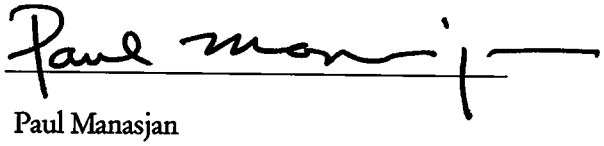
San Diego County Regional Airport Authority

Fiscal-Year 2007-2008 Municipal Stormwater Permit Annual Report

September 2008

Statement of Certification for the 2007-2008 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:	September 29, 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 2007-2008 Municipal Stormwater Permit Annual Report has been prepared by the Authority Environmental Affairs Department with the assistance of many other Authority departments. 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 talent and experience of several individuals. Special recognition and acknowledgement are given to the following individuals for their contribution to this document.

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APPENDICES

Executive Summary

The San Diego County Regional Airport Authority (Authority) submits the fiscal-year 2007-2008 (FY07-08) Annual Report in compliance with California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. R9-2007-0001, NPDES Permit #CAS0108758 (Municipal Permit). The FY07-08 Annual Report describes all the stormwater management activities conducted by the Authority between July 1, 2007 and June 30, 2008 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 Center (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 FY07-08, 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 addition of a quarterly two-day electronic and universal waste collection event to the Authority's pollution prevention efforts. The electronic and universal waste collection event was open to all airport tenants and Authority staff. The Authority has also maintained it's integrated pest management (IPM) program designed to minimize the amount of pesticides and herbicides used to maintain the buildings and grounds at SDIA.

Thirty two (32) airport tenants (including the Authority itself) conduct activities that are subject to the Industrial/Commercial Component of the Municipal Permit. These 32 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 and commercial activities at SDIA. These inspections resulted in 16 recorded enforcement actions. All issues of concern were resolved.

During this reporting period, the SDIA Master Plan was adopted. None of the development projects initiated at the airport during FY07-08 were subject to the Authority SUSMP process.

During the reporting period, there were 10 construction projects at SDIA and the Environmental Affairs Department conducted regular site inspections of each project. These inspections resulted in one recorded enforcement action and the issue was resolved.

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 167 IDDE incidents recorded, 15 of which involved sewage, and 1 of was identified as unauthorized discharge. All of the sewage incidents were cleaned up without impacting the MS4. The one incident that was classified as an unauthorized discharge event was addressed verbally by staff and resolved immediately. There were 6 reported petroleum spills on the landside, 3 of which resulted in written notices. These issues were resolved and cleaned up immediately. All petroleum related incidents were cleaned up without impact to the MS4.

The Annual Report presents the results of the Authority's dry weather monitoring program and wet weather monitoring program. The results of these monitoring programs are consistent with historical trends.

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 FY07-08 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.

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 FY07-08. 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. The newly revised SWMP was prepared in response to the re issued Municipal Permit (adopted on January 24, 2007) and was submitted to the RWQCB in March of 2008.

This report presents an accounting of the Authority's stormwater management program expenditures for FY07-08, and the budget for FY08-09. Costs are categorized by Personnel, Non-personnel, and the Capital Improvement Program.

The FY07-08 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 FY07-08 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, 2007 to June 30, 2008 - the fiscal year 2007-2008 (FY07-08). The Authority submits this FY07-08 Annual Report in compliance with California Regional Water Quality Control Board, San Diego Region (RWQCB), Order No. R9-2007-0001, 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, the San Diego Unified Port District, and the San Diego County Regional Airport Authority (the Municipal Permit).

This report has been prepared by the Authority Environmental Affairs Department with the assistance of the Facilities Management 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 FY07-08 Annual Report presents a compilation of the Authority's stormwater management efforts in the following order:

Executive Summary

1. Introduction
2. Development Planning Component
3. Construction Component
4. Municipal Component
5. Industrial and Commercial Component
6. Residential Component
7. Illicit Discharge Detection and Elimination Component
8. Education Component
9. Public Participation Component
10. Fiscal Analysis Component
11. Effectiveness Assessment Component
12. Special Investigations
13. Non-Emergency Fire Fighting
14. JURMP Revisions
15. Conclusions and Recommendations

1.1 BACKGROUND

The Authority became the owner and operator of SDIA on January 1, 2003. With approximately 325 employees, the Authority expends an annual budget of approximately $100 million to manage SDIA - a regional asset responsible for contributing some $9.9 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 three 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.

1.2 PURPOSE AND OBJECTIVES

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

Since 1992, the operations of the airport have been subject to 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 SWMP fulfills the General Industrial Storm Water Permit requirement to prepare a SWPPP.

In 2003, the California Regional Water Quality Control Board, San Diego Region (RWQCB), amended Order No. 2007-01 to name the Authority as subject to 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 2001 Municipal Permit). The 2001 Municipal Permit was re-issued in January of 2007 as RWQCB Order No. R9-2007-0001, and now specifically names the Authority in the title.

The Municipal Permit specifies the waste discharge requirements for discharges of urban runoff from the MS4s of the jurisdictions named. 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 SWMP fulfills the Municipal Permit requirement to prepare a JURMP Document.

1.3 ANNUAL REPORT HIGHLIGHTS

Several chapters of the FY07-08 Annual Reports contain items of note. Chapter 2 highlights the May 1, 2008 adoption of the Airport Master Plan. As highlighted in Chapter 4, the quarterly Electronic and Universal Waste Collection Events, open to all airport tenants and Authority staff, were added to the Authority's pollution prevention efforts in FY07-08. Chapter 4 also discusses the routine cleaning of the slit trenches at the terminal gates and the scheduled cleaning of the MS4 at the terminal transportation islands.

The discussion of the Illicit Discharge Detection and Elimination Component in Chapter 7 presents information that shows that the number of IDDE incidents reported at the Airport was less in FY07-08 than in previous years. The Dry weather monitoring program is discussed in this chapter and, in contrast to previous years, the Annual Report presents all of the dry weather monitoring events that occurred in FY07-08 combined with all the monitoring events the fell within the 2008 dry weather season. Also in contrast to previous Annual Reports, the discussion of the Airports wet weather monitoring program has been moved to Chapter 7.

The Authority's public participation component is discussed in Chapter 9. Notable events from FY07-08 include the Imperial Beach Earth Day event, an environmentally themed artist's reception held at the Airport for an artist from the National Oceanic and Atmospheric Administration, the San Diego County Fair regional outreach event, and the Authority's participation in the San Diego Regional Sustainability Partnership.

The discussion of the Effectiveness Assessment Component in Chapter 11 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. The Authority also continues to evaluate ways to incorporate community based social marketing into the storm water management program.

This is the first Annual Report by the Authority to include a chapter on our non-emergency fire fighting activities, see Chapter 13. Finally, Chapter 14 reviews the status of the SWMP as submitted to the RWQCB in March of 2008 and outlines any changes that need to be made in the document.

2 DEVELOPMENT PLANNING COMPONENT

2.1 INTRODUCTION

The Municipal Permit requires the Authority to implement policies, principles, programs, and practices that ensure land-use development, planning, environmental review, and project approval decisions consistently apply effective water quality and watershed protection measures to avoid, minimize, and mitigate the short- and long-term impacts of land development activities on runoff and 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. The Municipal Permit required the Authority to update the Standard Urban Runoff Mitigation Plan (SUSMP) processes for priority development projects and to update the Authority review and approval processes to ensure incorporation of source control and low impact development (LID) BMPs into the design of new development and redevelopment projects. Section 4.0 of the SWMP outlines the elements that satisfy these requirements. This chapter of the Annual Report discusses compliance activities relative to land use planning and development/redevelopment activities at the SDIA during FY07-08.

2.2 LAND USE PLANNING

2.2.1 BACKGROUND

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). Each of the previous Annual Reports noted that the Airport Master Plan had not yet been adopted by the Airport Authority Board. This fiscal year (FY07-08) the Authority Board adopted the Airport Master Plan, on May 1, 2008. Adoption of the Airport Master Plan ensures that a responsible program for development and redevelopment will be implemented at SDIA. The Airport Master Plan identifies specific physical improvements for SDIA that will allow the airport to effectively continue its mission of serving San Diego's commercial air transportation needs. The plan includes consideration of a broad range of development possibilities, cumulative impacts, and mitigation opportunities related to water quality and stormwater runoff pollution prevention.

2.2.2 SOURCE CHARACTERIZATION

Every land use at SDIA has the potential to generate stormwater pollutants. In addition to the information presented in Section 4.0 of the SWMP, descriptions of the pollutant sources to be addressed through land use planning are further described in Section 3.0 (Non-Storm Water Discharges), Section 5.0 (Construction Component), Section 6.0 (Municipal Component), Section 7.0 (Industrial and Commercial Component), and Section 9.0 (Illicit Discharge Detection and Elimination Component) of the SWMP.

2.2.3 BEST MANAGEMENT PRACTICE REQUIREMENTS

In making land use decisions, the Authority evaluates the effect of proposed uses on receiving water quality and requires the application of effective water quality and watershed protection measures to avoid, minimize, and mitigate detrimental impacts. Land uses are evaluated to ensure that: source control BMPs can be implemented to reduce stormwater pollutants of concern in urban runoff; LID BMPs can be incorporated, where feasible; buffer zones

can be established, where feasible, between development and natural water bodies; and that SUSMP requirements are properly established.

2.2.4 PROGRAM IMPLEMENTATION

Again, the Authority Board adopted the Airport Master Plan, on May 1, 2008. The Airport Master Plan envisions near-term (Phase I) and long-term (Phase II) improvements. The Authority prepared Phase I of the Airport Master Plan to guide the development of SDIA to the year 2030. The proposed improvements in Phase I are: the addition of 10 gates will accommodate the expected increase in travelers; additional airport ramp (tarmac) parking area for remaining-over-night (RON) aircraft; improvements to the aircraft taxiway system to improve aircraft movement; a second-level roadway system to provide separate departure and arrival areas at Terminal 2; and a potential new structure to provide accommodate the expected increase demand for parking at the airport. While the Airport Master Plan has been adopted, the Authority Board has not yet approved the development of any of these Phase I improvements.

The Authority has implemented education programs to educate the Authority staff and airport tenants of water quality issues associated with land use planning. The Education Component of the SWMP is described in Section 10.0 of that document. The education and outreach efforts of the Authority during FY07-08 are described in Chapter 8 of this Annual Report.

2.3 ENVIRONMENTAL REVIEW PROCESS

The Authority's environmental review processes for both land use development and specific improvements in described in Section 4.3 of the SWMP and these processes have not changed in the time since the SWMP was last drafted in March of 2008. Authority planning and development review staff, in the Airport Planning Department, use the CEQA (and NEPA, where necessary and feasible) to review proposed land use and development projects. Authority staff use a combination of questions pertaining to hydrology and water quality from the "CEQA Environmental Checklist Form" and from RWQCB Order R9-2001-01 (the 2001 Municipal Permit)

to evaluate the potential stormwater impacts of any particular proposed land use or development project.

2.4 DEVELOPMENT PROJECT APPROVAL AND VERIFICATION PROCESS

2.4.1 BACKGROUND

During the planning and review process and prior to project approval and/or permit issuance for all proposed Development Projects, the Authority prescribes the requirements necessary to ensure that discharges of pollutants from the project and to the storm drain system are prevented, reduced, or eliminated. The Authority's development review process incorporates appropriate stormwater management controls into standard conditions of approval, use permits, lease agreements, and/or other suitable project approval mechanisms.

2.4.2 SOURCE CHARACTERIZATION

Development projects may generate any number of pollutants, including sediment, nutrients, oxygen-demanding substances, bacteria, heavy metals, synthetic organics, pesticides, and other toxic substances. In addition to the information presented in Section 4.0 of the SWMP, descriptions of the pollutant sources to be addressed through the development project review and approval process are further described in Section 3.0 (Non-Storm Water Discharges), Section 5.0 (Construction Component), Section 6.0 (Municipal Component), Section 7.0 (Industrial and Commercial Component), and Section 9.0 (Illicit Discharge Detection and Elimination Component) of the SWMP.

In accordance with the Municipal Permit, the Authority developed a SUSMP based on the Model SUSMP developed by the Copermittees for projects that are determined to be Priority Development Projects. The Authority's SUSMP is included in Appendix C of the SWMP. The SUSMP describes procedures to identify pollutants and conditions of concern for proposed Priority Development Projects. Table 1 of the SUSMP document (see Appendix C of the SWMP) provides a guide to identifying anticipated and potential pollutants generated by land use types and proposed improvements.

2.4.3 BEST MANAGEMENT PRACTICE REQUIREMENTS

The Authority's development project review and approval processes are designed to ensure that applicable LID BMPs are evaluated and incorporated, where feasible, so that the potential for infiltration and/or retention is maximized, runoff rates are slowed as much as possible, the impervious footprint of the project is minimized, runoff from impervious areas is directed into landscaping, and impervious surfaces are constructed to minimum widths necessary. In addition, the Authority's SUSMP process requires the use of site design, source control, and treatment control BMPs. The SUSMP describes the selection and design criteria for the source control, LID, and treatment control BMPs to be implemented at Priority Development Projects.

The Authority's development project review and approval process verifies that any project subject to General Construction Permit does indeed obtained coverage under that permit. The process also requires that designated construction BMPs are implemented at time of construction.

2.4.4 PROGRAM IMPLEMENTATION

During FY07-08, there were 8 projects that completed the development review process and began construction. Two (2) of these projects were tenant improvement projects, and 6 of them were Authority improvement projects. These 8 projects are identified and discussed in Chapter 3 of this Annual Report. None of these 8 projects were subject to the Authority's SUSMP requirements.

The Authority has implemented education programs to educate the Authority staff and airport tenants of water quality issues associated with new development and redevelopment. The Education Component of the SWMP is described in Section 10.0 of that document. The education and outreach efforts of the Authority during FY07-08 are described in Chapter 8 of this Annual Report.

The Authority's watershed-based inventory of approved SUSMP treatment control BMPs includes only 2 sites: 1) the NTC Parking Lot Project, as previously noted in the FY03-04 Annual Report; and 2) the EMAS Project, as previously noted in the FY05-06 and FY06-07 Annual Reports. Both these

projects (and the entire jurisdictional boundary of the Authority) lie in the Pueblo San Diego hydrologic unit, San Diego Mesa hydrologic area, Lindbergh hydrologic sub-area (908.21).

Since both the NTC Parking Lot Project and the EMAS Project were Authority Projects, the inspection and maintenance of the SUSMP treatment control BMPs associated with each are the responsibility of the Authority. The treatment controls associated with these projects are inspected as part of the Authority's routine, annual inspection of the MS4 (as discussed in Chapter 4 of this Annual Report).

The development project approval and verification process activities conducted by the Authority during FY07-08 did not identify any violations, and therefore, no enforcement actions were initiated during the reporting period.

2.5 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Development Planning Component of the SWMP since that time.

3 CONSTRUCTION COMPONENT

3.1 INTRODUCTION

The Municipal Permit requires the Authority to: a) review and update its grading ordinances and other ordinances, as necessary, to ensure compliance with the Municipal Permit; b) maintain and update, on a monthly basis, a watershed-based inventory of all construction sites; c) designate BMPs and other pollution prevention measures required for implementation at all construction sites year-round; d) develop limitations of grading to a maximum disturbed area before either temporary or permanent erosion controls are implemented to prevent stormwater pollution; e) require implementation of advanced treatment for sediment at construction sites that are determined by the Authority to be an exceptional threat to water quality; f) require implementation of additional controls for construction sites tributary to CWA section 303(d) water body segments impaired for sediment and additional controls for construction sites within or adjacent to or discharging directly to coastal lagoons or other receiving waters within environmentally sensitive areas; g) conduct construction site inspections for compliance with its local ordinances (grading, stormwater, etc.), permits (construction, grading, etc.), and the Municipal Permit; h) develop and implement an escalating enforcement process that achieves prompt corrective actions at construction sites for violations of the Authority's water quality protection permit requirements and ordinances; and i) notify the RWQCB when the Authority issues a stop work order or other high level enforcement

to a construction site as a result of stormwater violations. Section 5.0 of the SWMP addresses these Municipal Permit requirements.

This chapter of the Annual Report discusses compliance activities relative to construction activities at SDIA during FY07-08.

3.2 SOURCE CHARACTERIZATION

Chapter 5 of the SWMP notes that construction activities (namely, demolition, grading, excavation, clearing, and structure and road construction) can result in the disturbance of soil and/or the generation of stormwater pollutants such as sediment, trash, debris, chemicals associated with the work, and contaminants associated with the historic uses of the construction site. Based on the criteria described in Section 5.0 of the SWMP, the Authority categorized all construction sites as posing a high, or medium, or low threat to water quality.

The Authority maintains a monthly watershed-based inventory of active construction projects at SDIA. The inventory is updated during the first week of each month. Up-to-date information is obtained from the Authority Facilities Development Department. All construction projects at SDIA lie in the same watershed, specifically, the Pueblo San Diego hydrologic unit, San Diego Mesa hydrologic area, Lindbergh hydrologic sub-area (908.21).

There were 10 construction projects underway at SDIA during the FY07-08 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. Nine (8) of these projects were initiated by the Authority and 2 were initiated by airport tenants. The Authority determined that 1 of these project is a high priority site, and that the remaining 9 projects were medium priority threats to water quality in accordance with the Municipal Permit. The 10 projects subject to the Construction Component requirements of the Authority SWMP during FY07-08 are listed in Table 3-1 below.. Table 3-1 presents the project name, the project sponsor (or proponent), a description of the project, the project priority, and the months during which the project was active (which is comparable to a monthly inventory).

TABLE 3-1 SDIA CONSTRUCTION PROJECTS – FY07-08

#	Project Name	Sponsor	Project Description	Priority	Status during FY07-08
1	CIP #3078 Paint Terminal 1 & Terminal 2 Pedestrian Bridges	Authority	Resurface and repaint pedestrian bridges and pavilions.	Medium	Continued from June 2007 and completed in July 2008
2	CIP #4027/4032 Install Elevator / Reconfigure Checkpoint 3	Authority	Install elevator at Terminal 1 East and reconfigure Checkpoint 3 at Terminal 1 West.	Medium	Continued from June 2007 and completed in September 2008
3	CIP #3058 Replace Perimeter Fencing & Gates	Authority	Replace portions of the fence surrounding the airfield perimeter.	Medium	Started August 2007 and completed in June 2008
4	CIP #4006 Upgrade and Expand Restrooms in T1E	Authority	Interior remodeling to expand and upgrade the restrooms in the Terminal 1 East rotunda.	Medium	Started October 2007 and completed in June 2008
5	CIP #4051 Misc. Interior Improvements	Authority	Interior remodeling at various locations throughout the Terminals.	Medium	Started October 2007 and continued through June 2008
6	CIP #4050 SkyChefs Building Conversion	Authority	Interior remodeling of the former SkyChefs Building.	Medium	Started January 2008 and completed in March 2008
7	CIP #3044/3066 NTC Landfill Utilities Relocation	Authority	Clear utility corridor and install utility duct bank at NTC Landfill.	High	Started February 2008 and completed in June 2008
8	HMS Host - Interior Improvements	Tenant	Add Chili's 2 Restaurant to T1 Food Court.	Medium	Started February 2008 and continued through June 2008
9	CIP #4005 Rehabilitate Employee Parking Lot #8	Authority	Resurface parking lot.	Medium	Started March 2008 and completed in April 2008
10	Improve Runway 09 Localizer	Tenant	FAA project to improve localizer antenna	Medium	Started May 2008 and continued through June 2008

3.3 UPDATES TO ORDINANCES AND APPROVAL PROCESS

The Authority's construction project approval process is discussed in Section 5.3 of the SWMP. During FY07-08, there were no updates made to any Authority ordinances related to the construction or grading activities and there were no updates made to the construction project approval process.

3.4 BEST MANAGEMENT PRACTICE REQUIREMENTS

Section 5.4 of the SWMP lists the minimum and activity-specific BMPs required to control construction activities at SDIA. The minimum BMP requirements are applicable year-round and are the same for each construction project regardless of the project's threat to water quality. Depending on the specific activities being conducted at a construction site, the Authority requires the use of BMPs designed to control those particular activities. The Authority may require the implementation of multiple BMPs to provide "multiple lines of defense" for high priority construction sites. In addition, the Authority requires implementation of advanced treatment for sediment at construction sites that are determined by the Authority to be an exceptional threat to water quality, in accordance with Municipal Permit Section D.2.c.(2).

These BMPs must be employed to the industry standards as listed in the California BMP Handbook for Construction Activity (CASQA 2003) or in the Caltrans Construction Site BMP Manual.

3.5 PROGRAM IMPLEMENTATION

The 3 major steps of program implementation for the Construction Component of the SWMP are education, inspection, and enforcement. The activities conducted by the Authority relative to each of these steps is described below.

3.5.1 EDUCATION

The Authority's stormwater construction education efforts are directed at construction project proponents/sponsor/managers, construction site personnel, and inspection staff. The education program focuses on awareness of 1) pollution causing activities related to construction, and 2) the methods used to minimize these pollutants. The topics addressed by the construction education program are presented in Section 5 (Construction Component) and 10 (Education Component) of the SWMP.

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. One of the earliest opportunities for education with those involved in any particular construction projects occurs at the pre-construction meeting. Staff from the Authority Environmental Affairs Department participated in the pre-construction meetings for each of the 6 projects initiated by the Authority in FY07-08. Staff from the Environmental Affairs Department also attended the regularly-scheduled (typically weekly) construction progress meetings for each project. Construction BMP requirements and pollution prevention measures were also discussed, as necessary, with Authority staff and the construction contractors performing the work during inspections. Staff from the Environmental Affairs Department use inspections and meetings to reinforce stormwater pollution prevention principles and to discuss BMPs specific to the project. The Environmental Affairs Department participated in a total of 67 construction project-related meetings during FY07-08.

Chapter 8 of this Annual Report also presents information relative to the construction education activities conducted by the Authority in FY07-08.

3.5.2 INSPECTIONS

The Environmental Affairs Department inspects all construction sites to monitor compliance with the Authority's ordinances, permits, approvals, the Municipal Permit, and the General Construction Permit (if applicable). During the FY07-08 reporting period, the Environmental Affairs Department conducted regular inspections of the 10 construction projects listed in Table 3-1 above. The dates of inspection are shown in Table 3-2

below. The Authority intended to inspect each of these projects on a weekly basis during both the wet and dry seasons, however., staffing issues in the Environmental Affairs Department prevented the Authority from reaching this goal in FY07-08. A total of 135 inspections were conducted during FY07-08.

TABLE 3-2 CONSTRUCTION ACTIVITY INSPECTIONS AT SDIA DURING FY07-08

#	Project Name	Inspection Dates		
1	CIP #3078 Paint Terminal 1 & Terminal 2 Pedestrian Bridges	July 3, 2007		
2	CIP #4027/4032 Install Elevator / Reconfigure Checkpoint 3	July 9, 2007 July 12, 2007	August 8, 2007 August 29, 2007	
3	CIP #3058 Replace Perimeter Fencing and Gates	August 22, 2007 August 29, 2007 September 19, 2007 October 17, 2007 November 21, 2007 November 28, 2007 December 5, 2007 December 19, 2007 January 2, 2008 January 9, 2008 January 16, 2008	January 23, 2008 January 30, 2008 February 6, 2008 February 13, 2008 February 20, 2008 February 27, 2008 March 18, 2008 March 26, 2008 April 2, 2008 April 9, 2008 April 16, 2008	April 23, 2008 May 1, 2008 May 7, 2008 May 14, 2008 May 21, 2008 May 28, 2008 June 4, 2008 June 11, 2008 June 18, 2008
4	CIP #4006 Upgrade and Expand Restrooms in Terminal 1 East	January 30, 2008 February 6, 2008 February 13, 2008 February 20, 2008 February 27, 2008 March 4, 2008 March 13, 2008 March 18, 2008	March 26, 2008 April 2, 2008 April 9, 2008 April 16, 2008 April 23, 2008 May 1, 2008 May 7, 2008 May 14, 2008	May 21, 2008 May 28, 2008 June 4, 2008 June 11, 2008 June 18, 2008 June 25, 2008
5	CIP #4051 Misc. Interior Improvements	January 30, 2008 February 6, 2008 February 13, 2008 February 20, 2008 February 27, 2008 March 4, 2008 March 13, 2008 March 18, 2008	March 26, 2008 April 2, 2008 April 9, 2008 April 16, 2008 April 23, 2008 May 1, 2008 May 7, 2008 May 14, 2008	May 21, 2008 May 28, 2008 June 4, 2008 June 11, 2008 June 18, 2008 June 25, 2008

#	Project Name	Inspection Dates		
6	CIP #4050 SkyChefs Building Conversion	January 23, 2008	February 6, 2008	March 4, 2008
7	CIP #3044/3066 NTC Utilities Relocation	February 7, 2008 February 14, 2008 February 21, 2008 February 28, 2008 March 6, 2008 March 13, 2008 March 20, 2008	March 27, 2008 April 3, 2008 April 10, 2008 April 17, 2008 April 24, 2008 May 1, 2008 May 8, 2008	May 15, 2008 May 22, 2008 May 29, 2008 June 4, 2008 June 11, 2008 June 18, 2008
8	HMS Host - Interior Improvements	February 13, 2008 February 20, 2008 February 27, 2008 March 13, 2008 March 18, 2008 March 26, 2008 April 2, 2008	April 9, 2008 April 16, 2008 April 23, 2008 May 1, 2008 May 7, 2008 May 14, 2008 May 21, 2008	May 28, 2008 June 4, 2008 June 11, 2008 June 18, 2008 June 25, 2008
9	CIP #4005 Rehabilitate Employee Parking Lot #8	March 26, 2008 April 2, 2008	April 9, 2008 April 16, 2008	April 23, 2008
10	Improve Runway 09 Localizer	May 7, 2008 May 14, 2008 May 21, 2008	May 28, 2008 June 4, 2008 June 11, 2008	June 18, 2008 June 25, 2008

Table 3-3 identifies the construction activities for which BMPs were not properly implemented at the time of inspection. Poor materials management and poor waste management were the two issues of concern most frequently identified. These same two concerns were also previously identified in the FY04-05, FY05-06, and FY06-07 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 protection also require the constant attention of construction site supervisors and inspectors.

TABLE 3-3 TYPES OF CONSTRUCTION ACTIVITY FOR WHICH BMPS WERE MOST FREQUENTLY NOT PROPERLY IMPLEMENTED AS DETERMINED DURING SITE INSPECTIONS – FY07-08

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

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

3.5.3 FOLLOW-UP AND ENFORCEMENT

Staff from the Environmental Affairs Department discussed the results of each inspections 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.

