDCRAA staff. The

Environmental Affairs Department also continues to inspect construction activities at a frequency in excess of the Municipal Permit requirements. The Construction Component of the SWMP is considered to be effective. Any modifications to this component of the SWMP will appear in the revised plan scheduled for submittal to the RWQCB in March of 2008.

As discussed in Chapter 8 of this Annual Report, the Authority issued 2 written Notices addressing unauthorized discharges during FY06-07. The dry weather monitoring program also identified 1 issue requiring further evaluation. In general, Chapter 8 notes that illicit discharges are being reported and resolved. The IDDE Component of the SDIA SWMP is considered effective. Any modifications to this component of the SWMP will appear in the revised plan scheduled for submittal in March of 2008.

The Education Component of the SDIA SWMP has been designed to increase public knowledge about stormwater issues and concerns both at the airport and throughout the San Diego Bay watershed. The tables included in Chapter 9 of this Annual Report outline the substantial amount of training and outreach conducted during FY06-07. The education and outreach efforts continue to expand in an attempt to strengthen the effectiveness of this component of the program. Any modifications to the SWMP will appear in the revised plan to be submitted to the RWQCB in March of 2008.

Chapter 10 of this Annual Report reports that there are numerous meetings either held by or attended by the Authority Board or staff which represent significant opportunities for public participation. In short, the Public Participation Component remains an effective element of the SDIA SWMP, and again, any modifications to the SWMP will appear in the revised plan scheduled for submittal in March of 2008.

Finally, Chapter 13 of this Annual Report demonstrates that the Authority has sufficient financial resources to implement the SDIA SWMP. The analysis presents the expenditures for FY06-07, the budget for FY07-08, the source of the funds, and a description of the use of these funds. Any modifications to the SWMP will appear in the revised plan scheduled for submittal in March of 2008.

ASSESSMENT OF THE SDIA SWMP PROGRAM USING THE FRAMEWORK

The following assessment of the SDIA stormwater management program is based on the Framework noted above. The Framework builds upon a foundation of basic program activity assessments (Program Assessment element) and moves towards a water-quality based assessment (Water Quality Assessment element) to evaluate the overall effectiveness of the program (Integrated Assessment element). The Framework uses direct and indirect measurements of program effectiveness, employs methods to estimate pollutant loads, and incorporates discharge and receiving water quality monitoring. The Framework presents a six-tier hierarchy of program outcomes that can be used independently or in combination to evaluate effectiveness. The six levels of assessment outcomes are listed below:

Level 1 - Compliance with Activity-based Permit Requirements
Level 2 - Changes in Knowledge/Awareness
Level 3 - Behavioral Changes and BMP Implementation
Level 4 - Load Reductions
Level 5 - Changes in Discharge Quality
Level 6 - Changes in Receiving Water Quality

The Authority recognizes the importance of evaluating the effectiveness of program components and the program as a whole. To that end, the Authority has adopted the Framework planning and implementation processes to conduct pollutant source characterization, select appropriate BMPs, target the outcomes of BMP implementation, and identify adequate measures of program effectiveness. The application of the Framework to the Authority's stormwater management program follows:

Level 1 - Compliance with Activity-based Permit Requirements

The Municipal Permit requires the establishment of specific urban runoff management program components, activities, and frequencies, with the assumption that these particulars will reduce urban runoff pollution and improve receiving water quality. The degree to which the activities required by the Permit are implemented constitutes the first level and foundation of the Framework program assessment hierarchy. Tracking this information over time allows the Authority to assess consistent and incremental program improvements. Table 12-1 presents the activity-based requirements of the Permit and the Authority's implementation of these requirements during FY06-07. As shown in Table 12-1, the Authority has met all the activity-based requirements of the Municipal Permit.

Table 12-1. Assessment of Activity-based Permit Requirements

Permit Section	Activity	Identified	Completed
F.1 Land Use	Number of projects subject to SUSMP requirements	0	0
F.2 Construction	Number of high priority construction sites subject to inspection	0	0
	Number of medium/low priority construction sites subject to inspection	8	8
	Number of enforcement actions taken	0	0
	Number of construction projects referred to RWQCB for enforcement of State General Construction Storm Water Permit	0	0
F.3.a Municipal	Number of high priority municipal operations subject to inspection	32	32
	Quantity of debris and material removed from the MS4 (in cubic yards)	12.5	12.5
	Quantity of debris and material captured by street sweeping (in cubic yards)	5.75	5.75
F.3.b Industrial	Number of high priority industrial operations subject to inspection	42	42
	Number of enforcement actions taken	9	9
	Number of operations referred to RWQCB for enforcement of State General Industrial Storm Water Permit	0	0
F.3.c Commercial	Number of high priority commercial operations subject to inspection	1	1
	Number of medium/low priority commercial operations subject to inspection	14	14
	Number of enforcement actions taken	1	1
F.4 Education	Number of stormwater related educational materials/brochures	Not applicable	2,500
	Number of stormwater education mechanisms for the general public	Not applicable	8
	Number of stormwater training mechanisms for staff	Not applicable	13
	Number of storm water training mechanisms for tenants	Not applicable	10
	Number of stormwater training mechanisms for construction project managers, developers, and contractors	Not applicable	6
F.5 IDDE	Number of dry weather monitoring locations for all of FY06-07	14	14
	Number of IDDE events recorded by hotlines and other reporting methods	Not applicable	220
	Number of enforcement actions taken	7	7
F.6 Public Participation	Number of types of participation mechanisms for staff and tenants	Not applicable	6
	Number of types of participation mechanisms for the general public	Not applicable	7

Level 2 - Changes in Knowledge/Awareness

One of the desired outcomes of the Authority's stormwater management program is a change in the knowledge, awareness, or attitudes of staff, tenants, and the general public. A major goal of the Authority's SWMP education and public participation efforts is to instill knowledge and awareness about stormwater management issues in these target audiences.

The Authority used three mechanisms during FY06-07 to assess changes in knowledge and awareness: (1) the IDDE hotline reporting information (Appendix B); (2) the number of hits to the Authority's environmental webpage; and 3) the number of staff and tenants taking a pledge to help keep the airport litter-free. As discussed in Chapter 8, the IDDE hotline records information on potential unauthorized ranging from trash and debris to spills of hazardous materials. It is expected that increased public awareness about the potential impacts of urban runoff will result in an increase in the number of incidents recorded in the 24-hour IDDE log, but that the number of incidents reported would decrease as staff and tenants became more aware of the illicit discharges and also as they began to properly implement BMPs. While no statistical assessment of the information has been performed as of yet, there were 220 IDDE incidents reported in FY06-07, in comparison to 257 incidents in FY05-06, 218 incidents in FY04-05, and167 incidents in FY03-04. It is possible that the increasing trend may have reached a plateau and expected reversal in the number of incidents has begun. At this time, the trend suggests that staff, tenants, and the general public are becoming more aware of stormwater pollution and the need for pollution prevention, and may be starting to properly implement BMPs.

The Authority's website, particularly the environmental webpage, provides staff, tenants, and the general public access to information regarding stormwater management efforts at SDIA, including the SWMP itself. Making basic stormwater management information available should increase public awareness of stormwater management concerns. The environmental webpage had a total of 14,433 hits during the reporting period. This represents an average of approximately 278 hits per week. Although the rate of weekly hits exceeds the 88 hits per week reported in the FY05-06 Annual Report, it is still less than the 370 hits per week recorded in FY05-06.

The average number hits per week in FY03-04 was reported to be 120. These four years of data are not yet indicative of a trend. As such, the Authority will continue to track the number of hits to the environmental webpage in future annual reports in an effort to assess the utility of this information in drawing conclusions about the effectiveness of the Authority's stormwater management program.

The FY04-05 and FY05-06 Annual Reports presented the results of a survey instrument the Authority used in each of those years to assess changes in knowledge and awareness of staff and tenants. The results of the survey suggested that the expanded education and outreach efforts of the Authority were being effective, althouth the statistical significance of the data had never been evaluated. In FY06-07, however, after having attending a community-based social marketing workshop, the Environmental Affairs Department determined that surveys were only one aspect of assessing changes in knowledge and awareness. In fact, according to community-based social marketing principals, surveys may be more effective at determining the motivation or lack of motivation on the part of an audience to actually effect a behavorial change. Other community-based social marketing mechanisms for effecting real change in a target audience include gaining more direct involvement from the audience in which change is desired. With these ideas in mind, during FY06-07, the Environmental Affairs Department abandoned the continue use of a survey and instead used a pledge on the part of tenants and staff to help keep the airport grounds litter-free as a mechanism to garner community involvement and germinate lasting knowledge and awareness of the behaviors that can improve the quality of stormwater running off the airport property. A combined total of 1,030 tenants and staff took the pledge: 780 tenants and 250 staff. The Authority will continue to expand the use of community-based social marketing to effect and assess changes in knowledge and awareness.

The education and outreach efforts of the Authority continue to expand. As seen in Chapter 9 of this report, these efforts included more terminal displays and signage, more Tenant Advisories, and more training. The impact of these expanded efforts in increases in tenant knowledge and awareness is suggested by the 1,030 people who in FY06-07 pledged to help keep the airport environment cleaner.

Level 3 - Behavioral Changes and BMP Implementation

One primary objective of the Authority's stormwater management program is to affect significant and lasting changes in the behavior of target audiences. Ideally, behavioral changes are expressed in terms of consistent BMP implementation. The Framework indicates that estimating or quantifying BMP implementation is one component of a successful effectiveness assessment strategy.

Both the FY04-05 and FY05-06 Annual Reports noted that the Authority had conducted a site-wide audit of BMP implementation by the Authority staff and tenants between February 2, 2005 and March 11, 2005. The methodology used to conduct the audit and the results of the audit were documented in the June 2005 Final Site Audit Report prepared by MACTEC. The audit was part of the Storm Drainage System BMP Project discussed in Chapter 11 of this report.

A detailed discussion of site audit was presented in this same section of the FY05-06 Annual Report. In short, the site audit contained elements of both the Program Assessment and Water Quality Assessment aspects of the Framework. In terms of Program Assessment, the site audit provides an accounting of BMP implementation activities, as well as an assessment of the spatial distribution of implementation activities, which may provide useful information as to whether priority areas and problems are being adequately addressed. The site audit helped to identify potential pollutant sources and to assess the level of implementation of SWMP-required BMPs by staff and tenants. The site audit developed standardized methods for documenting potential pollutant sources and BMP implementation. The site audit established a baseline for assessing future changes in behavior and BMP implementation. The site audit represents a major step by the Authority to develop a mature program assessment strategy.

The site audit was organized around the BMP categories contained in the SWMP. During the Site Audit, staff and tenants were questioned about the level of implementation of required BMPs, including treatment or structural BMPs, for each potential pollutant source. BMP implementation rates were then calculated for the Authority as a whole, individual tenants, and 4 general land use categories. Implementation rates alone did not fully describe how

well BMPs were implemented by any particular operation - whether the Authority or tenant. Other factors needed to be considered, such as the complexity of the operations. The Site Audit developed a method to weigh the operational complexity of BMPs required for implementation. The BMP implementation rates and total complexity scores for operations conducted by either Authority staff or tenants were presented in the Final Site Audit Report and discussed in the FY05-06 Annual Report.

As stated in the June 2005 Final Audit Report, and both the FY04-05 and FY05-06 Annual Reports, the Authority has always intended to perform future audits using the same criteria to allow for continued comparison and evaluation of the Authority's stormwater management program effectiveness. Each of these earlier reports also note that the site audit is not intended to be conducted annually, but more appropriately on a bi-annual basis. A second site audit was initiated at the end of FY06-07. The results of the second audit found that: a) no tenant scored a BMP implementation rate of 60 percent or less (compared to 2 tenants in the FY04-05 audit); b) 4 tenants scored between 61 and 80 percent (compared to 16 in FY04-05 audit); and c) 28 (including the Authority) scored between 81 and 100 percent (compared to 14 in the FY04-05 audit). The results indicate an overall improvement in BMP implementation at SDIA. The land use category BMP implementation rates were: a) Commercial at 87 percent (compared to 64 percent in FY04-05 audit); b) Industrial-Tenant at 86 percent (compared to 78 percent in the FY04-05 audit); c) Industrial - Airport Operations at 84 percent (compared to 68 percent in FY04-05); and d) Ground Transportation at 78 percent (compared to 61 percent in the FY04-05 audit). These results also indicate improvements in BMP implementation at SDIA. The median implementation frequency for tenants and the Authority combined also increased from 77.3 percent in the FY04-05 audit to 86.7 percent in the FY06-07 audit.

The site audits conducted in FY04-05 and FY06-07 identified deficiencies in BMP implementation and provided a list of recommended changes for the Authority's stormwater management program. Appropriate modifications to the SWMP will appear in the revised plan scheduled for submittal to the RWQCB in March of 2008. The site audits also provided the Authority with a better understanding of pollutant sources associated with airport activities, as well as an initial baseline on BMP implementation rates that can be used

to assess future behavioral changes in BMP implementation. The findings of these and future site audits will also be used to increase awareness and help to produce changes in behavior and BMP implementation rates.

Level 4 - Load Reductions

The primary goal of BMP implementation is to reduce the pollutant loadings to stormwater discharges and, in turn, effect improvements to receiving water quality. Evaluating load reductions related to BMP implementation is one part of the Authority's program assessment process and part of the Framework. By working to establish Framework Level 4 outcomes, the Authority hopes to understand the relationship of BMP implementation to water quality improvement. The site audit, discussed in the Level 3 program assessment above, began the identification and characterization of the pollutants of concern that impact storm water quality at the airport. The results of the site audit also influence the revised Sampling Plan, dated November 2005. The continued development of both the site audit process and the implementation of the Sampling Plan are designed to provide the Authority with mechanisms for estimating load reductions related to the improved implementation of existing BMPs and/or the implementation of new BMPs as part of the Authority's stormwater management program.

The contribution of specific sources to stormwater runoff at the airport are not currently well-known, although probable contributors appear to be fairly ubiquitous throughout the airport and, possibly, adjacent properties. The site audit determined that the activities and sources most closely associated with the airport operations, industrial, and ground transportation land use categories are assumed to be the primary contributors of potential pollutants. The 3 probable contributors of the copper and zinc associated with both the airport operations and ground transportation land use categories are: 1) vehicle and aircraft use and emissions; 2) galvanized metal structures; and 3) atmospheric deposition. The probable contributors of copper, zinc and other metals associated with industrial land uses are: 1) vehicle, equipment, and aircraft maintenance and emissions; 2) outdoor storage and use of paints, motor oils, inoperable vehicles, etc.; 3) industrial spills and releases; and 4) other industrial activities.

As discussed in Chapter 11 above, the "source identification sampling element" of the Sampling Plan was implemented during the FY06-07 wet season. The element built on the outcome of the FY04-05 audit and evaluated sources of POCs in terms of annual mass loading in storm water, the potential for reduction through BMP implementation, and the best combination of sources to address through BMP implementation to achieve pollutant load reductions. Fourteen (14) sampling locations were selected to characterize the quality of non-industrial storm water runoff associated with vehicle and aircraft use and emissions, atmospheric deposition, and galvanized metal structures, particularly metal roofs. The site audit had identified copper and zinc and the primary POCs and so the source identification element of the Sampling Plan focused on these pollutants.

Source identification sampling was performed during six storm events in the FY06-07 wet weather sampling season. The results of the sampling were analyzed to determine which source(s) appear to contribute the largest amount of pollutants. First, the samples were categorized by the spatial location and by the source of the pollutants to help determine if certain drainage basins had higher pollutant concentrations. The source of the pollutants can be used to target BMP implementation. Second, mass loadings for copper and zinc were calculated for the different pollutant sources.

In terms of spatial trend analysis, the results from Drainage Basin 7 were the highest for both total copper and total zinc. The next highest results were from Drainage Basin 6 for total copper and Drainage Basin 8 for total zinc, representing sources from the runway and a parking lot, respectively. In terms of pollutant sources and mass loading analysis, the annual mass load was calculated for each source. Results of the analysis showed that roofs appeared to be a much larger source of zinc, estimated to be as much as 225 lbs annually. The runway/ramp was the larger source of copper, estimated to be as much as 235 lbs annually. As for the parking lots and airport operations, the parking lots were a larger source of zinc, although estimated at less than 7 lbs annually. The total copper load for both parking lots and airport operations were estimated to be slightly more than 1.5 lbs, and so close that there was no statistical difference. Ranking the pollutant sources from highest to lowest pollutant load, the list appeared as follows:
1) for total copper - runway/ramp, roofs, parking lots, airport operations;
2) for total zinc - roofs, runway/ramp, parking lots, airport operations.

The outcomes from completed and future site audits, as well as the results from the dry and wet season monitoring programs outlined in the Sampling Plan, will be used to prioritize stormwater management activities and identify potential program improvements. By working to establish Framework Level 4 outcomes, the Authority hopes to gain an understanding of the relationship of required BMPs to water quality improvement. To avoid specious conclusions, these load reduction estimation exercises often require large datasets collected over time. The Level 4 assessment provided here outlines a process for estimating future load reductions and provides baseline information from which to draw future comparisons.

Level 5 - Discharge Quality

Changes in discharge quality should be the direct result of successful stormwater management program implementation. Establishing relationships between discharge quality and specific program components, however, can still be difficult. The 2 NPDES permits applicable to SDIA require that the quality of stormwater runoff from SDIA not cause or contribute to the violation of applicable water quality standards. Although neither of these 2 NPDES permits contains effluent limitations, they both require monitoring programs. The Municipal Permit requires a jurisdictional dry weather monitoring program. The results of the Authority's dry weather monitoring program are presented in Chapter 8 of this Annual Report. The General Industrial Stormwater Permit requires a facility to conduct wet weather stormwater sampling. The results of the Authority's wet weather monitoring program are presented in Chapter 11 of this report.

The results of the Authority's dry weather monitoring program, presented in Chapter 8 of this report, indicate that there were only 3 sites, out of 14 monitored in FY06-07, at which a sufficient volume of water was present to allow sampling (once field analyses ruled out the likelihood of salt water intrusion). The ponded water sampled at one of these 3 sites did not exceed the field sampling action levels, although there was an insufficient volume of water to allow for the collection of a sample for laboratory analysis. Laboratory analyses of the ponded water collected at another of the 3 sites reported copper concentrations exceeding the action level on both occasions on which the site was sampled, and zinc concentrations exceeding the action level on one of those occasions. Field sampling of the

ponded water at this site did not exceed any action levels on either of the two occasions on which it was found. The laboratory results suggesting copper and zinc as potential pollutants of concern are consistent with the long history of results from the Authority's wet weather sampling program. Finally, the last of the 3 sites which contained a sufficient volume of ponded water to allow sampling had ponded water on all three occasions that the site was monitor (twice in accordance with the program schedule and once as a follow-up to the results of earlier sampling). Water samples collected from this third site suggested that ammonia may be a pollutant of concern, although a series of both field and laboratory analysis have produced inconsistent results over time. Trash and debris may be the cause of the ammonia and future dry weather monitoring will watch the issue closely.

Chapter 11 of this Annual Report states that the results of the "compliance sampling element" of the wet weather monitoring program performed at SDIA during the FY06-07 wet season were consistent with the historical trends. Results from the compliance sampling element were compared to the USEPA Multi-Sector General Permit (for industrial activity) benchmarks. The median concentrations calculated for the compliance sampling POCs were compared to the benchmarks to determine the number of exceedances that occurred. Ammonia, oil and grease, total iron, total lead, and ethylene glycol did not exceed the benchmarks. BOD, COD, total aluminum, total copper, total zinc, dissolved copper, and dissolved zinc exceeded the benchmarks in over 60% of the samples. The remaining POCs exceeded the benchmarks in less than 60% of the samples. The analytical data also showed that one or more of the benchmark exceedances occurred at every sample location.