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, during every day of construction activity. The FDD construction inspectors are familiar with proper stormwater 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.

The construction oversight conducted by the Environmental Affairs Department generally found these 10 projects to be in substantial compliance with the requirements of the 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 FY07-08.

The issues of concern identified during site inspections, and noted in Table 3-3 above, were generally resolved through verbal communication with the construction contract site supervisor in the field and at weekly progress

meetings. However, the Environmental Affairs Department did issue 1 written notice for a stormwater violation at 1 construction site during FY07-08. The particular issue of concern involved improper concrete waste management by the contractor constructing the "Installation of Elevator T1E and Reconfiguration of Security Checkpoint 3 Project." The incident occurred on July 9, 2007. The written notice directed the contractor to clean up the concrete waste and return the job site to the pre-existing condition. The notice further directed the contractor to submit a written report detailing: 1) the events related to the improper management of concrete waste, including the cause, type of material, and source of the material; 2) the actions taken to cleanup to the extent possible and properly dispose of the discharged waste/material; 3) the techniques and BMPs that would be implemented to prevent the reoccurrence of such an incident; and 4) the methods and proposed schedule for ensuring that all contractor personnel and sub-contractors would be properly informed of the Authority Storm Water Code and the BMPs required for use in conducting their daily activities. The contractor complied with the notice and no additional enforcement actions were necessary.

3.6 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWCQCB on March 24, 2008. Since that time, the only revisions to the Construction Component of the SWMP has been an update of the inventory of construction projects. The Authority keeps a monthly inventory of active construction projects, and this Annual Report includes an updated inventory as of June 30, 2008 (the end of the reporting period). Any and all revisions to the SWMP are discussed and summarized in Chapter 14 of this Annual Report.

4 MUNICIPAL COMPONENT

4.1 INTRODUCTION

Municipal Permit requires the Authority to: a) prepare and annually update a watershed based inventory of municipal areas and activities that could generate pollutants and the significant materials in or generated by those areas; designate, describe and implement pollution prevention methods and BMPs for all municipal areas and activities; b) properly operate, inspect and maintain its MS4s and structural controls; c) implement BMPs to reduce the contribution of pollutants associated with the application, storage, and disposal of pesticides, herbicides, and fertilizers from municipal areas and activities to MS4s; d) implement sweeping programs for roads and parking facilities designed to reduce pollutant discharges to its MS4s to the MEP; e) implement controls and measures to prevent and eliminate infiltration of seepage from municipal sanitary sewers to MS4s through thorough, routine preventative maintenance of the MS4 that will include overall sanitary sewer and MS4 surveys and thorough, routine preventative maintenance of both; f) inspect high priority municipal areas and activities annually, with other municipal areas and activities inspected as needed, and implement all follow-up actions necessary to comply with the Municipal Permit; g) enforce its stormwater ordinance for all municipal areas and activities as necessary to comply with the Municipal Permit; h) describe the steps that will be taken to require and verify the implementation of designated BMPs at municipal

facilities and activities. Section 6 (Municipal Component) of the SWMP has been prepared to satisfy these requirements.

Since the operation of the airport is also subject to the General Industrial Permit, many of the activities classified as municipal activities by the Municipal Permit are also considered to be industrial activities by the General Industrial Permit. As such, many of the municipal activities listed above are also detailed in Section 7 (Industrial and Commercial Component) of the SWMP. For instance, inspection and maintenance of the storm drain system is discussed in both sections, as well as pesticide, herbicide, and fertilizer management and the sweeping of municipal areas.

Section 6 of the SWMP presents information regarding the municipal source areas and activities, and associated significant materials, at SDIA that could generate stormwater pollutants. The SWMP describes the following specific municipal activities, namely: 1) the storm drain system and associated structural controls; 2) the management of pesticides, herbicides, and fertilizers; 3) the sweeping of impervious municipal areas; 4) the infiltration from the sanitary sewer system into the storm drain system and preventive maintenance for both systems; 5) activities deemed high priority by the Municipal Permit or determined to be high priority by the Authority. The high priority municipal areas/activities discussed in Section 6 of the SWMP are the closed municipal landfill (the NTC landfill) and special event venues. Again, given the overlap between the Municipal Permit and the General Industrial Permit, Section 7 of the SWMP more fully discusses the high priority municipal areas/activities more discussion of the Authority's corporate yards and power washing.

Table 6-1 of the SWMP presents the inventory of municipal areas and activities/operations at SDIA. There have been no changes in the inventory since the SWMP was prepared in March of 2008.

This chapter of the Annual Report discusses compliance activities relative to municipal activities at SDIA during FY07-08. Since many aspects of the Authority's Municipal Component are similar for the each of the various municipal activities discussed below, the content of this chapter has been drafted to remove redundancies and facilitate reporting. As such, the outline of this chapter varies slightly from the Standardized Format for Jurisdictional Urban Runoff Management Plan Annual Reports, adopted by the Copermittees, although the format notes that individual Copermittees may

exercise such discretion. Presented below as combined topics for the whole of the Authority's municipal activities are: a brief background; a characterization of municipal sources; and BMP requirements applicable to municipal areas, activities, or operations. Inspection, maintenance, and enforcement actions relative to the various municipal activities are presented under the heading of "Program Implementation."

4.2 BACKGROUND

The Authority's MS4 consists of roads with drainage systems, curbs, catch basins, gutters, 210 inlets, culverts, trench drains, and 86,000 feet of stormwater conveyance pipe of varying materials and widths. The structural treatment controls incorporated into the MS4 include 6 oil water separators, 1 Vortech hydrodynamic separator unit in the NTC Taxi Hold Lot, and numerous drain inlet inserts.

Important municipal areas and activities associated with the application, storage, and disposal of pesticides, herbicides, and fertilizers at SDIA include municipal facility structures/building and landscaped areas. The Authority Facilities Management Department maintains the 12.5 acres of landscaping at the airport. The Facilities Management Department implements an integrated pest management (IPM) program that encourages the use of native plant species in the landscaped areas to help minimize the need for excessive irrigation and exorbitant application of fertilizers and/or herbicides. The IPM also encourages the use of natural pest control mechanisms, limits the need for and inventory of man-made biocides, and ensures the proper use of any biocides.

Section 6.4 of the SWMP discusses the Authority's sweeping programs for roads and parking facilities. The Authority's program for airfield ramp sweeping is described in Section 7.2.3 of the SWMP. The entities responsible for implementing BMPs for roads and parking facilities are the Authority and the parking lot management service provider. The parking lot management service provider manages the public short-term and some of the long-term parking facilities at SDIA, and sweeps Authority employee parking lots.

As noted in Section 6.5 of the SWMP, the Authority does not own or manage a municipal sanitary sewer system. The City of San Diego Metropolitan Wastewater Department (MWWD) provides municipal sanitary sewer service

to the airport. However, the Authority is responsible for those portions of the on-site sanitary sewer system that connect to the MWWD system. As such, the Authority has implemented controls and measures to prevent and eliminate infiltration of seepage from airport sanitary sewers to the storm drain systems through thorough routine inspection and preventative maintenance of the sanitary sewer system and inspection of the stormwater conveyance system.

Section 6.6 of the SWMP identifies the closed NTC landfill area as a high priority municipal area. The Authority has sole responsibility for stormwater management at the closed NTC landfill.

The size of the several parking lots at the airport, along with the general public's familiarity with the location, makes the airport a potential venue for large special events. Although rare, some large events (such as the Rock-n-Roll Marathon) have made use of the Authority's parking areas. Section 6.7 of the SWMP discusses the potential pollutant sources and BMPs implemented to mitigate pollutants to the storm drain system from special event venues.

4.3 SOURCE CHARACTERIZATION

As a consequence of its function, the stormwater conveyance system collects and transports stormwater runoff at SDIA that may contain certain pollutants if adequate BMPs are not being implemented or adequate inspections and maintenance of the storm drain system are not being performed. At SDIA, these potential pollutants include: sediment, trash and debris, oil and grease, hydrocarbons/fuels, hydraulic fluids, solvents, soap/cleaning fluids, lavatory chemicals and waste, paints, pet wastes, used batteries and battery acid, anti-freeze, hazardous wastes (mostly oils), metals, deicing chemicals, herbicides and pesticides, adhesives, rust preventers, aircraft fire fighting foam, and sealants. Structural treatment controls that are not properly maintained can also be sources of sediment, oil and grease, trash and debris, and other associated pollutants such as metals.

The Authority generally uses pesticides and/or herbicides to control pest and weeds. The limited use of these chemicals at SDIA, suggest that this activity presents a low potential for impacting stormwater discharge.

Littering by the general public can create trash and debris pollutants on roadways and in public parking facilities at SDIA. Fluid leaks from vehicles on roads or in parking facilities are a potential source of pollutants such as oils, fuel, antifreeze. Atmospheric deposition, vehicle use and emissions, asphalt and concrete surface deterioration, peeling or crumbling roadway and parking lot painted surfaces, and eroding landscaped surfaces can generate particulate pollutants.

Infiltration from sanitary sewers to the storm drain system may potentially introduce the following pollutants: sediments, nutrients, bacteria, organics, and oxygen demanding substances.

Temporary uses of the closed NTC landfill during FY07-08 involved the staging of materials and bulky recyclable parts (mostly metals and plastic). Materials were generally covered and/or on wooden pallets and/or placed in dumpsters, as necessary. Potential pollutants of concern in the closed NTC landfill area include trash, debris, metals, and sediment.

Potential pollutants of concern generated by large special events are trash, litter, and debris.

4.4 BEST MANAGEMENT PRACTICE REQUIREMENTS

Descriptions of the BMPs required by the Authority to address maintenance and operation of the MS4 and structural controls can be found in Appendix B of the SWMP. The applicable BMPs include SC17 "Storm Drain Maintenance" and TC01 "Treatment Controls." These BMPs are aimed at mitigating pollutant sources from the operation and maintenance of the storm drain system and from structural treatment controls.

BMPs applicable to the management of pesticides, herbicides, and fertilizers by the Authority are summarized in Appendix B of the SWMP and include BMP categories SC06 "Outdoor Loading/Unloading of Materials," SC09 "Building and Grounds Maintenance," SC10 "Employee Training," SC18 "Housekeeping," SC19 "Safer/Alternative Products," and SR01 "Spill Prevention, Control, and Clean-up."

The Authority requires the use of BMP SC16 "Parking Lots" aimed at mitigating pollutant sources in parking areas, and category SC12 "Outdoor

Wash down/Sweeping (Apron Washing, Ramp Scrubbing)" covers BMPs aimed at mitigating pollutant sources in not only the airfield ramp areas, but also from roads. Descriptions of these BMPs can be found in Appendix B of the SWMP. The Authority's Storm Water Code (see Appendix F of the SWMP) requires parking lot operators to clean the areas frequently. Additional controls have been added to parking lot facilities include a series of drain inlet inserts in the car rental lot, cell-phone parking area, cargo area, the California least tern nesting area, and between the triturator and the blast fence.

The Authority requires the use of BMPs SC01 "Non-Storm Water Management," SC11 "Lavatory Service Operation", SC17 "Storm Drain Maintenance" and SR01 "Spill Prevention, Control and Cleanup" to mitigate pollutant sources from sewage spills or seepage. Descriptions of these BMP can be found in Appendix B of the SWMP.

BMPs applicable to and required to control the outdoor materials and waste storage uses at the closed NTC landfill, include BMP SC07 "Outdoor Material Storage" and SC08 "Waste Handling and Disposal," as listed in Appendix B of the SWMP.

Special events sponsored/coordinated by Authority staff and/or airport tenants are required to implement the following BMPs (summarized in Appendix B of the SWMP): BMP SC06 "Outdoor Loading/Unloading of Materials," SC08 "Waste Handling and Disposal," SC09 "Building and Grounds Maintenance," SC10 "Employee Training," SC12 "Outdoor Washdown/Sweeping (Apron Washing, Ramp Scrubbing)," SC16 "Parking Lots," SC18 "Housekeeping," and SR01 "Spill Prevention, Control, and Clean-up." If the special event sponsors/coordinators are not Authority staff or airport tenants, they must generally obtain Authority approval in the form of a "use permit." The conditions of the "use permit" typically include the following additional controls: fencing and barricades as necessary to delineate event area; appropriate signage regarding recycling, trash disposal, and stormwater pollution prevention; adequate number of recycling containers and trash cans; portable restrooms, as necessary; adequate number of on-site event management staff to monitor and control trash and litter; adequate number of on-site event staff to promptly cleanup after event; street sweepers, as necessary.

4.5 PROGRAM IMPLEMENTATION

4.5.1 EDUCATION AND STAFF TRAINING

All Authority staff attend an annual mandatory SWMP training session to cover topics such as pollution prevention, prohibited discharges, inspections, spill response, good housekeeping, implementation of BMPs, and record-keeping. In addition, the Facilities Management Department staff attend an annual mandatory training session on proper pesticide and herbicide storage, application, and disposal. Details on the staff training are presented in Section 10.0 (Education Component) of the SWMP and Chapter 8 of this Annual Report.

4.5.2 POLLUTION PREVENTION

As in prior years, the Authority continued its pollution prevention efforts during FY07-08. These efforts include a waste reduction and recycling program. The Authority's recycling campaign is designed to educate staff about the single-stream recycling program used at the airport. During FY07-08, the Authority began working to update the bilingual (English-Spanish) Recycling Guide used to describe and promote the program. Approximately 5.9% of the waste generated at SDIA was recycled during the reporting period (325 tons recycled out of 5,500 tons of waste generated).

The Authority also continued to provide education about Universal Waste to staff and tenants. Since 2006 the Authority has maintained a universal waste collection program for Authority staff. Containers are provided in designated areas where Authority employees may dispose of alkali or rechargeable batteries, cell phone batteries, and electronic devices. The universal waste is collected and properly disposed/recycled. During FY05-06 and FY06-07, the Authority hosted One-day Electronic and Universal Waste Collection Events, which were open to all staff and tenants. Due to the success of these two events the Authority began hosting quarterly two-day events during FY07-08. These events have allowed staff and tenants to relinquish electronic and universal waste (such as batteries, fluorescent light bulbs, television, and computers) for proper recycling or disposal. During this reporting period collection events were held September 17-21, 2007, January 17-18, 2008, and April 17-18, 2008. A total of approximately 10.25 tons (20,500 pounds) of electronic and universal waste was collected at these events during FY07-08.

The Authority also continued to provide the Service Animal and Pet Relief Areas for those animals that are traveling with passengers. The areas provide a place for animals to have a water or restroom break while waiting for departure or upon arrival. A second pet relief area was built near the Commuter Terminal during FY07-08. Approximately 300 pet waste bags were dispensed at the two Service Animal and Pet Relief Areas in FY07-08.

The results of these 3 pollution prevention efforts in FY07-08 are presented in Table 4-1 below.

TABLE 4-1 MUNICIPAL ACTIVITIES - POLLUTION PREVENTION DURING FY07-08

Type of Activity	Quantity
Recyclable Waste recovery	325 tons (5.9% of all waste generated)
Electronic and Universal Waste Collection	10.25 tons
Pet Waste Bags Dispensed	300

4.5.3 INSPECTIONS

In general, the Authority Environmental Affairs Department inspects all municipal operations, as described in Sections 6.0 and 7.0 of the SWMP. The inspections include: 1) quarterly inspections; 2) frequent municipal land use area-specific inspections; 3) monthly inspections of the entire facility and the above-ground portions of the storm drain system during the wet weather season (October 1-May 31); and 4) a comprehensive annual inspection. All areas of municipal land use and activity, are inspected during the quarterly, monthly, and annual inspections. Inspections are designed to ensure that site specific BMPs are properly implemented. The program includes timely follow-up inspections whenever BMP deficiencies are found.

The Environmental Affairs Department conducts a comprehensive MS4 inspection annually during the dry weather season, May 1 through September 30, to identify areas that need cleaning or maintenance. The Authority has established a routine quarterly inspection and cleaning program for the MS4 slit trench inlets on the ramp areas near the terminal gates. A routine annual inspection and cleaning is performed on the MS4 components in the vicinity of the terminal transportation islands.

The Facilities Management Department performs or contracts for inspection and maintenance of the MS4 and structural controls. Service companies are contracted to pump out the oil water separators on an as-needed basis. The Vortechs hydrodynamic separator unit that is located in the NTC Taxi Hold Lot is inspected and maintained according to the manufacturer's recommendations, but at least annually. During FY07-08, none of these structural controls required any cleaning.

A contractor to the Authority maintains a series of drain inlet inserts in the rental car lot, cell phone parking area, cargo area, across from the triturator, and the California least tern nesting area. To prevent flooding, these inserts are cleaned every three months during the dry weather season and every month or after any rain event during the wet weather season.

In addition to the routine inspections of all municipal areas and activities by the Environmental Affairs Department, the Facilities Management Department also regularly inspects the pesticide, herbicide, and fertilizer storage areas as part of their normal routine.

A contractor is hired by the Authority to sweep the roads into and out of the airport 5 days a week. The sweepings/debris are vacuumed up into the sweeping unit and properly disposed. The parking lot management service provider sweeps the terminal parking lots daily using motorized sweeper unit, and the employee parking lots are swept weekly. Roads, parking lots, and curbs at SDIA are generally inspected continuously to identify the need for maintenance and/or cleaning. Authority and tenant employees are encouraged to identify areas that should be cleaned and to contact the Facilities Management Department regarding such issues.

The Facilities Management Department inspects both the storm drain system and the sanitary sewer system as part of their routine duties. The annual inspections the stormwater conveyance system conducted by the Environmental Affairs Department is also used to identify any impacts from the sanitary sewer systems and to recommend any needed improvements.

The Environmental Affairs Department conducts site-specific inspections of the closed NTC Landfill on a quarterly basis and of all special event venues prior to or during the event.

The inspections conducted by the Environmental Affairs Department are presented in Table 4-2 below.

TABLE 4-2 MUNICIPAL ACTIVITY SITE INSPECTIONS CONDUCTED DURING FY07-08

Date	Inspection Element	# of Activities Inspected / # Requiring Inspection	Activity Types and Number
07/17/07	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots (12), MS4 (various inlets) (1), 4 Maintenance and Storage Areas (4), 4 Solid Waste Operations (4), Airside Operations Area (1), Grounds (1), 8 Buildings (8)
09/04/07	MS4 Inspection	1 / 1	MS4 (at transportation islands)
11/20/07	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots (12), MS4 (various inlets) (1), 4 Maintenance and Storage Areas (4), 4 Solid Waste Operations (4), Airside Operations Area (1), Grounds (1), 8 Buildings (8)
12/11/07	Site-specific Inspection	1 / 1	Closed Landfill
02/01/08	MS4 Inspection	1 / 1	MS4 (slit trenches at terminal gates)
02/12/08	Site-specific Inspection	1 / 1	Closed Landfill
03/13/08	Site-specific Inspection	1 / 1	Closed Landfill
03/25/08	Quarterly Site Inspection	32 / 32	Roads (1), 12 Parking Lots (12), MS4 (various inlets) (1), 4 Maintenance and Storage Areas (4), 4 Solid Waste Operations (4), Airside Operations Area (1), Grounds (1), 8 Buildings (8)
05/02/08	MS4 Inspection	1 / 1	MS4 (slit trenches at terminal gates)
05/19/08 through 05/20/08	Annual Comprehensive Site Inspection	32 / 32	Roads (1), 12 Parking Lots (12), MS4 (various inlets) (1), 4 Maintenance and Storage Areas (4), 4 Solid Waste Operations (4), Airside Operations Area (1), Grounds (1), 8 Buildings (8)
06/20/08	Site-specific Inspection	1 / 1	Closed Landfill
05/30/08	Site-specific Inspection	1 / 1	Special Event - Rock-N-Roll Marathon (GD Parking Lot)
06/27/08 through 06/29/08	MS4 Inspection	1 / 1	MS4 (210 inlets)

4.5.4 CLEANING AND MAINTENANCE

For FY07-08, the municipal operation, area, and activity inspections above resulted in the cleaning and maintenance activities summarized in Table 4-3 below.

As noted 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. Table 4-3 also shows that a total of 27.25 gallons of pesticides and/or herbicides were applied at SDIA during FY07-08, which is almost half of the 51.5 gallons applied during FY06-07.

TABLE 4-3 MS4 AND MUNICIPAL OPERATION MAINTENANCE ACTIVITIES DURING FY07-08

Type of Activity	Manpower Metric*	Materials Metric*
Street Sweeping - Landside	773.5 hours	6 cubic yards
Parking Lot Sweeping	13,104 hours	3,700 cubic yards
Ramp/Apron Sweeping and Scrubbing – Airside, as needed	2,496 hours	39,000 gallons
Runway Rubber Removal – Airside, as needed	576 hours	18,180 gallons
MS4 Cleaning, as needed	160 hours	8 cubic yards
Landscape Maintenance	1,920 hours	2,080 cubic yards
Pesticide/Herbicide Application, as needed	22 hours	27 gallons
Solid Waste disposal	Not Applicable	5,500 tons

* All metrics are approximated.

4.5.5 FOLLOW-UP AND ENFORCEMENT

No unauthorized discharges or other concerns associated with municipal operations, areas, or activities were identified during routine inspections. 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. Inspections conducted during FY07-08 found municipal operations, areas, and activities to be in compliance with the SWMP and the Municipal Permit. As such, no enforcement actions were initiated during the reporting period.

4.6 PROGRAM MODIFICATION AND REVIEW

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWCQCB on March 24, 2008. There have been no revisions to the Municipal Component of the SWMP since that time.

5 INDUSTRIAL AND COMMERCIAL COMPONENT

5.1 INTRODUCTION

The Municipal Permit requires the Authority to: a) prepare and annually update a watershed-based inventory of all industrial and commercial sites/sources within our jurisdiction (regardless of ownership) that could contribute a significant pollutant load to the MS4; b) designate, describe and implement pollution prevention methods and a minimum set of BMPs for all industrial and commercial sites/sources; c) describe, conduct and track industrial and commercial site inspections for compliance with our ordinances, permits, and the Municipal Permit; d) develop and implement a program to reduce the discharge of pollutants from mobile businesses to the MEP, including a listing of mobile businesses known to operate within our jurisdiction; e) enforce our stormwater ordinance for all industrial and commercial sites/sources as necessary to maintain compliance with the Municipal Permit; and f) annually report a list of industrial sites, including the name, address, and SIC code, that may require coverage under the General Industrial Permit for which a NOI has not been filed. Section 7.0, Tables 4 through 8, Figure 3 and Figures 5 through 8, and Appendices B and E of the SWMP outline the elements that satisfy these requirements.

As noted in Section 7.3 of the SWMP, while there are several industrial/commercial entities at SDIA that operate at multiple locations throughout the airport, the Authority does not consider any of these entities to be mobile

sources in terms of the Municipal Permit. Any and all industrial/commercial entities at SAN are included in the discussion of stationary industrial/commercial sites/sources in both the SWMP and below.

This chapter of the Annual Report discusses compliance activities relative to industrial and commercial activities at SDIA during FY07-08.

5.2 STATIONARY INDUSTRIAL AND COMMERCIAL SITES/SOURCES ELEMENT

5.2.1 BACKGROUND

The Municipal Permit requires the Authority to maintain an inventory of industrial and commercial sites/sources and to annually update the inventory and prioritization of these sites/sources. The inventory was last presented in Table 5 of the March 2008 SWMP. Table 5 of the SWMP includes the inventory and prioritization for industrial and commercial activities/operations at SDIA. Table 5 of the SWMP shows that there are 30 tenants conducting industrial or commercial activities, plus the ARFF Facility and the Authority itself as operator of the airport, for a total of 32 entities conducting industrial or commercial activities that could contribute a significant pollutant load to the storm drain system. These 32 entities are considered stationary sources. Information regarding these 32 entities and the type of industrial/commercial activity into which they have been categorized, as well as their locations on the airport, is presented in the SWMP.

5.2.2 SOURCE CHARACTERIZATION

The SWMP identifies commercial passenger air carriers, cargo air carriers, the Fixed Base Operator, fuel vendors, aircraft refuelers, aircraft and airport service and maintenance providers, and all airfield/airport related activities (including aircraft rescue and fire fighting) as industrial operations in terms of the General Industrial Permit. There are 29 stationary industrial sites/operations at SDIA and the Authority has determined that all 29 are high priority threats to water quality. The 3 remaining commercial operations, which could be significant sources of pollutants to the storm drain system (namely, the airport paid/non-paid parking lot operator, the master-lease concessionaire/food service provider, and the airport janitorial services

provider), have also been determined to be high priority threats to water quality. In short, all 32 entities conducting industrial or commercial activities that could contribute a significant pollutant load to the storm drain system have been determined to be high priority threats to water quality.

Section 7.2.2 of the SWMP outlines the significant materials and potential pollutant sources associated with industrial and commercial operations at SDIA. The variety of materials associated with the industrial activities at the airport consist primarily of petroleum products, solvents, soap/cleaning fluids, and trash. Other potential pollutants also present at the airport in smaller amounts include lavatory chemicals and waste, paints, used batteries and battery acid, anti-freeze, hazardous wastes, metals, deicing chemicals, herbicides and pesticides, adhesives, sealants, rust preventers, and various fire suppression chemicals. The materials associated with the commercial activities at the airport consist primarily of vehicle maintenance fluids, food preparation oils, and various maintenance and cleaning chemicals. The potential pollutant generating industrial activities/operations consist primarily of specific airport-industry processes, material handling and storage, and spills and leaks. To a lesser extent, pollutants may also potential result from dust and particulate generating activities, soil erosion, non-stormwater discharges, as well as the commercial activities of parking lot management and vehicle storage, food service, and janitorial service.

5.2.3 BEST MANAGEMENT PRACTICE REQUIREMENTS

Industrial and commercial operations at SDIA are required to implement those BMPs in Chapter 7 and Appendices B and E 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 broadcast through E-mail, the Authority's webpage, and meetings, and also discussed with tenants and staff, as necessary, during the site inspections described below under Program Implementation.

5.2.4 PROGRAM IMPLEMENTATION

The Environmental Affairs Department inspected industrial and commercial 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 and commercial activity and associated sources of stormwater pollution were visually inspected during the quarterly inspections and any unauthorized discharges were duly noted and addressed. 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 or their implementation.

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 5-1 presents the dates and types of industrial and commercial activity inspections conducted by the Authority during FY07-08.