As previously state, the Authority now has a new stormwater Sampling Plan, prepared by MACTEC and dated November 2005, that addresses the runoff sampling requirements of the General Industrial Storm Water Permit and provides an indication of discharge quality. MACTEC evaluated the quality of the existing historic stormwater sampling data set and recommended a sampling program that provides representative sample locations and a sufficient amount of data to provide adequate statistical power in evaluating long-term program effectiveness. Development of the Sampling Plan also included consideration of the variability in annual precipitation patterns at the airport and the impact of such variability on program implementation

and on the assessment of long-term program effectiveness. Although completed in November of 2005, FY06-07 was the first season in which the wet weather monitoring was conducted in accordance with the Sampling Plan. Over time, data collected in accordance with this new sampling plan will allow the Authority to evaluate changes in discharge water quality, and perhaps, relate improved discharge water quality to improvements in the Authority's stormwater management program.

Level 6 - Changes in Receiving Water Quality

The ultimate objective of the Authority's stormwater management program is to protect the water quality of the water bodies receiving discharges from the Authority's MS4. That receiving water is San Diego Bay. Level 6 measures can be addressed through outcomes such as compliance with regulatory benchmarks, protection of biological integrity, and beneficial use attainment. The Authority has not conducted any receiving water quality monitoring independent of the Copermittee Receiving Water Monitoring Program, since neither of the two NPDES permits currently applicable to activities at SDIA requires that the Authority monitor receiving waters and/or benthic communities to detect the potential impacts of stormwater runoff. The Authority must rely on studies conducted by others to evaluate Framework Level 6 outcomes and attempt to establish relationships, if possible, between receiving water quality and specific program components of the Authority's stormwater management efforts.

The receiving water quality issues in the vicinity of the airport that have been studied or noted by others have generally resulted from the activity related to federal Clean Water Act (CWA) Section 303(d) requirements. The waters of San Diego Bay in the vicinity of the airport are currently on the 2002 CWA Section 303(d) list of water quality segments for 1) benthic community effects, 2) sediment toxicity, and 3) bacteria indicators. A 2006 CWA Section 303(d) list of water quality limited segments which was adopted by the State Water Resources Control Board in October of 2006, and approved by the Environmental Protection Agency in June of 2007, includes copper as a pollutant in the marinas along Harbor Island in the vicinity of the airport.

The RWQCB has been in the process of investigating the establishment of TMDLs for 19 of the 38 bacteria-impaired waterbodies in the San Diego region in a two part study (Project I and Project II). Project I looked at indicator bacteria in beaches and creeks in the San Diego region. Project II will look at bacteria-impaired shorelines in San Diego Bay and Dana Point Harbor. As in FY05-06, no technical reports were released in FY06-07 for Project II. The Authority will continue to track the progress of Project II.

In regards to the TMDL process for benthic community effects and sediment toxicity in the vicinity of the airport, the RWQCB did not release any new information during the FY06-07 reporting period. The most recent activity remains the release of the Final Report, in June of 2005, entitled "TMDL Sediment Quality Assessment Study at the B Street/ Broadway Piers, Downtown Anchorage, and Switzer Creek, San Diego, Phase II, Temporal Variability, Causes of Impacts, and Likely Sources of Contaminants of Concern." Without additional information or data, the Authority cannot draw any new inferences from this TMDL process to help measure the effectiveness of the Authority's stormwater management program in accordance with Level 6 of the Framework.

INTEGRATED EFFECTIVENESS ASSESSMENT

An integrated assessment of the Authority's stormwater management program uses the results of the Framework's Program Implementation Assessment and Water Quality Assessment to draw general conclusions about overall effectiveness. Based on the information discussed for Framework Level 1 through 6 outcomes above, the management measures currently being implemented by the Authority are generally effective. The Authority has demonstrated compliance with the Level 1 activity-based permit requirements. The Authority continues to expand and evaluate education and outreach efforts. The number of tenants and Authority staff who have taken a pledge to help keep the airport clean, as discussed in the Level 2 assessment above, suggests that the awareness of tenants and staff appears to be on the rise. The Level 3, Level 4, and Level 5 outcome assessments above made extensive use of the site audits and the results of the FY06-07 wet and dry season stormwater monitoring information. The site audit information has used the baseline BMP implementation rates established by the first audit to draw some initial comparisons with the second audit performed in FY06-07. Both the audits and the stormwater sampling program have provided some insight into the POCs and their apparent loads

in stormwater runoff at the airport. The audit and sampling programs will allow the Authority to more accurately assess Level 3 and Level 4 outcomes in future years. The new stormwater Sampling plan, implemented fully for the first time in FY06-07, establishes a monitoring program that should prove more representative of runoff water quality at SDIA. The discharge water quality information collected in FY06-07 and discussed in the Level 5 assessment above noted that discharge water quality continues to match the historical trend of exceeding benchmarks for copper and zinc. The assessment at Framework Level 6 (changes to receiving water quality) remains a difficult and complex task, involving numerous assumptions about the relationship of runoff water quality from the airport on receiving water quality in San Diego Bay. Efforts by the Authority to refine the Level 6 assessment continue to rely on collaboration with regional monitoring due in part to the extensive resources required and longer timeframes generally required to collect sufficient monitoring data from which to draw conclusions. On the whole, the Authority's stormwater management program continues to be effective at preventing, minimizing, and/or eliminating impacts to the water quality of San Diego Bay.

The Authority continues to assemble information on those factors which appear to be key for assessing the stormwater management program and for recommending improvement to the program. As noted in the previous Annual Reports, the elements being assembled include:

Baseline compliance with permit requirements
Baseline awareness of program requirements
Pollutant source characterization - activities, pollutant types, required BMPs
Baseline levels of behavior and BMP implementation
Load reduction estimates (based on activities, pollutant types, rainfall, etc.)
Spatial and temporal monitoring data

The Authority has developed methods to assess program effectiveness in terms of Levels 1 through 5 of the Framework. As information is collected, the Authority will continue attempts to link implementation of the program directly to discharge water quality. The Authority has also developed procedures to identify pollutants, required BMPs, and the implementation rates for the required BMPs. Over time, the Authority intends to estimate the load reductions from BMP implementation and attempt to connect those estimates to the results of runoff monitoring. As BMP implementation rates

increase, it is expected that the pollutant loadings will decrease. It is the goal of the Authority's stormwater management program to prevent or eliminate impacts to the water quality of San Diego Bay.

MANAGEMENT MEASURES PROVEN TO BE INEFFECTIVE

The Annual Report for FY04-05 suggested that the Authority's education and outreach efforts may not have been adequate in reaching the tenants, although the report noted that "it would be premature to say that the education efforts are ineffective." Nonetheless, the Authority began to expand the education and outreach efforts directed at tenants during FY05-06 and continued those efforts in FY06-07. The information presented in the Framework Level 2 program effectiveness assessment above indicates that the education and outreach efforts now in place appear to be effective at reaching the tenants.

Taken on the whole, the information presented throughout this report indicates that the majority of the management measures currently being implemented by the Authority have proven to be effective. The Municipal Permit emphasizes an iterative process to improve both BMPs and stormwater management measures as a whole. As such, the Authority will continue to refine and employ the Framework and site audit methodologies discussed in this chapter to identify and enhance effective stormwater management measures and to discontinue those that prove ineffective.

WATER QUALITY IMPROVEMENT OR DEGRADATION

The discharge water quality information discussed above and in Chapter 11 of this report noted that discharge water quality continues to match historical trends and to exceed benchmarks for copper and zinc. The results of the wet weather monitoring program implemented in FY06-07 also suggest that BOD, COD, and to a lesser extent, total aluminum, may be potential POCs given the number of times sample concentrations exceeded the benchmarks. However, the concerns for BOD, COD, and total aluminum suggested by the FY06-07 data do not match historical trends for monitoring data from the airport. The results of the dry weather monitoring conducted in FY06-07 also appear to confirm copper and zinc as POCs and suggest that ammonia be closely evaluated at discreet airport locations. Continued implementation of the stormwater Sampling Plan, which was fully implemented for the first time in FY06-07, will lead to future evaluation and validation of discharge water quality at SDIA using trend analysis and other statistical methods.

PROPOSED PROGRAM CHANGES AND REVISIONS TO THE SWMP

The SWMP was last revised in January of 2005. As noted at the end of Chapter 2 of this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

13 Fiscal Analysis Component

The Municipal Permit requires the Authority to demonstrate sufficient financial resources to implement the SDIA SWMP. The fiscal analysis presented here includes the expenditures for FY06-07, the budget for FY07-08, the source of the funds, a description of the use of these funds, and any legal restrictions on the use of the funds.

STORM WATER MANAGEMENT PROGRAM ELEMENTS

The bulk of expenditures related to the implementation of the SWMP pass through the Environmental Affairs Department and the Facilities Maintenance Department. The Environmental Affairs Department is responsible for administrative functions within the Storm Water Management Program, including budget management and planning. The Environmental Affairs Department staff carries out the administrative and educational activities for the program, including: a) budgetary management and planning; b) enforcement and inspection; c) monitoring and reporting; d) interagency coordination and Copermittee involvement; e) assistance to other groups outside the department; f) internal and external training, workshops, and public events; and g) helping to secure the materials and equipment necessary to perform required tasks.

Table 13-1. Storm Water Management Program Expenditures for FY06-07

Description	Costs
A. Personnel Expenses	
1. Environmental Affairs Department	$284,800
2. Facilities Maintenance Department	$737,600
Subtotal	$1,022,400
B. Non-Personnel Expenses	
1. NPDES Permit Fees	$3,300
2. Professional Services	
a. Legal	$0
b. Consulting	$153,500
3. Routine Maintenance	$17,000
4. Ramp Cleaning/Runway Rubber Removal	$600,000
5. Landscape Maintenance	$184,000
6. MS4/BMP Cleaning/Maintenance	$258,000
7. Parking Lot and Street Sweeping	$59,000
8. Hazardous Waste Disposal	$47,000
9. Equipment Purchases	$225,000
10. Education, Training, and Public Outreach	$45,000
Subtotal	$1,591,800
C. Capital Improvement Program Expenses	
1. General Dynamics Lot and Dust Mitigation Project (CIP #4022)	$0
Subtotal	$0
GRAND TOTAL	**$2,614,200**

The Facilities Maintenance Department is responsible for the maintenance (O&M) aspects of the program, including: a) inspection and maintenance of the MS4; b) maintenance of facilities and grounds; c) securing the materials, equipment, and vehicles necessary to perform required tasks; and d) supporting the management of the Authority's wastes.

FISCAL-YEAR 2006-2007 EXPENDITURES

Financial resources for implementation of the SWMP are allocated into administration, education, O&M, and capital expenditures components. The annual costs for the activities under each of these components falls into one of the following expense categories: personnel, non-personnel, or Capital Improvement Program (CIP).

The total expenditures for implementation of the SWMP in FY06-07 was $2,614,200. The expenses for FY06-07 are shown in Table 13-1 according to expense category. A total of $1,022,400 was expended on staff time for the Environmental Affairs and Facilities Maintenance Departments to carry out the program. Staff time for the Environmental Affairs Department equated to $284,800 and the staff time for the Facilities Maintenance Department equated to an allocation of $737,600.

Non-personnel expenses represent permit fees and contracted services necessary to implement and maintain all the program activities listed in Table 13-1, including professional services, site and infrastructure cleaning and maintenance, training, and education and public outreach efforts. Total expenditures for Non-Personnel items during FY06-07 were $1,591,800.

In FY06-07, the Authority budgeted funds to one CIP project related to the stormwater management program, namely, CIP Project #4022 "General Dynamics Lot and Dust Mitigation Project." However, no funds were expended on this CIP project during FY06-07.

FISCAL-YEAR 2007-2008 BUDGET

Table 13-2 presents the SWMP implementation budget of $2,981,000 for FY07-08. A total of $1,060,000 is allocated for the combined staff time of the Environmental Affairs Department and the Facilities Maintenance Department.

A total of $1,685,000 is allocated for Non-Personnel expenses in FY07-08, including professional services, site and infrastructure cleaning and maintenance, training, and education and public outreach efforts.

The remainder of the FY06-07 budget, $146,000, is represented by 2 CIP Projects: a) CIP Project #4022 General Dynamics Lot and Dust Mitigation; and b) CIP Project #4057 Stormwater Management Pilot Project.

REVISIONS TO THE SWMP

There are no revisions to the Fiscal Analysis Component of the SWMP. As noted elsewhere throughout this report, the Authority has intended to revise the SWMP since the last Annual Report, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

Table 13-2. Storm Water Management Program Budget for FY07-08

Description	Budget
A. Personnel Expenses	
1. Environmental Affairs Department	$295,000
2. Facilities Maintenance Department	$765,000
Subtotal	$1,060,000
B. Non-Personnel Expenses	
1. NPDES Permit Fees	$35,000
2. Professional Services	
a. Legal	$25,000
b. Consulting	$350,000
3. Routine Maintenance	$25,000
4. Ramp Cleaning/Runway Rubber Removal	$580,000
5. Landscape Maintenance	$215,000
6. MS4/BMP Cleaning/Maintenance	$250,000
7. Parking Lot and Street Sweeping	$65,000
8. Hazardous Waste Disposal	$75,000
9. Equipment Purchases	$50,000
10. Education, Training, and Public Outreach	$50,000
Subtotal	$1,685,000
C. Capital Improvement Program Expenses	
1. General Dynamics Lot and Dust Mitigation Project (CIP #4022)	$120,000
2. Stormwater Management Pilot Project (CIP #4057	$26,000
Subtotal	$146,000
GRAND TOTAL	**$2,981,000**

14 Conclusions and Recommendations

The FY06-07 Annul Report summarizes the Authority's efforts to manage stormwater at SDIA in compliance with the San Diego Municipal Permit. Based upon this Annual Report and the Annual Reports for FY03-04, FY04-05, and FY05-06, the Authority believes the stormwater management program at SDIA is adequately planned, executed, reviewed, and funded. This chapter summarizes information to support a determnation that the Authority stormwater management program fulfills the requirements of the Municipal Permit. Also highlighted herein are any recommendations for program improvements that may further enhance stormwater pollution prevention and control measures at SDIA.

Conclusions about the Authority's stormwater management program are presented in 4 basic categories: 1) overall program compliance status; 2) effective stormwater management program components; 3) program elements identified for improvement; and 4) revisions to the SDIA SWMP.

CONCLUSIONS

1. Overall Program Compliance Status

Information presented throughout this report, particularly Chapter 12 (Assessment of Program Effectiveness), supports a determination that the Authority's stormwater management efforts are in general compliance with the Municipal Permit.

2. Effective Stormwater Management Program Components

Based on the results of current program implementation and the findings of the FY06-07 effectiveness assessment in Chapter 12, the management measures currently being implemented have proven to be effective.

3. Program Elements Identified for Improvement

Again, the majority of the management measures currently being implemented by the Authority have proven to be effective. The assessment of program effectiveness in Chapter 12 did not identify any particular stormwater management program elements in need of improvement.

4. Revisions to the SDIA SWMP

As noted several times throughout this report, the Authority has intended to revise the SWMP using the output from the Storm Drainage System BMP Project, but was awaiting the adoption of the new Municipal Permit before making any revisions in order to simultaneously incorporate the output of the Storm Drainage System BMP Project and any changes required by the new permit. The recent adoption of both the new Municipal Permit and the first amendment to the permit have extended the deadline for submitting a revised SWMP to March 24, 2008. As such, changes to the SWMP, including updates to any component category inventories, will appear in the revised plan currently being prepared in response to the re-issued Municipal Permit and scheduled for submittal to the RWQCB in March of 2008.

RECOMMENDATIONS

Aside from the general recommendation to continue effective and cost-efficient implementation of existing stormwater management efforts, there are no specific recommendations at this time. Following the recommendations of previous Annual Reports, the Authority continues to review and expand upon effective education and outreach efforts for staff and tenants as a means raising general awarenss of stormwater concerns and of achieving improved BMP implementation rates. Information provided in this report indicates that current education and outreach efforts are effective. Successful education efforts should lead to improved BMP implementation.

CLOSING

The FY06-07 Annual Report clearly demonstrates that the stormwater management program at SDIA is adequately planned, executed, reviewed, and funded. The program generally fulfills the requirements of the Municipal Permit. The Authority strives to enhance existing stormwater pollution prevention and control measures at SDIA, to eliminate ineffective measures, and to identify, develop, and incorporate more effective measures whenever possible. Potential stormwater impacts are just one characteristic of the airport's "environmental footprint" that the Authority aims to minimize.

Appendix A

FY06-07 Dry Weather

Monitoring Data Sheets

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B01-1	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, south of Jim's Air, north of runway 9/27	**Longitude**	-117.1774		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	8:03am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA	
Color	None	Yellow	Brown	White	Gray	X Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B03-2	**Latitude**	32.72863	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, directly south of B1-D sign	**Longitude**	-117.17840		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	908.21
Time	7:55am	**Observer**	MF, RS, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -1.1 ft.
Last Rain	X > 72hours	< 72 hours			
Rainfall	X None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	Salty
Color	X None	Yellow	Brown	White	Gray	Other	
Clarity	X Clear		Slightly Cloudy	Opaque		Other	
Floatables	None	Trash	Bubbles/Foam	X Sheen (dusty)	Fecal Matter	Other	
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | X Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? X Yes | No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	53,142	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	tidal	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site smelled like seawater, dusty sheen visible on surface. High conductivity indicates seawater.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B05-3	**Latitude**	32.73389	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of SwissPort operations area, north of runway 9/27	**Longitude**	-117.18294		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	8:10am	**Observer**	MF, RS, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: A rope was hanging from the grate, connected to a sediment monitor.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-4	**Latitude**	32.73063	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.18298		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 G1		**Hydrologic Subarea** (Optional)	908.21
Time	7:50am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -1.1 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	tidal	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Some very shallow pools of water in sediment. No flow observed. Sediment layer is too deep to take a sample with a water pump.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B06-5	**Latitude**	32.73581	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.18632		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	8:15am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -0.5 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	X None	Yellow	Brown	White	Gray		Other
Clarity	X Clear		Slightly Cloudy	Opaque			Other
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	x None	Limited	Normal	Excessive			Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	32,342	Reactive-P (mg/L)	NA
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	tidal	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Ponded water in inlet, upstream pipe had no flow, water is ponded in upstream pipe. High conductivity indicates seawater.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B07-6	**Latitude**	32.73083	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet at south end of ASIG, near wash rack	**Longitude**	-117.19304		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:38am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: This is the new location for the site. A metal plate was covering the inlet and a worker from ASIG came to move the plate for field observations. The plate was put back in place.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B07-7	**Latitude**	32.72998	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet at south end of Delta cargo storage area, west of west wing	**Longitude**	-117.19387		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:27am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog	
Tide	x N/A	Low	Incoming	High	Outgoing **Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Some weed growth and some trash observed around the basin.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8	**Latitude**	32.73126	**Watershed**	**Hydrologic Unit**	908
Location	Manhole near Southwest Airlines, Gate 1	**Longitude**	.117.19582		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:20am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): x Manhole | Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	X Sunny	Partly Cloudy	Overcast	Fog		
Tide	X N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA	
Color	None	Yellow	Brown	White	Gray	X Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Performed site visit, but did not open manhole. Site may be tidally influenced.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8A	**Latitude**	32.73275	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in front of Gate 5	**Longitude**	-117.19544		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:18am	**Observer**	MF, RS, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Filter fabric is still in place as a construction BMP.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B04-9	**Latitude**	32.72796	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet outside of perimeter fence, near beacon, west of Harbor and Laurel	**Longitude**	-117.18047		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	7:28am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -1.2 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	tidal	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Very shallow, ponded tidal water. No flow observed.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B04-9A	**Latitude**	32.72783	**Watershed**	**Hydrologic Unit**	908
Location	Concrete channel south of C-B04-9, west of Harbor and Laurel	**Longitude**	-117.18051		**Hydrologic Area**	908.2
Date	07/13/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	7:25 am	**Observer**	RS, MF, JH		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -1.2 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	X None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage		X Other
Color	None	Yellow	Brown	White	Gray		X Other
Clarity	Clear		Slightly Cloudy	Opaque			X Other
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	None	x Limited	Normal	Excessive			Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	tidal	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Some shallow, ponded water, most likely tidal due to past observations. No flow observed.