TABLE 5-1 INDUSTRIAL/COMMERCIAL ACTIVITY SITE INSPECTIONS CONDUCTED DURING FY07-08

Date*	Inspection Element
07/03/07	Quarterly FAA 139.321 (b) Fuel/Fueler Inspection
07/17/07	Quarterly Site Inspection
10/11/07	Quarterly FAA 139.321 (b) Fuel/Fueler Inspection
11/20/07	Quarterly Site Inspection
02/01/08	Quarterly FAA 139.321 (b) Fuel/Fueler Inspection
03/25/08	Quarterly Site Inspection
04/03/08	Quarterly FAA 139.321 (b) Fuel/Fueler Inspection
05/19 through 05/20/08	Annual Comprehensive Site Inspection

* Quarterly Site Inspections and the Annual Comprehensive Site Inspection were performed for commercial and industrial tenants.

Inspections by the Environmental Affairs Department generally found industrial activities to be predominately in compliance with the requirements

of the SWMP and the Municipal Permit Industrial and Commercial Component. The majority of the required BMPs are being implemented properly. Table 5-2 identifies the types of industrial/commercial activity and the associated BMPs which were most frequently found to be improperly implemented at the time of inspection.

TABLE 5-2 TYPES OF INDUSTRIAL/COMMERCIAL ACTIVITIES AND ASSOCIATED BMPS FOUND TO BE IMPROPERLY IMPLEMENTED AS DETERMINED DURING FY07-08 SITE INSPECTIONS

Industrial/Commercial Activity	BMPs Required by SAN SWMP
Improper storage of materials.	SC-07 – Outdoor Storage of Significant Material
Oily stains or other chemical stains on the ground surface. Used absorbent left on ground surface.	SC-02 – Aircraft, Ground Vehicle and Equipment Maintenance SC-03 – Aircraft, Ground Vehicle and Equipment Fueling SC-04 – Aircraft, Ground Vehicle and Equipment Cleaning SC-08 – Waste Handling and Disposal SC-11 – Lavatory Service Operations
Improper storage of waste.	SC-08 – Waste Handling and Disposal
Leaking vehicles or equipment.	SC-02 – Aircraft, Ground Vehicle and Equipment Maintenance

In each instance, BMPs were compared with those required in the SAN SWMP and each tenant/operation was directed to correct the implementation of 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 SAN SWMP were adequate, and no additions or modifications were required. No unauthorized discharges to receiving waters were identified during inspections in FY07-08. Poor materials/waste management were again frequently identified as issues of concern, along with oily stains and leaking equipment. These concerns were also identified in the FY04-05, FY05-06, and FY06-07 Annual Reports. All of these issues require constant attention from industrial and commercial activity site managers/supervisors. It should be noted that poor housekeeping activities had been identified as an issues of concern in four previous Annual Reports prepared by the Authority. Since poor housekeeping was not identified as an issue of concern by the FY07-08 industrial and commercial activity inspection program, it would appear that the tenants are improving their implementation of this BMP.

The Authority's industrial and commercial activity inspection program found 16 separate industrial operations which were improperly implementing the required relevant industrial BMPs. None of the three commercial operations were found to be deficient in implementing BMPs. The 16 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 a 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 5-3 below. Each item was addressed satisfactorily within the time-frame allowed and no further enforcement actions were initiated.

5.3 MOBILE SOURCES ELEMENT

As noted above, while there are several industrial/commercial entities at SDIA that operate at locations throughout the airport, the Authority does not consider any of these entities to be mobile sources in terms of the Municipal Permit. Any and all industrial/commercial entities at SDIA are included in the discussion of stationary industrial/commercial sites/sources in both the SWMP and above.

5.4 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWCQCB on March 24, 2008. Since that time, the only revisions to the Industrial and Commercial Component of the SWMP has been an update of the inventory of industrial and commercial operations. Since March 24, 2008, one new commercial passenger airline tenant (namely, Virgin America) began operations as SDIA, and has therefore been added to the inventory. Another commercial passenger airline tenant (namely, Aloha Airlines) has completely ceased operations, including those operations at SDIA, and has therefore been removed from the inventory. These revisions are shown in the updates to Table 5 of the SWMP. Any and all revisions to the SWMP are discussed and summarized in Chapter 14 of this Annual Report.

TABLE 5-3 INDUSTRIAL/COMMERCIAL OPERATION COMPLIANCE CONCERNS IDENTIFIED DURING SITE INSPECTIONS AND DATES OF RESOLUTION - FY07/08

Operation	Compliance Issue(s)	Type & Date of Notice	Date of Resolution
ABX	Trash cans did not have lids.	Written - 05/23/08	06/09/08
Alaska Airlines	Drums were stored outside with no secondary containment.	Written – 05/22/08	05/27/08
American Airlines	Drums, cleaning solutions, with no secondary containment. Trash on the ground along the fence line. A fresh oil stain was observed on the ramp	Written – 06/10/08	06/24/08
DAL Global Services	Leaking. vehicle.	Written – 05/30/08	06/03/08
Delta Airlines	Leaking truck and absorbent. Trash and debris on the ground. Trash cans were observed without lids. Old refrigerator needs to be disposed.	Written – 06/02/08	06/13/08
Elite Line Services, Inc.	Improper storage of equipment/supplies.	Written – 05/29/08	06/04/08
Express Jet	Leaking equipment. Chemical storage with no lids and no secondary containment.	Written - 05/23/08	06/20/08
Frontier Airlines	Trash accumulating behind the ice machine	Written – 05/29/08	06/30/08
Jet Wash	Drums with no secondary containment.	Written - 05/23/08	06/10/08
Jimsair Aviation Services, Inc.	Container with no secondary containment.	Written - 05/23/08	06/10/08
Northwest Airlines, Inc.	Oil stain on ground.	Written - 05/27/08	05/28/08
Skywest Airlines	Trash on ground. Trash cans without lids.	Written – 05/27/08	05/27/08
Southwest Airlines	Oil and hydraulic fluid stains on ground. Open dumpsters/trash cans without lids	Written – 05/23/08	06/06/08
United Airlines, Inc.	Trash on ground and on storm drain inlet. Leaking vehicles and equipment. Drums with not secondary containment.	Written - 05/23/08	06/06/08
UPS	Trash on the ground.	Written - 05/23/08	06/04/08
US Airways	Leaking equipment. Containers uncovered and outside.	Written - 05/27/08	07/01/2008

6 RESIDENTIAL COMPONENT

As stated several times in the SWMP (specifically, in the Executive Summary, and Section 8.0), 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 previous Annual Reports, the FY07-08 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 SWMP and our Annual Reports discuss issues relative to the general public under the Education and Public Participation components (Chapters 8 and 9 of this report).

7 ILLICIT DISCHARGE DETECTION AND ELIMINATION COMPONENT

7.1 INTRODUCTION

Section 9 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 and illicit connections: 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 the IDDE program activities conducted during FY07-08.

The IDDE program incorporates several elements of the Authority's stormwater management program to develop a comprehensive approach to preventing, detecting, and eliminating illegal discharges and illicit connections. Inspection, maintenance, and enforcement activities contribute to the identification of illegal discharges/illicit connections and the elimination of those detected. Often, when an illegal discharge/illicit connection is detected as a part of an inspection or maintenance program, it can be eliminated before it affects a receiving water. Authority regulations prohibit illegal discharges and illicit connections.

Authority staff and airport tenants play an important role in the detection of illegal discharges and illicit connections. Education and outreach efforts for Authority staff and airport tenants are directed at stormwater pollution prevention, including the detection and elimination of illegal discharges/illicit connections.

7.2 PUBLIC REPORTING OF ILLICIT DISCHARGES AND CONNECTIONS

As noted in previous Annual Reports and the SWMP, 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 and illicit connections as described in Section 9 of the 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 illegal discharge/illicit connection 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 webpage 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 SWMP, the IDDE program, and both telephone numbers and E-mail addresses for the Environmental Affairs Department.

The Airside Operations Department 24-hour telephone number functions as a hotline for airport tenants and Authority 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.

During FY07-08, there was a total of 167 IDDE events reported to the Authority using either the telephone numbers or the webpages noted above.

7.3 SPILL REPORTING, RESPONSE, AND PREVENTION

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 allow for virtually every action to be 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 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 7-1 highlights the regular inspection activities conducted by the Environmental Affairs Department during the reporting period.

TABLE 7-1 IDDE MS4 INSPECTION AND MONITORING CONDUCTED DURING FY07-08

Date	Inspection Element
07/17/07	Quarterly authorized/unauthorized non-stormwater discharge monitoring
07/17/07	Dry Weather Monitoring (2007 dry weather season)
10/17/07	Monthly Wet Weather Visual Observations
11/20/07	Quarterly authorized/unauthorized non-stormwater discharge monitoring
11/30/07	Monthly Wet Weather Visual Observations - sample collected
12/07/07	Monthly Wet Weather Visual Observations – sample collected
01/21/08	Monthly Wet Weather Visual Observations
02/22/08	Monthly Wet Weather Visual Observations
03/25/08	Quarterly authorized/unauthorized non-stormwater discharge monitoring
05/08/08	Dry Weather Monitoring (2008 dry weather season)
05/19/08	Quarterly authorized/unauthorized non-stormwater discharge monitoring
05/23/08	Monthly Wet Weather Visual Observations
06/03-04/08	Dry Weather Monitoring (follow-up to 05/08/08) (2008 dry weather season)
06/20/08	Dry Weather Monitoring (2008 dry weather season)
08/04/08	Dry Weather Monitoring (2008 dry weather season

7.3.1 IDDE REPORTING AND RESPONSE

Appendix B presents information on the 167 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 eight categories shown in Table 7-2. The nature and disposition of all 167 IDDE incidents noted in Table 7-2 are presented in Appendix B.

TABLE 7-2 SUMMARY OF IDDE INCIDENTS BY CATEGORY AS REPORTED DURING FY07-08*

Incident Category	Number of Incidents
Trash or non-petroleum spill on the airside	63
Petroleum spill on the airside	30
Trash or non-petroleum spill on the landside	29
Pest management issue	23
Sewage issue	15
Petroleum spill on the landside	6
Unauthorized discharge	1
Construction project issue	0

* See Appendix B for detailed description of each incident.

The most frequently reported types of incidents were trash or non-petroleum spills that occurred on the airside, comprising 38% of the total. The "trash or non-petroleum spill on the airside" IDDE category has been the most frequently reported issue for four of the last five fiscal years (being the second most frequently reported issue in the fifth year). This trend is related to the Authority's (and the entire aviation community's) concern for trash and debris on the airside as serious threats to the safe operation of a jet engine. Therefore, people working on the airside are keenly aware of issues involving trash and debris. Another reason for the trend is that two of the four Solid Waste Disposal Areas are on the airside, which increase the chances that a "trash or non-petroleum spill" will occur on the airside.

Petroleum spills on the airside were the second most frequently reported type of IDDE event, comprising 18% of the total. Approximately 450,000 gallons of jet fuel is transferred from tanker trucks to aircraft every day. The number of petroleum spill reports reflects the sensitivity of Authority staff and airport tenants to the fire hazard and environmental concerns associated with these types of spills. The majority of these spills are less than 5 gallons and all spills are cleaned up immediately.

Trash or non-petroleum spills that occurred on the landside comprise 17% of the total number of events listed in Table 7-2. The "trash or non-petroleum spill on the landside" IDDE category has historically also been the more

frequently reported issues. This is partially reflective of the impact that approximately 60,000 people a day coming the airport can have on the facility and also reflects the constraint scrutiny of site conditions by Authority staff and airport tenants.

The 23 "pest management issues" listed in Table 7-2, represent 14% of the total and generally involve the appropriate application of pesticides, and not an illegal discharge. Tracking pesticide application events 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 sewage related IDDE issues listed in Table 7-2 comprise 9% of the total and are discussed in Section 7.3.2 below. Significant aspects of the 6 petroleum spills on the landside incidents (less than 4% of the total) and the 1 unauthorized release issue are discussed below in Section 7.5.

7.3.2 SANITARY SEWAGE SPILL PREVENTION AND RESPONSE

Section 6.5 of the 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 7-2 above and as detailed in Appendix B, there were 15 IDDE incidents related to sewage at SDIA during the reporting period. Six (7) 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 7 IDDE incidents at the triturator: 3 involved a mechanical problem with the connection hose; 2 involved a malfunctioning alarm; 1 involved a clog in the sewer line; and the final 1 involved a spill from a lavatory waste truck at the breached the containment berm. Only one of these 7 events involved a sewage spill and none of these 7 events impacted the stormwater conveyance system.

Of the 8 remaining IDDE sewage incidents, that did not involve the triturator, 4 involved leaks or minor spills from lavatory waste trucks operating at the terminals gate and off-loading lavatory waste from aircraft. Each of these 4 spills was immediately cleaned up. One of the 8 IDDE sewage incidents not related to the triturator involved a spill from a port-o-let at an airport construction project. The spill was immediately cleaned up. The 3 remaining IDDE sewage incidents, unrelated to the triturator, involved sewage spills from the plumbing system in Terminal 1 East: one on February 18, 2008; another on March 24, 2008; and the last incident on April 9, 2008. Each of these spills were addressed immediately, the spills cleaned up, and the problems corrected. None of these 8 IDDE incidents related to sewage impacted the stormwater conveyance system.

7.3.3 USED OIL AND TOXIC MATERIALS DISPOSAL

Section 9.3.1 of the SWMP discusses spill prevention and proper materials storage and handling. SWMP Section 9.3.1 refers to the BMPs required for use at the airport that are related to material storage, handling, and spill response. These BMPs describe the mechanisms required for use by the Authority which facilitate the proper management and disposal of used oil and toxic materials. 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 4 of this report, the Authority hosted 3 separate electronic and universal waste collection events in September of 2007, and January and April of 2008. These 3 events were open to all Authority staff and airport 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 7-3 lists the hazardous materials disposed of by the Authority during FY07-08, a portion of which includes the universal waste collected at the electronic and universal waste collection events.

TABLE 7-3 HAZARDOUS WASTES DISPOSED OF BY THE AUTHORITY DURING FY07-08

Description of Waste	Total Quantity Disposed	
Hazardous Waste, Solid	90	tons
Hazardous Waste, Corrosive Liquid	4	gallons
Hazardous Waste, Aerosols, Flammable	100	pounds
Hazardous Waste, Flammable Liquid (Paints and Thinners)	116	gallons
Asbestos and Non-friable Waste	3	cubic yards
Non-RCRA Hazardous Waste, Solid (Absorbent, Soil, Toner, and Debris)	120	tons
Non-RCRA Hazardous Waste, Solid (Oily Debris and/or Diesel)	1,860	pounds
Non-RCRA Hazardous Waste, Liquid	235	gallons
Non-Hazardous Waste, Solid (Soil)	30	tons
Non-Hazardous Waste, Liquid (Rinse Water)	155	gallons
Waste Flammable Solids, Organic	100	pounds
Universal Waste (Fluorescent Lamps, Monitors, Alkali and/or Rechargeable Batteries)	2390	pounds

7.4 URBAN RUNOFF MONITORING

The Authority conducts or participates in the urban runoff monitoring programs to meet requirements of the Municipal Permit. Several of these programs are carried out and reported on collectively by the Copermittees. The Authority conducts two stormwater monitoring programs at the airport: a dry weather monitoring program and an Airport wet weather monitoring program. Information relevant to these two programs during FY07-08 is presented below.

7.4.1 DRY WEATHER MONITORING

The Municipal Permit requires the Authority to develop a programs that can identify non-stormwater illegal discharges/illicit connections. The Permit

requires observations and water quality analysis of dry weather flows between June and September as a part of the dry weather monitoring program. Appendix D of the SWMP presents the dry weather monitoring program developed for the airport (see SWMP Appendix D-1).

The dry weather monitoring program allows the Authority to characterize dry weather flows at SDIA, to eliminate illegal discharges and illicit connections, 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 three seasons, the Authority has increased the number of monitoring events to three each season and has timed these events to coincide with dry weather sampling being conducted by the Port of San Diego on the same day. Since the dry weather monitoring season occurs from May 1 to September 30, it straddles two fiscal years. In previous Annual Reports, the Authority only reported on those sampling events that occurred during the fiscal-year reporting period. This is the first year that the Authority's Annual Report discusses the entire summer 2008 (May 1, 2008, through September 30, 2008) dry weather season.

The Authority has implemented a dry weather monitoring program since 2003. Over the past five years, the dry weather monitoring program has been continuously evaluated and improved to represent the land use activities at the Airport. The program originally started with four dry weather monitoring locations, but was expanded to ten locations in FY06-07. 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. Since previous Annual Reports only discussed the dry weather monitoring activities that occurred during the fiscal year reporting period, the discussion below includes the results of the July 17, 2007 dry weather monitoring event, since that information has not been presented previously. While a discussion of the July 17, 2007 dry weather monitoring event would be more relevant to a discussion of the entire 2007 dry weather season, only the 2008 dry weather season monitoring is presented fully below. There were three dry weather

monitoring events scheduled during the 2008 dry weather season; namely, May 8, 2008, June 20, 2008, and August 4, 2008. There was also one follow-up sampling event for the 2008 dry weather season conducted on June 3 and 4, 2008, in response to the lab results from the dry weather monitoring event conducted on May 8, 2008.

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 each of the dry weather monitoring events are discussed below and presented in Appendix B.

Site C-B01-1 - the site was dry and there was no evidence of surface runoff during the July 17, 2007 monitoring event. Ponded water was present at the site during the first two monitoring events conducted in the 2008 dry weather season, but there was no evidence of an illegal discharge in the vicinity and no up stream sources were identified. During the May 8, 2008 event, the water had a brown and slightly cloudy appearance. Sampling for field action levels on May 8, 2008, showed were exceedances for pH, ammonia and MBAS, although the laboratory data showed action level exceedances for copper and zinc only. A follow-up monitoring event was conducted at the site on June 4, 2008, in response to the lab results from the May 8, 2008 monitoring event. Ponded water was observed at site on June 4, 2008, and the water had a faint yellow tint with some visible sediment. There were no obvious source activities observed at the site at the time. A field sample collected on June 4, 2008, was tested for pH, MBAS and ammonia, and only the pH reading of 6.1 exceeded the action level of "less than 6.5." A laboratory sample was also collected on June 4, 2008, for analysis of copper and zinc, and the results of both exceeded the action levels. During the June 20, 2008 event, the water was yellow and clear. No exceedances were found in the field during the June 20, 2008 event, but samples were still collected due to previous exceedances at this site. The laboratory data from June 20, 2008 showed action level exceedances for copper and zinc. During the August 4, 2008 event, no flow was observed and no field screening or lab samples were collected.

Site C-B03-2 - ponded water was presented during the July 17, 2007 monitoring event (and sediment and gravel were observed in the inlet).

Ponded water was also observed during the May 8, 2008 monitoring event. A slightly cloudy flow was observed during both the June 20, 2008 and August 4, 2008 monitoring events. Fine particulates were observed in the flow during the June 20, 2008 event. The results of conductivity testing conducted during each of the four events suggested that the water resulted from seawater intrusion, therefore, no further field analyses were conducted and no laboratory analyses performed.

Site C-B05-3 - this site 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. The site was dry and there was no evidence of surface runoff to the site during the monitoring event conducted during the July 17, 2007. During the 2008 dry weather season, ponded water was observed during all three monitoring events; namely, May 8, 2008, June 20, 2008, and August 4, 2008. Field screening on these 3 days showed no action level exceedances and, therefore, lab tests were not necessary. Although overland flow was observed from the water truck (that controls the dust) during the May 8, 2008 monitoring event, there was no evidence of overland flow during the June 20, 2008 and August 4, 2008 monitoring events.

Site C-B05-4 - no overland flow was observed during the July 17, 2007, May 8, 2008, June 20, 2008, and August 4, 2008 monitoring events. During the July 17, 2007 event, the site was dry, with some sediment and gravel found in the catch basin. Sediment and gravel were also found during the June 20, 2008 monitoring event. Ponded water was observed during the monitoring events on May 8, 2008, June 20, 2008, and August 4, 2008, but the high level of conductivity suggested seawater intrusion at the site and no further field analyses or laboratory analyses were performed.

Site C-B06-5 - the site was dry and there was no evidence of surface runoff to the site during the July 17, 2007, May 8, 2008, June 20, 2008, and August 4, 2008 monitoring events.

Site C-B07-6 - the site was dry and there was no evidence of surface runoff to the site during the monitoring events conducted on July 17, 2007, May 8, 2008, June 20, 2008, and August 4, 2008.

Site C-B07-7 - the site was dry and there was no evidence of surface runoff to the site during the monitoring events conducted on July 17, 2007,

May 8, 2008, June 20, 2008, and August 4, 2008. During the July 17, 2007 and May 8, 2008 monitoring events, sediment, gravel, and trash were present in the catch basin.

Site C-B08-8 - ponded water was present during the July 17, 2007 monitoring event, but there were no signs of overland flow. Field and laboratory samples were taken during the July 17, 2007 event, but there were no exceedances reported. Trash and ponded water were observed at the site during all monitoring events conducted during the 2008 dry weather season. Any overland flow or ponded water observed was likely due to the potable water filling of the aircrafts in the area, as well as residual moisture from dew. During the May 8, 2008 and June 20, 2008 monitoring events, ammonia and MBAS exceeded field screening action levels. The May 8, 2008 monitoring event showed no evidence of an illegal discharge in the vicinity and no up stream sources. The laboratory data from the May 8, 2008 event revealed action level exceedances in total coliforms, and copper. A follow-up monitoring event was conducted at the site on June 3, 2008, in response to the lab results from the May 8, 2008 monitoring event. Ponded water was observed at site on June 3, 2008, and the water had a yellow tint with visible sediment. A lavatory waste truck was observed in the vicinity emptying an airplane of bathroom waste, but no leaks or illegal discharges were observed at the time. A field sample was tested on June 3, 2008, for MBAS and ammonia, and only ammonia exceeded the action level. A sample was also collected on June 3, 2008, for laboratory analysis of total coliforms, copper, and zinc, and the results of total coliforms and copper exceeded the action levels. During the June 20, 2008 monitoring event, the water had a yellow color. The laboratory data from the June 20, 2008 event revealed action level exceedances in total coliforms, copper and zinc. There was evidence of overland flow during the August 4, 2008 monitoring event, but ponding and flow were not observed, and therefore, no field or lab samples were collected during this event.

Site C-B12-9 - this site had no evidence of surface runoff during the July 17, 2007, May 8, 2008, June 20, 2008, and August 4, 2008 monitoring events. Although there was a small amount of ponded water during the first three events, there was not enough volume to sample for either field or laboratory analyses. There was no ponding during the August 4, 2008 monitoring event.

Site C-B09-10 - the site had both trash and sediment in the catch basin during July 17, 2007, May 8, 2008, and June 20, 2008 monitoring events. During the May 8, 2008 and June 20, 2008 monitoring events, residual moisture from landscape runoff was found in the catch basin. There was evidence of irrigation runoff during the August 4, 2008 monitoring event, but no ponding or flow was observed. Due to insufficient volume, no field screening samples were collected at this site during any of the monitoring events.

Table 7-4 lists the dry weather monitoring 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 2008 dry weather season, there were three 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 exceeded action levels for pH, ammonia and MBAS on the first occasion ponded water was found. Laboratory analyses of the ponded water collected at Site C-B01-1 each time reported that copper and zinc concentrations exceeded the action levels. 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 similar to the results from the FY06-07 dry weather monitoring program and are consistent with the results of the Authority's wet weather monitoring program (discussed in Section 7.4.2 below). Field sampling of the ponded water at Site C-B05-3 did not exceed action levels during all three monitoring events during the 2008 dry weather season, and therefore there was no requirement to collect a sample for laboratory analysis. The results for Site C-B05-3 are similar to the results from the FY06-07 dry weather monitoring program. Site C-B08-8 had ponded water on during the July 17, 2007 monitoring event and on three occasions during the 2008 dry weather season. Neither field nor laboratory samples results identified any pollutants of concern during the 2007 monitoring event. During the three monitoring 2008 events, field analysis identified ammonia and/or MBAS as exceeding the field screening action levels. These field results are similar to the results from the FY06-07 dry weather monitoring program. The laboratory data for all 3 of the 2008 monitoring events showed exceedances for total coliforms and copper, with 2 of the 3

TABLE 7-4 DRY WEATHER MONITORING PROGRAM SAMPLE SITES DURING FY07-08

Site ID	Site Description	Dates with sufficient water to sample	Type of Analyses (S, F, L)*	Potential Pollutant(s) of Concern Identified
C-B01-1	Grated inlet inside zipper line, south of FBO, north of runway	5/8/08	F, L	Ammonia, MBAS, pH, Cu, Zn
		6/4/08	F, L	pH, Cu, Zn
		6/20/08	F, L	Cu, Zn
C-B03-2	Grated inlet inside zipper line, south of runway, near B1-D sign	7/17/07	S	
		5/8/08	S	
		6/20/08	S	
		8/4/08	S	
C-B05-3	Grated inlet within the rental car holding lot	5/8/08	F	
		6/20/08	F	
		8/4/08	F	
C-B05-4	Grated inlet, south of runway, north of generator yard	5/8/08	S	
		6/20/08	S	
		8/4/08	S	
C-B06-5	Grated inlet southeast of control tower			
C-B07-6	Inlet pipe, in manhole west of oil-water separator in cargo area			
C-B07-7	Grated inlet south of cargo area, west of West Wing			
C-B08-8	Grated inlet northwest of Terminal 1 East, across from Gate 8	7/17/07	F, L	
		5/8/08	F, L	Ammonia, MBAS, Total Coliforms, Cu
		6/3/08	F, L	Ammonia, Total Coliforms, Cu
		6/20/08	F, L	Ammonia, MBAS, Total Coliforms, Cu, Zn
C-B09-10	Manhole near Terminal 2 Parking Entrance, on north side			
C-B12-9	Grated inlet in West RON			

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

monitoring events also showing exceedances for zinc in the results of the laboratory analysis. The laboratory results suggesting copper and zinc as potential pollutants of concern are consistent with the results of the Authority's wet weather monitoring program. Finally, there were no unauthorized discharges identified as a result of the dry weather monitoring activities conducted in FY07-08 and the 2008 dry weather monitoring season.

7.4.2 AIRPORT WET WEATHER MONITORING

The Authority has developed a wet weather monitoring program to address three objectives: 1) to comply with the General Industrial Permit requirements applicable to the airport; 2) to identify and characterize pollutants-of-concern (POCs); and 3) to measure BMP effectiveness. The wet weather monitoring program is described in detail in Appendix D.2 of the SWMP. The monitoring program includes three sampling elements designed to address the 3 objectives of the program:

1. Compliance sampling - performed to comply with the General Industrial Permit; and

2. Source identification sampling - a multi-year effort performed to identify and rank sources of pollutants of concern at SAN in terms of annual mass loading in stormwater, identify the potential for reduction in the concentrations of these pollutants of concern through BMP implementation, and identify that combination of sources best addressed through BMP implementation to achieve pollutant load reduction objectives; and

3. BMP Effectiveness sampling - a multi-year effort to monitor the performance and effectiveness of BMPs. Structural and non-structural BMP performance are being evaluated at locations that receive runoff from both industrial and non-industrial drainage basins to assess whether the BMPs are reducing pollutant concentrations (for both primary and secondary pollutants of concern) below benchmark values and whether BMPs are achieving the short-term and long-term pollutant load reduction objectives for the primary pollutants of concern at SAN (specifically, copper and zinc).

All the sampling locations are described in Appendix D-2 of the SWMP. The sampling locations selected for compliance monitoring are the same 10 sites

used in the dry weather monitoring program and listed in Table 7-4 above. There are fourteen sampling locations used to characterize the quality of non-industrial stormwater runoff associated with vehicle and aircraft use and emissions, atmospheric deposition, and galvanized metal structures, particularly metal roofs. For BMP effectiveness monitoring, seven sampling locations were selected from the 14 source identification sampling locations to minimize the number of additional sampling locations.

The results of the FY07-08 wet weather monitoring program were detailed by MACTEC Engineering and Consulting, Incorporated, in a report entitled "2007-2008 Storm Water Sampling Summary Report," and dated July 2008. The FY07-08 wet weather season resulted in a total rainfall of 5.37 inches at SDIA compared to the annual average rainfall of 10.2 inches. During the FY07-08 wet weather season, sampling activities were performed during six storm events. Table 7-5 provides a summary of the total rainfall and duration of each storm.

TABLE 7-5 SAMPLED STORM EVENT SUMMARY

Event #	Date	Total Rainfall (inches)	Event Duration (hours)
1	November 30, 2007	1.08	18.0
2	December 7, 2007	0.21	4.8
3	December 19, 2007	0.14	7.5
4	January 22, 2008	0.14	15.7
5	February 3, 2008	0.29	17.4
6	February 22, 2008	0.54	8.1

The compliance sampling element of the program was completed during the first two storm events of the season November 30, 2007 and December 7, 2007. A total of 20 compliance samples were collected over the two storm events at ten sampling sites. A summary of the results, showing median, maximum, and minimum values, along with the coefficient of variance, is presented in Table 7-6.

TABLE 7-6 COMPLIANCE SAMPLING ANALYTICAL RESULTS SUMMARY

Pollutant of Concern	Units	Median	Coefficient of variation (%)	Maximum Value	Minimum Value	# of Samples
Ammonia as N	mg/L	0.265	80	1	0.05	20
BOD	mg/L	40.5	75	165	6.4	20
COD	mg/L	127.5	72	412	23	20
Specific Conductivity	µmhos/com	296.5	249	11,900	52.1	20
Oil & Grease	mg/L	1	88	5.5	1	20
pH	pH units	6.44	6	7.1	5.74	20
Total Suspended Solids	mg/L	14	110	99	2	20
Aluminum, Total	µg/L	140	160	2,200	25	20
Copper, Total	µg/L	101.5	113	670	5.6	20
Iron, Total	µg/L	310	142	5,100	60	20
Lead, Total	µg/L	1	168	36	1	20
Zinc, Total	µg/L	270	83	1,000	14	20
Copper, Dissolved	µg/L	59.5	129	610	2.9	20
Zinc, Dissolved	µg/L	240	93	1,000	9.5	20
Ethylene Glycol	mg/L	5	0	5	5	20
Propylene Glycol	mg/L	5	0	5	5	20
MBAS	mg/L	0.125	261	5.5	0.025	20
Diesel Range Organics	mg/L	1.6	88	7.3	0.22	20
Jet-A	mg/L	0.025	7	0.025	0	20
Oil Range Organics	mg/L	1	91	5.9	0.3	20

Table 7-7 shows a comparison of the median concentrations calculated for the compliance sampling pollutants of concern to the benchmarks to determine the number of benchmark exceedances that occurred. Ammonia, oil and grease, total suspended solids, total zinc and ethylene glycol did not exceed the benchmarks. Biologic oxygen demand (BOD), total and dissolved copper, and dissolved zinc each exceeded the benchmarks in over 65% of the samples. The remaining pollutants of concern exceeded the benchmarks in less than 60% of the samples.

TABLE 7-7 COMPARISON OF COMPLIANCE SAMPLING RESULTS TO BENCHMARKS

Pollutant of Concern	Units	Median	Benchmark	# of Analyses	# of Exceedances	Exceedance Frequency
Ammonia as N	mg/L	0.265	19	20	0	0%
BOD	mg/L	40.5	30	20	14	70%
COD	mg/L	127.5	120	20	11	55%
Specific Conductivity *	mhos/com	296.5	900	20	2	10%
Oil & Grease	mg/L	1	15	20	0	0%
pH	pH units	6.44	6.0 - 9.0	20	4	20%
Total Suspended Solids	mg/L	14	100	20	0	0%
Aluminum, Total	g/L	140	750	20	2	10%
Copper, Total	g/L	101.5	63.6	20	13	65%
Iron, Total	g/L	59.5	1,000	20	10	50%
Lead, Total	g/L	310	81.6	20	5	25%
Zinc, Total	g/L	1	117	20	0	0%
Copper, Dissolved	g/L	270	63.6	20	16	80%
Zinc, Dissolved	g/L	240	117	20	14	70%
Ethylene Glycol **	mg/L	5	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 Containment 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 stormwater 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.

The source identification sampling element of the program was performed during the last three storm events of the FY07-08 wet weather season and combined with the sample results from the 2006-2007 wet weather season. A summary of the complete data set, showing the median, maximum, and minimum values along with the coefficient of variance, is presented in Table 7-8. Those source identification sites, which also double as the BMP effectiveness sites were sampled for the complete list of pollutants of concern used in the compliance sampling component of the program. Samples from

the remaining sites were only analyzed for total copper and zinc and dissolved copper and zinc, in accordance with the sampling plan.

TABLE 7-8 SOURCE IDENTIFICATION SAMPLING ANALYTICAL RESULTS SUMMARY

Pollutant of Concern	Units	Median	Coefficient of variation (%)	Maximum Value	Minimum Value	# of Samples
BOD	mg/L	19	73.2	104	4.3	54
COD	mg/L	50	66.8	218	14	54
Specific Conductivity	µmhos/ com	145.5	57.9	378	57.9	54
Oil & Grease	mg/L	1	60.1	4.0	1.0	54
pH	pH units	7	7.9	8.0	5.35	54
Total Suspended Solids	mg/L	7	125.5	91	0.5	54
Aluminum, Total	µg/L	115	218.5	3,915	25	54
Copper, Total	µg/L	36.5	187.0	2,000	5.6	90
Iron, Total	µg/L	150	221.7	5,605	20	54
Lead, Total	µg/L	1	204.6	55.5	1.0	54
Zinc, Total	µg/L	98.5	411.7	21,000	14	90
Copper, Dissolved	µg/L	26.0	212.4	1,700	2.9	90
Zinc, Dissolved	µg/L	75.5	442.6	20,000	2.4	90
Ethylene Glycol	mg/L	5.0	63.4	29.1	5.0	54
Propylene Glycol	mg/L	5.0	115.8	28	5.0	54

The results in Table 7-9 suggest that roofs are a larger source of zinc than other source areas and that the runway/ramp area is a larger source of copper. The total copper loads for the parking lots and airport operations are similar and there is no statistical difference between them. 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. Table 7-9 also shows the relationships between pollutant source areas and the sampling sites.

TABLE 7-9 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	1.63
			Copper, Dissolved	0.95
			Zinc, Total	5.90
			Zinc, Dissolved	4.10
Roof Runoff	S-B07-6, S-B08-8, S-B12-7	40	Copper, Total	16.61
			Copper, Dissolved	10.49
			Zinc, Total	140.71
			Zinc, Dissolved	126.69
Runway/Ramp	S-B03-10, S-B06-11, S-B08-9	320	Copper, Total	187.01
			Copper, Dissolved	148.88
			Zinc, Total	72.29
			Zinc, Dissolved	63.78
Airport Operations	S-B06-12, S-B08-14, S-B12-13	90	Copper, Total	1.28
			Copper, Dissolved	0.63
			Zinc, Total	3.33
			Zinc, Dissolved	2.73

The FY07-08 wet weather 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 stormwater discharges. The Authority has initiated capital improvement program (CIP) project # 104057, Stormwater Management Pilot Projects, to identify and implement structural BMPs to address these to pollutant source areas.

The BMP effectiveness element of the wet weather monitoring program is designed as a 6-year study, with the first 3 years dedicated to study calibration and the following 3 years designed to evaluate the implementation of various

of BMP treatment options. The element of the program is still in the calibration phase, since the FY07-08 wet weather monitoring season is only the second year for collecting any samples for this element of the plan. As such, there is no reason to further discuss the BMP effectiveness element of the wet weather monitoring program in this Annual Report.

7.5 FOLLOW-UP AND ENFORCEMENT

Each of the IDDE incidents listed in Table 7-2 were resolved in the manner noted in Appendix B. Virtually all of the incidents noted in Table 7-2 and described in Appendix B were addressed immediately in the field at the time the incident was reported. Whenever an illegal discharge/illicit connection 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 1 incident identified by the Authority IDDE program in Table 7-2 as a unauthorized discharge involved the improper containment of aircraft wash water. The March 6, 2008 incident was observed in the field by staff from the Airside Operations Department. Staff immediately brought to issue to the attention of responsible party, and the responsible party stopped the discharge immediately. The Environmental Affairs Department followed up by contacting the responsible party to ensure continued proper aircraft washing activities and to prevent a re-occurrence.

There were three IDDE incidents involving "petroleum spills on the landside" for which the Environmental Affairs Department issued written notices. A written notice was issued to Alamo Rent-a-Car, Incorporated, for an incident that occurred on August 9, 2007. Two written notices were issued to Hertz Corporation for separate incidents that occurred on October 31, 2007, and January 18, 2008. Although each incident was cleaned up immediately, the written notices requested that the responsible parties submit a report detailing: 1) the events related to the illegal discharge, including the cause, type of material discharged, and the source of the material discharged; 2) the procedures that will be implemented to prevent the reoccurrence of such unauthorized discharges and a list of BMPs that will be employed; and 3) the methods and proposed schedule for ensuring

that all company personnel are properly informed of the SDCRAA Storm Water Code and the BMPs required for use in conducting their daily activities. The written notices also advised the responsible parties of the potential future consequences should they fail to act appropriately.

None of the IDDE incidents that occurred during this reporting period required additional follow-up or enforcement actions beyond the actions described above.

7.6 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Illicit Discharge Detection and Elimination Component of the SWMP since that time.

8 EDUCATION COMPONENT

8.1 INTRODUCTION

The Authority's stormwater education and outreach program is designed to measurably increase the awareness of target populations with respect to the storm drain system, the impacts of urban runoff on receiving waters, and the variety of BMPs required for use at the airport that are intended to help prevent and/or eliminate stormwater quality problems. 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, and thereby lead to a reduction in pollution draining to the storm drain system and San Diego Bay.

The education and outreach program is targeted towards Authority staff and airport tenants, as well as the general public. The programs focus on elements of the SWMP, including development planning, construction activities, municipal activities, and industrial/commercial activities. Section 10 of the SWMP provides a general description of the content, form, and frequency of training developed for Authority staff, airport tenants, school children, and the general public, as applicable. While the Authority has no residential land use within our jurisdiction, we support and participate, where reasonable, in the Copermittee's regional outreach efforts to the residential communities. The following sections describe the education and outreach activities conducted by the Authority during FY07-08.

8.2 STAFF TRAINING ELEMENT

The stormwater training programs developed by the Authority are designed to provide information appropriate to the duties and activities of the particular audience. In brief, the training typically addresses: 1) laws, regulations, and permit requirements; 2) urban runoff concepts; 3) BMPs and requirements for use; 4) illicit discharges, inspections, and reporting; and 5) other water conservation and pollution prevention concepts.

Table 8-1 presents the education and outreach activities directed at Authority staff during FY07-08.

TABLE 8-1 EDUCATION ACTIVITIES FOR AUTHORITY EMPLOYEES DURING FY07-08

Program Element	Description of Activities	Estimated Audience Size*
Authority Webpage	Environmental Affairs webpage includes information on the Authority's stormwater program and the SWMP (www.san.org/environmental).	Up to 300
	Airport Recycling Guide, Pollution Prevention information, and Energy Savings Checklist remain posted on the intranet and internet.	
	October 2, 2007 – February 4, 2008. A draft Environmental Impact Report for the Airport Master Plan is available on Authority's webpage.	
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 on-going.	
	October 1, 2007 – January 30, 3008. Salvation Sacks (made of re-used materials) displayed in lower level of Terminal 2-East, pre-security.	
Brochures	Recycling Guide provided in 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.	Up to 300
	"Don't Trash California" Anti-Litter Campaign PSA aired in Terminal 2-West baggage claim area.	

TABLE 8-1 EDUCATION ACTIVITIES FOR AUTHORITY EMPLOYEES DURING FY07-08

Program Element	Description of Activities	Estimated Audience Size*
Media News Releases	August 18, 2007. News release announces "San Diego International Airport teams up with Surfrider Foundation to fight cigarette litter."	Up to 300
	February 13, 2008. News release announces "Special joint Airport Authority/Metropolitan Transit System ceremony to showcase cleaner, easier way to get to the airport." MTS Route 992 buses powered by compressed natural gas.	
	May 12, 2008. News release announces "Opening of newest assistance animal/pet relief area at San Diego International Airport."	
	May 29, 2008. News release announces "San Diego International Airport celebrates the environment with exhibits by local glass artist and WiLDCOAST organization." Supports local and international efforts for environmental sustainability.	
E-mail Announcements/ Tenant Advisories	August 2, 2007. Tenant Advisory discussing the unauthorized removal of trash and recyclable items from airport containers.	Up to 300
	September 7, 2007. Tenant Advisory announcing the dates for the End-of-Summer Clean-up Event.	
	September 12, 2007. E-mail to entire staff announcing the date for the California Coastal Cleanup Day.	
	September 24, 2007. E-newsletter to entire staff discussing the results of California Coastal Cleanup Day.	
	October 31, 2007. Tenant Advisory announcing the start of the Litter Bugs campaign.	
	November 14, 2007. Tenant Advisory announcing the airfield sweeping and scrubbing schedule.	
	December 13, 2007. Tenant Advisory giving tips for holiday pollution prevention and announcing the upcoming First Quarterly Electronic Waste Collection Event.	
	February 1, 2008.Tenant Advisory announcing the dates for the Second Quarterly Electronic Waste Collection Event.	
	February 1, 2008. E-mail to entire staff announcing the amount of waste collected at the First Quarterly Electronic Waste Collection Event and announcing the dates for the upcoming, Second Quarterly event.	

TABLE 8-1 EDUCATION ACTIVITIES FOR AUTHORITY EMPLOYEES DURING FY07-08

Program Element	Description of Activities	Estimated Audience Size*
E-mail Announcements/ Tenant Advisories	April 15, 2008. Tenant Advisory reminding employees of the dates for the Second Quarterly Electronic Waste Collection Event.	Up to 300
	April 17, 2008. Tenant Advisory announcing the sweeping/scrubbing schedule for 2008.	
Annual Open House	June 12, 2008. Provided outreach and training materials regarding the Authority's stormwater management program at Divisional Open House.	Up to 300
Department Meetings	Environmental Affairs Staff attendance at Facilities Maintenance Department – Monthly Status Meetings: July 31, 2007 November 26, 2007 April 29, 2008 August 28, 2007 January 29, 2008 May 27, 2008 September 25, 2007 February 26, 2008 June 24, 2008 October 30, 2007 March 25, 2008	Up to 40
Targeted Training for Specific Employees	June 24, 2008. ARFF – Presentation regarding Foam and Purple K testing.	15
Special Presentations	September 15, 2007. 23rd Annual California Coastal Cleanup Day.	12
	April 28, 2008. 6th Annual Creek to Bay Cleanup Event.	14
Attendance at external professional training/ workshops	August 20 -23, 2007. STORMCON, Phoenix, AZ	2
	September 10-12, 2007. CASQA Annual Conference, Costa Mesa, CA.	3
	January 11, 2008. CASQA Annual Regulatory Update, San Diego, CA.	3
	January 15, 2008. BMPs for Pesticide Runoff, Irvine, CA.	1
	January 29, 2008. Coming Clean, Going Green: A Waste Reduction & Recycling Workshop, San Diego, CA.	3
	February 25 & 27, 2008. San Diego County LID Requirements, San Diego, CA	1
	April 3, 2008. Low Impact Development Tour, San Diego, CA.	1
	April 30, 2008. Current Issues in Storm Water Regulation in California, San Diego, CA.	1
	May 9, 2008. CASQA Source Control – Opportunities and Challenges for Stormwater Program, Ontario, CA.	1
	May 30, 2008. CASQA Stormwater Program Effectiveness Assessment Training, San Diego, CA.	1

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

8.3 EDUCATIONAL OUTREACH ELEMENT

In addition to Authority staff, the stormwater education program is also designed to reach the other target audiences required by the Municipal Permit, with the one exception noted above: there are no specific efforts directed at the "residential community." As such, the remaining audiences addressed by the education component of the SWMP include: the general public and school children; 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.

Again, Section 10 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 8-2 through 8-4 present information relative to the education efforts directed at the following composite audiences during FY07-08:
a) the general public and school children; b) airport industrial, commercial, and quasi-governmental agency tenants; and c) construction project managers, developers, and contractors.

8.4 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Education Component of the SWMP since that time.

TABLE 8-2 EDUCATION ACTIVITIES FOR THE PUBLIC AND SCHOOL CHILDREN DURING FY07-08

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.	10s of thousands
	Airport Recycling Guide and Pollution Prevention information remain posted on the internet.	
	October 2, 2007 – February 4, 2008. A draft Environmental Impact Report for the Airport Master Plan is available on Authority's webpage.	
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.	
	October 1, 2007 – January 30, 3008. Salvation Sacks (made of re-used materials) displayed in lower level of Terminal 2-East, pre-security.	
Brochures	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.	100s of thousands
	"Don't Trash California" Anti-Litter Campaign PSA aired in Terminal 2-West baggage claim ares.	
Media News Releases	August 18, 2007. News release announces "San Diego International Airport teams up with Surfrider Foundation to fight cigarette litter."	100s of thousands
	February 13, 2008. News release announces "Special joint Airport Authority/Metropolitan Transit System ceremony to showcase cleaner, easier way to get to the airport." MTS Route 992 buses powered by compressed natural gas.	
	May 12, 2008. News release announces "Opening of newest assistance animal/pet relief area at San Diego International Airport."	
	May 29, 2008. News release announces "San Diego International Airport celebrates the environment with exhibits by local glass artist and WiLDCOAST organization." Supports local and international efforts for environmental sustainability.	

TABLE 8-2 EDUCATION ACTIVITIES FOR THE PUBLIC AND SCHOOL CHILDREN DURING FY07-08

Program Element	Description of Activities	Estimated Audience Size
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 support the "Common Grounds" water quality monitoring database.	
	Continued 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 23rd Annual California Coastal Cleanup Day Event held September 15, 2007.	
	Continued collaboration with local government agencies, universities, and businesses on the "San Diego Regional Sustainability Partnership" with one focus being natural resource conservation and protection.	
	Continued 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 6th Annual Creek to Bay Cleanup Event held April 28, 2008.	
	Collaboration with Port Authority to staff a booth at Earth Day festival at Imperial Beach Pier, held April 30, 2008.	
	Collaboration with the San Diego County Copermittees to staff a booth at the San Diego County Fair, held from June 14 through June 30, 2008.	
Special Presentations	October 17, 2007. Presentation to the "Aaron Price Fellows" group of high school students regarding environmental issues at the Airport.	35
	January 29, 2008. Presentation at "Coming Clean, Going Green! - A Waste Reduction and Recycling Workshop."	Up to 200
	May 30, 2008. Presentation at Ocean View Hills School focusing on careers in the environmental field, as well as stormwater pollution prevention, recycling, and endangered species at SDIA.	60

TABLE 8-3 EDUCATION ACTIVITIES FOR AIRPORT INDUSTRIAL, COMMERCIAL, AND QUASI-GOVERNMENTAL AGENCY TENANTS DURING FY07-08

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.	1,000s
	Airport Recycling Guide and Pollution Prevention information remain posted on the internet.	
	October 2, 2007 – February 4, 2008. A draft Environmental Impact Report for the Airport Master Plan is available on Authority's webpage.	
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.	
	October 1, 2007 – January 30, 3008. Salvation Sacks (made of re-used materials) displayed in lower level of Terminal 2-East, pre-security.	
Brochures	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.	1,000s
	"Don't Trash California" Anti-Litter Campaign PSA aired in Terminal 2-West baggage claim area.	
Media News Releases	August 18, 2007. News release announces "San Diego International Airport teams up with Surfrider Foundation to fight cigarette litter."	1,000s
	February 13, 2008. News release announces "Special joint Airport Authority/Metropolitan Transit System ceremony to showcase cleaner, easier way to get to the airport." MTS Route 992 buses powered by compressed natural gas.	
	May 12, 2008. News release announces "Opening of newest assistance animal/pet relief area at San Diego International Airport."	
	May 29, 2008. News release announces "San Diego International Airport celebrates the environment with exhibits by local glass artist and Wild Coast organization." Supports local and international efforts for environmental sustainability.	

TABLE 8-3 EDUCATION ACTIVITIES FOR AIRPORT INDUSTRIAL, COMMERCIAL, AND QUASI-GOVERNMENTAL AGENCY TENANTS DURING FY07-08

Program Element	Description of Activities	Estimated Audience Size
Tenant Advisories	August 2, 2007. Tenant Advisory discussing the unauthorized removal of trash and recyclable items from airport containers.	1,000s
	September 7, 2007. Tenant Advisory announcing the dates for the End-of-Summer Clean-up Event.	
	October 31, 2007. Tenant Advisory announcing the start of the Litter Bugs campaign.	
	November 14, 2007. Tenant Advisory announcing the airfield sweeping and scrubbing schedule.	
	December 13, 2007. Tenant Advisory giving tips for holiday pollution prevention and announcing the upcoming First Quarterly Electronic Waste Collection Event.	
	February 1, 2008. Tenant Advisory announcing the dates for the Second Quarterly Electronic Waste Collection Event.	
	April 15, 2008. Tenant Advisory reminding employees of the dates for the Second Quarterly Electronic Waste Collection Event.	
	April 17, 2008. Tenant Advisory announcing the sweeping/scrubbing schedule for 2008.	
Tenant Safety Committee Meetings	Environmental Affairs Department presented stormwater management program updates at Tenant Safety Committee meetings: July 4, 2007 November 7, 2007 March 5, 2008 August 1, 2007 December 5, 2007 April 2, 2008 September 5, 2007 January 2, 2008 May 7, 2008 October 3, 2007 February 6, 2008 June 4, 2008	358
Lindbergh Airport Managers Committee (LAMC) Meetings	Environmental Affairs Department presented stormwater management program updates to airline station managers at monthly LAMC meetings: July 27, 2007 November 14, 2007 April 16, 2008 August15, 2007 January 9, 2008 May 21, 2008 September 19, 2007 February 20, 2008 June 18, 2008 October 17, 2007 March 12, 2008	76
Targeted Training/ Presentations for Specific Tenant Groups	March 13, 2007. RAC Local Management Meeting – spill response and the use of Pacific Highway Lot for RAC overflow parking.	20
	February through March, 2008. Stormwater Management Plan Training – presented information regarding stormwater pollution and BMPs to airport tenants on an individual basis.	31

TABLE 8-4 EDUCATION ACTIVITIES FOR AIRPORT CONSTRUCTION PROJECT MANAGERS, DEVELOPERS, AND CONTRACTORS DURING FY07-08

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.	100s
	Airport Recycling Guide and Pollution Prevention information remain posted on the internet.	
	October 2, 2007 – February 4, 2008. A draft Environmental Impact Report for the Airport Master Plan is available on Authority's webpage.	
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.	
	October 1, 2007 – January 30, 3008. Salvation Sacks (made of re-used materials) displayed in lower level of Terminal 2-East, pre-security.	
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.	1,000s
	"Don't Trash California" Anti-Litter Campaign PSA aired in Terminal 2-West baggage claim area.	
Direct Contact through Project Meetings and Inspections	Environmental Affairs Department staff attendance at Pre-Construction meetings: 6 meetings	120
	Environmental Affairs Department staff attendance at regularly scheduled Project Progress meetings: 61 meetings	712
	Environmental Affairs Department follow-up meetings to site inspections and tailgate meetings. Typically, one-on-one with construction contract site supervisor: 135 meetings	135

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9 PUBLIC PARTICIPATION COMPONENT

9.1 INTRODUCTION

The Authority has established two main goals for the public participation element of the 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 8 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 FY07-08 are described here.

9.2 PUBLIC PARTICIPATION ELEMENT FOR AUTHORITY STAFF AND AIRPORT TENANTS

In addition to daily interactions between the Authority staff and the airport tenants, several mechanisms were used during the reporting period to provide staff and airport tenants 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 six public participation mechanisms for tenants and Authority staff during the reporting period are summarized here.

9.2.1 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 FY07-08, the Board held a combined total of 50 general and subcommittee meetings.

9.2.2 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 the January 16, 2008 meeting.

9.2.3 TENANT SAFETY COMMITTEE

The Tenant Safety Committee is another opportunity to encourage 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 11 meetings during FY07-08.

9.2.4 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.

9.2.5 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 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 approximately 50,000 hits during FY07-08.

9.2.6 OUTREACH EVENTS FOR AIRPORT TENANTS AND AUTHORITY STAFF

Outreach events allow the Environmental Affairs Department and airport tenants and Authority staff to exchange information, ideas, and opinions about general stormwater management issues and issues 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 FY07-08, the Authority participated in one outreach events that allowed the Environmental Affairs Department to share concerns about proper stormwater management at SDIA with staff. On June 12, 2008, the Environmental Affairs Department provided educational materials about stormwater management to Authority staff at the Annual Divisional Open House.

During FY07-08, the Authority also conducted outreach to 31 individual airport tenants. From February through March of 2008, the Environmental Affairs Department provided training regarding the revision being made to the SWMP in response to the re-issued Municipal Permit. The training covered stormwater runoff, potential pollutant sources and BMPs applicable to their individual areas and operations.