San Diego Stormwater Copermittees

Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B01-1	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, south of Jim's Air, north of runway 9/27	**Longitude**	-117.1744		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	10:38am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B03-2	**Latitude**	32.72863	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, directly south of B1-D sign	**Longitude**	-117.17840		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	908.21
Time	10:26am	**Observer**	MF, RS		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 4.9 ft.
Last Rain	X > 72hours	< 72 hours			
Rainfall	X None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	X None	Yellow	Brown	White	Gray	Other
Clarity	X Clear		Slightly Cloudy	Opaque		Other
Floatables	X None	Trash	Bubbles/Foam	X Sheen	Fecal Matter	Other
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	X None	Limited	Normal	Excessive		Other
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | X Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? X Yes | No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	71,358	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site had ponded water. High conductivity indicates seawater.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-3	**Latitude**	32.73389	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of former SwissPort operations area, north of runway 9/27	**Longitude**	-117.18294		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	9:04am	**Observer**	MF, RS		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site was dry. A rope was hanging from the grate, connected to a sediment monitor.

San Diego Stormwater Copermittees

Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-4	**Latitude**	32.73063	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.18298		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 G1		**Hydrologic Subarea** (Optional)	908.21
Time	10:23am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** 4.9 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Water was too shallow and sediment was too deep to take a sample with the pump. Site had an automatic sampling device installed by MACTEC.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B06-5	**Latitude**	32.73581	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.18632		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	9:10am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only)	Residential	Commercial	x Industrial	Agricultural	Parks	Open	
Land Use (Secondary) (Optional, greater than 10%)	Residential	Commercial	Industrial	Agricultural	Parks	Open	x None
Conveyance (Check one only)	Manhole	x Catch Basin	Outlet	Concrete Channel	Natural Creek	Earthen Channel	Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog	
Tide	x N/A	Low	Incoming	High	Outgoing **Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	x None	Limited	Normal	Excessive		Other	
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing Ponded x Dry Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes X No Irrigation Runoff Other: _____

Photo Taken x Yes No **Photo #** _____

Field Screening Samples Collected? Yes x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site has an automatic sampling device installed by MACTEC.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B07-6	**Latitude**	32.73083	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet at south end of ASIG, near wash rack	**Longitude**	-117.19304		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	10:04am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: The metal plate was partially moved, so the site was visually accessible.

San Diego Stormwater Copermittees

Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B07-7	**Latitude**	32.72998	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet south of cargo area, in the west wing parking lot	**Longitude**	-117.19387		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	7:35am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is now located in the west wing parking area, due to the recent additions to the parking area.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8	**Latitude**	32.73126	**Watershed**	**Hydrologic Unit**	908
Location	Manhole near Southwest Airlines, Gate 1	**Longitude**	-117.19582		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:35am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only)	Residential	Commercial	x Industrial	Agricultural	Parks	Open	
Land Use (Secondary) (Optional, greater than 10%)	Residential	Commercial	Industrial	Agricultural	Parks	Open	x None
Conveyance (Check one only)	x Manhole	Catch Basin	Outlet	Concrete Channel	Natural Creek	Earthen Channel	Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 3.3 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	X None	Yellow	Brown	White	Gray		Other
Clarity	X Clear		Slightly Cloudy	Opaque			Other
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	X None	Limited	Normal	Excessive			Other
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing x Ponded Dry x Tidal

Does the storm drain flow reach the Receiving Water? Yes No x N/A

Evidence of Overland Flow? Yes x No Irrigation Runoff Other: _____

Photo Taken x Yes No **Photo #** _____

Field Screening Samples Collected? X Yes No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	71,664	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Opened manhole and used pump to collect sample. High conductivity indicates seawater. No flow observed.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8A	**Latitude**	32.73275	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in front of Gate 5	**Longitude**	-117.19544		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	9:26am	**Observer**	MF, RS		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	X Partly Cloudy	Overcast	Fog		
Tide	x N/A	Low	Incoming	High	Outgoing	**Tide Height:**_____ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA
Color	None	Yellow	Brown	White	Gray	x Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	X None	Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Filter fabric is still in place as a construction BMP. No surface runoff was observed to be flowing to the site.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B04-9	**Latitude**	32.72796	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet outside of perimeter fence, near beacon, west of Harbor and Laurel	**Longitude**	-117.18047		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	8:15am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** 1.5 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	X None	Yellow	Brown	White	Gray	Other
Clarity	X Clear		Slightly Cloudy	Opaque		Other
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	x None	Limited	Normal	Excessive		Other
Biology	x None	Insects / Algae	Fish / Snails	Mussels/ Barnacles	Insect/ Algae / Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	39,753	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Very shallow, ponded tidal water.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B04-9A	**Latitude**	32.72783	**Watershed**	**Hydrologic Unit**	908
Location	Concrete channel south of C-B04-9, west of Harbor and Laurel	**Longitude**	-117.18051		**Hydrologic Area**	908.2
Date	08/10/06	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	8:11am	**Observer**	RS, MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** 1.5 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	X None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	X None	Yellow	Brown	White	Gray	Other
Clarity	X Clear		Slightly Cloudy	Opaque		Other
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	None	x Limited	Normal	Excessive		Other
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | x Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? xYes | No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	NT	TURB (NTU)	NT	COND (mS/cm)	40,343	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Ponded water was shallow at the time of sampling. South end of channel had more moisture than the north side.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B01-1	**Latitude**	32.7325	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, just west of Jim's Air, north of runway 9/27	**Longitude**	-117.1797		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	09:20	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 0.1 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	None	X Yellow	Brown	White	Gray		Other
Clarity	X Clear		Slightly Cloudy	Opaque			Other
Floatables	X None	Trash	Bubbles/Foam	X Sheen (dirt)	Fecal Matter		Other
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	X None	Limited	Normal	Excessive			Other
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? X Yes | No

Water Temp (°C)	20.4	NH_3-N (mg/L)	0.3	NO_3-N (mg/L)	1.0	Ortho-PO_4 (mg/L)	0.2
pH (pH units)	8.05	TURB (NTU)	1.8	COND (mS/cm)	1.113	Reactive-P (mg/L)	0.0652
						MBAS (mg/L)	0.50

Analytical Lab Samples Collected? X Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Water was very yellow, but clear. No evidence of runoff in immediate vicinity or causes of yellow color.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B03-2	**Latitude**	32.7286	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, directly south of B1-D sign	**Longitude**	-117.1784		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	08:44	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -0.1 ft
Last Rain	X >72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	salty
Color	x None	Yellow	Brown	White	Gray	Other	
Clarity	x Clear		Slightly Cloudy	Opaque		Other	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	NT	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	8.00	TURB (NTU)	NT	COND (mS/cm)	41,403	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is tidally influenced. High conductivity indicates seawater.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-3	**Latitude**	32.7378	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in GD lot	**Longitude**	-117.1831		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	11:16	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 1.6 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage		Other
Color	x None	Yellow	Brown	White	Gray		Other
Clarity	x Clear		Slightly Cloudy	Opaque			Other
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter		Other
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits		Other
Vegetation	X None	Limited	Normal	Excessive			Other
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	20.2	NH_3-N (mg/L)	0.1	NO_3-N (mg/L)	0.8	Ortho-PO_4 (mg/L)	0.6
pH (pH units)	8.1	TURB (NTU)	5.9	COND (mS/cm)	1,458	Reactive-P (mg/L)	0.1956
						MBAS (mg/L)	0.25

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Water truck in the vicinity. Ponded water was too shallow to obtain a sample for laboratory analysis.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B05-4	**Latitude**	32.7306	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.1830		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	08:28	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** -0.2 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is dry – no evidence of any runoff. Filter fabric is still in place and in tact.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B06-5	**Latitude**	32.7358	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.1863		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	11:03	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	x N/A	Low	x Incoming	High	Outgoing **Tide Height:** 1.5 ft
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	x None	Limited	Normal	Excessive		Other		
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is surrounded by concrete and asphalt. A small amount of moisture was observed inside the basin.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B07-6	**Latitude**	32.7308	**Watershed**	**Hydrologic Unit**	908
Location	Inlet pipe in manhole west of AA OWS	**Longitude**	-117.1932		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	13:43	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	X Overcast	Fog	
Tide	x N/A	Low	x Incoming	High	Outgoing **Tide Height:** 2.0 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B07-7	**Latitude**	32.7300	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet at south of cargo area, west of west wing	**Longitude**	-117.1939		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	07:59	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog		
Tide	x N/A	Low	Incoming	High	x Outgoing	**Tide Height:** -0.2 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA	
Color	None	Yellow	Brown	White	Gray	X Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA	
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site has automated sampling equipment. Vortox unit was dry, some dirt and trash has collected in the white gutters.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8	**Latitude**	32.7336	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet NW of T1E, across from G8	**Longitude**	-117.1967		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	13:15	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 2.8 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	X Other		
Color	x None	Yellow	Brown	White	Gray	X Other		
Clarity	x Clear		Slightly Cloudy	Opaque		X Other		
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	x None	Limited	Normal	Excessive		Other		
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	19.9	NH_3-N (mg/L)	1.0	NO_3-N (mg/L)	0.2	Ortho-PO_4 (mg/L)	0.6
pH (pH units)	7.8	TURB (NTU)	1.6	COND (mS/cm)	NT	Reactive-P (mg/L)	0.1956
						MBAS (mg/L)	0.5

Analytical Lab Samples Collected? x Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in west RON	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	13:01	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 2.0 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Very shallow ponded water. Insufficient volume to take a sample for field analysis.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B09-10	**Latitude**	32.7301	**Watershed**	**Hydrologic Unit**	908
Location	Manhole near T2 parking entrance, on north side of entrance road	**Longitude**	-117.1999		**Hydrologic Area**	908.2
Date	05/21/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	14:50	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): X Manhole | Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 3.5 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA
Color	None	Yellow	Brown	White	Gray	x Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Catch basin was slightly damp at the NE corner. Trash, leaves, and sediment inside the basin.

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B01-1	0705480-01	Liquid	05/21/07 09:30	05/22/07 12:30
C-B08-8	0705480-02	Liquid	05/21/07 13:15	05/22/07 12:30

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION:	Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES:	All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA:	All quality objective criteria were met, except as noted in the report with data qualifiers.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0705480-01) Liquid	**Sampled: 05/21/07 09:30**	**Received: 05/22/07 12:30**							
Enterococcus	**18**	1	CFU/100 mL	1	B7E2316	05/22/07	05/22/07	SM 9230C	H-01
Fecal Coliforms	<2.0	1.0	"	"	"	"	"	SM 9222D	H-01
Total Coliforms	**20**	1.0	"	"	"	"	"	SM 9222B	H-01
C-B08-8 (0705480-02) Liquid	**Sampled: 05/21/07 13:15**	**Received: 05/22/07 12:30**							
Enterococcus	**60**	1	CFU/100 mL	1	B7E2316	05/22/07	05/22/07	SM 9230C	H-01
Fecal Coliforms	<2.0	1.0	"	"	"	"	"	SM 9222D	H-01
Total Coliforms	**90**	1.0	"	"	"	"	"	SM 9222B	H-01

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0705480-01) Liquid Sampled: 05/21/07 09:30 Received: 05/22/07 12:30									
Total Hardness	**72.0**	0.400	mg/L	1	B7E2334	05/22/07	05/23/07	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.140**	0.100	"	"	"	"	"	EPA 425.1	
C-B08-8 (0705480-02) Liquid Sampled: 05/21/07 13:15 Received: 05/22/07 12:30									
Total Hardness	**215**	0.400	mg/L	1	B7E2334	05/22/07	05/23/07	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.170**	0.100	"	"	"	"	"	EPA 425.1	

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0705480-01) Liquid	**Sampled: 05/21/07 09:30**	**Received: 05/22/07 12:30**							
Cadmium	ND	0.0040	mg/L	1	B7E2308	05/23/07	05/24/07	EPA 200.7	
Copper	**0.18**	0.011	"	"	"	"	05/24/07	"	
Lead	ND	0.015	"	"	"	"	05/24/07	"	
Zinc	**0.090**	0.013	"	"	"	"	"	"	
C-B08-8 (0705480-02) Liquid	**Sampled: 05/21/07 13:15**	**Received: 05/22/07 12:30**							
Cadmium	ND	0.0040	mg/L	1	B7E2308	05/23/07	05/24/07	EPA 200.7	
Copper	ND	0.011	"	"	"	"	"	"	
Lead	ND	0.015	"	"	"	"	"	"	
Zinc	**0.038**	0.013	"	"	"	"	"	"	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Organophosphorus Pesticides by EPA Method 8270C (8141A)

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0705480-01) Liquid Sampled: 05/21/07 09:30 Received: 05/22/07 12:30									
Azinphos methyl	ND	5.0	µg/L	1	B7E2506	05/28/07	06/04/07	EPA 8270C	
Bolstar	ND	5.0	"	"	"	"	"	"	
Chlorpyrifos	ND	5.0	"	"	"	"	"	"	
Coumaphos	ND	5.0	"	"	"	"	"	"	
Demeton	ND	5.0	"	"	"	"	"	"	
Diazinon	ND	5.0	"	"	"	"	"	"	
Dichlorvos	ND	5.0	"	"	"	"	"	"	
Dimethoate	ND	5.0	"	"	"	"	"	"	
Disulfoton	ND	5.0	"	"	"	"	"	"	
EPN	ND	5.0	"	"	"	"	"	"	
Ethion	ND	5.0	"	"	"	"	"	"	
Ethoprop	ND	5.0	"	"	"	"	"	"	
Fensulfothion	ND	5.0	"	"	"	"	"	"	
Fenthion	ND	5.0	"	"	"	"	"	"	
Malathion	ND	5.0	"	"	"	"	"	"	
Merphos	ND	5.0	"	"	"	"	"	"	
Methyl parathion	ND	5.0	"	"	"	"	"	"	
Mevinphos	ND	5.0	"	"	"	"	"	"	
Monocrotophos	ND	5.0	"	"	"	"	"	"	
Naled	ND	5.0	"	"	"	"	"	"	
Parathion	ND	5.0	"	"	"	"	"	"	
Phorate	ND	5.0	"	"	"	"	"	"	
Ronnel	ND	5.0	"	"	"	"	"	"	
Sulfotep	ND	5.0	"	"	"	"	"	"	
Tetrachlorvinphos	ND	5.0	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	5.0	"	"	"	"	"	"	
Trichloronate	ND	5.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*23.5 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*106 %*		*30-115*	"	"	"	"	
Surrogate: Terphenyl-d14		*107 %*		*18-137*	"	"	"	"	

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Organophosphorus Pesticides by EPA Method 8270C (8141A)

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8 (0705480-02) Liquid Sampled: 05/21/07 13:15 Received: 05/22/07 12:30									
Azinphos methyl	ND	5.0	µg/L	1	B7E2506	05/28/07	06/04/07	EPA 8270C	
Bolstar	ND	5.0	"	"	"	"	"	"	
Chlorpyrifos	ND	5.0	"	"	"	"	"	"	
Coumaphos	ND	5.0	"	"	"	"	"	"	
Demeton	ND	5.0	"	"	"	"	"	"	
Diazinon	ND	5.0	"	"	"	"	"	"	
Dichlorvos	ND	5.0	"	"	"	"	"	"	
Dimethoate	ND	5.0	"	"	"	"	"	"	
Disulfoton	ND	5.0	"	"	"	"	"	"	
EPN	ND	5.0	"	"	"	"	"	"	
Ethion	ND	5.0	"	"	"	"	"	"	
Ethoprop	ND	5.0	"	"	"	"	"	"	
Fensulfothion	ND	5.0	"	"	"	"	"	"	
Fenthion	ND	5.0	"	"	"	"	"	"	
Malathion	ND	5.0	"	"	"	"	"	"	
Merphos	ND	5.0	"	"	"	"	"	"	
Methyl parathion	ND	5.0	"	"	"	"	"	"	
Mevinphos	ND	5.0	"	"	"	"	"	"	
Monocrotophos	ND	5.0	"	"	"	"	"	"	
Naled	ND	5.0	"	"	"	"	"	"	
Parathion	ND	5.0	"	"	"	"	"	"	
Phorate	ND	5.0	"	"	"	"	"	"	
Ronnel	ND	5.0	"	"	"	"	"	"	
Sulfotep	ND	5.0	"	"	"	"	"	"	
Tetrachlorvinphos	ND	5.0	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	5.0	"	"	"	"	"	"	
Trichloronate	ND	5.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*25.1 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*71.3 %*		*30-115*	"	"	"	"	
Surrogate: Terphenyl-d14		*131 %*		*18-137*	"	"	"	"	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7E2308 - EPA 200 Series										
Blank (B7E2308-BLK1)				Prepared: 05/23/07 Analyzed: 05/24/07						
Cadmium	ND	0.0040	mg/L							
Copper	ND	0.011	"							
Lead	ND	0.015	"							
Zinc	ND	0.013	"							
LCS (B7E2308-BS1)				Prepared: 05/23/07 Analyzed: 05/24/07						
Cadmium	0.171	0.0040	mg/L	0.200		85.5	85-115			
Copper	0.177	0.011	"	0.200		88.5	85-115			
Lead	0.182	0.015	"	0.200		91.0	85-115			
Zinc	0.172	0.013	"	0.200		86.0	85-115			
Matrix Spike (B7E2308-MS1)		**Source: 0705480-01**		Prepared: 05/23/07 Analyzed: 05/24/07						
Cadmium	0.176	0.0040	mg/L	0.200	0.0010	87.5	70-130			
Copper	0.384	0.011	"	0.200	0.18	102	70-130			
Lead	0.192	0.015	"	0.200	0.0032	94.4	70-130			
Zinc	0.261	0.013	"	0.200	0.090	85.5	70-130			
Matrix Spike Dup (B7E2308-MSD1)		**Source: 0705480-01**		Prepared: 05/23/07 Analyzed: 05/24/07						
Cadmium	0.180	0.0040	mg/L	0.200	0.0010	89.5	70-130	2.25	20	
Copper	0.396	0.011	"	0.200	0.18	108	70-130	3.08	20	
Lead	0.196	0.015	"	0.200	0.0032	96.4	70-130	2.06	20	
Zinc	0.268	0.013	"	0.200	0.090	89.0	70-130	2.65	20	

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Organophosphorus Pesticides by EPA Method 8270C (8141A) - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7E2506 - EPA 3510C Sep Funnel										
Blank (B7E2506-BLK1)				Prepared: 05/23/07 Analyzed: 05/25/07						
Azinphos methyl	ND	5.0	µg/L							
Bolstar	ND	5.0	"							
Chlorpyrifos	ND	5.0	"							
Coumaphos	ND	5.0	"							
Demeton	ND	5.0	"							
Diazinon	ND	5.0	"							
Dichlorvos	ND	5.0	"							
Dimethoate	ND	5.0	"							
Disulfoton	ND	5.0	"							
EPN	ND	5.0	"							
Ethion	ND	5.0	"							
Ethoprop	ND	5.0	"							
Fensulfothion	ND	5.0	"							
Fenthion	ND	5.0	"							
Malathion	ND	5.0	"							
Merphos	ND	5.0	"							
Methyl parathion	ND	5.0	"							
Mevinphos	ND	5.0	"							
Monocrotophos	ND	5.0	"							
Naled	ND	5.0	"							
Parathion	ND	5.0	"							
Phorate	ND	5.0	"							
Ronnel	ND	5.0	"							
Sulfotep	ND	5.0	"							
Tetrachlorvinphos	ND	5.0	"							
Tokuthion (Prothiofos)	ND	5.0	"							
Trichloronate	ND	5.0	"							
Surrogate: Nitrobenzene-d5	*4.02*		*"*	*10.0*		*40.2*	*23-120*			
Surrogate: 2-Fluorobiphenyl	*7.80*		*"*	*10.0*		*78.0*	*30-115*			
Surrogate: Terphenyl-d14	*9.03*		*"*	*10.0*		*90.3*	*18-137*			

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Organophosphorus Pesticides by EPA Method 8270C (8141A) - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7E2506 - EPA 3510C Sep Funnel										
LCS (B7E2506-BS1)				Prepared: 05/23/07 Analyzed: 05/25/07						
Acenaphthene	8.57	5.0	µg/L	10.0		85.7	47-145			
1,4-Dichlorobenzene	7.15	5.0	"	10.0		71.5	20-124			
2,4-Dinitrotoluene	4.24	5.0	"	10.0		42.4	39-139			
N-Nitrosodi-n-propylamine	2.16	5.0	"	10.0		21.6	0-230			
Pyrene	7.10	5.0	"	10.0		71.0	52-115			
1,2,4-Trichlorobenzene	7.07	5.0	"	10.0		70.7	44-142			
LCS (B7E2506-BS2)				Prepared: 05/23/07 Analyzed: 05/25/07						
Acenaphthene	7.84	5.0	µg/L	10.0		78.4	47-145			
1,4-Dichlorobenzene	6.87	5.0	"	10.0		68.7	20-124			
2,4-Dinitrotoluene	4.02	5.0	"	10.0		40.2	39-139			
N-Nitrosodi-n-propylamine	1.87	5.0	"	10.0		18.7	0-230			
Pyrene	6.19	5.0	"	10.0		61.9	52-115			
1,2,4-Trichlorobenzene	6.23	5.0	"	10.0		62.3	44-142			
LCS Dup (B7E2506-BSD1)				Prepared: 05/23/07 Analyzed: 05/25/07						
Acenaphthene	7.38	5.0	µg/L	10.0		73.8	47-145	14.9	30	
1,4-Dichlorobenzene	6.41	5.0	"	10.0		64.1	20-124	10.9	30	
2,4-Dinitrotoluene	5.51	5.0	"	10.0		55.1	39-139	26.1	30	
N-Nitrosodi-n-propylamine	2.02	5.0	"	10.0		20.2	0-230	6.70	30	
Pyrene	8.08	5.0	"	10.0		80.8	52-115	12.9	30	
1,2,4-Trichlorobenzene	6.23	5.0	"	10.0		62.3	44-142	12.6	30	

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TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5054	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/05/07 13:38

Notes and Definitions

_<2.0	<2.0
H-01	Sample received without sufficient time to complete analysis within recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
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San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☐ **Routine Investigation** x **IC/ID Follow-Up For ___ammonia_____**

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8	**Latitude**	32.7336	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet NW of T1E, across from G8	**Longitude**	-117.1967		**Hydrologic Area**	908.2
Date	05/22/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	11:06	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) ☐ Residential ☐ Commercial x Industrial ☐ Agricultural ☐ Parks ☐ Open

Land Use (Secondary) (Optional, greater than 10%) ☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Parks ☐ Open ☐ None

Conveyance (Check one only) ☐ Manhole x Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy x Overcast ☐ Fog

Tide ☐ N/A ☐ Low x Incoming ☐ High ☐ Outgoing **Tide Height:** 1.4 ft.

Last Rain x > 72 hours ☐ < 72 hours

Rainfall x None ☐ < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	x None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐Other
Color	x None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other
Clarity	x Clear		☐ Slightly Cloudy	☐ Opaque		☐ Other
Floatables	☐ None	x Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other
Deposits	☐ None	x Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other
Vegetation	x None	☐ Limited	☐ Normal	☐ Excessive		☐ Other
Biology	x None	☐ Insects ☐ Algae	☐ Fish ☐ Snails	☐ Mussels/ Barnacles	☐ Insect/ Algae	☐ Insect/ Snail ☐ Other

Water Flow ☐ Flowing X Ponded ☐ Dry ☐ Tidal

Does the storm drain flow reach the Receiving Water? ☐ Yes ☐ No x N/A

Evidence of Overland Flow? ☐ Yes x No ☐ Irrigation Runoff ☐ Other:

Photo Taken x Yes ☐ No **Photo #** _____

Field Screening Samples Collected? x Yes ☐ No

Water Temp (°C)	19.6	NH_3-N (mg/L)	1.0	NO_3-N (mg/L)	0.2	Ortho-PO_4 (mg/L)	0.6
pH (pH units)	7.88	TURB (NTU)	0.8	COND (mS/cm)	0.48	Reactive-P (mg/L)	0.1956
						MBAS (mg/L)	0.5

Analytical Lab Samples Collected? ☐ Yes x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS:_____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	Oval	**Latitude**		**Watershed**	**Hydrologic Unit**	908
Location	Catch basin in the middle of Oval 8	**Longitude**			**Hydrologic Area**	908.2
Date	05/22/07	**TB Page**	1268 F1		**Hydrologic Subarea** (Optional)	908.21
Time	11:27	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) ☐ Residential ☐ Commercial x Industrial ☐ Agricultural ☐ Parks ☐ Open

Land Use (Secondary) (Optional, greater than 10%) ☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Parks ☐ Open x None

Conveyance (Check one only) ☐ Manhole x Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy x Overcast ☐ Fog

Tide x N/A ☐ Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours ☐ < 72 hours

Rainfall x None ☐ < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other
Color	X None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other
Clarity	X Clear		☐ Slightly Cloudy	☐ Opaque		☐ Other
Floatables	x None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other
Biology	X None	☐ Insects ☐ Algae	☐ Fish ☐ Snails	☐ Mussels/ Barnacles	☐ Insect/ Algae	☐ Insect/ Snail ☐ Other

Water Flow ☐ Flowing X Ponded ☐ Dry ☐ Tidal

Does the storm drain flow reach the Receiving Water? ☐ Yes ☐ No X N/A

Evidence of Overland Flow? ☐ Yes X No ☐ Irrigation Runoff ☐ Other: _____

Photo Taken x Yes ☐ No **Photo #** _____

Field Screening Samples Collected? x Yes ☐ No

Water Temp (°C)	22.7	NH_3-N (mg/L)	0.2	NO_3-N (mg/L)	0.1	Ortho-PO_4 (mg/L)	0.3
pH (pH units)	7.5	TURB (NTU)	0.93	COND (mS/cm)	25.3	Reactive-P (mg/L)	0.0978
						MBAS (mg/L)	2.5

Analytical Lab Samples Collected? ☐ Yes X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	Trench East	**Latitude**		**Watershed**	**Hydrologic Unit**	908
Location	Slit trench east of C-B08-8	**Longitude**			**Hydrologic Area**	908.2
Date	05/22/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	11:15	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) ☐ Residential ☐ Commercial x Industrial ☐ Agricultural ☐ Parks ☐ Open

Land Use (Secondary) (Optional, greater than 10%) ☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Parks ☐ Open x None

Conveyance (Check one only) ☐ Manhole x Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide x N/A ☐ Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours ☐ < 72 hours

Rainfall x None ☐ < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	☐ None	x Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other
Color	x None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		☐ Other
Floatables	☐ None	x Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other
Biology	X None	☐ Insects ☐ Algae	☐ Fish ☐ Snails	☐ Mussels/ Barnacles	☐ Insect/ Algae	☐ Insect/ Snail ☐ Other

Water Flow ☐ Flowing x Ponded ☐ Dry ☐ Tidal

Does the storm drain flow reach the Receiving Water? ☐ Yes ☐ No X N/A

Evidence of Overland Flow? ☐ Yes X No ☐ Irrigation Runoff ☐ Other: _____

Photo Taken x Yes ☐ No **Photo #** _____

Field Screening Samples Collected? x Yes ☐ No

Water Temp (°C)	24.4	NH_3-N (mg/L)	2.5	NO_3-N (mg/L)	0.2	Ortho-PO_4 (mg/L)	0.2
pH (pH units)	7.4	TURB (NTU)	16	COND (mS/cm)	1.5	Reactive-P (mg/L)	0.0652
						MBAS (mg/L)	3.0

Analytical Lab Samples Collected? ☐ Yes X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Picked area in slit trench upstream of site. Noted trash and a black, sooty, deposit in trench.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	Trench southwest	**Latitude**		**Watershed**	**Hydrologic Unit**	908
Location	Slit trench southwest of C-B08-8	**Longitude**			**Hydrologic Area**	908.2
Date	05/22/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	11:20	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only) ☐ Residential ☐ Commercial x Industrial ☐ Agricultural ☐ Parks ☐ Open

Land Use (Secondary) (Optional, greater than 10%) ☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Parks ☐ Open x None

Conveyance (Check one only) ☐ Manhole x Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy x Overcast ☐ Fog

Tide x N/A ☐ Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours ☐ < 72 hours

Rainfall x None ☐ < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	☐ None	x Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other
Color	x None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other
Clarity	x Clear		☐ Slightly Cloudy	☐ Opaque		☐ Other
Floatables	☐ None	x Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other
Biology	X None	☐ Insects ☐ Algae	☐ Fish ☐ Snails	☐ Mussels/ Barnacles	☐ Insect/ Algae	☐ Insect/ Snail ☐ Other

Water Flow ☐ Flowing x Ponded ☐ Dry ☐ Tidal

Does the storm drain flow reach the Receiving Water? ☐ Yes ☐ No X N/A

Evidence of Overland Flow? ☐ Yes X No ☐ Irrigation Runoff ☐ Other: _____

Photo Taken x Yes ☐ No **Photo #** _____

Field Screening Samples Collected? x Yes ☐ No

Water Temp (°C)	24.9	NH_3-N (mg/L)	1.5	NO_3-N (mg/L)	0.2	Ortho-PO_4 (mg/L)	0.3
pH (pH units)	7.5	TURB (NTU)	110	COND (mS/cm)	1.1	Reactive-P (mg/L)	0.0978
						MBAS (mg/L)	1.5

Analytical Lab Samples Collected? ☐ Yes X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Picked an area in the trench upstream of the site. There was trash in the trench and a black, sooty deposit. No immediate upstream sources of water were present.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	Upstream Oval	**Latitude**		**Watershed**	**Hydrologic Unit**	908
Location	Catch basin upstream of Oval 8, along fence line, east of FAA buildings	**Longitude**			**Hydrologic Area**	908.2
Date	05/22/07	**TB Page**	1268 F1		**Hydrologic Subarea** (Optional)	908.21
Time	12:03	**Observer**	MF, DK		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): ☐ Residential ☐ Commercial x Industrial ☐ Agricultural ☐ Parks ☐ Open

Land Use (Secondary) (Optional, greater than 10%): ☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Parks ☐ Open x None

Conveyance (Check one only): X Manhole ☐ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel ☐ Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy x Overcast ☐ Fog

Tide x N/A ☐ Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:**_____ft.

Last Rain x > 72 hours ☐ < 72 hours

Rainfall x None ☐ < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other
Color	X None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other
Clarity	x Clear		☐ Slightly Cloudy	☐ Opaque		☐ Other
Floatables	x None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other
Vegetation	☐ None	x Limited	☐ Normal	☐ Excessive		☐ Other
Biology	X None	☐ Insects ☐ Algae	☐ Fish ☐ Snails	☐ Mussels/ Barnacles	☐ Insect/ Algae	☐ Insect/ Snail ☐ Other

Water Flow ☐ Flowing x Ponded ☐ Dry ☐ Tidal _____

Does the storm drain flow reach the Receiving Water? ☐ Yes ☐ No X N/A

Evidence of Overland Flow? ☐ Yes X No ☐ Irrigation Runoff ☐ Other: _____

Photo Taken x Yes ☐ No **Photo #** _____

Field Screening Samples Collected? x Yes ☐ No

Water Temp (°C)	22.2	NH_3-N (mg/L)	0.3	NO_3-N (mg/L)	0.1	Ortho-PO_4 (mg/L)	0.2
pH (pH units)	7.7	TURB (NTU)	0.61	COND (mS/cm)	25.0	Reactive-P (mg/L)	0.0652
						MBAS (mg/L)	1.5

Analytical Lab Samples Collected? ☐ Yes X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Catch basin is surrounded by dirt.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B01-1	**Latitude**	32.7325	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, just west of Jim's Air, north of runway 9/27	**Longitude**	-117.1797		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	07:51	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** -0.1 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	X None	Musty	Rotten Eggs	Chemical	Sewage	Other
Color	None	X Yellow	Brown	White	Gray	Other
Clarity	X Clear		Slightly Cloudy	Opaque		Other
Floatables	X None	Trash	Bubbles/Foam	X Sheen (dusty)	Fecal Matter	Other
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other
Vegetation	X None	Limited	Normal	Excessive		Other
Biology	X None	Insects / Algae	Fish / Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail / Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? X Yes | No

Water Temp (°C)	22.0	NH_3-N (mg/L)	0.65	NO_3-N (mg/L)	1.75	Ortho-PO_4 (mg/L)	0.3
pH (pH units)	7.56	TURB (NTU)	3.52	COND (mS/cm)	0.706	Reactive-P (mg/L)	0.0978
						MBAS (mg/L)	0.75

Analytical Lab Samples Collected? X Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Inlet to catch basin was dry. Outlet was dry. Water was shallow and very yellow. No immediate upstream source(s) could be identified.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B03-2	**Latitude**	32.7286	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, directly south of B1-D sign	**Longitude**	-117.1784		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	07:26	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	X Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -0.1 ft.
Last Rain	X > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	Salty
Color	X None	Yellow	Brown	White	Gray	Other	
Clarity	X Clear		Slightly Cloudy	Opaque		Other	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? X Yes | No

Water Temp (°C)	21.7	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	6.66	TURB (NTU)	NT	COND (mS/cm)	55.1	Reactive-P (mg/L)	
						MBAS (mg/L)	NT

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: High conductivity indicates seawater intrusion.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-3	**Latitude**	32.7378	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in GD parking area	**Longitude**	-117.1831		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	09:37	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	X Sunny	Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 1.6 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | X Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Very shallow ponded water was observed in the catch basin. There was not a sufficient volume to take a sample.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B05-4	**Latitude**	32.7306	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.1830		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	07:07	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** -0.6 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: No surface runoff was observed flowing into the site.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B06-5	**Latitude**	32.7358	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.1863		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 G7		**Hydrologic Subarea** (Optional)	908.21
Time	09:28	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	x Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 1.6 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	x None	Limited	Normal	Excessive		Other		
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | x Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | x No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | x No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Sampling equipment is still in place.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B07-6	**Latitude**	32.7308	**Watershed**	**Hydrologic Unit**	908
Location	Inlet pipe in manhole west of OWS in cargo area	**Longitude**	-117.1932		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	10:16	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): x Manhole | Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	X Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 2.1 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA		
Color	None	Yellow	Brown	White	Gray	X Other	NA		
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA		
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other			
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other			
Vegetation	X None	Limited	Normal	Excessive		Other			
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: The oil water separator is east of the inlet pipe to this manhole.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B07-7	**Latitude**	32.7300	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet at south end of Delta cargo storage area, west of west wing	**Longitude**	-117.1939		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	06:45	**Observer**	MF		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	Sunny	Partly Cloudy	x Overcast	Fog	
Tide	N/A	X Low	Incoming	High	Outgoing **Tide Height:**-0.8 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	X Other	NA
Color	None	Yellow	Brown	White	Gray	X Other	NA
Clarity	Clear		Slightly Cloudy	Opaque		X Other	NA
Floatables	None	X Trash	Bubbles/Foam	Sheen	Fecal Matter	Other	
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other	
Vegetation	X None	Limited	Normal	Excessive		Other	
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site is in the west wing parking lot. Sampling equipment is still in place.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B08-8	**Latitude**	32.7336	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet NW of T1E, across from G8	**Longitude**	-117.1967		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	09:55	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** 1.7 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	x None	Musty	Rotten Eggs	Chemical	Sewage	Other		
Color	x None	Yellow	Brown	White	Gray	Other		
Clarity	x Clear		Slightly Cloudy	Opaque		Other		
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	x None	Limited	Normal	Excessive		Other		
Biology	x None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow: Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | x N/A

Evidence of Overland Flow? Yes | x No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? x Yes | No

Water Temp (°C)	23.5	NH_3-N (mg/L)	0.2	NO_3-N (mg/L)	ND	Ortho-PO_4 (mg/L)	1.0
pH (pH units)	8.27	TURB (NTU)	1.39	COND (mS/cm)	1.548	Reactive-P (mg/L)	0.326
						MBAS (mg/L)	0.625

Analytical Lab Samples Collected? X Yes | No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	ponded	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: _____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION (NAD 83 decimal degrees to 5th place)

Site ID	C-B12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in west RON	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	09:49	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | x None

Conveyance (Check one only): Manhole | x Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	x Sunny	Partly Cloudy	Overcast	Fog		
Tide	N/A	Low	x Incoming	High	Outgoing	**Tide Height:** 1.7 ft.
Last Rain	x > 72 hours	< 72 hours				
Rainfall	x None	< 0.1"	> 0.1"			

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	X None	Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	X Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | x Ponded | Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Very shallow ponded water observed. There was not a sufficient volume to take a sample.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

X **Routine Investigation** **IC/ID Follow-Up For** _____

GENERAL SITE DESCRIPTION

(NAD 83 decimal degrees to 5th place)

Site ID	C-B09-10	**Latitude**	32.7301	**Watershed**	**Hydrologic Unit**	908
Location	Manhole near T2 parking entrance, on N side of entrance road	**Longitude**	-117.1999		**Hydrologic Area**	908.2
Date	06/18/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	11:10	**Observer**	MF, KG		**Discharge Area** (Optional)	

Land Use (Primary) (Check one only): Residential | Commercial | x Industrial | Agricultural | Parks | Open

Land Use (Secondary) (Optional, greater than 10%): Residential | Commercial | Industrial | Agricultural | Parks | Open | None

Conveyance (Check one only): x Manhole | Catch Basin | Outlet | Concrete Channel | Natural Creek | Earthen Channel | Curb/Gutter

ATMOSPHERIC CONDITIONS

Weather	X Sunny	Partly Cloudy	Overcast	Fog	
Tide	N/A	Low	x Incoming	High	Outgoing **Tide Height:** 3.1 ft.
Last Rain	x > 72 hours	< 72 hours			
Rainfall	x None	< 0.1"	> 0.1"		

RUNOFF CHARACTERISTICS

Odor	None	Musty	Rotten Eggs	Chemical	Sewage	x Other	NA	
Color	None	Yellow	Brown	White	Gray	x Other	NA	
Clarity	Clear		Slightly Cloudy	Opaque		x Other	NA	
Floatables	None	x Trash	Bubbles/Foam	Sheen	Fecal Matter	Other		
Deposits	None	x Sediment/Gravel	Fine Particulates	Stains	Oily Deposits	Other		
Vegetation	X None	Limited	Normal	Excessive		Other		
Biology	X None	Insects	Algae	Fish	Snails	Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other

Water Flow Flowing | Ponded | X Dry | Tidal

Does the storm drain flow reach the Receiving Water? Yes | No | X N/A

Evidence of Overland Flow? Yes | X No | Irrigation Runoff | Other: _____

Photo Taken x Yes | No **Photo #** _____

Field Screening Samples Collected? Yes | X No

Water Temp (°C)		NH_3-N (mg/L)		NO_3-N (mg/L)		Ortho-PO_4 (mg/L)	
pH (pH units)		TURB (NTU)		COND (mS/cm)		Reactive-P (mg/L)	
						MBAS (mg/L)	

Analytical Lab Samples Collected? Yes | X No

FLOW ESTIMATION WORKSHEETS

Flowing Creek or Box Culvert

Width		ft
Depth		ft
Velocity		ft/sec
Flow	Dry	gpm

Filling a Bottle or Known Volume

Volume		mL
Time to Fill		sec
Flow		gpm

Flowing Pipe

Diameter		ft
Depth		ft
Velocity		ft/sec
Flow		gpm

COMMENTS: Site has some residual moisture, too little volume to take a sample.