The Authority also promoted two local watershed cleanup events during the reporting period. These two events drew participation by Authority staff and their families, namely: a) the 23rd Annual California Coastal Cleanup Day on September 15, 2007; and b) the 6th Annual Creek to Bay Cleanup Event held April 28, 2008.

9.3 PUBLIC PARTICIPATION ELEMENT 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.

9.3.1 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 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 FY07-08, the Board held a combined total of 50 general and subcommittee meetings.

9.3.2 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 39 general, subcommittee, and workgroup meetings during FY07-08.

9.3.3 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 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 approximately 50,000 hits during FY07-08.

9.3.4 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.

9.3.5 AUTHORITY 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.

9.3.6 COPERMITTEE'S PUBLIC HOTLINE

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.

9.3.7 OUTREACH EVENTS FOR THE GENERAL PUBLIC

Similar to the previous discussion of outreach events, 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 FY07-08, 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. All three of these efforts began during FY04-05 and continued through FY05-06, FY06-07 and FY07-08. The Authority 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 volunteer citizens water quality monitoring program. 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. The San Diego County Regional Airport Authority teamed up with the Surfrider Foundation to participate in "Hold On To Your Butt Day" Saturday August 17, 2007. The event helped to raise awareness of, and reduce litter from, discarded cigarette butts. Airport Authority employees spent four hours in and in front of the airport terminals handing out "personal cigarette ashtrays," bumper stickers and information cards to airport visitors in order to educate smokers at the airport that their improperly disposed of cigarette butts can end up as pollution in San Diego Bay.

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 fall of 2006 and extending through the spring of 2008.

Throughout FY07-08 the Authority continued to partner with local government agencies, universities, and businesses in the "San Diego Regional Sustainability Partnership," with one focus of the partnership being natural resource conservation and environmental protection. On January 29, the Authority and the City of San Diego sponsored a workshop on behalf of the Partnership entitled "Coming Clean, Going Green." The workshop was designed to help businesses and organizations develop effective waste reduction programs.

On April 30, 2008 the Authority participated in the first annual Imperial Beach Earth Day Event. Four hundred (400) students from Imperial Beach and San Ysidro Elementary Schools attended and received education on various environmental issues including stormwater runoff. Authority staff partnered with Port of San Diego staff to run an interactive Environscape watershed model which helped explained the sources of stormwater runoff to the school children who attended. The Authority also provided recycled paper notebooks for all 400 the students who participated in the Environscape watershed model educational activity.

May 29, 2008, the Authority hosted an reception in the airport terminals to celebrate a pair of art displays. One display featured scientific illustrations by Nancy Arthur-McGehee (with the National Oceanic and Atmospheric Administration), created as part of the California Cooperative Oceanic Fisheries Investigations (CAL-COFI), which is the longest running ecological study in the world. The second display, presented on the airport Children's Art Wall, featured an artistic exchange between children from Mayumba Gabon, Africa, and five San Diego area schools, entitled "Protect Our Ocean's Animals." The Protect Our Ocean's Animals project was coordinated by WiLDCOAST.

On May 30, 2008 Authority Staff partnered with staff from the City of Chula Vista to give a presentation to 60 students from Ocean View Hills School. The presentation focused on stormwater pollution and prevention.

And finally, on June 28, 2008 Authority staff participated in the San Diego County Fair Regional Outreach Event at the Del Mar Fair. Think Blue survey cards were distributed to 13,028 people.

9.4 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Public Participation Component of the SWMP since that time.

10 FISCAL ANALYSIS COMPONENT

10.1 INTRODUCTION

The Municipal Permit requires the Authority to demonstrate sufficient financial resources to implement the SWMP. The San Diego County Regional Airport Authority Act, the Authority's enabling legislation, frames the financial parameters of the Authority. As a financially self-sufficient agency, the Airport Authority does not rely on taxpayer dollars or any city or County funds to operate. The Authority's FY08-09 budget totals $158,180,000. The fiscal analysis presented here relates only to implementation of the stormwater management program and includes the expenditures for FY07-08, the budget for FY08-09, the source of the funds, a description of the use of these funds, and any legal restrictions on the use of the funds.

The bulk of expenditures related to the implementation of the SWMP pass through the Environmental Affairs and Facilities Maintenance Departments. The Environmental Affairs Department is responsible for administrative functions within the stormwater 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.

The Facilities Maintenance Department is responsible for the operation and 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.

The remaining expenditures flow through the Authority's Capital Improvement Program (CIP). The Capital Improvement Program is a rolling 3 to 5 year program that provides for critical improvements and asset preservation, including environmental pollution prevention needs. Funding sources for the projects include federal Airport Improvement Program (AIP) grants, passenger facility charges (PFCs), airport operating revenues, airport revenue bonds, and short-term borrowing using commercial paper.

10.2 FISCAL YEAR 2007-2008 EXPENDITURES

Financial resources expended to implement the SWMP are allocated into 4 components, namely: administration; education; O&M; and capital improvements. The annual costs for the activities under each of these components falls into one of the following expense categories: personnel, non-personnel, or CIP.

The total expenditures for implementation of the SWMP in FY07-08 was $2,830,325. The expenses for FY07-08 are shown in Table 10-1 according to expense category. A total of $1,060,000 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 $295,000 and the staff time for the Facilities Maintenance Department equated to an allocation of $765,000.

Non-personnel expenses represent permit fees and contracted services necessary to implement and maintain all the program activities listed in Table 10-1, including professional services, site and infrastructure cleaning and maintenance, training, and education and public outreach efforts. Total expenditures for Non-Personnel items during FY07-08 were $1,681,450.

TABLE 10-1 STORM WATER MANAGEMENT PROGRAM EXPENDITURES FOR FY07-08

Description	Costs
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	$4,375
2. Professional Services	
a. Legal	$0
b. Consulting	$293,100
3. Routine Maintenance	$49,725
4. Ramp Cleaning/Runway Rubber Removal	$679,025
5. Landscape Maintenance	$265,425
6. MS4/BMP Cleaning/Maintenance	$91,750
7. Street Sweeping	$65,000
8. Parking Lot Sweeping	$125,000
9. Hazardous Waste Disposal	$36,625
10. Equipment Purchases	$1000
11. Education, Training, and Public Outreach	$70,425
Subtotal	$1,681,450
C. Capital Improvement Program Expenses	
1. CIP #104022-General Dynamics Lot and Dust Mitigation Project	$57,000
2. CIP #104055- Solid Waste Disposal and Recycling Facility Upgrades	$12,950
3. CIP #104057 - Stormwater Management Pilot Projects	$18,925
Subtotal	$88,875
GRAND TOTAL	$2,830,325

In FY07-08, the Authority budgeted funds to 3 CIP projects related to the stormwater management program, namely: 1) CIP Project #104022 - General Dynamics Lot and Dust Mitigation Project; 2) CIP Project #104055 - Solid Waste Disposal and Recycling Facility Upgrades; and 3) CIP Project #104057 - Stormwater Management Pilot Projects. Total expenditures for the CIP Projects during FY07-08 were $88,875.

10.3 FISCAL YEAR 2008-2009 BUDGET

Table 10-2 presents the projected budget to implement the SWMP for FY08-09, which totals $3,604,450. A total of $1,092,000 is allocated for the combined staff time of the Environmental Affairs Department and the Facilities Maintenance Department.

A total of $1,620,050 is allocated for Non-Personnel expenses in FY08-09, including professional services, site and infrastructure cleaning and maintenance, training, and education and public outreach efforts.

The remainder of the FY07-08 budget, $863,000, represents the 3 CIP Projects noted in Table 10-1 above, namely: 1) CIP Project #104022 - General Dynamics Lot and Dust Mitigation Project; 2) CIP Project #104055 - Solid Waste Disposal and Recycling Facility Upgrades; and 3) CIP Project #104057 - Stormwater Management Pilot Projects.

10.4 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Fiscal Analysis Component of the SWMP since that time.

TABLE 10-2 STORM WATER MANAGEMENT PROGRAM BUDGET FOR FY08-09

Description	Costs
A. Personnel Expenses	
1. Environmental Affairs Department	$304,000
2. Facilities Maintenance Department	$788,000
Subtotal	$1,092,000
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	$545,000
5. Landscape Maintenance	$200,000
6. MS4/BMP Cleaning/Maintenance	$122,850
7. Street Sweeping	$60,000
8. Parking Lot Sweeping	$130,000
9. Hazardous Waste Disposal	$75,000
10. Equipment Purchases	$4,200
11. Education, Training, and Public Outreach	$48,000
Subtotal	$1,620,050
C. Capital Improvement Program Expenses	
1. CIP #104022-General Dynamics Lot and Dust Mitigation Project	$54,000
2. CIP #104055- Solid Waste Disposal and Recycling Facility Upgrades	$373,000
3. CIP #104057 - Stormwater Management Pilot Projects	$436,000
Subtotal	$863,000
GRAND TOTAL	$3,604,450

11 EFFECTIVENESS ASSESSMENT COMPONENT

11.1 INTRODUCTION

The Authority continues to evaluate the effectiveness of the stormwater management program in both the short-and long-term. The San Diego Municipal Copermittees 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. In 2003, 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 the 2007 re-issued Municipal Permit. The Framework allows the Authority to conduct an assessment of: a) 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 Authority's stormwater management program during FY07-08 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.

11.2 EFFECTIVENESS ASSESSMENT RESULTS

11.2.1 NARATIVE ASSESSMENT OF PROGRAM COMPONENTS

Chapters 2 through 10, and 13 of this report outline the Authority's implementation of program components during FY07-08. 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 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 of the SWMP are the backbone of the stormwater management program at the airport. Chapter 5 identifies 2 changes to the inventory of industrial operations - with one new tenants being added and one tenant being deleted.

The Land Use Planning Component of the SWMP focused on adoption of the Airport Master Plan and the implementation of the Authority's SUSMP process. As noted in Chapter 2 of this Annual Report, the Airport Master Plan was adopted in May of 2008. None of the development projects initiated at the airport in FY07-08 were subject to the SUSMP process. The Land Use Planning Component of the SWMP remains effective.

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

In general, Chapter 7 notes that illicit discharges are being reported and resolved. This chapter also presents the results of the dry weather and wet weather monitoring programs implemented at the airport. The IDDE Component of the SWMP is considered effective.

The Education Component of the 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 8 of this Annual Report outline the substantial amount of training and outreach conducted during FY07-08. The education and outreach efforts continue to expand in an attempt to strengthen the effectiveness of this component of the program.

Chapter 9 of this Annual Report discusses 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 SWMP.

Finally, Chapter 10 of this Annual Report demonstrates that the Authority has sufficient financial resources to implement the SWMP. The analysis presents the expenditures for FY07-08, the budget for FY08-09, the source of the funds, and a description of the use of these funds.

11.2.2 PROGRAM ASSESSMENT USING THE ASSESSMENT FRAMEWORK

The Authority recognizes the importance of evaluating the effectiveness of program components and the program as a whole. The following assessment of the Authority's 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 is adopting 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 11-1 presents the activity-based requirements of the Permit and the Authority's implementation of these requirements during FY07-08. As shown in Table 11-1, the Authority has met all the activity-based requirements of the Municipal Permit.

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.

TABLE 11-1 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	1	1
	Number of medium/low priority construction sites subject to inspection	9	9
	Number of enforcement actions taken	1	1
	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	23	23
	Quantity of debris and material removed from the MS4 (in cubic yards)	8	8
	Quantity of debris and material captured by street sweeping (in cubic yards)	6	6
F.3.b. Industrial and Commercial	Number of high, medium, or low priority industrial/commercial operations subject to inspection	32	32
	Number of enforcement actions taken	16	16
	Number of operations referred to RWQCB for enforcement of State General Industrial Storm Water Permit	0	0
F.4 Education	Number of stormwater educational materials/ brochures	Not Applicable	460
	Number of stormwater education mechanisms for the general public	Not Applicable	27
	Number of stormwater training mechanisms for staff	Not Applicable	45
	Number of stormwater training mechanisms for tenants	Not Applicable	27
	Number of stormwater training mechanisms for construction project managers, developers, and contractors	Not Applicable	13
F.5 IDDE	Number of dry weather monitoring locations for all of FY07-08	10	10
	Number of IDDE events recorded by all reporting methods	Not Applicable	167
	Number of enforcement actions taken	3	3
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

The Authority used two mechanisms during FY07-08 to assess changes in knowledge and awareness: (1) the IDDE hotline reporting information (Appendix B); and (2) the number of hits to the Authority's environmental webpage.

As discussed in Chapter 7, the IDDE hotline records information on potential unauthorized discharges 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 167 IDDE incidents reported in FY07-08, in comparison to 220 incidents in FY06-07, 257 incidents in FY05-06, and 218 incidents in FY04-05. It is possible that the increasing trend may have reached a plateau and the number of incidents has begun to decline. 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 50,000 hits during the reporting period. This represents an average of approximately 961 hits per week. This rate of weekly hits greatly exceeds the hits per week reported in any previous year with 278 hit reported in FY06-07, 88 hits reported in FY05-06, 370 hits reported in FY04-05, and 120 hits reported in the FY03-04 Annual Report. The significant increase in the number of hits in comparison to previous year may be due to public interest in the release and adoption of the Airport Master Plan. These five 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 the Authority used in each of those years to assess changes in knowledge and awareness of staff and tenants. However, the FY06-07 Annual Report noted that in response to recent community-based social marketing training, the Environmental Affairs Department abandoned the use of a surveys and instead began the use of community-based social marketing to effect and assess changes in knowledge and awareness. The Environmental Affairs Department now uses a pledge on the part of Authority staff and airport tenants as one effective community-based social marketing tool to garner support for the stormwater management program. The Authority's annual Airport-wide Safety Fair is one of the best opportunities to implement this community-based social marketing tool and the pledge was used in FY06-07. Usually held in the summer, the most recent Airport-wide Safety Fair occurred in July of 2008 and the results will be reported in the FY08-09 Annual Report.

The education and outreach efforts of the Authority continue to expand. As seen in Chapters 7 and 8 of this report, these efforts included more terminal displays and signage, more Tenant Advisories, and more training. The impact of these expanded efforts continues to increase Authority staff and airport tenant knowledge and awareness of stormwater pollution prevention.

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.

Previous Annual Reports noted that the Authority had conducted site-wide audits of BMP implementation by the Authority staff and airport tenants in 2005 and 2007. A detailed discussion of site audit program was presented in the effectiveness assessment section of the FY05-06 Annual Report. The same methodology was again used to conduct the audit in 2007. The results of the 2007 audit were documented in the October 2007 Final Site Audit Report prepared by MACTEC.

In short, the 2005 and 2007 site audits contained elements of both the Program Assessment and Water Quality Assessment aspects of the Framework. In terms of Program Assessment, the site audit provided 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 Authority staff and airport tenants. Additionally, it reviewed and continued to develop standardized methods for documenting potential pollutant sources and BMP implementation. The 2005 and 2007 site audits have established a baseline for assessing future changes in behavior and BMP implementation. Our bi-annual audits represent a major step by the Authority to develop a mature program assessment strategy.

The 2007 site audit was organized around the BMP categories contained in the SWMP. During the 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 four general land use categories. Implementation rates alone did not fully describe how well BMPs were implemented by any particular operation. Other factors needed to be considered, such as the complexity of the operations and 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 October 2007 Final Site Audit Report. The results of the 2007 site audit found that: a) no tenant scored a BMP implementation rate of 60% or less (compared to two tenants in the 2005 audit); b) four tenants scored between 61% and 80% (compared to 16 in the 2005 audit); and c) 28 (including the Authority) scored between 81% and 100% (compared to 14 in the 2005 audit). The results indicate an overall improvement in BMP implementation at SDIA. The land use category BMP implementation rates were: a) Commercial at 87% (compared to 64% in the 2005 audit); b) Industrial-Tenant at 86% (compared to 78% in the 2005 audit); c) Industrial - Airport Operations at 84% (compared to 68% in the 2005 audit); and d) Ground Transportation at 78% (compared to 61% in the 2005 audit). These results also indicate improvements in BMP implementation at SDIA. The median implementation frequency for tenants and the Authority combined increased from 77.% in the 2005 audit to 87% in the 2007 audit.

The site audits conducted in 2005 and 2007 identified deficiencies in BMP implementation and provided a list of recommended changes for the Authority's stormwater management program. In response, appropriate modifications were made to the SWMP submitted 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. 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 stormwater quality at the airport. The results of the 2005 site audit also influence the current dry weather and wet weather monitoring programs. The continued development of both the site audit process and the implementation of the SWMP sampling plans (appendix D of the SWMP) 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 Authority is continually evaluating the contribution of specific sources to stormwater runoff at the airport. Based on the site audits, 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 three 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 7, the "source identification sampling element" of the wet weather monitoring program is designed to evaluate sources of the airport's pollutants of concern in terms of annual mass loading in stormwater runoff. Once the sources are well established, the Authority will evaluate the potential for reduction through BMP implementation, and the best combination of sources to address through BMP implementation to achieve pollutant load reductions. Fourteen sampling locations are being used to characterize the quality of non-industrial stormwater runoff associated with vehicle and aircraft use and emissions, atmospheric deposition, and galvanized metal structures, particularly metal roofs. The site audits identified copper and zinc and the primary pollutants of concern and so the source identification element of the wet weather monitoring program focuses on these pollutants.

The Authority conducted source identification sampling during three storm events in the FY07-08 wet weather 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 a roof runoff location were the highest for both total copper and total zinc. The next highest results were from a source representative of the runway. In terms of pollutant sources and mass loading analysis, the annual mass load was calculated for each of the sources being characterized. Results of the analysis showed that roofs appeared to be the larger source of zinc, estimated to be as much as 141 lbs annually. The runway/ramp was the larger source of copper, estimated to be as much as 187 lbs annually. As for the parking lots and airport operations, the parking lots were a larger source of zinc, although estimated at less than 6 lbs annually. The total copper load for both parking lots and airport operations were estimated to be 1.63 lbs and 1.28 lbs respectively. The total copper loads for both parking lots and airport operations are not statistically different. Ranking the pollutant sources from highest to lowest pollutant

load, the sources are 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 Appendix D of the SWMP, 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. However, establishing relationships between discharge quality and specific program components can be difficult. The two 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 two 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 7 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 also presented in Chapter 7 of this report.

The results of the Authority's dry weather monitoring program, presented in Chapter 7 of this report, indicate that there were only 2 sites, out of 10 monitored in FY07-08, at which a sufficient volume of water was present to allow sampling (once field analyses ruled out the likelihood of salt water intrusion). Laboratory analysis of the ponded water at these 2 sites reported total coliforms, copper, and zinc concentrations exceeding action levels during 2 out of 4 sampling events and during the 1 follow up sampling event that was conducted. 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.

Chapter 7 of this Annual Report states that the results of the "compliance sampling element" of the wet weather monitoring program performed at SDIA during the FY07-08 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 pollutants of concern were compared to the benchmarks to determine the number of exceedances that occurred. Ammonia, oil and grease, TSS, total lead, and ethylene glycol did not exceed the benchmarks. BOD, total copper, total zinc, and dissolved zinc exceeded the benchmarks in over 60% of the samples. The remaining pollutants of concern 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 all sample locations during FY07-08.

As previously stated, the Authority wet weather monitoring program (Appendix D-2 of the SWMP) addresses the runoff sampling requirements of the General Industrial Storm Water Permit and provides an indication of discharge quality. In developing the wet weather monitoring program, the Authority evaluated the quality of the existing historic stormwater sampling data set and identified representative sample locations and the amount of data sufficient to provide adequate statistical power in evaluating long-term program effectiveness. Development of the wet weather monitoring program also considered 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 FY07-08 wet weather season is only the second season in which the wet weather monitoring program was conducted in accordance with the SWMP. Over time, a larger dataset 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 San Diego Bay, the water body receiving discharges from the Authority's MS4. 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 were listed 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 looked at bacteria-impaired shorelines in San Diego Bay and Dana Point Harbor. Final technical reports were issued and TMDLs were adopted for both Project I and II in FY07-08. The Authority will address the TMDLs in our own and in copermittees future monitoring programs.

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 FY07-08 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.

11.2.3 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 reports to the IDDE hotline and hits on the environmental page of the Authority website, 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 previous site audits and the results of the FY07-08 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 pollutants of concern 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 discharge water quality information collected in FY07-08 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 and longer time frames generally needed 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. Also discussed in previous Annual Reports, the elements still being assembled include:

Baseline awareness of program requirements;

Pollutant source characterization - activities, pollutant types, required BMPs;

Spatial and temporal monitoring data;

Load reduction estimates (based on activities, pollutant types, rainfall, etc.).

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.

11.2.4 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 FY07-08. 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 airport 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.

11.2.5 WATER QUARLITY IMPROVEMENT OR DEGRADATION

The discharge water quality information discussed above and in Chapter 7 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 FY07-08 also suggest that BOD, and to a lesser extent, COD and total aluminum, may be potential pollutants of concern given the number of times sample concentrations exceeded the benchmarks. The concerns for BOD, COD, and total aluminum suggested by the FY07-08 data do not match historical trends for monitoring data from the airport, but they do match pollutants of concern reported in FY06-07. The results of the dry weather monitoring conducted in FY07-08 also appear to confirm copper and zinc as pollutants of concern and suggest that total coliforms be closely evaluated at discreet airport locations. Continued implementation of the dry weather and wet weather stormwater monitoring programs will lead to future evaluation and validation of discharge water quality at SDIA using trend analysis and other statistical methods.

11.3 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the Effectiveness Assessment Component of the SWMP since that time.

12 SPECIAL INVESTIGATIONS

Since the Authority's wet weathering monitoring program involves activities that go beyond Municipal Permit requirements, the Authority chose to describe these activities in the Special Investigations chapter of the FY06-07 Annual Report. This was the first time the information was presented in the Special Investigations chapter of the report. Prior to the FY06-07 Annual Report, the information had been presented in Chapter 3, Industrial Component of Existing Development, under the heading of "Stormwater Monitoring Related To Industrial Activities." Now that a new Standardized Format for JURMP Annual Reports has been adopted by the Copermittees, and that format includes a section for "Urban Runoff Monitoring" in Chapter 7 (the IDDE Component), the Authority has presented a discussion of the wet weather monitoring program in Chapter 7, section 7.4.2 of this Annual Report. As such, the discussion of the Authority's wet weather monitoring activities which appeared in Chapter 12, Special Investigations, of the FY06-07 Annual Report, has been removed from Chapter 12 of this Annual Report.

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.

13 NON-EMERGENCY FIRE FIGHTING

13.1 INTRODUCTION

Non-emergency fire fighting is discussed in Section 3 of the SWMP. Non-emergency fire fighting flows at SAN generally fall into two categories: a) discharges from building fire suppression systems during installation, maintenance, or testing; and b) discharges of potable water and/or potable water mixed with fire fighting foaming agents from the ARFF rigs during fire fighting practice drills and other exercises. This chapter of the Annual Report provides a brief description of significant non-emergency fire fighting activities that occurred during FY07-08.

13.2 SOURCE CHARACTERIZATION

Potable water that has been left to stand in a building fire suppression system has a significant potential to carry pollutants, especially over time, as the water tends to stagnate and undergo various physical and chemical changes. Potable water and/or potable water mixed with fire fighting foaming agents discharged to the ground during fire fighting training can become a contaminated source of water and/or a transport mechanism for pollutants. Discharges of potable water from the ARFF rigs during fire fighting practice drills and other exercises has the potential to transport pollutants to receiving

waters if the discharge is allowed to flow through areas where significant materials, oil, sediment, trash, and construction debris may potentially be carried into the storm drain system.

13.3 BEST MANAGEMENT PRACTICES REQUIREMENTS

Control measures to address the potential for non-emergency fire fighting flows to transport pollutants to receiving waters are described in Section 3.4 of the SWMP. For fire suppression system flushing, the Authority requires the use of one of the following procedures: 1) capture and/or direct discharge to the sanitary sewer system on or off site; or 2) submission of a workplan signed by a registered civil engineer, detailing how the water will be capture, stored, and tested for water quality, and recommending the treatment necessary prior to discharging to the airport storm drain system.

Fire fighting training by the fire fighters stationed at the ARFF typically involves the discharge of potable water from the ARFF fire fighting vehicles. The Authority requires the use of the applicable non-stormwater management BMPs found in Appendix B of the SWMP to control these discharges. The Authority also list several additional control measures in Section 3.4.3 of the SWMP to control these discharges, the focus of which generally require the discharge of water in a manner and direction that maximizes either or both the time and/or distance required for the discharge to reach the storm drain system, such that the potential for evaporation is maximized, and also prevents the discharge from contacting surface pollutants in the path of the discharge.

ARFF fire fighting vehicles are also flushed for one to two minutes every day using only water, fire fighting foam testing is performed twice a year, and Purple K testing is performed once a year. All three types of testing are performed on a large concrete pad called the north ramp area, just to the east of ARFF facility. The entire north ramp area drains through two oil water separators.

The ARFF staff perform fire fighting foam testing twice a year and chemical suppressant testing once a year using the ARFF fire fighting vehicles. All tests are performed on the north ramp. The foam tests use approximately 1,000 gallons of water and 50 gallons of foaming agent in each vehicle. The chemical suppressant tests only use a few pounds of the material. The

chemical suppressant is discharged as a dry material. Although the entire north ramp drainage area is connected to oil water separators, these systems are only used as a back-up fail-safe. The slit trench storm drain inlet to which the north ramp drains is blocked off from the stormwater conveyance system using sandbags prior to and during the tests. This allows the foam or chemical suppressant to be captured on the north ramp and/or in the slit trench, but prevents the foam or chemical suppressant from entering the stormwater conveyance system. All of the foam or chemical suppressant is flushed into the slit trench and then vacuumed into a tanker truck for proper disposal in the sanitary sewer under proper permits.

13.4 PROGRAM IMPLEMENTATION

Fire fighting foam and or chemical suppressant testing was performed three times during FY07-08. Foam testing was performed on December 12, 2007 and June 26, 2008, and chemical suppressant testing (using a product called Purple K) was performed on May 6, 2008.

13.5 PROGRAM REVIEW AND MODIFICATION

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the non-emergency fire fighting elements of the SWMP since that time.