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B01-1	0706365-01	Liquid	06/18/07 08:13	06/18/07 13:00
C-B08-8	0706365-02	Liquid	06/18/07 10:30	06/18/07 13:00

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION:	Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES:	All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA:	All quality objective criteria were met, except as noted in the report with data qualifiers.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0706365-01) Liquid	**Sampled: 06/18/07 08:13**	**Received: 06/18/07 13:00**							
Enterococcus	**560**	1	CFU/100 mL	1	B7F1912	06/18/07	06/18/07	SM 9230C	
Fecal Coliforms	<2.0	1.0	"	"	"	"	"	SM 9222D	
Total Coliforms	**100**	1.0	"	"	"	"	"	SM 9222B	
C-B08-8 (0706365-02) Liquid	**Sampled: 06/18/07 10:30**	**Received: 06/18/07 13:00**							
Enterococcus	**80**	1	CFU/100 mL	1	B7F1912	06/18/07	06/18/07	SM 9230C	
Fecal Coliforms	<2.0	1.0	"	"	"	"	"	SM 9222D	
Total Coliforms	**840**	1.0	"	"	"	"	"	SM 9222B	

26052 Merit Circle Suite 105, Laguna Hills, California 92653
Telephone: (949) 348-9389 Fax: (949) 348-9115
E-Mail: sierralabs @ sierralabs.net

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0706365-01) Liquid Sampled: 06/18/07 08:13 Received: 06/18/07 13:00									
Total Hardness	**174**	0.400	mg/L	1	B7F1924	06/18/07	06/18/07	SM 2340 C	
Hexane Extractable Material (HEM)	**2.10**	2.00	"	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.240**	0.100	"	"	"	"	"	EPA 425.1	
C-B08-8 (0706365-02) Liquid Sampled: 06/18/07 10:30 Received: 06/18/07 13:00									
Total Hardness	**331**	0.400	mg/L	1	B7F1924	06/18/07	06/18/07	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.150**	0.100	"	"	"	"	"	EPA 425.1	

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TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0706365-01) Liquid Sampled: 06/18/07 08:13 Received: 06/18/07 13:00									
Cadmium	ND	0.0040	mg/L	1	B7F2017	06/20/07	06/21/07	EPA 200.7	
Copper	**0.27**	0.011	"	"	"	"	06/21/07	"	
Lead	ND	0.015	"	"	"	"	06/21/07	"	
Zinc	**0.076**	0.013	"	"	"	"	"	"	
C-B08-8 (0706365-02) Liquid Sampled: 06/18/07 10:30 Received: 06/18/07 13:00									
Cadmium	ND	0.0040	mg/L	1	B7F2017	06/20/07	06/21/07	EPA 200.7	
Copper	**0.020**	0.011	"	"	"	"	06/21/07	"	
Lead	ND	0.015	"	"	"	"	06/21/07	"	
Zinc	**0.036**	0.013	"	"	"	"	"	"	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Organophosphorus Pesticides by EPA Method 8270C (8141A)

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1 (0706365-01) Liquid Sampled: 06/18/07 08:13 Received: 06/18/07 13:00									
Azinphos methyl	ND	5.0	µg/L	1	B7F0810	06/20/07	06/21/07	EPA 8270C	
Bolstar	ND	5.0	"	"	"	"	"	"	
Chlorpyrifos	ND	5.0	"	"	"	"	"	"	
Coumaphos	ND	5.0	"	"	"	"	"	"	
Demeton	ND	5.0	"	"	"	"	"	"	
Diazinon	ND	5.0	"	"	"	"	"	"	
Dichlorvos	ND	5.0	"	"	"	"	"	"	
Dimethoate	ND	5.0	"	"	"	"	"	"	
Disulfoton	ND	5.0	"	"	"	"	"	"	
EPN	ND	5.0	"	"	"	"	"	"	
Ethion	ND	5.0	"	"	"	"	"	"	
Ethoprop	ND	5.0	"	"	"	"	"	"	
Fensulfothion	ND	5.0	"	"	"	"	"	"	
Fenthion	ND	5.0	"	"	"	"	"	"	
Malathion	ND	5.0	"	"	"	"	"	"	
Merphos	ND	5.0	"	"	"	"	"	"	
Methyl parathion	ND	5.0	"	"	"	"	"	"	
Mevinphos	ND	5.0	"	"	"	"	"	"	
Monocrotophos	ND	5.0	"	"	"	"	"	"	
Naled	ND	5.0	"	"	"	"	"	"	
Parathion	ND	5.0	"	"	"	"	"	"	
Phorate	ND	5.0	"	"	"	"	"	"	
Ronnel	ND	5.0	"	"	"	"	"	"	
Sulfotep	ND	5.0	"	"	"	"	"	"	
Tetrachlorvinphos	ND	5.0	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	5.0	"	"	"	"	"	"	
Trichloronate	ND	5.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*73.2 %*	*23-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*105 %*	*30-115*		"	"	"	"	
Surrogate: Terphenyl-d14		*81.9 %*	*18-137*		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Organophosphorus Pesticides by EPA Method 8270C (8141A)

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8 (0706365-02) Liquid Sampled: 06/18/07 10:30 Received: 06/18/07 13:00									
Azinphos methyl	ND	5.0	µg/L	1	B7F0810	06/20/07	06/21/07	EPA 8270C	
Bolstar	ND	5.0	"	"	"	"	"	"	
Chlorpyrifos	ND	5.0	"	"	"	"	"	"	
Coumaphos	ND	5.0	"	"	"	"	"	"	
Demeton	ND	5.0	"	"	"	"	"	"	
Diazinon	ND	5.0	"	"	"	"	"	"	
Dichlorvos	ND	5.0	"	"	"	"	"	"	
Dimethoate	ND	5.0	"	"	"	"	"	"	
Disulfoton	ND	5.0	"	"	"	"	"	"	
EPN	ND	5.0	"	"	"	"	"	"	
Ethion	ND	5.0	"	"	"	"	"	"	
Ethoprop	ND	5.0	"	"	"	"	"	"	
Fensulfothion	ND	5.0	"	"	"	"	"	"	
Fenthion	ND	5.0	"	"	"	"	"	"	
Malathion	ND	5.0	"	"	"	"	"	"	
Merphos	ND	5.0	"	"	"	"	"	"	
Methyl parathion	ND	5.0	"	"	"	"	"	"	
Mevinphos	ND	5.0	"	"	"	"	"	"	
Monocrotophos	ND	5.0	"	"	"	"	"	"	
Naled	ND	5.0	"	"	"	"	"	"	
Parathion	ND	5.0	"	"	"	"	"	"	
Phorate	ND	5.0	"	"	"	"	"	"	
Ronnel	ND	5.0	"	"	"	"	"	"	
Sulfotep	ND	5.0	"	"	"	"	"	"	
Tetrachlorvinphos	ND	5.0	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	5.0	"	"	"	"	"	"	
Trichloronate	ND	5.0	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		*71.7 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*82.8 %*		*30-115*	"	"	"	"	
Surrogate: Terphenyl-d14		*97.9 %*		*18-137*	"	"	"	"	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7F2017 - EPA 200 Series										
Blank (B7F2017-BLK1)				Prepared: 06/20/07 Analyzed: 06/21/07						
Cadmium	ND	0.0040	mg/L							
Copper	ND	0.011	"							
Lead	ND	0.015	"							
Zinc	ND	0.013	"							
LCS (B7F2017-BS1)				Prepared: 06/20/07 Analyzed: 06/21/07						
Cadmium	0.183	0.0040	mg/L	0.200		91.5	85-115			
Copper	0.188	0.011	"	0.200		94.0	85-115			
Zinc	0.185	0.013	"	0.200		92.5	85-115			
Matrix Spike (B7F2017-MS1)		**Source: 0706365-01**		Prepared: 06/20/07 Analyzed: 06/21/07						
Cadmium	0.186	0.0040	mg/L	0.200	0.0011	92.4	70-130			
Copper	0.481	0.011	"	0.200	0.27	106	70-130			
Zinc	0.265	0.013	"	0.200	0.076	94.5	70-130			
Matrix Spike Dup (B7F2017-MSD1)		**Source: 0706365-01**		Prepared: 06/20/07 Analyzed: 06/21/07						
Cadmium	0.189	0.0040	mg/L	0.200	0.0011	94.0	70-130	1.60	20	
Copper	0.504	0.011	"	0.200	0.27	117	70-130	4.67	20	
Zinc	0.273	0.013	"	0.200	0.076	98.5	70-130	2.97	20	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Organophosphorus Pesticides by EPA Method 8270C (8141A) - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7F0810 - EPA 3510C Sep Funnel										
Blank (B7F0810-BLK1)				Prepared: 06/06/07 Analyzed: 06/07/07						
Azinphos methyl	ND	5.0	µg/L							
Bolstar	ND	5.0	"							
Chlorpyrifos	ND	5.0	"							
Coumaphos	ND	5.0	"							
Demeton	ND	5.0	"							
Diazinon	ND	5.0	"							
Dichlorvos	ND	5.0	"							
Dimethoate	ND	5.0	"							
Disulfoton	ND	5.0	"							
EPN	ND	5.0	"							
Ethion	ND	5.0	"							
Ethoprop	ND	5.0	"							
Fensulfothion	ND	5.0	"							
Fenthion	ND	5.0	"							
Malathion	ND	5.0	"							
Merphos	ND	5.0	"							
Methyl parathion	ND	5.0	"							
Mevinphos	ND	5.0	"							
Monocrotophos	ND	5.0	"							
Naled	ND	5.0	"							
Parathion	ND	5.0	"							
Phorate	ND	5.0	"							
Ronnel	ND	5.0	"							
Sulfotep	ND	5.0	"							
Tetrachlorvinphos	ND	5.0	"							
Tokuthion (Prothiofos)	ND	5.0	"							
Trichloronate	ND	5.0	"							
Surrogate: Nitrobenzene-d5	*2.74*		*"*	*10.0*		*27.4*	*23-120*			
Surrogate: 2-Fluorobiphenyl	*5.41*		*"*	*10.0*		*54.1*	*30-115*			
Surrogate: Terphenyl-d14	*10.4*		*"*	*10.0*		*104*	*18-137*			

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Organophosphorus Pesticides by EPA Method 8270C (8141A) - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7F0810 - EPA 3510C Sep Funnel										
LCS (B7F0810-BS1)				Prepared: 06/06/07 Analyzed: 06/07/07						
Acenaphthene	7.27	5.0	µg/L	10.0		72.7	47-145			
1,4-Dichlorobenzene	5.82	5.0	"	10.0		58.2	20-124			
2,4-Dinitrotoluene	6.86	5.0	"	10.0		68.6	39-139			
N-Nitrosodi-n-propylamine	2.18	5.0	"	10.0		21.8	0-230			
Pyrene	10.3	5.0	"	10.0		103	52-115			
1,2,4-Trichlorobenzene	5.70	5.0	"	10.0		57.0	44-142			
LCS (B7F0810-BS2)				Prepared: 06/06/07 Analyzed: 06/07/07						
Acenaphthene	7.07	5.0	µg/L	10.0		70.7	47-145			
1,4-Dichlorobenzene	5.83	5.0	"	10.0		58.3	20-124			
2,4-Dinitrotoluene	6.20	5.0	"	10.0		62.0	39-139			
N-Nitrosodi-n-propylamine	1.84	5.0	"	10.0		18.4	0-230			
Pyrene	9.64	5.0	"	10.0		96.4	52-115			
1,2,4-Trichlorobenzene	5.76	5.0	"	10.0		57.6	44-142			
LCS Dup (B7F0810-BSD1)				Prepared: 06/06/07 Analyzed: 06/07/07						
Acenaphthene	7.00	5.0	µg/L	10.0		70.0	47-145	3.78	30	
1,4-Dichlorobenzene	5.22	5.0	"	10.0		52.2	20-124	10.9	30	
2,4-Dinitrotoluene	6.47	5.0	"	10.0		64.7	39-139	5.85	30	
N-Nitrosodi-n-propylamine	1.98	5.0	"	10.0		19.8	0-230	9.62	30	
Pyrene	9.09	5.0	"	10.0		90.9	52-115	12.5	30	
1,2,4-Trichlorobenzene	5.56	5.0	"	10.0		55.6	44-142	2.49	30	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: SA5072	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	06/27/07 08:57

Notes and Definitions

_<2.0	<2.0
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix B

FY06-07 Illicit Discharge Detection and Elimination Report Log

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Log of IDDE Reports to SDIA 24-hour Telephone Line Fiscal Year 2006-2007		
Subject /Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Landside	7/1/2006	07:18 ATO reports there is debris in the street as you exit T1. Advised MX.
Wildlife/IPM	7/3/2006	11:40 Maintenance respond to a report of a swarm of bees reported between G27 & 29. 19:45 AA aircraft MX reports bees have swarmed and nested on a cone at gate 27 beneath the left wing of the aircraft. 21:19 Bee exterminators removed the swarm.
Wildlife/IPM	7/4/2006	9:00 Maint-1 respond to the VSR north of the runway and west of taxiway C4 to remove an injured Caspian Tern.
Trash-Spill Landside	7/6/2006	6:20 Maintenance called to report a trash bag street side of building A that the birds are getting into. Notified SPC for pick up.
Wildlife/IPM	7/6/2006	18:38 BSO reports mosquitoes in the back office. Told him he could spray insect repellent.
Trash-Spill Airside	7/8/2006	08:24 Received call about joint cuttings debris on east ramp. 08:27 Contacted FCI to request clean-up. 08:40 E ramp clean.
Trash-Spill Landside	7/9/2006	08:23 ATO reports there is broken glass curbside T2 baggage claim. Advised SPC.
Trash-Spill Landside	7/9/2006	18:24 ATO Supervisor reports T2W curbside trash needs emptying. Notified SPC.
Trash-Spill Airside	7/10/2006	14:05 Zebra 3 reports T2W compactors are OTS. Pacific Waste has been notified and is en route to service.
Trash-Spill Landside	7/12/2006	12:10 Pile of trash on NTC landfill. No construction contractor could be identified as responsible party. Determined to be illegal dumping. Environmental submitted work request to MX.
Trash-Spill Landside	7/13/2006	11:30 ATO called to report radiator fluid curbside in front of Delta skycaps. Notified MX.
Petroleum-Spill Airside	7/15/2006	13:27 Responded to reported fuel spill at gate 20. ASIG fuel truck spilled 1-2 gallons from hard braking. Clean up in progress. No storm drains impacted.
Wildlife/IPM	7/16/2006	15:09 Ann with AA reports bee swarm on lav truck right front bumper located near gate 25. Notified MX. 1713 Bee issue resolved.
Construction Maintenance	7/17/2006	09:30 Notified FDD concerning the large amount of trash that is being left in the electrical room above UA baggage makeup by Neal. MX removed 4 large trash bags full of waste from the area this morning. Adrian advised he will ensure the project inspector and the contractor respond appropriately.
Wildlife/IPM	7/17/2006	16:06 HP reports there is an indoor nest of birds T2W bag claim in the far east end, second light fixture from the wall. Email to Wildlife personnel.
Trash-Spill Landside	7/18/2006	08:15 Paging called regarding a clean-up curbside at Delta. Notified SPC.
Trash-Spill Airside	7/22/2006	16:40 Contacted Allied Waste Dispatch with regards to compactor abeam T1E. The compactor is cycling very slowly. Trash bags are piling up on the ground. 17:00 Allied Waste maintenance technician on site and troubleshooting the compactor. Determined the hydraulic fluid reservoir for the compactor's motor to be low on fluid. Fluid added and compactor is restored to full operation. SPC has directed to throw the trash bags piled onto the ground into the compactor for disposal.
Trash-Spill Airside	7/23/2006	06:58 Contacted Allied Waste for service on the compactor in T1. He stated he would been en route.
Trash-Spill Airside	7/24/2006	07:39 ATO reports someone vomited curbside AA. Advised SPC.
Trash-Spill Airside	7/24/2006	08:38 SPC reports people are putting trash bags on the outside of the compactor in T1. The compactor is not full. He has cleaned up some of the area, but there are still several bags outside of the compactor. Zebra 2 advised he will go check the area.
Trash-Spill Landside	7/24/2006	19:19 ATO reports trash cans curbside UA need to be emptied. Notified SPC.
Trash-Spill Airside	7/24/2006	11:53 SPC gated storage area neart T2 connector/baggage carts. Water leaking from powerwashing equipment into the storm drain. Environmental notified SPC.
Wildlife/IPM	7/24/2006	14:10 Weed removal work completed for the day by Maintenance personnel. All pedestrian gates between MCRD and the Airport are secure.
Trash-Spill Airside	7/25/2006	19:25 Left voice message for Allied Waste. Trash compactor across from gate 4 not functioning properly.
Wildlife/IPM	7/25/2006	9:00 Coordinated weed removal behind the blast fence runway 27, in the triangle area adjacent to the ATCT, and along the former GD fence line.
Trash-Spill Airside	7/26/2006	08:15 Post Office on Stillwater Road called to report that the fire hydrant across from the Southwest cargo building is leaking again. Notified Authority plumber.
Trash-Spill Airside	7/27/2006	07:10 Responded to FOD (tumbleweed) reported near runway 27 between B-1and Delta. Unable to locate, ATCT advised.
Trash-Spill Airside	7/27/2006	09:00 Coordinated weed/FOD removal operations along and between the MCRD fence line.
Wildlife/IPM	7/27/2006	16:16 UA BSO reports mosquitoes in their office after leaving an insect repellant bomb last evening. Notified MX.
Trash-Spill Airside	7/30/2006	10:43 Accumulation of trash, debris, and grime at T2 connector loading dock. Environmental notified Host.
Trash-Spill Airside	7/31/2006	11:27 Blue lavatory waste deodorant spill in United Cargo area. Environmental notified United Airlines.