14 JURMP REVISIONS

As noted in Chapter 1 of this report, the Authority uses the term Storm Water Management Plan (SWMP) when referring to the document prepared in response the Municipal Permit requirements for a Jurisdictional Urban Runoff Management Plan (JURMP). The latest SWMP was submitted to the RWQCB on March 24, 2008. Any needs to revise the SWMP at this time were highlighted at the end of each chapter of this report. Only Chapter 3 (Construction Component) and Chapter 5 (Industrial and Commercial Component) highlighted any needs for revisions and the only revisions required in each chapter were to update the inventory of sources. Appendix D of this report presents July 1, 2008 updates to Table 3 (Monthly Inventory of Active Construction Sites) and Table 5 (Inventory of Industrial/ Commercial Sites/Sources) of the SWMP.

15 CONCLUSIONS AND RECOMMENDATIONS

15.1 INTRODUCTION

The FY07-08 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, FY05-06, and FY06-07, the Authority believes the stormwater management program at SDIA is adequately planned, executed, reviewed, and funded. This chapter summarizes information to support a determination 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.

15.2 CONCLUSIONS

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

15.2.1 OVERALL PROGRAM COMPLIANCE STATUS

Information presented throughout this report, particularly Chapter 11 (Effectiveness Assessment Component), supports a determination that the Authority's stormwater management efforts are in general compliance with the Municipal Permit.

15.2.2 EFFECTIVE STORMWATER MANAGEMENT PROGRAM COMPONENTS

Based on the results of current program implementation and the findings of the FY07-08 effectiveness assessment in Chapter 11, the management measures currently being implemented have proven to be effective.

15.2.3 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 11 did not identify any particular stormwater management program elements in need of improvement.

15.2.4 REVISIONS TO THE SAN SWMP

In response to the re-issued Municipal Permit, the Authority submitted a completely revised SWMP to the RWQCB on March 24, 2008. There have been no revisions to the SWMP since that time.

15.3 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 awareness 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.

15.4 CLOSING

The FY07-08 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

FY07-08 Illicit Discharge Detection and Elimination Report Log

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Log of IDDE Reports to SDIA 24-hour Telephone Fiscal Year 2007-2008		
Subject/Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Landside	07/01/07	08:58 Trash cans are overflowing on the CT taxi stand. Notified SPC.
Trash-Spill Airside	07/02/07	15:51 TSA Supervisor called to report their trash cans T2W Baggage Screening area, rampside needed to be emptied. Second notification to SPC.
Trash-Spill Airside	07/03/07	Bucket of unknown waste liquid was found along the fence area by ExecAir. No responsible party could be found.
Trash-Spill Airside	07/04/07	15:08 TSA Ops advised ADASP will be conducted at various times and areas.
Trash-Spill Landside	07/07/07	19:50 ATO called to report trash cans at WN curbside were overflowing. SPC notified.
Trash-Spill Airside	07/11/07	08:45 Notified Allied Waste that the cardboard compactor is either full or not working. They advised it is due to be picked up on Friday, they will send a mechanic after.
IPM	07/12/07	08:30 Escorted maintenance personnel conducting weed spraying within the airfield movement areas. 09:45 Maintenance finished weed spraying.
IPM	07/13/07	18:57 WN called to report a colony of red ants curbside T1 Baggage Claim entrance. MX and Zebra 3 notified.
Trash-Spill Airside	07/13/07	07:02 Left VM for AA operations that the AA trash cart at Gate 25 is uncovered and needs to be emptied or properly covered. Requested a call back to confirm receipt of message.
IPM	07/17/07	09:40 American mechanic called to report black widow spiders near the tool boxes under gates 27, 31, and 32. Notified Maintenance.
Trash-Spill Airside	07/17/07	08:30 Express Jet called to request ramp scrubbing at the Commuter Ramp particularly spots 5 & 9. Left message with Maintenance.
IPM	07/18/07	08:00 Escorted weed sprayers from B8 to B1. 09:00 Weed sprayers finished.
IPM	07/20/07	06:30 Ground Transportation called to report a bee hive in the Harbor Drive pay parking lot, stall 42. Notified Maintenance.
Sewage	07/20/07	07:15 Responded to Gate 22 in reference to a call from Exec Air regarding a lavatory spill. Lavatory waste was on the ramp prior to them repositioning the aircraft from Gate 20. Advised by ATS that the spill ocurred last night and no action was taken.
Trash-Spill Airside	07/20/07	AirOps contacted EAD regarding a lav waste spill at Gate 22. The spill occurred early in the morning and ATS did not respond to the spill until EAD got involved. Approximately 5-10 gallons of sewage waste was cleaned up.
Petroleum-Spill Airside	07/23/07	09:50 Received a call from Express Jet Manager, reporting there was approximately 1 gallon of hydraulic fluid spilled on the CT ramp near parking spot 3. Express Jet and GAT cleaning up spill. No storm drains affected.
Petroleum-Spill Airside	07/27/07	05:40 Notified by AS of a fuel spill at gate 18. ASIG refueler said that as he was refueling the center tank, fuel began to come out of the left wing vent tube. Less than 5 gallons were spilled and no fuel entered the storm drain system.
Trash-Spill Airside	07/29/07	10:16 SPC reports that the compactor is still full and people are putting trash bags outside the compactor. Contacted Allied Waste and was advised they are en route. Advised SPC and Zebra 2.
Trash-Spill Airside	07/29/07	08:14 SPC reports the trash compactor is full in T2W. Notified MX. 08:28 MX checked for power and found the compactor to be working, but it is full. 08:29 Left message for Allied Waste. 08:56 Allied Waste called and advised someone will be out.
Trash-Spill Airside	07/29/07	07:44 Contact DL Ops to have trash on DL cabin cleaning trucks and ground on W side of T2W emptied or placed inside trucks. Requested a call back from GAT supervisor. 09:29 Observed trash on ground and on DL cabin cleaning trucks still there.
Trash-Spill Airside	07/30/07	08:35 TSA called to advise that the trash cans in bag check 6, rampside, need to be emptied. Notified SPC.
Trash-Spill Airside	07/31/07	13:50 SPC called to report the trash compactor in Terminal 1 was OTS. Notified Allied Waste.
Trash-Spill Airside	07/31/07	13:45 Called Allied Waste to advise T2E trash bin is full and the compactor is OTS. Will send someone out to look at it, as it was dumped this morning.
IPM	08/02/07	21:17 HDP Dispatcher called to report rats climbing on the Bank of America ATM across the US Ticket Counter. MX notified.
Trash-Spill Airside	08/02/07	17:20 Capt. Brown reports that R2 is leaking acid from the batteries. The engine is still operational and MX is cleaning up the acid. Valley Fire rports that he will have a mechanic respond with 2 batteries within an hour to two hours. DAO notified.
Petroleum-Spill Landside	08/04/07	09:09 Observed spill cleanup in process by AA. Small Skydrol spill under rear of AA MD-80 N7518A at gate 30. Storm drains not imapcted.
Trash-Spill Landside	08/04/07	11:51 ATO reports the trash can is full curbside near AA check-in area. Notified SPC.
Trash-Spill Landside	08/07/07	17:39 Trash cans curbside at the CT are overflowing. Notified SPC.
Petroleum-Spill Landside	08/09/07	11:25 ATO Supervisor called to report a large oil spill at the T1 courtsey island. Requested maintenance to take some absorbent. 12:00 Maintenance called to advise it is more than a leak. 12:15 Noted that 7 adults and 1 child have fallen in the area.
Trash-Spill Landside	08/09/07	12:25 ATO called to report trash that the seagulls have gotten into next to the USO in the parking lot needs to be cleaned up. Notified Lindbergh Parking.

Log of IDDE Reports to SDIA 24-hour Telephone Fiscal Year 2007-2008		
Subject/Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Airside	08/10/07	08:17 Contacted DL Ops to have trash on DL cabin cleaning trucks emptied. DL advised compactor full. 08:27 Checked an observed compactor being replaced with empty, advised DL Ops.
Trash-Spill Airside	08/14/07	08:30 SPC called to report that the trash compactor is not working, but is empty at Terminal 1. Notified Maintenance, who checked and advised that Allied Waste mechanic was on-site.
Trash-Spill Airside	08/14/07	04:45 Contacted Allied Waste Disposal for repair to trash compactor located near Terminal 1 East. The compactor is not cycling.
Trash-Spill Airside	08/15/07	09:48 XE Ops called to advise of a Bio-Hazard bag outside of their office for proper disposal. Notified SPC.
Trash-Spill Landside	08/18/07	08:17 Trash cans are full on the CT transportation island. Notified SPC.
Trash-Spill Landside	08/19/07	14:09 ATO called to report trash on the ground T2 Curbside near the Cross Walk. SPC notified.
Petroleum-Spill Airside	08/21/07	06:30 Received a call from TSA that an AA tug leaked oil near door T2E1T0 and employees were slipping. The spill is near the NW carousel. Notified Maintenance.
Trash-Spill Airside	08/22/07	14:15 Left voicemail for AA Ops to cover or empty trash cart between gate 25 and 27.
Trash-Spill Landside	08/22/07	10:45 Trash cans in employee parking lot need to be emptied. Contacted and advised LPI.
Petroleum-Spill Airside	08/23/07	16:06 MX advised they need Ocean Blue to clean up the hydraulic fluid spill due to it being more than 5 gallons. Ocean Blue notified.
Petroleum-Spill Airside	08/23/07	16:04 MX advised that Allied Waste Disposal needs to be contacted due to a broken hydraulic line in the T2W trash compactor. Allied Waste Disposal notified.
Trash-Spill Airside	08/23/07	15:47 HMS Host called to report grease or oil is leaking from the T2W Loading Dock Trash Compactor. MX notified.
Trash-Spill Landside	08/27/07	17:22 ATO called to report trash near the cross walk at the CT. SPC notified.
Trash-Spill Airside	08/28/07	08:22 Pacific Western called to report trash scattered around the ramp near Gate 21. Notified SPC.
Trash-Spill Airside	08/29/07	13:53 HMS reports the cardboard compactor in T2W is OTS. Contacted MX. 14:06 MX advised that it is a hydraulic problem. Contacted Allied Waste.
Trash-Spill Landside	08/29/07	08:17 From Paging Officer - SPC to cleanup dog waste at curbside Northwest Airlines.
Trash-Spill Airside	08/31/07	15:24 HMS Host called to report the Trash Compactor T2W was not working. MX notified.
Trash-Spill Airside	08/31/07	07:39 SPC advised the trash compactor is missing for T1. Per Airport 10, that compactor will be back in place in approximately 1 hour due to the area being cleaned. Trash will need to be taken to T2, advised SPC.
Trash-Spill Landside	08/31/07	16:55 HPD Dispatcher called to report the trash cans T1 Curbside needed to be emptied. SPC notified.
IPM	09/07/07	12:25 JR/B6 called to report a gnat bug problem in their break room. MX notified.
Trash-Spill Airside	09/07/07	09:25 Contacted AA Ops that AA trash cart on AOA at Gate 25 needs to be emptied or covered at all times.
Trash-Spill Airside	09/10/07	10:29 US called to report vomit in jetway 34. Notified SPC.
Trash-Spill Airside	09/10/07	07:40 Contacted Allied Waste in reference to a broken cycle switch on the Host dumpsters between T2E and T2W. Advised that he would dispatch a mechanic.
Trash-Spill Airside	09/10/07	10:36 US called again to report that the vomit has not been cleaned up yet and that they are ready to board the aircraft. Notified SPC and WT.
Trash-Spill Landside	09/10/07	09:27 Spill curbside T2E across from the flagpole. Notified SPC.
Sewage	09/12/07	22:30 Notified by GAT of a lavatory spill at gate 35. Lavatory truck had a malfunctioning valve and spilt entire load on ramp. Ocean Blue notified for clean-up. Environmental advised of situation. 23:10 Ocean Blue on site.
IPM	09/13/07	08:30 Escorted maintenance conducting weed spraying within the ovals. Completed all mvoement area ovals south fo the runway and north of the runway from taxiways C4 to C2. 10:45 Weed spraying completed.
IPM	09/16/07	07:34 TSA reports there are rats in the bag screening area under checkpoint 6. Notified MX.
Petroleum-Spill Landside	09/16/07	07:51 ATO reports a National Rent-A-Car bus is leaking fuel on the transportation islands. Notified MX.

Log of IDDE Reports to SDIA 24-hour Telephone Fiscal Year 2007-2008		
Subject/Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Airside	09/17/07	10:45 Escorted Pacific Waste rep on the AOA to advise him where to place the extra dumpsters for the end of summer clean-up event. 11:15 Pacific Waste finished.
Trash-Spill Airside	09/18/07	03:50 Left a message for Allied Waste regarding the compactor at T1. The compactor has power but is not cycling.
Petroleum-Spill Airside	09/29/07	16:16 Delta reports a spill at Gate 39. SPC was notified.
Trash-Spill Landside	10/02/07	13:20 ATO called to report a taxi cab leaked fluid curbside by United. Notified Maintenance.
Trash-Spill Airside	10/03/07	09:32 Left voicemail with AA Ops, two trash carts between gates 25 and 27 uncovered. Advised trash required to be emptied or covered.
Petroleum-Spill Airside	10/06/07	07:53 WN reports the compactor is leaking oil or transmission fluid. Contacted MX and Allied Waste.
Trash-Spill Airside	10/06/07	11:50 CO reports there are dog feces near gate 33. Notified SPC.
Trash-Spill Airside	10/14/07	08:56 Contacted DL Ops, 2 DL cabin cleaning trucks with trash need to be emptied. 09:17 Contacted DL Ops, second call on trash.
Trash-Spill Airside	10/14/07	09:00 Left voicemail for AA Ops, trash cart on AOA at gate 25 needs to be covered or emptied. 09:20 Requested AA to cover or empty trash.
Petroleum-Spill Airside	10/15/07	20:57 SPC advised the T1 Trash Compactor was leaking hydraulic fluid. MX was notified. 21:02 Contacted Allied Waste for emergency repair to T1 trash compactor. The compactor is leaking hydraulic fluid. Maintenance mechanic en route.
Trash-Spill Airside	10/22/07	08:25 Maintenance called to advise the trash compactor in T2W loading dock is OTS. Notified Allied Waste.
Trash-Spill Landside	10/22/07	08:40 Allied Waste called to report that the drain under the compactor in T2W loading dock is stopped up. Notified Maintenance.
Sewage-Triturator	10/30/07	21:06 Express Jet reports the hose is broken for the triturator. Notified Plumber 2.
Trash-Spill Landside	10/31/07	14:24 Contacted Ocean Blue for clean up curbside in front of CT. ATO's advised.
Trash-Spill Airside	11/01/07	09:50 ELS called to report the area under gates 23/25 by AA Ops is filthy and needs to be cleaned. Zebra 3 en route, Environmental en route. 10:10 Per Environmental, SPC will power wash the area this evening.
Trash-Spill Airside	11/03/07	07:44 Contacted DL Ops to have trash bags at bottom of stairs between gates 37 and 38 removed.
Trash-Spill Landside	11/05/07	08:34 Received a call of a broken sprinkler near the old Red Bus stop in T2E. Notified Maintenance.
Petroleum-Spill Airside	11/06/07	22:37 HPD reported that a fuel spill occurred at G14 from ASIG Fuel Truck #4971. Less than 5 gal were spilled onto the ground and no storm drains affected. A fuel hose broke and buckets were deployed to catch leaking fuel until ASIG MX arrived.
Trash-Spill Airside	11/07/07	09:40 HMS Host called to report that the recycle compactor is not working in T2W. Requested maintenance check. 09:48 The compactor is not working. Notified Allied Waste.
IPM	11/09/07	02:30 MX is weed spraying on taxiway B in the ovals.
Sewage-Triturator	11/09/07	23:45 WN called to report that the triturator is broken. MX units will try to repair it. MX was unable to repair it so the alternate dump was opened for the tenants to use.
Trash-Spill Airside	11/10/07	09:50 Requested AA Crew Chief to cover AA trash cart near Gate 25 and ensure it remains covered.
Sewage-Triturator	11/11/07	22:40 Received a call that the triturator water hose broke. Notified MX. 23:30 MX fixes water hose.
Trash-Spill Landside	11/14/07	11:35 ATO reports there is antifreeze in the street under the sky bridge in T2E. Notified MX.
Trash-Spill Airside	11/15/07	07:01 SPC reports the trash compactor in T1 is full. Contacted Allied Waste and was advised they are en route.
Trash-Spill Airside	11/18/07	08:03 Contacted DL Ops to have trash under Gate 40 removed.
IPM	11/20/07	08:30 Maintenance escorting Aztec crew to remove weeds from within the Least Tern ovals. 14:20 Weed removal completed for the day within the Least Tern ovals.
Petroleum-Spill Landside	11/20/07	10:50 T1 ATO reports a hydraulic spill in the street, curbside UA. MX was notified.
IPM	11/21/07	07:30 Maintenance 8 and Aztec personnel removing weeds within the Least Tern ovals.
Trash-Spill Airside	11/26/07	10:30 Additional dumpster placed at CT blast fence to deal with excess material from the dumpster next to it. Maintenance notified.
Petroleum-Spill Airside	11/27/07	15:45 Jimsair fuel truck No. 71006 on Jimsair line observed leaking fuel from front house coupling; Jimsair MX personnel on site performing maintenance; approx. 1 gal spilled and bermed with quicksorb by Jimsair personnel; no storm drains affected.
Petroleum-Spill Airside	11/28/07	16:25 AA MD-80 on Gate 23 with Skydrol leak from blown left main anti-skid manifold; approx. 1 gal of Skydrol spilled on ramp; AA mechanics on scene and contained immediately with quicksorb; no storm drains in vicinity; AA conducting cleanup.

Log of IDDE Reports to SDIA 24-hour Telephone Fiscal Year 2007-2008		
Subject/Topic	**Date**	**Log Entry Synopsis**
Trash-Spill Airside	11/30/07	07:46 Left voicemail for AA Ops to have AA trash cart ramp side, gate 25 emptied or covered.
Trash-Spill Airside	12/02/07	12:50 Terminal 1 compactor currently OTS awaiting repairs. Advised tenants to utilize the T2 compactor until Allied Waste can complete repairs later this afternoon. 14:20 Terminal 1 dumpster returned to service.
Trash-Spill Airside	12/02/07	06:54 SPC reports that both trash compactors are OTS. Contacted Allied Waste.
Petroleum-Spill Airside	12/03/07	22:40 Received a call from ASIG that two fuel trucks hit each other at Gate 22 and a large amount of fuel is leaking from one of the trucks. Z2 and Z3 en-route to Gate 22. Ocean Blue was notified and a voicemail was left for DAO and Environmental.
IPM	12/04/07	13:33 Pacific Rim reproted a large active beehive located at T1 roof/West Rotunda behind 2 green transformers. Contacted Maintenance.
Petroleum-Spill Airside	12/04/07	14:15 Small puddle of hydraulic fluid from XE belt loader leak still remains on the west end of the CT ramp; advised XE Ops to have personnel clean up; no drains in the area; issued 2nd reminder at 15:15.
Trash-Spill Airside	12/07/07	10:24 Contacted AA CC office and advised AA trash cart on ramp at Gate 25 needs to be emptied or covered due to IAW rules and regulations.
Trash-Spill Airside	12/09/07	08:30 Requested US Ops to have US/HP trash cart near Gate 33 emptied or covered due to IAW Rules and Regulations. Seagulls in the area.
Trash-Spill Landside	12/10/07	09:45 Ground Transportation informed AirOps that T1 Taxi Island trash cans are overflowing. Contacted SPC T1.
Sewage-Triturator	12/21/07	00:45 Report from GAT. Plumber notified and will reset the alarm. They will try to repair in the morning.
Trash-Spill Airside	12/21/07	08:43 WN reported that the dumpster is full. Advised Zebra 2.
Trash-Spill Airside	12/26/07	09:45 HMS Host called to report that the trash compactor is not working in T2W. Notified Allied Waste.
Trash-Spill Airside	12/26/07	10:25 HMS Host called to report that the trash compactor by Gate 22 is full. Notified Allied Waste.
Sewage-Triturator	01/03/08	07:45 American Eagle called to report a clog in the hose at the lavatory dump. Notified Maintenance.
Trash-Spill Airside	01/03/08	07:35 Southwest called to report that the compactor is full at Terminal 1. Notified Allied Waste and was advised it is on the schedule for this morning.
Petroleum-Spill Airside	01/10/08	18:38 ASIG reports a fuel spill of approx. 3 to 5 gallons at the Capital Air Cargo ramp. During fueling operations on a Capital Air Cargo B727 (N801EA) a malfunction occurred with the fuel gauge. Fuel had been contained; no storm drains affected.
Sewage	01/13/08	02:30 Lavatory spill at backup triturator site. Approx. 10 ft x 20 ft. Contacted Ocean Blue; will send a crew out for cleanup. E-mailed Environmental. 04:00 Ocean Blue on site.
Petroleum-Spill Airside	01/18/08	20:20 Contacted by Jimsair Ramp Supervisor regarding a large fuel spill on Jimsair ramp. Jimsair personnel have already begun cleanup. Zebra 2 enroute.
Petroleum-Spill Landside	01/18/08	09:20 Environmental called to advise of a fuel spill between Terminal 1 and 2 from a Hertz vehicle. Zebra 3 contacted maintenance. Ocean Blue notified.
Petroleum-Spill Landside	01/23/08	11:30 ATO called to report a fluid spill at the Terminal 2 taxi island. Notified Maintenance.
Sewage-Triturator	01/24/08	13:00 Received a call that the alarm is going off at the triturator. Notified Maintenance.
Trash-Spill Airside	01/30/08	07:43 Electrician notified that the hoses on the trash compactors near SWA were disconnected. Contacted Allied Waste about the problem, dispatcher indicated driver will come out to troubleshoot problem.
Petroleum-Spill Airside	01/31/08	09:30 Observed 5 gallon hydraulic fluid spill NW of Capital Cargo B-727 on Delta overflow. IAS cleaning spill. No storm drains impacted.
IPM	02/01/08	09:15 SOC called to report that the birds are in the trash at the GS-1 gate. Notified Maintenance.
Petroleum-Spill Airside	02/07/08	17:45 Notified by ASIG of a fuel spill at the Capital Air Cargo ramp.
Petroleum-Spill Airside	02/07/08	07:00 Per Maintenance, the light tower on the ramp by United Air Freight has a fuel leak. 3 to 4 gallons are on the ramp. Maintenance retrieving absorbent. Zebra 2 aware and en route. Left message with Environmental.
Petroleum-Spill Airside	02/07/08	17:48 Zebra 2 on site. ASIG when fueling a Capital Air Cargo B727 had experienced a fuel spill of approx. 3 gallons. A faulty fuel gauge indicator on the aircraft failed to depict that the left wing fuel tank was full. No storm drains were affected.

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Subject/Topic	**Date**	**Log Entry Synopsis**
Petroleum-Spill Airside	02/08/08	07:31 Observed fuel spill from LT and RT main wing tanks from Beech C-90 N214P on Charlie overflow. Fuel quantity estimated at 2-3 gallons per side, total 5-8 gallons. Storm drains not impacted and spills contained by quiksorb.
Petroleum-Spill Airside	02/08/08	11:30 Oil spill at the lead-in line for Gate 29. Notified Zebra 2.
Sewage	02/18/08	07:39 Zebras 2 & 3 are on site in the gates 3 & 5 area due to a report that there is raw sewage on the ramp. 07:40 Per Z3, left a message for Environmental. He will contact Ocean Blue. 07:49 DLO briefed. 08:00 Ocean Blue en route. 08:02 Left message for DAO. 08:05 Transferred DLO to Z3. 08:18 Z3 advised that Ocean Blue and Plumber are on site. WN is switching gates and this issue has not affected any flights at this point. 08:52 Zebra 3 advised that the plumber has fixed the plumbing. Ocean Blue has a truck to suction the water and SPC is cleaning the area. 08:34 Z3 left message for MPR. 10:13 Z2 advised that Ocean Blue should have scrubber in 10 minutes.
Trash-Spill Airside	02/18/08	11:05 WN reports that the recycle compactor appears to be jammed. MX advised.
IPM	02/19/08	10:00 Escorted Maintenance six and nine onto the AOA for weed spraying. Areas included the oval between B1 and taxiway D, all of the Least Terns ovals south of taxiway B and the area on the south side of the EMAS. 11:15 Maintenance done.
Trash-Spill Airside	02/19/08	22:40 Retrieved FOD behind Gate 38 per ATCT request.
Petroleum-Spill Airside	02/21/08	20:58 Z2 onsite. ASIG fuel truck #57 while fueling CO B737 at Gate 36 experienced an accidental fuel leak from the truck's overwing nozzle. Approx. 5-7 gal. spilled onto the ground. Berms in place. No storm drains affected.
Petroleum-Spill Airside	02/24/08	22:20 HPD reports a fuel spill west of Gate 41. Z2 and MX en route. ASIG was training new employee had who had forgotten to close the side cap prior to fuel truck leaving Gate 41. Approx 5 gal of Jet A spilled. No storm drains affected.
Trash-Spill Landside	02/25/08	08:12 MX reports the trash cans are overflowing on the parking lot side of the T1 sky bridge. Contacted SPC.
Trash-Spill Landside	02/25/08	08:29 LPI reports trash is blowing all over from the trash cans. Attempted to contact T1 coach; contacted T2 coach. Attempted to call T1 and advised that the trash ahd not been cleaned.
Trash-Spill Landside	03/02/08	11:10 ATO reported broken glass T2 bag curbside. Contacted T2 SPC coach and requested a clean up.
Sewage	03/03/08	06:45 Contacted Ocean Blue for a small lavatory cart/truck spill on the VSR behind the blast fence at taxiway B1 and on the VSR west adjacent the old Teledyne Ryan taxiway.
Unauthorized Discharge	03/06/08	01:40 Jetwash was washing AQ at Gate 19 when excessive water was noticed going down the drain. They started wiping the water away into the vacuum. The small water pressure pump was to be taken OTS for leaking during operation. Environmental emailed.
Petroleum-Spill Airside	03/07/08	16:16 AA reports a 15 gallon fuel spill at Gate 23. Zebra 2 was notified. 16:26 Z2 advised the fuel spill did not affect any storm drains and AA personnel were cleaning up the spill, which occurred during defueling of aircraft.
Sewage	03/07/08	20:45 CO Ramp Supervisor report a lavatory spill at Gate 35. Zebra 2 was notified. 21:05 Z2 advised no storm drains were affected by lav spill, which was approx. 10 gallons. Ocean Blue contacted and will arrive in 45 minutes.
IPM	03/12/08	08:30 Escorted weed sprayers along EMAS and along south side of taxiway Bravo from taxiway D to B-3.
IPM	03/12/08	11:00 Weed spraying was also conducted in the fenced area of Oval 3 South.
Petroleum-Spill Airside	03/12/08	17:25 Responded to Gate 18 for an ASA B734 fuel spill. Approx. 25 gallons spilled out of the overflow valve on the left wing. ASIG fueler had left prior to spill being reported. No storm drains were affected. Notified Environmental.
Trash-Spill Airside	03/20/08	12:55 Jetblue reported debris along the ramp area by carousel 5 & 6 in front of the conveyors. Trash has blocked the walkways. US Airways and Frontier will help to clean up the area.
Sewage	03/24/08	22:28 WN reported water sewer was coming out of a sewer cover located on the ramp at gate 3. Plumber 2 notified and responding. 22:55 Ocean Blue and DAO contacted. 23:55 Ocean Blue on site and will also clean up employee restrooms in T1 rotunda.
IPM	03/26/08	07:00 Maintenance 8 and Aztec work on cutting weeds in the Least Tern areas.
Trash-Spill Airside	03/29/08	06:50 Contacted Waste Management regarding the T1 dumpster which was full. Advised WN to use the AA dumpster until the WM had cycled the one at T1.
Trash-Spill Landside	03/31/08	11:00 LPI reports the trash can is overflowing on the CT transportation island. Left message for SPC.