Log of IDDE Reports to SDIA 24-hour Telephone Line Fiscal Year 2006-2007		
Subject /Topic	**Date**	**Log Entry Synopsis**
Wildlife/IPM	7/31/2006	19:14 WN reports mosquitoes ramp side gate 3. Notified MX.
Trash-Spill Airside	8/1/2006	12:05 HMS Host called to report that the trash compactor is not working by American at the T2W/T2E transition. Notified Allied Waste. 15:30 Allied Waste reported that the trash compactors are back in service.
Wildlife/IPM	8/1/2006	07:25 HPD called to report mosquitoes coming out of the ceiling tiles at checkpoint 2. Notified MX.
Petroleum-Spill Airside	8/2/2006	22:10 ASIG supervisor reported a fuel spill at gate 40. Approximately 5 Fuel/Petroleum gallons spilled out the aircraf vent tube. No product entered the storm Spill (POL) drains. ASIG in process of cleaning up the spill.
Trash-Spill Landside	8/2/2006	06:30 Travelers Aid called to report that seagulls have gotten into the trash near the "Reserve" parking in Terminal 1 parking lot. Notified LPI for clean-up.
Trash-Spill Landside	8/4/2006	19:24 ATO reports T1 bag claim curbside trash cans need service. Notified SPC.
Trash-Spill Landside	8/4/2006	16:03 ATO reports T1 curbside trash needs to be emptied. Notified SPC.
Trash-Spill Airside	8/7/2006	16:34 Environmental reports spill and trash bags at T1 compactor. Notified SPC for clean up.
Trash-Spill Landside	8/7/2006	19:38 ATO reports broken car window curbside HP. Notified SPC for cleanup.
Trash-Spill Airside	8/8/2006	10:53 Airport 9 advised that the T2 connector trash compactor will be removed from 13:00 - 16:00 for so that the area can be steamed cleaned. Ocean Blue cleaned T2 dumpster area. Trash compactor returned to service by Allied Waste.
Trash-Spill Airside	8/8/2006	13:35 Removed FOD from oval.
Wildlife/IPM	8/10/2006	12:05 American Operations called to report a swarm of bees at Bee Swarm gate 29 and their GSE. Notified MX.
Trash-Spill Landside	8/11/2006	08:40 American Airlines called to report a broken sprinkler on Harbor Island across from the employee parking lot. She stated it is on at approximately 0415. Notified MX.
Trash-Spill Landside	8/12/2006	17:29 ATO requests trash service at courtesy island T2. Notified SPC.
Trash-Spill Airside	8/14/2006	11:00 White powder spill residue on ramp area near T2 connector loading dock and T2 baggage area. Environmental notified American Airlines.
Wildlife/IPM	8/15/2006	08:45 Provided escort to the weed removal crew in the south ovals west of B2 intxn. 13:00 until 1400 escorted weed pullers.
Wildlife/IPM	8/16/2006	07:45 Weed pulling crew is in the movement area starting in oval 1N.
Trash-Spill Landside	8/17/2006	13:03 MX reports trash needs service at T1 parking pavilion. Notified SPC.
Wildlife/IPM	8/17/2006	07:10 Weed removal crew is on the AOA for work in oval 2 N. 13:00 Until 1415, escort M-3 and temp worker for weed removal in O-2-S.
Trash-Spill Airside	8/18/2006	14:25 Leaking trash bags from an AA cart located at T2 near the trash compactor area. Environmental notified AA.
Wildlife/IPM	8/18/2006	07:50 Until 8:45, Escort M-3 and crew for weed removal in O-2-S. 10:45 Until 1203, escort M-3 and crew for weed removal in O-1-S; M-3 & M-6 for least tern fence repair in O-1-S.
Wildlife/IPM	8/21/2006	08:00 Provided escort to the weed removal crew in ovals 1 and 4 on the south side of the runway.
Petroleum-Spill Airside	8/22/2006	18:15 ASIG reported a 2 gal fuel spill at Kitty Hawk aircraft.They cleaned up the area.
Petroleum-Spill Landside	8/22/2006	15:50 Sky Cap reported a mini van cab curbside near US Air leaking gasoline. Maintenance & Environmental, HPD advised.
Trash-Spill Landside	8/22/2006	07:55 ATO Supervisor called to report a large clean-up curbside at Delta skycap area. Notified SPC.
Trash-Spill Landside	8/22/2006	12:15 Ground Transportation called to report a broken bottle by the "running man" east side of Terminal 1. Notified SPC.
Wildlife/IPM	8/22/2006	08:30 Escorted weed removal crew in O-4-S. 14:01 Weed removal clear of the movement area.
Wildlife/IPM	8/23/2006	08:00 Escorted weed removal crew in O-4-S.
Wildlife/IPM	8/24/2006	08:30 Weed removal crews working in O-3-S. Coordinated with ATCT.
Unauthorized Discharge	8/26/2006	06:50 AA reported a lot of water on the ramp at gate 28. MX HVAC Issue discovered that the water was coming from the HVAC system on the roof of T2E near gate 28; Pac Rim notified. The leak has been contained. Repairs will be done on Monday, August 28th.
Trash-Spill Landside	8/28/2006	18:46 Paging reports a pet clean up is necessary at T2 crosswalk. Notified SPC.
Trash-Spill Airside	8/29/2006	11:20 HMS Host called to report that their loading area is flooding from a sewer spill. Notified MX.
Sewage	9/5/2006	07:40 HP called to report a sewer leak on the bag room below gate 35. Notified MX. 07:50 Per MX, it is a HMS Host problem. Authority Plumber notifying Host.
Trash-Spill Landside	9/7/2006	17:35 ATO's report a Red Bus spilled fluid across from the CT at parking lot. Notified MX for clean up.
Petroleum-Spill Airside	9/8/2006	14:25 Fuel Spill at Jimsair; conducting a fuel transfer from truck to truck spilling approx 30-40 gal of Jet A. Jimsair conducted immediate control and containment. No storm drains affected.

Log of IDDE Reports to SDIA 24-hour Telephone Line Fiscal Year 2006-2007		
Subject /Topic	**Date**	**Log Entry Synopsis**
Petroleum-Spill Airside	9/10/2006	01:00 A grinder that blew a hydraulic hose whiel traveling from VSR2 to VSR1. It came to a stop, caught fire, and was quickly extinguished. MX was able to contain the leaking hydraulic fluid and used dry-absorb with the sweeper for cleanup. It was cleaned up by 0230 hrs.
Unauthorized Discharge	9/13/2006	05:05 AA called this morning to report that Jetwash neglected to contain their runoff from washing NW on G26. Environmental was emailed and pics were taken.
Trash-Spill Landside	9/15/2006	14:14 Report that trash needs to be emptied curbside AA and NW. SPC notified.
Petroleum-Spill Airside	9/20/2006	17:00 Alerted by ATCT of a fuel spill at Gate no. 18. 1705 - Zebra 2 on site. ASIG fuel truck experienced a fuel leak of approximately 5 gallons onto the ramp prior to the commencement of fueling operations on a Frontier . The spill is the result of residual fuel remaining in the hose after the truck's last fueling operation. ASIG personnel are conducting containment and cleanup operations. No storm drains were affected.
Wildlife/IPM	9/20/2006	06:26 ATO reports there is a dead bird near the Smarte Carte machine across from the crosswalk in T2. Notified MX.
Trash-Spill Airside	9/24/2006	13:40 Requested from Pacific Waste respond to empty the dumpster at the T2 West loading dock and to fix the dumpster at AA. Pat advised that he would have both serviced this afternoon/evening.
Trash-Spill Airside	9/25/2006	08:08 WN reports there is a water leak under jetway 8, ramp side. Plumbing Notified Plumber 2.
Trash-Spill Airside	9/28/2006	08:30 HMS Host called to report that the trash compactor is not working. Notified Allied Waste. He will send someone out today.
Trash-Spill Airside	9/30/2006	07:56 MX reports one of the hydraulic hoses is disconnected for the trash compactor near WN. Contacted Allied. Advised Zebra 2. 0824: Allied advised the compactor is back in service. Advised MX and Zebra units.
Wildlife/IPM	9/30/2006	16:45 TSA reports there are bees near the Hawaiian sky cap umbrella. Notified MX. 17:40 ATO reports bees curbside Jet Blue. Exterminators already on the way.
Wildlife/IPM	10/1/2006	16:06 AS called regarding bees in the vicinity of gates 16 & 17. Told her MX is on scene and pest control is enroute.
Unauthorized Discharge	10/3/2006	07:30 Wash water from aircraft washing operations is not being collected and disposed of properly, water accumulates on ramp areas of Gates 28, 28, 30. Environmental notified Jetwash.
Wildlife/IPM	10/7/2006	10:42 GAT reports there is a swarm of bees on a manhole cover Bee Swarm near gate 41. Advised MX. 12:08 Bees at gate 41 removed by contractor.
Trash-Spill Airside	10/9/2006	10:59 Container of unknown blue liquid near the fence area of ExecAir. Environmental notified Execair.
Trash-Spill Landside	10/9/2006	19:29 WN bag claim curbside needs a cleanup. Notified SPC.
Unauthorized Discharge	10/13/2006	7:30 Unauthorized discharge of trash, liquid and debris at T2 connector loading dock/trash compactor. Environmental contacted AA.
Trash-Spill Landside	10/14/2006	07:24 ATO's report there is broken glass curbside DL. Notified SPC.
Trash-Spill Airside	10/16/2006	11:03 Food grease and hamburger patty spilled near grease trap. Environmental notified Host.
Petroleum-Spill Landside	10/18/2006	17:05 ATO reports there is an oil/antifreeze spill curbside UA. Advised MX.
Trash-Spill Landside	10/20/2006	15:35 WN requests clean up curbside. Notified SPC.
Trash-Spill Airside	10/22/2006	06:18 SPC reports the trash compactor in T2W is OTS. MX checked the compactor and reported it needs to be serviced by Allied. 0723: Allied advised he will have someone out within the hour.
Trash-Spill Airside	10/24/2006	07:00 Received a report from SPC that the compactor at T1 was OTS. Requested Maint response to ensure the compactor has power. 0715--Maint reports that the dumpster is so full that it will no longer compact. Allied contacted to empty the dumpster ASAP.
Trash-Spill Airside	10/24/2006	14:57 ATO's report someone has vomited curbside T2 baggage claim. Advised SPC.
Petroleum-Spill Airside	10/30/2006	16:35 Discovered Jimsair refueling truck on Jimsair ramp leaking jet fuel; advised Jimsair employee for Quicksorb clean-up and leak investigation; no drains affected.
Trash-Spill Landside	11/1/2006	10:50 ATO called to report broken glass in front of the CO skycaps podium curbside. T2W. Notified SPC.
Wildlife/IPM	11/1/2006	07:55 Paging ATO called to report a dead pigeon at the Red Bus stop in Terminal 1. Notified SPC. 08:35 ATO called again regarding dead pigeon. Notified SPC.
Wildlife/IPM	11/4/2006	06:33 ATO Lead reports there is a injured pigeon curbside T1 baggage claim. Advised MX.
Wildlife/IPM	11/4/2006	23:30 Removed a dead bird (crow) from twy B7.
Trash-Spill Landside	11/5/2006	15:54 ATO called to request trash service curbside T2W. Notified SPC.
Trash-Spill Landside	11/5/2006	16:16 ATO reports broken glass curbside T1. Notified SPC.
Trash-Spill Landside	11/10/2006	19:33 ATO reports spill at P7. Notified SPC.
Trash-Spill Airside	11/12/2006	07:33 US reports there is a damaged cord that is in water and smoking on the compactor near WN in T1. Electrician 1 notified. 0742: Electrician 1 advised the cord is not smoking, but is damaged. 0745: Contacted Allied Waste.

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Subject /Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Landside	11/15/2006	10:20 ATO called to report a clean-up curbside in front of the FIS area. Notified SPC.
Trash-Spill Airside	11/18/2006	09:20 MX reports that US left trash, magazines, outside of the compactor near WN. Zebra 2 contacted US to clean the area.
Trash-Spill Landside	11/18/2006	15:39 ATO reports cleanup needed T2 curbside at crosswalk. Notified SPC.
Trash-Spill Airside	11/22/2006	16:04 Allied Waste advised they have taken the recycle compactor out of T1 and replaced it with a second trash compactor due to them not working tomorrow.
Petroleum-Spill Airside	11/23/2006	02:40 Z2 notified by HPD of a fuel spill at gate 23. 1 ARFF truck launched to location for support. Approximately 400 gallons (200 on the ramp - 200 captured in 55 gallon barrels) of fuel spilled from an America West '(Airbus 319) aircraft that was having maintenance work performed on it (changing of fuel filter). Spill containment was completed at 03:15 with clean-up started immediately after. No storm drains are affected.
Petroleum-Spill Landside	11/25/2006	16:53 ATO reports there is an automobile spill at T2W crosswalk. Notified MX.
Trash-Spill Airside	11/26/2006	08:00 Host reported that the recyclable compactor at the Host loading dock is not working; spoke with Pacific Waste driver, who was on site, about compactor. He will have a mechanic look at it.
Trash-Spill Airside	11/27/2006	06:00 SPC called to advise that WN employees had left all the trash bags outside the compactor and the two compactors are only half full. She will put them in the compactor. Advised Zebra 2. 07:50 Allied Waste called to report that WN had left many bags next to the compactor and his driver picked some of them up, but there was still more to be placed in the compactor. Advised Zebra 2. - HC
Trash-Spill Landside	11/27/2006	07:10 ATO called to request the trash be emptied on the transportation plaza, T-1. Notified SPC.
Petroleum-Spill Airside	11/30/2006	15:55 AS operations reports that they have a fuel spill at Gate no. 16. -15:58 - Zebra 2 and HPD 740 onsite. ASIG has already contained the spill and are beginning cleanup operations. The fuel has not reached any storm drains. During fueling operations ASIG employee had erroneously open the fuel automatic valve cut off switch causing approximately 5 gallons of fuel to spill onto the pavement. 16:20 - ASIG completes cleanup of affected area.
Trash-Spill Airside	12/4/2006	16:21 T2 McDonalds employee reports trash compactors are full. Notified MX.
Petroleum-Spill Landside	12/4/2006	14:30 Reported a fuel spill from a contractors vehicle at airfreight cargo bldg. MX and HPD advised. Fuel was about 1 or 2 gal. No storm drains involved.
Trash-Spill Airside	12/5/2006	07:30 HMS Host called to report the trash compactor in T2E needs to emptied. Zebra 2 checking.-08:05 Notified Allied Waste, they are scheduled for today.
Trash-Spill Airside	12/8/2006	08:20 SPC called to report that American Airlines has left bags outside the compactor in Terminal 1; the compactor is empty. Advised Zebra 2. 09:00 Called again to advise they will pick-up all the trash bags and throw them in the compactor.
Petroleum-Spill Airside	12/15/2006	19:18 ASIG reports fuel spill at FedEx near one of the Caravans. Spill is contained and cleanup has begun. Notified Zebra 2.
Petroleum-Spill Airside	12/15/2006	19:25 ref: log entry 1918. Zebra 2 onsite. ASIG employee while fueling FX Cessna Caravan on the northwest side of the FX ramp spot 3, experienced a nozzle malfunction from truck. The nozzle became stuck in the open position causing a fuel spill of approximately 5 gallons. Spill had been contained prior to my arrival and clean up efforts had begun. No storm drains had been affected.
Petroleum-Spill Airside	12/15/2006	23:21 Fuel spill--Gate 33: During defueling from an US A320 to the truck, the transfer switch failed to engage thereby resulting in approximately five gallons of fuel being spilled. No storm drains affected and clean-up was initiated prior to my arrival by ASIG personnel.
Trash-Spill Airside	12/16/2006	21:00 AS MD-80 de-icing at top of alley btwn T2E and T1W; de-icing fluid draining onto wet pavement with rain run-off draining into storm drain; de-icing fluid entering drain system with rain run-off; ATS attempted to soak up residual; e-mail to Environmental.
Unauthorized Discharge	12/16/2006	De-icing activities conducted in the T1W-T2W alley fluid discharged into the Airport's storm drain system. Environmental notified Alaska Airlines.
Wildlife/IPM	12/18/2006	09:10 Conducted weed spray operations in ovals O-1-S, O-2-S, and O-4-S.
Trash-Spill Airside	12/22/2006	07:58 SPC called to report that the trash compactor at Terminal 1 is full. Contacted at Allied Waste and he advised the truck should be there within the hour.
Petroleum-Spill Airside	12/23/2006	07:40 Fuel spill reported at gate 26, ATS Mgr. approximately 5 gallons on ramp from stbd wing fuel vent NW A320. ASIG on scene and clean up in progress. 07:45 ASIG MOD advised NW spill kit out of absorbent (kitty litter). SAN ID Check- Spoke to NW to advise spill kit required to be properly within SIDA maintained. SAN ID check, EV, NW.
Trash-Spill Airside	12/23/2006	07:32 Contacted AA to direct clean up of FOD (broken bag parts) near aircraft at gate 29.
Trash-Spill Airside	12/26/2006	08:00 Maintenance called to report that the large dumpster in front of the Commuter Terminal and the compactor in Terminal 1 are full. Notified Allied Waste, the compactor will be emptied today and the dumpster tomorrow.
Trash-Spill Landside	12/27/2006	15:09 MX reports there are tumbleweeds rolling through the T2W parking lot. Notified LPI.

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Unauthorized Discharge	12/30/2006	22:18 AccuFleet washing UA 737 on Gate 11; no storm drain protection; wash water entering storm drain; stopped activity and advised of Best Management Practices; storm drains covered and water vacuuming initiated; e-mail to Environmental.
Trash-Spill Airside	12/31/2006	08:10 SPC reports the trash compactor near T2E is not working properly. MX investigated and found it to be working fine. It appears a little full. The recycle compactor is not situated properly. Contacted Pacific Waste. He is on his way. Advised Zebra 2.
Sewage	1/5/2007	09:33 Sewage overflow at T2 connector, resulting in discharge to the square, copper inlet. Environmental notified Ocean Blue for clean up.
Sewage	1/5/2007	08:45 Received a report from NSEI of a large sewer spill under Gate 21. Maintenance en route. Per Plumber the Admirals Club has a stopped up 4" sewer line and the debris is getting close to the storm drain. Zebra 2 requests contact Ocean Blue. Spoke with Ocean Blue and they are on there way at 0915. Advised Zebra 2.
Trash-Spill Landside	1/15/2007	04:55 Maintenance responded to a broken water main between WN and the CT along Winship. Duty Sup contacted for coordination with the City for repairs.
Trash-Spill Airside	1/16/2007	10:05 AA called to advise that the fire hose is leaking at Gate 25
Unauthorized Discharge	1/18/2007	14:22 Rinsewater from washing of portable toilet by Diamond Environmental Services discharged to nearby storm drain. Environmental notified Diamond Environmental Services.
Trash-Spill Airside	1/20/2007	17:38 UA called to request ATS empty their overflowing FOD barrel at Gate 16
Petroleum-Spill Landside	1/25/2007	03:30 Vehicle Accident. Red Bus vs. Light pole in employee parking lot on Harbor Island. Small fuel spill contained by maintenace and clean up performed by Ocean Blue.
Trash-Spill Landside	1/25/2007	10:30 ATO reported a large amount of anti-freeze next to the curb by the FIS.
Trash-Spill Airside	1/29/2007	20:55 AS deicing an MD-80 in the middle of T1W/T2E alley during rain event; deicing fluid entering storm drain system; containment and clean-up impossible.
Trash-Spill Airside	1/30/2007	13:45 United Ops called to report that a NW tug dropped a bag of trash as it passed Gate 14. Notified NW Ops to retrieve trash.
Petroleum-Spill Airside	2/1/2007	08:05 Observed small fuel spill from Stbd wing vent, C-601, C-FBOM. Approximately 3 gal. Clean up in progress. No storm drains impacted. Email to Environmental.
Wildlife/IPM	2/1/2007	14:30 MX reports bees have been sprayed at ARFF.
Trash-Spill Airside	2/2/2007	09:44 Approximately one gallon of spilled milk in HMS Host operations area. Environmental notified HMS Host on site.
Petroleum-Spill Airside	2/5/2007	15:07 Timco's leaking hydraulic scissor lift at Gate 17. Environmental notified Timco.
Petroleum-Spill Airside	2/5/2007	17:38 UA reports fuel spill at gate 12. Notified Zebra unit. 19:40 Fuel Spill at gate 12. Qty 5 gal. HPD, ARFF, Z-2, ASIG supervisor responded. No storm drains affected. ASIG cleaned up area.
Trash-Spill Landside	2/5/2007	11:10 ATO called to report an abandoned car battery curbside by "the running man" statue, Terminal 1. Notified Maintenance.
Wildlife/IPM	2/5/2007	14:58 TOC reports Gate 40 has a dead bird in the trap. Email Airport Operations.
Trash-Spill Airside	2/9/2007	17:06 UA reports ATS needs to empty trash at gate 16 to prevent FOD. Tried their phone number; no answer. Notified Zebra 2.
Trash-Spill Landside	2/13/2007	07:30 Maintenance called to repot spilled popcorn by gate 19 near the curb.and it's drawing seagulls. Notified SPC.
Trash-Spill Airside	2/17/2007	16:38 WN reports dumpster is stopped. Notified Zebra 2 and requested T1 SPC Coach check. SPC reports dumpster is functional.
Trash-Spill Landside	2/19/2007	20:00 ATO advised trash cans curbside T-1 need to be emptied. SPC was advised.
Trash-Spill Landside	2/20/2007	16:05 ATO reports the trash cans are full on the transportation islands for both terminals. Notified SPC. 17:20 ATO Lead reports the trash has not been emptied. Contacted SPC.
Trash-Spill Airside	2/21/2007	11:00 Overflowing trash can and bucket of waste water at Gate 17. Environmental notified Alaska Airlines.
Trash-Spill Airside	2/23/2007	08:33 M-1 advised trash at gate 35 terminal stairs being attacked by seagulls. Contacted CO ops for GAT clean-up.
Trash-Spill Landside	2/23/2007	15:00 Host reported that the 2TW trash compactor is not working; Allied Waste notified.
Trash-Spill Landside	2/24/2007	08:37 ATO reports there are dog feces curbside T2 baggage claim 1, 2, & 3 and curbside NW. Left message for SPC.
Trash-Spill Airside	2/25/2007	09:22 MX reports SPC has dropped a bag of trash under gate 36. Contacted SPC.
Trash-Spill Landside	2/25/2007	09:42 ATO Lead reports there is a lot of trash curbside AA. Notified SPC.
Trash-Spill Landside	2/26/2007	06:30 HMS Host called to advise that birds are in the trash bin in T2W. The compactor is out for repair. The bin is also full. Spoke with Allied Waste, they will change out the open bin for a closed top bin while our regular compactor is being repaires. They will try to get to it today.
Trash-Spill Landside	3/3/2007	13:38 HMS reports the trash compactor is OTS in T2W. Contacted Pacific West.

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Subject /Topic	**Date**	**Log Entry Synopsis**
Petroleum-Spill Airside	3/5/2007	11:50 Citation was found leaking fuel from the right wing vent. JimsAir was notified for cleanup and no storm drains were affected.
Wildlife/IPM	3/6/2007	08:30 MX workers proceeded into the ovals for weed removal.
Wildlife/IPM	3/8/2007	12:50 Escorting weed crew into oval adjacent taxiway B2 for weed removal. 01:50 Weed removal crew completed for the day.
Sewage	3/12/2007	8:52 Evidence of a spill leaving the triturator. Environmental notified Ocean Blue for clean up.
Trash-Spill Airside	3/18/2007	06:50 SPC reports the T1 trash compactor is OTS. 06:58 MX advised there is power to the compactor and it is OTS. 06:59 Contacted Pac Waste.
Trash-Spill Airside	3/21/2007	07:00 SPC called to report that the trash compactor at Terminal 1 is full. Notified at Allied Waste who advised pick-up should be shortly.
Petroleum-Spill Landside	3/24/2007	10:59 ATO's reported a transmission leak, curbside T1, gate 1 & 2 area; MX notified and will respond.
Petroleum-Spill Airside	3/31/2007	16:00 Jimsair refueler parked on Jimsair line breaking fuel from under cab; contacted Jimsair for clean-up and repair. 18:00 Ref 1338 entry; American Pest Control completed bee removal at Gate 41; Authority Maintenance call-out after conferring with PM Z-2; not a tenant call-out.
Wildlife/IPM	3/31/2007	13:38 Bee swarm observed on DL/GAT near gate 40/41. Contacted DL ops and advised him to call for bee removal.
Trash-Spill Airside	4/1/2007	12:15 Host called to report that the trash compactor at T2W is out of service. Notified Allied Waste.
Trash-Spill Airside	4/2/2007	08:50 Allied Waste called to advise the compactor has been changed out and the bags on the outside need to be thrown inside. Notified SPC.
Trash-Spill Landside	4/4/2007	08:35 TSA called to report an animal clean up on the sidewalk by gates 1 & 2.
Sewage	4/5/2007	10:18 Blue liquid dry stains in front of the Airserv office, indicating a possible leak from a lavatory waste truck. Environmental talked to the on-site Airserv supervisor.
Wildlife/IPM	4/5/2007	08:00 Escorted MX into the Least Tern ovals for weed spraying.
Trash-Spill Airside	4/7/2007	10:50 Left VM for AA MOD to have AA cabin service trash cart emptied.
Trash-Spill Landside	4/7/2007	16:49 ATO Supervisor called to report a trash can over flowing curbside T1 in front of Baggage Claim.
Trash-Spill Landside	4/8/2007	10:55 ATO reports a spill at T1 curbside near United.
Petroleum-Spill Landside	4/11/2007	14:05 Fluid leaking out of a 5-gallon bucket that was left outside a contractor's vehicle. Environmental notified HPD.'14:32 Responded to Stillwater Rd for an unattended Toyota Tundra Pickup truck & a 5-gallon bucket with liquid near the truck. Contacted AA and ASIG to locate owner, unable to locate. HPD on scene with K-9. J Ford, told to park in fire lane by SDCRAA plumbers to work on CNG station. Plumbers contacted and directed parking in fire lane not authorized and maintenance personnel not authorized to approve curbside parking.
Trash-Spill Airside	4/13/2007	06:15 Received a call from Maintenance that SPC had left numerous garbage bags at gate 10 ramp side and the seagulls were getting into them. Notified SPC.
Trash-Spill Airside	4/13/2007	07:36 Contacted DL ops to have trash on back of DL cabin service truck on west side of T2W moved.
Trash-Spill Airside	4/14/2007	7:47 Observed trash at bottom of stairs, gate 38. Contacted DL ops to have trash removed.
Trash-Spill Airside	4/14/2007	09:11 Dumpsters W side of CT overfilled with lids opened. Contacted SPC to have trash properly loaded and lids closed.
Trash-Spill Airside	4/15/2007	07:10 FOD call from ATCT. Z2 retrieves plastic bag at C3.
Petroleum-Spill Airside	4/17/2007	12:00 Gate Gourmet truck at gate 41 has a hydraulic leak. Maintenance applies spill absorbent over fluid. ASIG contacted to move vehicle. No storm drains affected.
Petroleum-Spill Airside	4/19/2007	12:10 TSA called to report a Jetwash vehicle is leaking fuel. Jetwash Mgr was called and informed of the problem. They will clean up the spill with dry absorb maintenance disseminated to dry the liquid. Email and photos sent to Real Estate.
Petroleum -Spill Airside	4/20/2007	12:11 Fluid leaking out of Jetwash vehicle trailer. Airport Operations determined that it was a combination of fuel and wash water. Environmental notified Jet Wash, Inc.
Wildlife/IPM	4/24/2007	12:40 Delta called to report a swarm of bees at gate 40.Notified MX. Couldn't find any bees.
Trash-Spill Airside	4/27/2007	17:10 UA called to report that ATS had parked their trash cart between Gates 17/18 Ramp side and that the seagulls were picking at the trash and creating FOD. Alaska OPS notified ATS.
Trash-Spill Landside	4/28/2007	18:16 ATO called to report the trash cans UA curbside are overflowing and some trash is on the ground. SPC notified.
Trash-Spill Airside	5/5/2007	07:39 Left VM for AA MOD to have cabin cleaning trash cart emptied or properly covered and requested a call back to confirm receipt.
Petroleum-Spill Airside	5/8/2007	10:20 Small oil spill on west ramp. Delta cleaned up spill with absorbent.No storm drains affected.
Trash-Spill Landside	5/8/2007	04:10 Contacted Allied Waste regarding a malfunctioning compactor located southwest of the east ramp. Near P-27. The compactor is not cycling and trash bags are accumulating on the ground near the compactor. Allied Waste mechanic en route.

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Subject /Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Landside	5/8/2007	11:40 Received a call from Host regarding the T2W trash compactor. He advised that the compactor shocks the user when cycled. Dispatched Maintenance to secure the compactor and troubleshoot. Allied also contacted and is en route.
Wildlife/IPM	5/10/2007	11:00 Conducted weed spraying within the movement areas. Completed spraying all ovals north of taxiway B and from C1 to C2.
Trash-Spill Airside	5/11/2007	07:25 Left VM for AA MOD to have uncovered trash cart by gate 25 covered or emptied.
Trash-Spill Airside	5/12/2007	12:00 FOD clean up of TXY Bravo & Charlie from 1200-1400. Several pieces of paper scattered throughout taxiways. MX assisting on foot and driving sweeper. SPC also assisting on ramp side.
Trash-Spill Airside	5/13/2007	6:22 SPC reports the trash compactors are full in T2W. Left message for Allied.
Wildlife/IPM	5/13/2007	10:52 WN reports there is a swarm of bees ramp side gate 1. Notified MX. 11:00 Re: 10:52 MX calls pest control company to remove bees at Gate 1.
Trash-Spill Airside	5/15/2007	07:00 Per Zebra 3, the trash compactor in T2W at the loading dock is not compacting. The engine runs. Notified at Allied Waste.
Wildlife/IPM	5/17/2007	08:00 Weed spraying completed within all movement areas.
Wildlife/IPM	5/17/2007	12:00 Contacted MX in referece to a hive of bees located on the roof of T1W located near the western most transformer that was installed roughly six months ago.
Petroleum-Spill Airside	5/18/2007	15:32 TSA called to report that the ADASP Inspectors at P18 reported a Gate Gourmet truck was leaking transmission fluid and wanted a Zebra Unit to respond. Zebra 2 notified.15:38 GG was driving the vehicle it started leaking Steering Fluid. ASIG responded with dry absorb and then serviced the vehicle. No drains were affected.
Trash-Spill Airside	5/19/2007	07:55 Left VM for AA MOD to have cabin cleaning cart trash emptied or covered IAW airport rules.
Petroleum-Spill Airside	5/23/2007	13:40 Fuel spill at gate 23. American cleaned up 6 gal fuel spill.
Trash-Spill Airside	5/25/2007	10:00 American Airlines called requesting the ramp area between gates 23-29 be swept.
Trash-Spill Airside	5/26/2007	08:41 TSA called requesting the trash cans emptied ramp side under checkpoint 5. Notified SPC.
Trash-Spill Airside	6/4/2007	13:05 SPC called to report the trash compactor in T2E and elevator 15 is not working. Notified In MX. He stated elevator is awating parts an dhe will check on the compactor. 13:15 Trash compactor has power. Called Allied Waste, they send a mechanic.
Petroleum-Spill Airside	6/9/2007	13:40 ASIG reported that there is a fuel spill at gate 33; Z-2 notified. Reported that the fuel spill is 3 to 5 gallons and that ASIG is in the process of cleaning up the spill; no storm drains. 13:40 Fuel spill, gate 33 from STBD wing vent 5-10 gallons. ASIG already cleaning up. No storm drains impacted.
Sewage	6/9/2007	13:37 WN reports the hose to the trituator is broken. Contacted MX.
Petroleum-Spill Airside	6/11/2007	19:26 AS called to report a fuel spill at Gate 17. Zebra notified. 19:30 ASIG cleaned up the fuel spill with absorbent. Fueler stated that approx 5 - 10 gallons was spilled out of the right wing of the Alaska 737. Since the spill was in the vicinity of a slit trench; Env was notified. Ocean Blue was contacted for further clean up of slit trench in the area of gate 17. Area cleanup completed successfully per Airport, State and Federal regulations.
Trash-Spill Airside	6/13/2007	11:51 SPC reports the trash compactor is OTS in T2W. Contacted Electrician 2 to check on power. 11:56 Electrician 2 advised there is power. Contacted Allied Waste.
Trash-Spill Airside	6/14/2007	15:45 AA called to report a green liquid running out of a pipe between Gates 27 & 29. MX and Zebra 2 notified.
Trash-Spill Airside	6/16/2007	08:47 Contacted Allied Waste due to a report that the bins are full near the CT. He advised he will send someone out ASAP. Advised Zebra 2 and SPC.
Petroleum-Spill Airside	6/18/2007	15:15 AA Eagle inbound to CT broke a hydraulic line at entrance to, just past the VSR; hydraulic fluid spilled on pavement; no drains affected; A/C towed to parking; Airport MX and Eagle employees responded for fluid clean-up; clean-up completed at 1535.
Petroleum-Spill Airside	6/20/2007	10:11 Fuel spill at gate 6, overflow valve on STBD wind B-737 allowed 10-15 gallons Jet A to vent onto ramp. No storm drains impacted. WN and ASIG personnel cleaning. Environmental on site.
Petroleum-Spill Airside	6/21/2007	19:40 ATCT called to report that a DL at B1 was leaking hydraulic fluid onto the taxiway. It appears that approx 2-3 gallons leaked from the Rt. Main landing gear. The aircraft taxied under it's own power to G41. All MX crews responded with the new fuel spill trailer and were able to clean up the spill. The incident was clear at 2010 hrs and B1 was only closed for approx 10 min during cleanup.
Trash-Spill Airside	6/21/2007	07:27 Contacted DL Ops to have trash bags at base of stairs near 38 removed and tug/cart in fire lane west of gate 41 moved.
Wildlife/IPM	6/21/2007	16:23 ATO called to report a large dead rat on the north side of the USO. MX notified.
Trash-Spill Airside	6/23/2007	06:30 SPC reports that the compactor at T1 is full. 0635 Allied Waste on site to empty compactor.
Trash-Spill Airside	6/23/2007	14:28 SPC reported trash compactor for T1 was not working. MX notified.'15:00 MX advised they could not fix the trash compactor for T1 and to call Allied Waste. Allied Wste notified.
Trash-Spill Airside	6/24/2007	07:20 SPC reports the trash bins on the side of the CT are overflowing. Contacted Allied and he advised they will have someone out ASAP.

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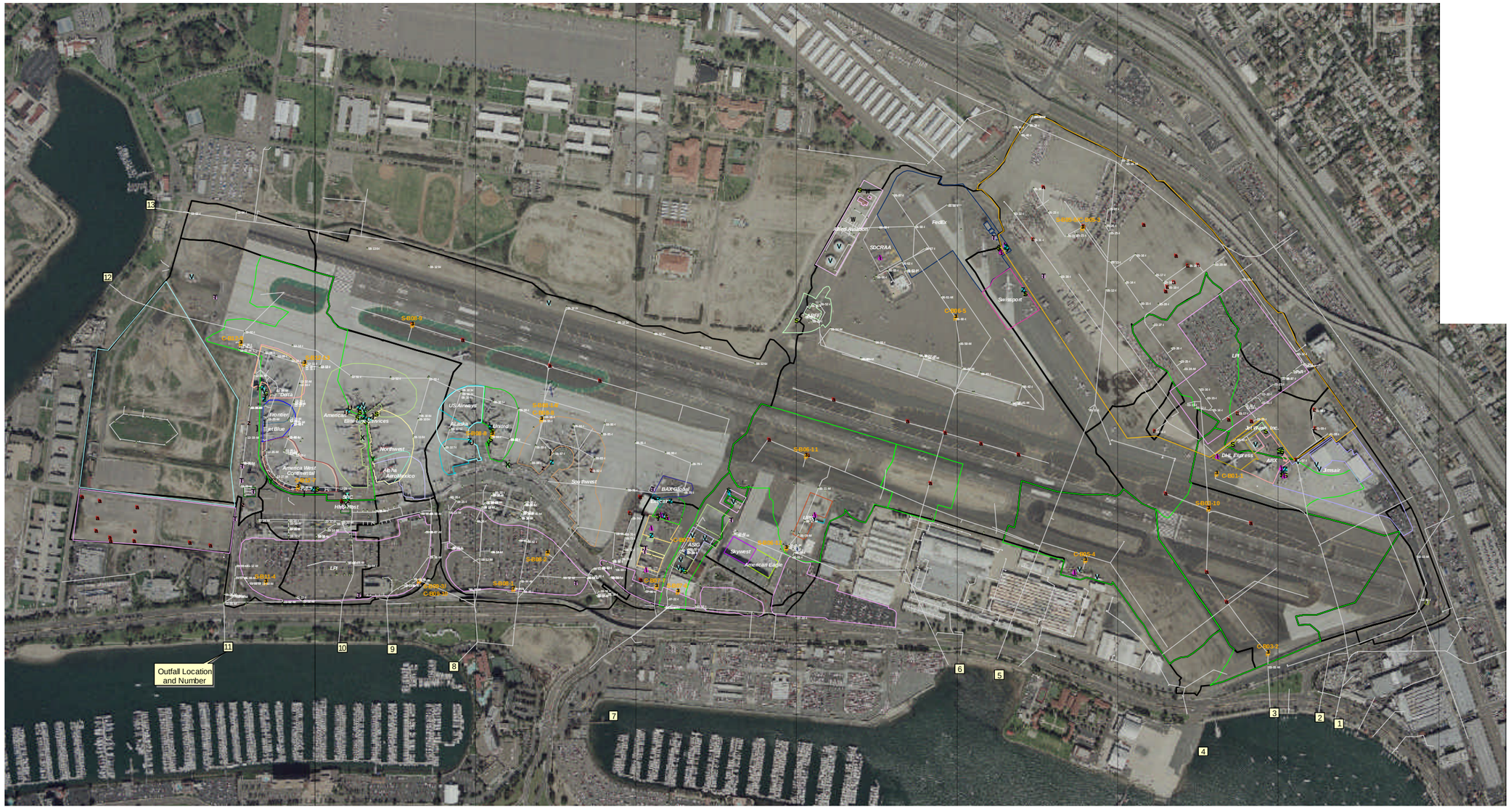
Subject /Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Landside	6/24/2007	14:07 UA called to report their trash cans at Gate 12 need to be emptied. SPC notified.
Trash-Spill Airside	6/25/2007	16:44 TSA Supervisor called to report a second time that their trash cans are overflowing at T2W Baggage make up area and need them emptied. SPC notified.
Petroleum-Spill Airside	6/29/2007	10:15 Alaska called to repot a fuel spill at gate 18. Zebra 2 en route.
Trash-Spill Airside	6/29/2007	04:06 T2W trash compactor is not working; Allied Waste notified and will respond.