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Subject/Topic	**Date**	**Log Entry Synopsis**
IPM	04/01/08	10:00 Conducted weed spraying in the ovals next to Teledyne Ryan and West side of taxiway Delta South of taxiway B.
IPM	04/08/08	07:15 ARFF called to report that they have rats and that the Captains shower is leaking through the walls andx creating a mold issue. Notified Maintenance 1.
Sewage	04/09/08	22:02 WN Ramp Supv. and SPC called to report that the MRR is backing up again and is dumping lavatory material onto the ramp by G3. Plumber, MX and Z3 en route. 22:07 Ocean Blue is en route. 22:15 Left a message with Environmental. 22:15 A clogged sewer pipe has caused water to backup in the MRR, WRR and HOST storage area under Gate 6. Water is also seeping through the clear out drain by Gate 3. 22:20 Plumber 2 begins snaking sewer pipe. 23:20 Snaking complete. Water receded.
IPM	04/12/08	10:30 UA reports there is a swarm of bees ramp side Gates 11-15. Notified Maintenance.
Trash-Spill Landside	04/12/08	09:57 NW reports that someone has vomited in the curbside check-in area. Notified SPC. 12:30 The bees at Gate 13 have finally stopped swarming and a pest control company will be here within the hour.
Trash-Spill Landside	04/12/08	10:34 FL reports that someone has vomited curbside their check-in area. Notified SPC.
Trash-Spill Airside	04/13/08	10:30 Observed B6 trash on AOA by Gate 38. Contacted DL Ops to notify GAT and have trash removed. 11:00 Trash still on AOA. Contacted DL Ops again. Trash removed.
Trash-Spill Airside	04/13/08	10:20 Observed trash on AOA at Gate 25. Contacted VX Ops to have trash removed. 11:00 Trash still on AOA. Contacted VX Ops to have trash removed.
Trash-Spill Airside	04/18/08	09:24 Contacted AA Ops to have AA trash cart on AOA at Gate 25 covered or emptied. 09:52 Observed cart being covered.
Trash-Spill Airside	04/18/08	09:23 Contacted VX Ops to remove VX trash on AOA at Gate 25.
IPM	04/22/08	09:00 USO called to report a dead rat outside the double doors on the east side of the building. Notified Maintenance.
Trash-Spill Airside	04/29/08	07:15 ATCT reports FOD on taxiway Bravo abeam B6. Z2 retrieves knee pad.
Trash-Spill Airside	04/29/08	06:45 SOC called to report a spill by Gate 34. Notified SPC.
Trash-Spill Airside	04/30/08	12:00 ATCT reports FOD on runway 27 at taxiway B6. FOD removed and ATCT notified.
Trash-Spill Landside	05/03/08	07:11 MX reports that there is trash outside the doors of the T1 food court and the seagulls are tearing the bags up. Zebra 2 will handle. 07:15 HMS to have trash cleaned up and trash containers covered. Trash cleaned/containers covered.
Petroleum-Spill Airside	05/06/08	16:45 During inspection observed a 5 gal oil spill at B-1. No storm drains involved. The scrubber was used to clean the area.
Trash-Spill Landside	05/06/08	16:28 ATO reports the trash cans are overflowing on the T2 transportation island. Notified SPC.
Trash-Spill Landside	05/07/08	10:45 ATO called to report an Alamo Shuttle van has broken down in front of the Commuter Terminal and is leaking coolant. Notified Maintenance. 11:15 Absorbent put on leak.
Petroleum-Spill Airside	05/10/08	12:22 XE reported a fluid leak from a belt loader spot 5 on CT ramp. Directed they clean up fluid.
Petroleum-Spill Airside	05/13/08	09:55 ASIG fueler was fueling CO B737 at Gate 36 when it overfilled the left wing resulting in approx. 5 gal. of Jet A on the ramp. No drains were affected. 10:20 The spill was cleaned up with dry absorb and an absorbent roller.
Petroleum-Spill Airside	05/19/08	10:40 Environmental called to report a hydraulic spill about 3 feet across under jetbridge 21. Notified Maintenance.
Sewage	05/27/08	11:50 Terminal inspection completed. Gate 3 port-o-potty overflowed onto the ramp. Term. Coord. are handling with APC to empty tonight since it didn't get serviced on Friday night. DLO was also advised.
IPM	06/10/08	07:00 MX and Aztec Landscape are removing weeds and trash along the perimiter fence near ILS critical area.
Petroleum-Spill Airside	06/25/08	21:25 ASIG Fueler dropped the fuel hose. 5 gallons dripped out onto FedEx ramp. Area was cleaned with absorbent. No storm drains effected. Police responded and generated report. Left message for Environmental.
Trash-Spill Landside	06/25/08	13:50 ATO called to request Flagship swee up some broken glass and plastic curbside in front of the Commuter Terminal. Notified Flagship.
Trash-Spill Landside	06/28/08	11:33 HPD reported trash can fire, T2W bag claim, curbside. Contacted Maintenance 1 and requested overhaul and cleanup.

Appendix B

FY07-08 Dry Weather Monitoring Field Data Sheets and Lab Reports

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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	07/17/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	07:15	**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 □ 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	□ None	x 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? □ 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. Sediment deposit observed at the bottom of 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-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	07/17/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	07:20	**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	☐ 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	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)	22.8	NH_3-N (mg/L)	NT	NO_3-N (mg/L)	NT	Ortho-PO_4 (mg/L)	NT
pH (pH units)	7.90	TURB (NTU)	NT	COND (mS/cm)	23.4	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.

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	07/17/07	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	08:43	**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 □ 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:** 1.2 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 was dry. There is still a water truck on site every day for dust mitigation.

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	07/17/07	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	908.21
Time	06:37	**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 ☐ 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:** -0.3 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: Filter fabric and gravel BMPs 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-B06-5	**Latitude**	32.7358	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.1863		**Hydrologic Area**	908.2
Date	07/17/07	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	08:29	**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	□ Partly Cloudy	x Overcast	□ Fog		
Tide	x N/A	□ Low	□ Incoming	□ High	□ Outgoing	**Tide Height:** 0.3 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: Storm drain BMPs were removed to make observations. There is a construction project directly north of 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-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	07/17/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	07:48	**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 ☐ 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:** 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	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: There was some residual moisture in the inlet pipe. No sources could be identified upstream. Insufficient volume for field/ lab 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-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	07/17/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	06:12	**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 ☐ Low x Incoming ☐ High ☐ Outgoing **Tide Height:** -0.4 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: _____

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	07/17/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	09:40	**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 ☐ 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:** 1.7 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)	23.1	NH_3-N (mg/L)	0.4	NO_3-N (mg/L)	ND	Ortho-PO_4 (mg/L)	0.8
pH (pH units)	8.45	TURB (NTU)	1.81	COND (mS/cm)	1.382	Reactive-P (mg/L)	0.2608
						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: Both sides of the slit trench immediately upstream of the site were 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-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	07/17/07	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	08:57	**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 ☐ 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:** 1.4 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: Trash, leaves, and sediment inside of the catch basin. There was some residual moisture inside of 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-B12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in west RON	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	07/17/07	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	08:20	**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 ☐ 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:** 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	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 observed in the basin. There was not a sufficient volume to take a sample.

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B08-8	0707326-01	Liquid	07/17/07 09:40	07/17/07 11:40

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.

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8 (0707326-01) Liquid Sampled: 07/17/07 09:40 Received: 07/17/07 11:40									
Enterococcus	**160**	2.0	MPN/100 mL	1	B7G1727	07/17/07	07/17/07	SM 9230B	
Fecal Coliforms	<2.0	2.0	"	"	"	"	"	SM 9221E	
Total Coliforms	**15000**	2.0	"	"	"	"	"	SM 9221B	

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: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8 (0707326-01) Liquid Sampled: 07/17/07 09:40 Received: 07/17/07 11:40									
Total Hardness	**468**	0.400	mg/L	1	B7G1837	07/18/07	07/18/07	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.312**	0.100	"	"	"	"	"	EPA 425.1	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8 (0707326-01) Liquid Sampled: 07/17/07 09:40 Received: 07/17/07 11:40									
Cadmium	ND	0.0040	mg/L	1	B7G1915	07/19/07	07/20/07	EPA 200.7	
Copper	**0.047**	0.012	"	"	"	"	07/20/07	"	
Lead	ND	0.019	"	"	"	"	07/20/07	"	
Zinc	**0.046**	0.024	"	"	"	"	"	"	

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: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

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 (0707326-01) Liquid Sampled: 07/17/07 09:40 Received: 07/17/07 11:40									
Azinphos methyl	ND	5.0	µg/L	1	B7G1811	07/23/07	07/26/07	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		*52.9 %*		*23-120*	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*99.0 %*		*30-115*	"	"	"	"	
Surrogate: Terphenyl-d14		*108 %*		*18-137*	"	"	"	"	

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

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 B7G1915 - EPA 200 Series										
Blank (B7G1915-BLK1)				Prepared: 07/19/07 Analyzed: 07/20/07						
Cadmium	ND	0.0040	mg/L							
Copper	ND	0.012	"							
Lead	ND	0.019	"							
Zinc	ND	0.024	"							
LCS (B7G1915-BS1)				Prepared: 07/19/07 Analyzed: 07/20/07						
Cadmium	0.198	0.0040	mg/L	0.200		99.0	85-115			
Copper	0.209	0.012	"	0.200		104	85-115			
Lead	0.208	0.019	"	0.200		104	85-115			
Zinc	0.198	0.024	"	0.200		99.0	85-115			
Matrix Spike (B7G1915-MS1)		**Source: 0707274-01**		Prepared: 07/19/07 Analyzed: 07/20/07						
Cadmium	0.195	0.0040	mg/L	0.200	ND	97.5	70-130			
Copper	0.217	0.012	"	0.200	0.0028	107	70-130			
Lead	0.210	0.019	"	0.200	ND	105	70-130			
Zinc	0.372	0.024	"	0.200	0.19	91.0	70-130			
Matrix Spike Dup (B7G1915-MSD1)		**Source: 0707274-01**		Prepared: 07/19/07 Analyzed: 07/20/07						
Cadmium	0.197	0.0040	mg/L	0.200	ND	98.5	70-130	1.02	20	
Copper	0.221	0.012	"	0.200	0.0028	109	70-130	1.83	20	
Lead	0.213	0.019	"	0.200	ND	106	70-130	1.42	20	
Zinc	0.376	0.024	"	0.200	0.19	93.0	70-130	1.07	20	

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

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 B7G1811 - EPA 3510C Sep Funnel										
Blank (B7G1811-BLK1)				Prepared: 07/11/07 Analyzed: 07/16/07						
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	*5.58*		*"*	*10.0*		*55.8*	*23-120*			
Surrogate: 2-Fluorobiphenyl	*4.52*		*"*	*10.0*		*45.2*	*30-115*			
Surrogate: Terphenyl-d14	*9.80*		*"*	*10.0*		*98.0*	*18-137*			

Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

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 B7G1811 - EPA 3510C Sep Funnel										
LCS (B7G1811-BS1)				Prepared: 07/11/07 Analyzed: 07/16/07						
Acenaphthene	6.58	5.0	µg/L	10.0		65.8	47-145			
1,4-Dichlorobenzene	4.92	5.0	"	10.0		49.2	20-124			
2,4-Dinitrotoluene	5.63	5.0	"	10.0		56.3	39-139			
N-Nitrosodi-n-propylamine	3.99	5.0	"	10.0		39.9	0-230			
Pyrene	5.44	5.0	"	10.0		54.4	52-115			
1,2,4-Trichlorobenzene	5.15	5.0	"	10.0		51.5	44-142			
LCS (B7G1811-BS2)				Prepared: 07/11/07 Analyzed: 07/16/07						
Acenaphthene	5.93	5.0	µg/L	10.0		59.3	47-145			
1,4-Dichlorobenzene	4.12	5.0	"	10.0		41.2	20-124			
2,4-Dinitrotoluene	12.9	5.0	"	10.0		129	39-139			
N-Nitrosodi-n-propylamine	3.58	5.0	"	10.0		35.8	0-230			
Pyrene	5.31	5.0	"	10.0		53.1	52-115			
1,2,4-Trichlorobenzene	5.16	5.0	"	10.0		51.6	44-142			
LCS Dup (B7G1811-BSD1)				Prepared: 07/11/07 Analyzed: 07/16/07						
Acenaphthene	5.82	5.0	µg/L	10.0		58.2	47-145	12.3	30	
1,4-Dichlorobenzene	3.79	5.0	"	10.0		37.9	20-124	25.9	30	
2,4-Dinitrotoluene	5.81	5.0	"	10.0		58.1	39-139	3.15	30	
N-Nitrosodi-n-propylamine	3.53	5.0	"	10.0		35.3	0-230	12.2	30	
Pyrene	6.09	5.0	"	10.0		60.9	52-115	11.3	30	
1,2,4-Trichlorobenzene	4.52	5.0	"	10.0		45.2	44-142	13.0	30	

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Ocean Blue Env. Services	Project: NA	
3110 Hancock Street	Project Number: [none]	**Reported:**
San Diego CA, 92110	Project Manager: Don Ostrand	07/31/07 10:38

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

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San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB01-1	**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	05/08/2008	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	
Time	09:13	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4** ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other _____
Color	☐ None	☐ Yellow	X Brown	☐ White	☐ Gray	☐ Other _____
Clarity	☐ Clear		X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No X Ponded ☐ 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 # 156 & 157**

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	19.1	**NH3-N** (mg/L)	**5**	**NO3-N** (mg/L)	1.75	**React PO4** (mg/L)	**.4**
pH (pH units)	6.3	**TURB** (NTU)	**23**	**COND** (mS/cm)	0.792	**MBAS** (mg/L)	**3 +**

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (ug/L)		**Pb** (ug/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (ug/L)		**Cd** (ug/L)		**Zn** (ug/L)	

COMMENTS: -Phosphate test kit had a green hue instead of blue (due to the brown color of the water). Samples were collected for laboratory analysis. Pooled water is in catch basin with a drop invert (see photo). No evidence of overland flow during investigation. Water has likely been sitting in catch basin for a long time. >1 week. pH, ammonia and MBAS exceeded field screening action levels.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☐ **Routine Investigation** X **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	6/4/08	**TB Page**			**Hydrologic Subarea** (Optional)	
Time	10:43	**Observer**	GT		**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

Conveyance (Check one only) ☐ Manhole X Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

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	☐ None	X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No X Ponded ☐ 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 # 1**_____

Field Screening Samples Collected? **X** Yes ☐ No

Water Temp (°C)	19.7	**NH3-N** (mg/L)	0.3	**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)	6.01	**TURB** (NTU)		**COND** (mS/cm)	2.69	**MBAS** (mg/L)	0.35

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: **No unusual activity observed at this site. Only pH exceeded the field screening action level.**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB03-2	**Latitude**	32.72863	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, south of runway9/27, directly south of B1-D sign	**Longitude**	-117.17840		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	908.21
Time	10:00	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4**_____ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes ☐ No X Ponded 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 # 158 & 159**

Field Screening Samples Collected? ☐ Yes X No

Water Temp (°C)	18.6	**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)	6.9	**TURB** (NTU)		**COND (**mS/cm)	21.4	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater._____

San Diego Stormwater Copermittees
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☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-3	**Latitude**	32.73389	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in rental car storage area	**Longitude**	-117.18294		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	08:08	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4** ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other

Flow Observed ☐Yes **X** No X Ponded ☐ Tidal

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

Evidence of Overland Flow? X Yes ☐ No ☐ Irrigation Runoff X Other: Watering truck used in the area for dust control

Photo Taken **X** Yes ☐ No **Photo # 154 & 155**

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	17.4	**NH3-N** (mg/L)	**0.02**	**NO3-N** (mg/L)	2	**React PO4** (mg/L)	**0.35**
pH (pH units)	7.3	**TURB** (NTU)	**5.2**	**COND** (mS/cm)	0.859	**MBAS** (mg/L)	**0.625**

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: No Flow and sample did not reach action levels. Catch basin has a drop culvert and water from the water truck collects there but does not flow out.

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Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-4	**Latitude**	32.73063	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet outside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.18298		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1288G1		**Hydrologic Subarea** (Optional)	908.21
Time	10:20	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4**_____ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes ☐ No X Ponded 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 # 160**_____

Field Screening Samples Collected? ☐ Yes X No

Water Temp (°C)	18.3	**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)	7.06	**TURB** (NTU)		**COND** (mS/cm)	26.2	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater_____

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Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB06-5	**Latitude**	32.73581	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.18632		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	07:58	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4** ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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 # 151 & 152**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry, no water, no sample.

San Diego Stormwater Copermittees
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☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-6	**Latitude**	32.73083	**Watershed**	**Hydrologic Unit**	908
Location	Discharge of Oil Water Separator at South end of ASIG, near wash rack	**Longitude**	-117.19304		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	07:16	**Observer**	AH,KG,LM		**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

Conveyance (Check one only) ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:-1.4** ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 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	☐ Trash	☐ Bubbles/Foam	X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes ☐ No **X** Ponded ☐ 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 # 145-147**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Not enough water to sample.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-7	**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	05/08/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	06:30	**Observer**	AH,KG,LM		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	☐ Partly Cloudy	X Overcast	☐ Fog		
Tide	☐ N/A	☐ Low	X Incoming	☐ High	☐ Outgoing	**Tide Height:-1.4** ft.
Last Rain	☐ > 72 hours	X < 72 hours				
Rainfall	☐ None	X < 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		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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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 # 140 & 141**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND** (mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: No water present in catch basin, some present in sampling device.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB08-8	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grate at end of trench drains near Southwest Airlines Gate 8	**Longitude**	-117.19582		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	10:35	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny ☐ Partly Cloudy X Overcast ☐ Fog

Tide ☐ N/A ☐ Low X Incoming ☐ High ☐ Outgoing **Tide Height:__-1.4____**ft.

Last Rain ☐ > 72 hours X < 72 hours

Rainfall ☐ None X < 0.1" ☐ > 0.1"

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other	_____
Color	☐ None	X Yellow	☐ Brown	☐ White	☐ Gray	☐ Other	_____
Clarity	☐ Clear		X Slightly Cloudy	☐ Opaque		☐ Other	_____
Floatables	☐ None	X Trash	☐ Bubbles/Foam	X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	_____

Flow Observed ☐Yes **X** No X Ponded ☐ 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 # 161**_____

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	19.7	**NH3-N** (mg/L)	**3**	**NO3-N** (mg/L)	0.25	**React PO4** (mg/L)	**0.4**
pH (pH units)	7.56	**TURB** (NTU)	**55**	**COND** (mS/cm)	2.54	**MBAS** (mg/L)	**3 +**

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **N**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Slit trenches were scheduled to be cleaned out earlier in the week. No clear evidence of overland flow. Site investigation conducted and field crew concluded that the pooled water is probably from potable water filling of aircraft and residual moisture from dew. MBAS and ammonia exceeded the field screening action levels.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

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

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

Site ID	C-B08-8	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grate at end of trench drains near Southwest Airlines Gate 8	**Longitude**	-117.19582		**Hydrologic Area**	908.2
Date	6/3/08	**TB Page**			**Hydrologic Subarea** (Optional)	908.21
Time	12:40	**Observer**	GT, AH		**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

Conveyance (Check one only) ☐ Manhole X Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

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	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other _____
Color	☐ None	X Yellow	☐ Brown	☐ White	☐ Gray	☐ Other _____
Clarity	☐ Clear		X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No X Ponded ☐ 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 # 1**_____

Field Screening Samples Collected? **X** Yes ☐ No

Water Temp (°C)	21.4	**NH3-N** (mg/L)	4	**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)	5.95	**TURB** (NTU)		**COND** (mS/cm)	6.09	**MBAS** (mg/L)	0.85

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: **Litter has accumulated in the slit trench on the SW side of the sample site. Going E from the sampling site, ponds of standing water were larger than those along the SW side. There was a truck emptying a plane of bathroom waste at the time of sampling but there was no evidence of illicit discharge and no signs of leaking from any connections. Ammonia, conductivity and pH exceeded the field screening action levels.**

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB09-10	**Latitude**	32.7301	**Watershed**	**Hydrologic Unit**	908
Location	Curb inlet on Terminal 2 parking entry road	**Longitude**	-117.1999		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1299 FI		**Hydrologic Subarea** (Optional)	908.21
Time	06:54	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	☐ Partly Cloudy	X Overcast	☐ Fog		
Tide	☐ N/A	☐ Low	X Incoming	☐ High	☐ Outgoing	**Tide Height:-1.4** ft.
Last Rain	☐ > 72 hours	X < 72 hours				
Rainfall	☐ None	X < 0.1"	☐ > 0.1"			

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other	
Color	X None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other	
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes **X** No ☐ Ponded ☐ Tidal

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

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

Photo Taken **X** Yes ☐ No **Photo # 143 & 144**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: No flow, residual moisture from landscape runoff, not enough water to field screen.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet northwest of terminal 2 west	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	05/08/2008	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	07:30	**Observer**	AH,KG,LM		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	☐ Partly Cloudy	X Overcast	☐ Fog		
Tide	☐ N/A	☐ Low	X Incoming	☐ High	☐ Outgoing	**Tide Height:-1.4** ft.
Last Rain	☐ > 72 hours	X < 72 hours				
Rainfall	☐ None	X < 0.1"	☐ > 0.1"			

RUNOFF CHARACTERISTICS

Odor	X None	☐ Musty	☐ Rotten Eggs	☐ Chemical	☐ Sewage	☐ Other	
Color	X None	☐ Yellow	☐ Brown	☐ White	☐ Gray	☐ Other	
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		☐ 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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 # 150**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry, no water, no sample

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	05/29/08 11:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8	0805146-01	Liquid	05/08/08 10:35	05/08/08 13:45
CB01-1	0805146-02	Liquid	05/08/08 09:13	05/08/08 13:45

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	05/29/08 11:03

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0805146-01) Liquid	**Sampled: 05/08/08 10:35**	**Received: 05/08/08 13:45**							
Enterococcus	**1000**	200	MPN/100 mL	100	B8E0852	05/08/08	05/08/08 14:00	SM 9230B	
Fecal Coliforms	**1100**	200	"	"	"	"	"	SM 9221E	
Total Coliforms	**160000**	2000	"	1000	"	"	"	SM 9221B	
CB01-1 (0805146-02) Liquid	**Sampled: 05/08/08 09:13**	**Received: 05/08/08 13:45**							
Enterococcus	**600**	20	MPN/100 mL	10	B8E0852	05/08/08	05/08/08 14:00	SM 9230B	
Fecal Coliforms	**2500**	200	"	100	"	"	"	SM 9221E	
Total Coliforms	**9000**	200	"	"	"	"	"	SM 9221B	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	05/29/08 11:03

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0805146-01) Liquid Sampled: 05/08/08 10:35 Received: 05/08/08 13:45									
Total Hardness	**660**	0.400	mg/L	1	B8E1322	05/08/08	05/08/08 14:15	SM 2340 C	
Hexane Extractable Material (HEM)	**2.00**	2.00	"	"	"	"	"	EPA 1664	
CB01-1 (0805146-02) Liquid Sampled: 05/08/08 09:13 Received: 05/08/08 13:45									
Total Hardness	**217**	0.400	mg/L	1	B8E1322	05/08/08	05/08/08 14:15	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	05/29/08 11:03

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0805146-01) Liquid	**Sampled: 05/08/08 10:35**	**Received: 05/08/08 13:45**							
Cadmium	**4.2**	4.0	µg/L	2	B8E1211	05/12/08	05/28/08 14:03	EPA 200.8	
Copper	**1000**	2.0	"	"	"	"	"	"	
Lead	ND	4.0	"	"	"	"	"	"	
Zinc	**350**	2.0	"	"	"	"	"	"	
CB01-1 (0805146-02) Liquid	**Sampled: 05/08/08 09:13**	**Received: 05/08/08 13:45**							
Cadmium	**6.9**	4.0	µg/L	2	B8E1211	05/12/08	05/28/08 14:07	EPA 200.8	
Copper	**730**	2.0	"	"	"	"	"	"	
Lead	ND	4.0	"	"	"	"	"	"	
Zinc	**850**	2.0	"	"	"	"	"	"	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	05/29/08 11:03

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8E1322 - General Preparation										
Blank (B8E1322-BLK1)				Prepared & Analyzed: 05/08/08						
Hexane Extractable Material (HEM)	ND	2.00	mg/L							
Total Hardness	ND	0.400	"							

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	05/29/08 11:03

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 B8E1211 - EPA 200 Series										
Blank (B8E1211-BLK1)				Prepared: 05/12/08 Analyzed: 05/28/08						
Cadmium	ND	4.0	µg/L							
Copper	ND	2.0	"							
Lead	ND	4.0	"							
Zinc	ND	2.0	"							
LCS (B8E1211-BS1)				Prepared: 05/12/08 Analyzed: 05/28/08						
Cadmium	108	4.0	µg/L	100		108	85-115			
Copper	100	2.0	"	100		100	85-115			
Lead	99.4	4.0	"	100		99.4	85-115			
Zinc	104	2.0	"	100		104	85-115			
Matrix Spike (B8E1211-MS1)	**Source: 0805140-01**			Prepared: 05/12/08 Analyzed: 05/28/08						
Cadmium	110	4.0	µg/L	100	ND	110	70-130			
Copper	99.8	2.0	"	100	3.5	96.3	70-130			
Lead	99.1	4.0	"	100	ND	99.1	70-130			
Zinc	151	2.0	"	100	53	98.0	70-130			
Matrix Spike Dup (B8E1211-MSD1)	**Source: 0805140-01**			Prepared: 05/12/08 Analyzed: 05/28/08						
Cadmium	111	4.0	µg/L	100	ND	111	70-130	0.905	20	
Copper	98.1	2.0	"	100	3.5	94.6	70-130	1.72	20	
Lead	98.9	4.0	"	100	ND	98.9	70-130	0.202	20	
Zinc	152	2.0	"	100	53	99.0	70-130	0.660	20	