Appendix C

FY06-07 Wet Weather Sample Results



LEGEND

Significant Material Storage
- S Chemical Storage
- U Deicing Fluid
- T Dumpsters
- V Fuel Storage
- W Fueling
- X Grease Container
- Z Grease Receptacle
- Y Grease Trap
- Z Hazardous Waste
- Metals
- Oil and Grease
- Sample Location
- UST
- Oil Water Separator

Storm_Sewer_Point
Unstenciled Storm Drains
Storm Sewer Line
Drainage Basin
Sample Location Drainage Basin

Potential Pollutant Sources
- ABX
- AeroMexico
- Alaska
- Allied Aviation
- Alpha
- America West
- American Airlines
- American Eagle
- ANFF
- ASIG
- BAX Global
- Continental
- Delta
- DHL Express
- EveAir
- FedEx
- Frontier
- Hawaiian
- HMS Host
- Jet Wash, Inc.
- jetBlue
- Jmsair
- Landfill
- lpi
- Northwest
- Rental Car Storage Area
- SDCRAA
- SkyWest
- Southwest
- SPC
- Swissport
- Triturator
- United
- UPS
- US Airways

N

SDIA Storm Water Sampling Program
Sampling Locations
Figure 1

San Diego, California

MACTEC

Date: 5-11-07
Project No.: 50 12-07-0001
Checked By:
Prepared By: Scot Richardson

COMPLIANCE SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					C-B01-1-10-14-06	C-B03-2-10-14-06	C-B05-3-10-14-06	C-B05-4-10-14-06	C-B06-5-10-14-06	C-B07-6-10-14-06	C-B07-7-10-14-06	C-B08-8-10-14-06	C-B12-9-10-14-06	C-B09-10-10-14-06
CONVENTIONALS														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	0.980	0.490	0.150	1.25	ND	0.220	0.290	0.100	ND	0.120
BOD	EPA 405.1	1	mg/l	2.00	280	162	27.0	370	120	132	218	41.0	108	27.0
COD	EPA 410.4	1	mg/l	0.100	719	318	50.0	1160	279	290	506	120	218	60.0
SC	EPA 120.1	1	µmhos/cm	0.100	818	655	108	822	211	212	399	378	8660	96.6
MBAS	EPA 425.1	1	mg/l	0.0500	0.300	0.330	ND	0.360	0.220	ND	0.130	0.170	0.130	ND
Oil & Grease	EPA 413.1	1	mg/l	1.00	4.20	3.80	6.10	6.80	4.00	3.70	5.80	3.60	ND	5.20
pH	EPA 150.1	1	pH Units	0.100	5.00	5.10	7.20	5.30	4.90	6.20	5.70	7.30	6.40	6.80
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	264	148	23.0	430	150	120	264	45.0	91.0	41.0
METALS (TOTAL)														
Aluminum	EPA 200.8	2	µg/L	100	3000	560		2600			480			
		1	µg/L	50			4800		1400	340		230		8700
		5	µg/L	250									ND	
Copper	EPA 200.8	2	µg/L	4.0	2500	1900		2700			220			
		1	µg/L	2.0			21		430	220		330		38
		5	µg/L	10									50	
Iron	EPA 200.8	2	µg/L	100	2.5	0.57		3.1			1.0			
		1	µg/L	50			4.4		1.7	0.93		0.45		8.6
		5	µg/L	250									0.29	
Lead	EPA 200.8	2	µg/L	4.0	56	110		55			42			
		1	µg/L	2.0			38		26	25		24		66
		5	µg/L	10									93	
Zinc	EPA 200.8	2	µg/L	4.0	2400	1100		6500			850			
		1	µg/L	2.0			74		310	1100		240		240
		5	µg/L	10									140	
METALS (DISSOLVED)														
Copper	EPA 200.8	1	µg/L	2.0			12		380	98		120		12
		2	µg/L	4.0	2400	1700		2500			180		22	
Zinc	EPA 200.8	1	µg/L	2.0			11		250	840		190		16
		2	µg/L	4.0	2400	1100		5800			690		59	
TOTAL PETROLEUM HYDROCARBONS (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	20	mg/l	1	ND			ND						
		1	mg/l	0.050		5.3	ND		ND		3.6	2.6	ND	ND
		5	mg/l	0.25						ND				
Jet-A	EPA 8015B	20	mg/l	1	ND			ND						
		1	mg/l	0.050		ND	ND		ND		ND	ND	ND	ND
		5	mg/l	0.25						ND				
Oil Range Organics (C22-C36)	EPA 8015B	20	mg/l	1	6.4			6.0						
		1	mg/l	0.050		2.4	0.80		1.1		2.3	1.7	2.3	1.3
		5	mg/l	0.25						6.1				
GLYCOLS														
Ethylene Glycol	EPA 8015B	1	mg/l	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	1	mg/l	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results											
					S-B08-1-10-14-06[a]	S-B08-2-10-14-06[a]	S-B09-3-10 14-06[b]	S-B11-4-10 14-06[b]	S-B05-5-10-14-06	S-B07-6-10 14-06	S-B08-9-10 14-06	S-B03-10-10-14-06	S-B06-11-10-14-06	S-B06-12-10-14-06	S-B12-13-10-14-06	S-B08-14 10 14-06
CONVENTIONALS																
BOD	EPA 405.1	1	mg/l	2.00	47.0	104	40.0	128	NA	NA	NA	NA	NA	9.20	8.60	41.0
COD	EPA 410.4	1	mg/l	0.100	122	144	107	329	NA	NA	NA	NA	NA	31.0	28.0	120
SC	EPA 120.1	1	µmhos/cm	0.100	89.9	186	329	125	NA	NA	NA	NA	NA	155	182	378
Oil & Grease	EPA 413.1	1	mg/l	1.00	3.30	3.70	4.90	2.70	NA	NA	NA	NA	NA	1.10	1.20	3.60
pH	EPA 150.1	1	pH Units	0.100	5.20	5.50	7.00	5.60	NA	NA	NA	NA	NA	6.70	6.70	7.30
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	57.0	96.0	38.0	144	NA	NA	NA	NA	NA	8.00	7.00	45.0
METALS (TOTAL)																
Aluminum	EPA 200.8	2	µg/L	100	300				NA	NA	NA	NA	NA			
		1	µg/L	50		810	130	7700	NA	NA	NA	NA	NA	ND	62	230
Copper	EPA 200.8	1	µg/L	2.0	54	63	50	150	120	230	220	2000	680	38	27	330
Iron	EPA 200.8	1	µg/L	50	0.20	1.1	0.21	11	NA	NA	NA	NA	NA	0.16	ND	0.45
Lead	EPA 200.8	1	µg/L	2.0	19	21	20	91	NA	NA	NA	NA	NA	21	22	24
Zinc	EPA 200.8	1	µg/L	2.0	330	240	120	1000	270	2100	210	720	190	92	60	240
METALS (DISSOLVED)																
Copper	EPA 200.8	1	µg/L	2.0	46	58	50	40	71	39	210				19	120
		1	µg/L	5.0								1700	460	30		
Zinc	EPA 200.8	1	µg/L	2.0	260	210	110	220	200	1200	190				60	190
		1	µg/L	10								670	130	81		
GLYCOLS																
Ethylene Glycol	EPA 8015B	1	mg/l	50	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND
Propylene Glycol	EPA 8015B	1	mg/l	50	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND

Notes:

a: The chain of custody indicated that samples S-B08-1 and S-B08-2 should be composited together as one sample for lab analysis. However, due to oversight by the lab, the samples were not composited together and individual analyses were run on the samples.

b: a: The chain of custody indicated that samples S-B09-3 and S-B11-4 should be composited together as one sample for lab analysis. However, due to oversight by the lab, the samples were not composited together and individual analyses were run on the samples.

COMPLIANCE SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					C-B01-1-12-17-06	C-B03-2-12-17-06	C-B05-3-12-16-06	C-B05-4-12-16-06	C-B06-5-12-17-06	C-B07-6-12-16-06	C-B07-7-12-17-06	C-B08-8-12-17-06	C-B12-9-12-16-05	C-B09-10 12-16-06
CONVENTIONALS														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	0.830	0.370	0.180	0.960	ND	0.240	0.260	0.120	ND	0.140
BOD	EPA 405.1	1	mg/l	2.00	43.0	32.0	25.8	71.0	66.0	47.0	65.0	18.0	148	35.0
COD	EPA 410.4	1	mg/l	0.100	129	87.0	47.0	163	120	121	182	47.0	389	101
SC	EPA 120.1	1	µmhos/cm	0.100	184	117	101	69.3	247	119	272	182	10400	364
MBAS	EPA 425.1	1	mg/l	0.0500	0.180	0.200	0.120	0.160	0.220	0.110	0.170	0.0900	0.100	ND
Oil & Grease	EPA 413.1	1	mg/l	1.00	2.20	2.50	2.00	4.60	5.10	3.80	2.30	ND	1.40	2.00
pH	EPA 150.1	1	pH Units	0.100	5.40	5.60	7.00	5.60	5.30	6.40	5.90	7.20	6.70	7.00
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	23.0	25.0	30.0	54.0	58.0	32.0	46.0	12.0	114	27.0
METALS (TOTAL)														
Aluminum	EPA 200.8	2	µg/L	50	1500	1500	2000	990	1500	110	2000	ND	100	950
Copper	EPA 200.8	2	µg/L	2.0	200	310	19	150	300	100	210	74	42	100
Iron	EPA 200.8	2	µg/L	40	1.9	2.1	2.0	1.3	1.8	1.8	3.0	ND	0.26	1.3
Lead	EPA 200.8	2	µg/L	2.0	12	20	16	4.7	7.3	5.1	23	ND	ND	5.4
Zinc	EPA 200.8	2	µg/L	2.0	250	220	140	74	220	830	760	120	160	240
METALS (DISSOLVED)														
Copper	EPA 200.8	2	µg/L	2.0	140	160	4.3	100	240	45	55	54	9.2	82
Zinc	EPA 200.8	2	µg/L	2.0	200	130	7.3	43	170	500	450	120	150	180
TOTAL PETROLEUM HYDROCARBONS (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	0.85	0.47	ND	ND	0.97	2.7	2.1	1.2		1.8
		2	mg/l	0.10									3.8	
Jet-A	EPA 8015B	1	mg/l	0.050	ND	ND	ND	ND	ND	ND	ND	ND		ND
		2	mg/l	0.10									ND	
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.89	0.61	0.67	1.7	1.1	2.1	1.6	0.73		2.1
		2	mg/l	0.10									2.7	
GLYCOLS														
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results										
					S-B08-1/S-B08-2 12-17-06	S-B09-3/S-B11-4 12/17/06	S-B05-5 12-17-06	S-B07-6 12-16-06	S-B08-8 12-16-06	S-B08-9 12-17-06	S-B03-10 12-17-06	S-B06-11 12-17-06	S-B06-12 12-17-06	S-B12-13 12-17-06	S-B08-14-12-17-06
CONVENTIONALS															
BOD	EPA 405.1	1	mg/l	2.00	38.0	43.0	NA	NA	NA	NA	NA	NA	13.4	10.4	18.0
COD	EPA 410.4	1	mg/l	0.100	96.0	136	NA	NA	NA	NA	NA	NA	29.0	30.0	47.0
SC	EPA 120.1	1	µmhos/cm	0.100	145	160	NA	NA	NA	NA	NA	NA	107	194	182
Oil & Grease	EPA 413.1	1	mg/l	1.00	1.30	1.50	NA	NA	NA	NA	NA	NA	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	5.50	5.70	NA	NA	NA	NA	NA	NA	7.00	7.20	7.20
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	26.0	30.0	NA	NA	NA	NA	NA	NA	6.00	6.00	12.0
METALS (TOTAL)															
Aluminum	EPA 200.8	2	µg/L	50	1700	1600	NA	NA	NA	NA	NA	NA	ND	82	ND
Copper	EPA 200.8	2	µg/L	2.0	54	49	23	570	590	210	500	540	13	35	74
Iron	EPA 200.8	2	µg/L	40	2.4	2.5	NA	NA	NA	NA	NA	NA	ND	0.053	ND
Lead	EPA 200.8	2	µg/L	2.0	15	19	NA	NA	NA	NA	NA	NA	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	220	250	180	6500	240	86	130	160	43	53	120
METALS (DISSOLVED)															
Copper	EPA 200.8	2	µg/L	2.0	22	18	4.4	150	480	170	420	190	8.0	27	54
Zinc	EPA 200.8	2	µg/L	2.0	94	100	6.0	5600	180	71	110	120	45	51	120
GLYCOLS															
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	ND	ND	ND

Notes:
a: Sites S-B08-1, SB08-2, S-B09-3 and S-B11-4 were analyzed individually for Glycols. Results for all sites were "ND".

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					S-B08-1- / S-B08-2-12-27-06	S-B09-3-/S-B11-4-12-27-06	S-B05-5-12-27-06	S-B07-6-12 27-06	S-B08-9-12/27/06	S-B03-10-12-27-06	S-B06-11-12/27/06	S-B06-12-12/27/06	S-B12-13-12/27/06	S-B08-14-12-27-06
CONVENTIONALS														
BOD	EPA 405.1	1	mg/l	2.00	47.0	56.0	NA	NA	NA	NA	NA	33.1	19.1	41.0
COD	EPA 410.4	1	mg/l	0.100	110	117	NA	NA	NA	NA	NA	61.0	35.0	90.0
SC	EPA 120.1	1	µmhos/cm	0.100	108	99.6	NA	NA	NA	NA	NA	109	137	129
Oil & Grease	EPA 413.1	1	mg/l	1.00	1.80	2.10	NA	NA	NA	NA	NA	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.50	6.50	NA	NA	NA	NA	NA	6.80	6.50	6.70
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	19.0	23.0	NA	NA	NA	NA	NA	4.00	8.00	4.00
METALS (TOTAL)														
Aluminum	EPA 200.8	2	µg/L	50	540	550	NA	NA	NA	NA	NA	100	140	120
Copper	EPA 200.8	2	µg/L	2.0	53	41	11	1200	270	260	290	22	30	29
Iron	EPA 200.8	2	µg/L	40	0.71	0.91	NA	NA	NA	NA	NA	0.16	0.23	0.14
Lead	EPA 200.8	2	µg/L	2.0	3.4	7.1	NA	NA	NA	NA	NA	ND	2.0	ND
Zinc	EPA 200.8	2	µg/L	2.0	200	160	64	5700	100	92	130	64	91	76
METALS (DISSOLVED)														
Copper	EPA 200.8	2	µg/L	2.0	33	26	3.7	130	200	190	170	11	5.5	13
Zinc	EPA 200.8	2	µg/L	2.0	140	110	9.0	4300	71	66	73	62	56	59
GLYCOLS														
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	ND	ND	12.1

Notes:
a: Sites S-B08-1, SB08-2, S-B09-3 and S-B11-4 were analyzed individually for Glycols. Results for all sites were "ND".

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/S-B08-2-01-31-07	S-B09-3/S-B11-4-01-31-07	S-B05-5-01-31-07	S-B07-6-01 29-07	S-B12-7-01 29-07	S-B08-8-01 29-07	S-B08-9-01- 30-07	S-B03-10-01-30-07	S-B06-11-01-30-07	S-B06-12-01-30-07	S-B12-13-01-29-07	S-B08-14-01 29-07
CONVENTIONALS																
BOD	EPA 405.1	1	mg/l	2.00	41.0	48.0	NA	NA	NA	NA	NA	NA	NA	24.0	28.0	44.0
COD	EPA 410.4	1	mg/l	0.100	119	116	NA	NA	NA	NA	NA	NA	NA	53.0	59.0	96.0
SC	EPA 120.1	1	µmhos/cm	0.100	120	144	NA	NA	NA	NA	NA	NA	NA	148	159	192
Oil & Grease	EPA 1664	1	mg/l	2.00	3.70	3.20	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.70	6.80	NA	NA	NA	NA	NA	NA	NA	7.00	6.70	6.80
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	24.0	29.0	NA	NA	NA	NA	NA	NA	NA	7.00	5.00	12.0
METALS (TOTAL)																
Aluminum	EPA 200.8	2	µg/L	50	150	180	NA	NA	NA	NA	NA	NA	NA	73	ND	ND
Copper	EPA 200.8	2	µg/L	2.0	51	32	9.9	810	59	1100	220	420	460	27	18	38
Iron	EPA 200.8	2	µg/L	50	0.12	0.15	NA	NA	NA	NA	NA	NA	NA	0.088	ND	ND
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	190	170	32	21000	240	5100	99	200	240	84	69	95
METALS (DISSOLVED)																
Copper	EPA 200.8	2	µg/L	2.0	43	28	5.8	800	54	1100	200	370	420	20	11	32
Zinc	EPA 200.8	2	µg/L	2.0	180	160	6.5	20000	230	5000	98	200	230	79	64	91
GLYCOLS																
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	NA	ND	16.4	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	NA	ND	58.0	11.6

Notes:

a: Sites S-B08-1, SB08-2, S-B09-3 and S-B11-4 were analyzed individually for Glycols. Results for all sites were "ND".

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1- / S-B08-2-02-20-07	S-B09-3-/S-B11-4-02-20-07	S-B05-5-02-20-07	S-B07-6-02-18-07	S-B12-07-02-18-07	S-B08-8-02-18-07	S-B08-9-02-20-07	S-B03-10-02-20-07	S-B06-11-02-20-07	S-B06-12-02-20-07	S-B12-13-02-19-07	S-B08-14-02-20-07
CONVENTIONALS																
BOD	EPA 405.1	1	mg/l	2.00	35.0	30.0	NA	NA	NA	NA	NA	NA	NA	27.0	18.0	58.0
COD	EPA 410.4	1	mg/l	0.100	82.0	75.0	NA	NA	NA	NA	NA	NA	NA	62.0	40.0	130
SC	EPA 120.1	1	µmhos/cm	0.100	95.0	159	NA	NA	NA	NA	NA	NA	NA	220	118	353
Oil & Grease	EPA 1664	1	mg/l	1.00	1.80	1.20	NA	NA	NA	NA	NA	NA	NA	ND	ND	1.40
pH	EPA 150.1	1	pH Units	0.100	6.70	6.60	NA	NA	NA	NA	NA	NA	NA	8.40	6.80	6.60
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	28.0	33.0	NA	NA	NA	NA	NA	NA	NA	6.00	16.0	4.00
METALS (TOTAL)																
Aluminum	EPA 200.8	2	µg/L	50	51	100	NA	NA	NA	NA	NA	NA	NA	260	ND	ND
Copper	EPA 200.8	2	µg/L	2.0	25	18	9.9	63	32	120	370	350	420	11	14	43
Iron	EPA 200.8	2	µg/L	50	ND	0.12	NA	NA	NA	NA	NA	NA	NA	0.32	0.055	0.29
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	130	84	42	2200	59	51	150	140	140	30	62	270
METALS (DISSOLVED)																
Copper	EPA 200.8	2	µg/L	2.0	18	17	5.6	58	26	96	340	310	390	6.1	11	28
Zinc	EPA 200.8	2	µg/L	2.0	130	76	5.0	2300	57	46	150	140	140	5.0	63	250
GLYCOLS																
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND[a]	ND[a]	NA	NA	NA	NA	NA	NA	NA	ND	10.3	32.4

Notes:
a: Sites S-B08-1, S-B08-2, S-B09-3 and S-B11-4 were analyzed individually for Glycols. Results for all sites were "ND".

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1- / S-B08-2-02-23-07	S-B09-3-/S-B11-4-02-23-07	S-B05-5-02-23-07	S-B12-07-02-22-07	S-B08-8-02-22-07
CONVENTIONALS									
BOD	EPA 405.1	1	mg/l	2.00	12.3	8.50	NA	NA	NA
COD	EPA 410.4	1	mg/l	0.100	21.0	14.0	NA	NA	NA
SC	EPA 120.1	1	µmhos/cm	0.100	73.4	71.4	NA	NA	NA
Oil & Grease	EPA 1664	1	mg/l	1.00	1.20	1.00	NA	NA	NA
pH	EPA 150.1	1	pH Units	0.100	6.80	6.90	NA	NA	NA
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	11.0	7.00	NA	NA	NA
METALS (TOTAL)									
Aluminum	EPA 200.8	2	µg/L	50	110	110	NA	NA	NA
Copper	EPA 200.8	2	µg/L	2.0	27	23	10	27	180
Iron	EPA 200.8	2	µg/L	50	0.066	0.071	NA	NA	NA
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	NA	NA	NA
Zinc	EPA 200.8	2	µg/L	2.0	98	74	43	31	47
METALS (DISSOLVED)									
Copper	EPA 200.8	2	µg/L	2.0	20	16	5.4	21	170
Zinc	EPA 200.8	2	µg/L	2.0	90	67	7.3	27	41
GLYCOLS									
Ethylene Glycol	EPA 8015B	2	mg/l	10	NDa	NDa	NA	NA	NA
Propylene Glycol	EPA 8015B	2	mg/l	10	NDa	NDa	NA	NA	NA

Notes:

a: Sites S-B08-1, SB08-2, S-B09-3 and S-B11-4 were analyzed individually for Glycols. Results for all sites were "ND".