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	05/29/08 11:03

Notes and Definitions

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

Report Date: Tuesday, May 20, 2008
Received Date: Friday, May 9, 2008
Received Time: 12:10 pm

Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phone: (949) 348-9389
FAX: (949) 348-9115

Attn: Nick Forsyth

Project: 0805146

P.O.#:

Certificate of Analysis

Work Order No: 8050927-01 **Sample ID: CB08-8 (0805146-01)** **Matrix: Water**
Sampled by: Client **Sampled: 05/08/08 10:35** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Molinate	**4.9**		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Dimethoate	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Prometon	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Simazine	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Atrazine	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Diazinon	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Metribuzin	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Alachlor	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Prometryn	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Bromacil	ND		ug/l	1.0	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Metolachlor	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Thiobencarb	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Butachlor	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Surrogate: 1,3-Dimethyl-2-NB	*113 %*			*73-136*			*05/13/08*	05/19/08 smr	*W8E0418*
Surrogate: Triphenyl phosphate	*125 %*			*71-150*			*05/13/08*	05/19/08 smr	*W8E0418*
Surrogate: Perylene-d12	*105 %*			*48-141*			*05/13/08*	05/19/08 smr	*W8E0418*

Work Order No: 8050927-02 **Sample ID: CB01-1 (0805146-02)** **Matrix: Water**
Sampled by: Client **Sampled: 05/08/08 09:13** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Molinate	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Dimethoate	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Prometon	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Simazine	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Atrazine	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Diazinon	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Metribuzin	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Alachlor	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418

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Certificate of Analysis

Work Order No: 8050927-02 **Sample ID: CB01-1 (0805146-02)** **Matrix: Water**
Sampled by: Client **Sampled: 05/08/08 09:13** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Prometryn	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Bromacil	ND		ug/l	1.0	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Metolachlor	ND		ug/l	0.10	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Thiobencarb	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Butachlor	ND		ug/l	0.20	1	EPA 525.2	05/13/08	05/19/08 smr	W8E0418
Surrogate: 1,3-Dimethyl-2-NB	*87 %*			*73-136*			*05/13/08*	05/19/08 smr	*W8E0418*
Surrogate: Triphenyl phosphate	*93 %*			*71-150*			*05/13/08*	05/19/08 smr	*W8E0418*
Surrogate: Perylene-d12	*78 %*			*48-141*			*05/13/08*	05/19/08 smr	*W8E0418*

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Certificate of Analysis

Weck Laboratories, Inc

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8E0418 - EPA 525.2									
Blank (W8E0418-BLK1)					Prepared: 05/13/08 Analyzed: 05/19/08				
Surrogate: 1,3-Dimethyl-2-NB		*5.35*		ug/l	*5.00*	*107*	*73-136*		
Surrogate: Triphenyl phosphate		*5.99*		ug/l	*5.00*	*120*	*71-150*		
Surrogate: Perylene-d12		*5.18*		ug/l	*5.00*	*104*	*48-141*		
Simazine		ND		ug/l					
Atrazine		ND		ug/l					
Thiobencarb		ND		ug/l					
LCS (W8E0418-BS1)					Prepared: 05/13/08 Analyzed: 05/19/08				
Surrogate: 1,3-Dimethyl-2-NB		*5.01*		ug/l	*5.00*	*100*	*73-136*		
Surrogate: Triphenyl phosphate		*6.14*		ug/l	*5.00*	*123*	*71-150*		
Surrogate: Perylene-d12		*5.68*		ug/l	*5.00*	*114*	*48-141*		
Molinate		5.60		ug/l	5.00	112	70-130		
Dimethoate		4.78		ug/l	5.00	96	11-180		
Prometon		3.58		ug/l	5.00	72	12-154		
Simazine		5.31		ug/l	5.00	106	53-131		
Atrazine		6.40		ug/l	5.00	128	70-130		
Diazinon		5.76		ug/l	5.00	115	51-128		
Metribuzin		4.84		ug/l	5.00	97	52-130		
Alachlor		5.32		ug/l	5.00	106	68-141		
Prometryn		4.04		ug/l	5.00	81	51-147		
Bromacil		4.97		ug/l	5.00	99	40-139		
Metolachlor		5.13		ug/l	5.00	103	64-149		
Thiobencarb		4.80		ug/l	5.00	96	70-132		
Butachlor		5.25		ug/l	5.00	105	60-154		
Matrix Spike (W8E0418-MS1)		**Source: 8050852-03**			Prepared: 05/13/08 Analyzed: 05/19/08				
Surrogate: 1,3-Dimethyl-2-NB		*4.98*		ug/l	*5.00*	*100*	*73-136*		
Surrogate: Triphenyl phosphate		*5.64*		ug/l	*5.00*	*113*	*71-150*		
Surrogate: Perylene-d12		*5.10*		ug/l	*5.00*	*102*	*48-141*		
Molinate	ND	5.76		ug/l	5.00	115	70-130		
Dimethoate	ND	5.72		ug/l	5.00	114	11-180		
Prometon	ND	4.43		ug/l	5.00	89	12-154		
Simazine	ND	5.60		ug/l	5.00	112	53-131		
Atrazine	ND	6.64	MS-01	ug/l	5.00	133	70-130		
Diazinon	ND	6.45	MS-01	ug/l	5.00	129	51-128		
Metribuzin	ND	4.97		ug/l	5.00	99	52-130		
Alachlor	ND	6.22		ug/l	5.00	124	68-141		
Prometryn	ND	4.52		ug/l	5.00	90	54-147		
Bromacil	ND	4.96		ug/l	5.00	99	40-139		
Metolachlor	ND	5.43		ug/l	5.00	109	64-149		
Thiobencarb	ND	5.12		ug/l	5.00	102	70-132		

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Weck Laboratories, Inc

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8E0418 - EPA 525.2									
Matrix Spike (W8E0418-MS1)		**Source: 8050852-03**			Prepared: 05/13/08 Analyzed: 05/19/08				
Butachlor	ND	5.66		ug/l	5.00	113	60-154		
Matrix Spike Dup (W8E0418-MSD1)		**Source: 8050852-03**			Prepared: 05/13/08 Analyzed: 05/19/08				
Surrogate: 1,3-Dimethyl-2-NB		*5.12*		ug/l	*5.00*	*102*	*73-136*		
Surrogate: Triphenyl phosphate		*5.40*		ug/l	*5.00*	*108*	*71-150*		
Surrogate: Perylene-d12		*4.80*		ug/l	*5.00*	*96*	*48-141*		
Molinate	ND	5.66		ug/l	5.00	113	70-130	2	30
Dimethoate	ND	4.47		ug/l	5.00	89	11-180	25	30
Prometon	ND	4.31		ug/l	5.00	86	12-154	3	30
Simazine	ND	5.39		ug/l	5.00	108	53-131	4	30
Atrazine	ND	5.39		ug/l	5.00	108	70-130	21	30
Diazinon	ND	6.35		ug/l	5.00	127	51-128	2	30
Metribuzin	ND	5.26		ug/l	5.00	105	52-130	6	30
Alachlor	ND	6.45		ug/l	5.00	129	68-141	4	30
Prometryn	ND	4.65		ug/l	5.00	93	54-147	3	30
Bromacil	ND	4.78		ug/l	5.00	96	40-139	4	30
Metolachlor	ND	5.47		ug/l	5.00	109	64-149	0.7	30
Thiobencarb	ND	5.16		ug/l	5.00	103	70-132	0.8	30
Butachlor	ND	5.33		ug/l	5.00	107	60-154	6	30

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Certificate of Analysis

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND = NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub = Subcontracted analysis, original report enclosed.
Dil = Dilution Factor
MDL = Method Detection Limit
MDA = Minimum Detectable Activity

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Flags for Data Qualifiers:

MS-01 = The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949•348•9389
FAX: 949•348•9115
26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

Date: 5/8/08 Page ____ of ____

Lab Project No.: ____

Client: MACTEL
Client Address: 9177 Sky Park Ct, San Diego CA 92123
Client Tel. No.: 8585146468
Client Fax. No.:
Client Proj. Mgr.: Amanda Archenhold

Client Project ID:

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☐ Normal ☐ Mobile

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Analysis Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Oil and Grease	Hardness	Enterococcus Total Fecal Coli Form	Diazinon and Chlorpyrifos	Metals Dissolved Cd, Cu, Pb, Zn								Field Point Names/ Comments
CB08-8		5/8	1035	W	–	Plastic	2			X										
CB08-8		5/8	1035	W	–	Amber	1	X												
CB08-8		5/8	1035	W	–	Amber	1				X									
CB08-8		5/8	1035	W	–	1L Poly	1					X								
CB08-8		5/8	1035	W	–	250mL Poly	1		X											
CB01-1		5/8	0913	W	–	Plastic	2			X										
CB01-1		5/8	0913	W	–	Amber	1	X												
CB01-1		5/8	0913	W	–	Amber	1				X									
CB01-1		5/8	0913	W	–	1L Poly	1					X								
CB01-1		5/8	0913	W	–	250mL Poly	1		X											

1 Sampler Signature: [signature] Shipped Via: 1345
Printed Name: Kris Green (Carrier/Waybill No.) 5/8/08

2 Relinquished By: Date Received By: [signature] Date: 5/8/08
Company: Time: Company: Sierra Analytical Time: 13:45

3 Relinquished By: Date Received By: Date:
Company: Time: Company: Time:

4 Relinquished By: Date Received By: Date:
Company: Time: Company: Time:

Special Instructions: SEE ATTACHED DATA QUALITY OBJECTIVES

Total Number of Containers Submitted to Laboratory: 12

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analysis specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT. **Samples determined to be hazardous by SIERRA will be returned to CLIENT.

Total Number of Containers Received by Laboratory: 12

Sample Disposal:
☐ Return to Client
☐ Lab Disposal*
☐ Archive ____ mos.
☐ Other ____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☐ Intact ☐ Chilled - Temp. (°C) ____
☐ Sample Seals ☐ Preservatives - Verified By ____
☐ Properly Labelled ☐ Other ____
☐ Appropriate Sample Container ☐ Storage Location ____

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	06/13/08 10:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B08-8-06-03-08	0806075-01	Liquid	06/03/08 13:00	06/03/08 18:05

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:12

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8-06-03-08 (0806075-01) Liquid	**Sampled: 06/03/08 13:00**		**Received: 06/03/08 18:05**						
Total Coliforms	**39000**	1000	CFU/100 mL	1000	B8F0511	06/03/08	06/03/08 18:10	SM 9222B	

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:12

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8-06-03-08 (0806075-01) Liquid	**Sampled: 06/03/08 13:00**		**Received: 06/03/08 18:05**						
Total Hardness	**195**	0.400	mg/L	1	B8F0526	06/05/08	06/05/08 09:45	SM 2340 C	

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.

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	06/13/08 10:12

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B08-8-06-03-08 (0806075-01) Liquid	**Sampled: 06/03/08 13:00**		**Received: 06/03/08 18:05**						
Copper	**5.0**	2.0	µg/L	2	B8F0935	06/09/08	06/12/08 22:27	EPA 200.8	

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:12

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0526 - General Preparation										
Blank (B8F0526-BLK1)				Prepared & Analyzed: 06/05/08						
Total Hardness	ND	0.400	mg/L							

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:12

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 B8F0935 - EPA 200 Series										
Blank (B8F0935-BLK1)				Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	ND	2.0	µg/L							
LCS (B8F0935-BS1)				Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	102	2.0	µg/L	100		102	85-115			
Matrix Spike (B8F0935-MS1)	**Source: 0806075-01**			Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	103	2.0	µg/L	100	5.0	98.0	70-130			
Matrix Spike Dup (B8F0935-MSD1)	**Source: 0806075-01**			Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	101	2.0	µg/L	100	5.0	96.0	70-130	1.96	20	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:12

Notes and Definitions

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

Report Date: Thursday, June 12, 2008
Received Date: Thursday, June 5, 2008
Received Time: 1:30 pm

Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phone: (949) 348-9389
FAX: (949) 348-9115

Attn: Nick Forsyth

Project: 0806075

P.O.#:

Certificate of Analysis

Work Order No: 8060542-01 **Sample ID: C-B08-8-06-03-08 (0806075-01)** **Matrix: Water**
Sampled by: Client **Sampled: 06/03/08 13:00** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Chlorpyrifos	ND		ug/l	1.0	10	EPA 8141A	06/09/08	06/10/08 dav	W8F0322
Surrogate: Triphenyl phosphate	*148 %*			*6-173*			*06/09/08*	06/10/08 dav	*W8F0322*

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Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8F0322 - EPA 3520B									
Blank (W8F0322-BLK1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.52*		ug/l	*1.00*	*152*	*6-173*		
Chlorpyrifos		ND		ug/l					
LCS (W8F0322-BS1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.28*		ug/l	*1.00*	*128*	*6-173*		
Chlorpyrifos		1.20		ug/l	1.00	120	49-143		
LCS Dup (W8F0322-BSD1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.23*		ug/l	*1.00*	*123*	*6-173*		
Chlorpyrifos		1.31		ug/l	1.00	131	49-143	9	25

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND = NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub = Subcontracted analysis, original report enclosed.
Dil = Dilution Factor
MDL = Method Detection Limit
MDA = Minimum Detectable Activity

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

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MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	06/13/08 10:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B01-1-06-04-08	0806086-01	Liquid	06/04/08 10:43	06/04/08 11:50

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:42

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-06-04-08 (0806086-01) Liquid	**Sampled: 06/04/08 10:43**		**Received: 06/04/08 11:50**						
Total Hardness	**91.2**	0.400	mg/L	1	B8F0519	06/04/08	06/04/08 15:00	SM 2340 C	

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:42

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-06-04-08 (0806086-01) Liquid	**Sampled: 06/04/08 10:43**		**Received: 06/04/08 11:50**						
Copper	**42**	2.0	µg/L	2	B8F0935	06/09/08	06/12/08 22:37	EPA 200.8	
Zinc	**48**	2.0	"	"	"	"	"	"	

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:42

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8F0519 - General Preparation										
Blank (B8F0519-BLK1)				Prepared & Analyzed: 06/04/08						
Total Hardness	ND	0.400	mg/L							

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:42

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 B8F0935 - EPA 200 Series										
Blank (B8F0935-BLK1)				Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8F0935-BS1)				Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	102	2.0	µg/L	100		102	85-115			
Zinc	103	2.0	"	100		103	85-115			
Matrix Spike (B8F0935-MS1)	**Source: 0806075-01**			Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	103	2.0	µg/L	100	5.0	98.0	70-130			
Zinc	117	2.0	"	100	19	98.0	70-130			
Matrix Spike Dup (B8F0935-MSD1)	**Source: 0806075-01**			Prepared: 06/09/08 Analyzed: 06/12/08						
Copper	101	2.0	µg/L	100	5.0	96.0	70-130	1.96	20	
Zinc	117	2.0	"	100	19	98.0	70-130	0.00	20	

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/13/08 10:42

Notes and Definitions

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

Report Date: Thursday, June 12, 2008
Received Date: Thursday, June 5, 2008
Received Time: 1:30 pm

Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phone: (949) 348-9389
FAX: (949) 348-9115

Attn: Nick Forsyth

Project: 0806086

P.O.#:

Certificate of Analysis

Work Order No: 8060543-01 **Sample ID: C-B01-1-06-04-08 (0806086-01)** **Matrix: Water**
Sampled by: Client **Sampled: 06/04/08 10:43** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Chlorpyrifos	ND		ug/l	1.0	10	EPA 8141A	06/09/08	06/10/08 dav	W8F0322
Surrogate: Triphenyl phosphate	*163 %*			*6-173*			*06/09/08*	06/10/08 dav	*W8F0322*

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Certificate of Analysis

Weck Laboratories, Inc

Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8F0322 - EPA 3520B									
Blank (W8F0322-BLK1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.52*		ug/l	*1.00*	*152*	*6-173*		
Chlorpyrifos		ND		ug/l					
LCS (W8F0322-BS1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.28*		ug/l	*1.00*	*128*	*6-173*		
Chlorpyrifos		1.20		ug/l	1.00	120	49-143		
LCS Dup (W8F0322-BSD1)					Prepared: 06/09/08 Analyzed: 06/10/08				
Surrogate: Triphenyl phosphate		*1.23*		ug/l	*1.00*	*123*	*6-173*		
Chlorpyrifos		1.31		ug/l	1.00	131	49-143	9	25

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Notes:
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Sub = Subcontracted analysis, original report enclosed.
Dil = Dilution Factor
MDL = Method Detection Limit
MDA = Minimum Detectable Activity

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

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Certificate of Analysis

Flags for Data Qualifiers:

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SIERRA ANALYTICAL

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 0806086

Comments

SENDING LABORATORY:

Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115
Laboratory Contact: Nick Forsyth

8060543

Turn Around Time Requested:
- [x] Normal
- [ ] 24 Hour
- [ ] 48 Hour
- [ ] 72 Hour
- [ ] 4 Day
- [ ] 5 Day

RECEIVING LABORATORY:

Weck Laboratories
14859 E. Clark Ave.
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Analysis	Expires	Sampled:	Laboratory ID	Comments
Sample ID: C-B01-1-06-04-08 (0806086-01)	**Liquid**	**06/04/08 10:43**		
8141A Organo-Phosphorous Pesticides	06/11/08 10:43			Chlorpyrifos Only

Containers Supplied:
1L Amber (A)

Special Instructions :

- [ ] Intact
- [ ] Sample Seals
- [ ] Properly Labeled
- [ ] Chilled TEMP (°C) _____
- [ ] Appropriate Container
- [ ] Preservatives - Verified By _____

John Knoppe	6/5/08 1:30		06/05/08
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	6-1 C Received By	12:30 Date / Time
Relinquished By	Date / Time	Received By	Date / Time

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB01-1	**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	06/20/2008	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	
Time	0845	**Observer**	KG,KH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny X Partly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ 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	☐ None	X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No X Ponded ☐ 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)	25	**NH3-N** (mg/L)	**.7**	**NO3-N** (mg/L)	.1	**React PO4** (mg/L)	**.1**
pH (pH units)	7.39	**TURB** (NTU)	**.75**	**COND** (mS/cm)	.349	**MBAS** (mg/L)	**.5**

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: -Pooled water is in a catch basin with a drop invert. No evidence of overland flow during investigation. Samples were collected for lab analysis due to previous action level exceedence. No field exceedances observed this time.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB03-2	**Latitude**	32.72863	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, south of runway9/27, directly south of B1-D sign	**Longitude**	-117.17840		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	908.21
Time	0920	**Observer**	KG, KH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny X Partly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:-.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	☐ Clear		X Slightly Cloudy	☐ Opaque		☐ Other	_____
Floatables	X None	☐Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	☐ Other	
Deposits	☐ None	☐ Sediment/Gravel	X Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other	
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other	_____
Biology	X None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	_____

Flow Observed XYes ☐ No ☐ Ponded **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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)	26	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-3	**Latitude**	32.73389	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in rental car storage area	**Longitude**	-117.18294		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	0615	**Observer**	KG,KH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No X Ponded ☐ Tidal

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

Evidence of Overland Flow? ☐ Yes x No ☐ Irrigation Runoff X Other: Watering truck used in the area for dust control

Photo Taken **X** Yes ☐ No

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	20.6	**NH3-N** (mg/L)	**.1**	**NO3-N** (mg/L)	1.5	**React PO4** (mg/L)	**.9**
pH (pH units)	7.6	**TURB** (NTU)	**2.37**	**COND** (mS/cm)	0.600	**MBAS** (mg/L)	**.25**

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: No Flow and sample did not reach field action levels. Catch basin has a drop culvert and water from the water truck collects there but does not flow out.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-4	**Latitude**	32.73063	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet outside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.18298		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1288G1		**Hydrologic Subarea** (Optional)	908.21
Time	0915	**Observer**	KG, KH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes X No X Ponded 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND** (mS/cm)	25.5	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater_____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB06-5	**Latitude**	32.73581	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.18632		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	0815	**Observer**	KG,KH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	**N/A**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**N/A**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
Floatables	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**N/A**
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**N/A**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**N/A**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	x Other	**N/A**

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry, no water, no sample.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-6	**Latitude**	32.73083	**Watershed**	**Hydrologic Unit**	908
Location	Discharge of Oil Water Separator at South end of ASIG, near wash rack	**Longitude**	-117.19304		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0745	**Observer**	KG, KH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	XPartly Cloudy	☐ Overcast	☐ Fog	
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing
Last Rain	X> 72 hours	☐ < 72 hours			
Rainfall	X None	☐ < 0.1"	☐ > 0.1"		

Tide Height:-.7 ft.

RUNOFF CHARACTERISTICS

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

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-7	**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	06/20/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0600	**Observer**	KG, KH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND** (mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry. No water present in catch basin.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB08-8	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grate at end of trench drains near Southwest Airlines Gate 8	**Longitude**	-117.19582		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0825	**Observer**	KG,KH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny X Partly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:__-.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	☐ None	X Yellow	☐ Brown	☐ White	☐ Gray	☐ Other	_____
Clarity	☐ Clear		X Slightly Cloudy	☐ Opaque		☐ Other	_____
Floatables	☐ None	X Trash	☐ Bubbles/Foam	X Sheen	☐ Fecal Matter	☐ Other	
Deposits	☐ None	☐ Sediment/Gravel	X Fine Particulates	☐ Stains	☐ Oily Deposits	☐ Other	
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other	_____
Biology	X None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	_____

Flow Observed ☐Yes **X** No X Ponded ☐ Tidal

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

Evidence of Overland Flow? X Yes ☐ No ☐ Irrigation Runoff ☐ Other: evidence of potable water flushing_____

Photo Taken **X** Yes ☐ No **Photo #**

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	24	**NH3-N** (mg/L)	**6**	**NO3-N** (mg/L)	.6	**React PO4** (mg/L)	**.75**
pH (pH units)	7.4	**TURB** (NTU)	**9.59**	**COND (**mS/cm)	1.641	**MBAS** (mg/L)	**5**

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

Analytical Laboratory Samples Collected? **X Yes** ☐ **N**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Ammonia and MBAS exceed action levels. Samples sent to lab for analysis. Overland flow as a result of recent aircraft potable water filling. Flow was trickling into slit trench, but flow not enough to sample so ponded water at grate was sampled. Incident was reported immediately to SDCRAA Env Affairs Dept._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB09-10	**Latitude**	32.7301	**Watershed**	**Hydrologic Unit**	908
Location	Curb inlet on Terminal 2 parking entry road	**Longitude**	-117.1999		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1299 FI		**Hydrologic Subarea** (Optional)	908.21
Time	0548	**Observer**	KH, 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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	**N/A**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**N/A**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
Floatables	☐ None	X Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**N/A**
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**N/A**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**N/A**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	X Other	**N/A**

Flow Observed ☐Yes **X** No ☐ Ponded ☐ Tidal

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

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

Photo Taken **X** Yes ☐ No **Photo #**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet northwest of terminal 2 west	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	06/20/2008	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	0800	**Observer**	KG,KH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	XPartly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**NA**
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**NA**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**NA**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	X Other	**NA**

Flow Observed ☐Yes **X** No ☐ Ponded **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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entro.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Small amount of ponded water-not enough to sample.

MACTEC Engineering & Consulting	Project:	San Diego Airport	
9177 Sky Park Court Suite A	Project Number:	[none]	**Reported:**
San Diego CA, 92123	Project Manager:	Amanda Archenhold	06/27/08 13:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8	0806437-01	Liquid	06/20/08 08:25	06/20/08 11:30
CB01-1	0806437-02	Liquid	06/20/08 08:45	06/20/08 11:30

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.

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/27/08 13:32

Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0806437-01) Liquid	**Sampled: 06/20/08 08:25**	**Received: 06/20/08 11:30**							
Enterococcus	**1900**	200	MPN/100 mL	100	B8F2024	06/20/08	06/20/08 13:00	SM 9230B	
Fecal Coliforms	**3400**	200	"	"	"	"	"	SM 9221E	
Total Coliforms	**100000**	2000	"	1000	"	"	"	SM 9221B	
CB01-1 (0806437-02) Liquid	**Sampled: 06/20/08 08:45**	**Received: 06/20/08 11:30**							
Enterococcus	**500**	200	MPN/100 mL	100	B8F2024	06/20/08	06/20/08 13:00	SM 9230B	
Fecal Coliforms	**90**	20	"	10	"	"	"	SM 9221E	
Total Coliforms	**23000**	2000	"	1000	"	"	"	SM 9221B	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/27/08 13:32

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0806437-01) Liquid Sampled: 06/20/08 08:25 Received: 06/20/08 11:30									
Total Hardness	**488**	0.400	mg/L	1	B8F2417	06/20/08	06/20/08 15:14	SM 2340 C	
Hexane Extractable Material (HEM)	**5.00**	2.00	"	"	"	"	"	EPA 1664	
CB01-1 (0806437-02) Liquid Sampled: 06/20/08 08:45 Received: 06/20/08 11:30									
Total Hardness	**87.2**	0.400	mg/L	1	B8F2417	06/20/08	06/20/08 15:14	SM 2340 C	
Hexane Extractable Material (HEM)	ND	2.00	"	"	"	"	"	EPA 1664	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/27/08 13:32

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8 (0806437-01) Liquid Sampled: 06/20/08 08:25 Received: 06/20/08 11:30									
Cadmium	ND	4.0	µg/L	2	B8F2306	06/23/08	06/24/08 15:15	EPA 200.8	
Copper	**770**	2.0	"	"	"	"	"	"	
Lead	ND	4.0	"	"	"	"	"	"	
Zinc	**520**	2.0	"	"	"	"	"	"	
CB01-1 (0806437-02) Liquid Sampled: 06/20/08 08:45 Received: 06/20/08 11:30									
Cadmium	ND	4.0	µg/L	2	B8F2306	06/23/08	06/24/08 15:26	EPA 200.8	
Copper	**220**	2.0	"	"	"	"	"	"	
Lead	ND	4.0	"	"	"	"	"	"	
Zinc	**120**	2.0	"	"	"	"	"	"	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/27/08 13:32

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 B8F2306 - EPA 200 Series										
Blank (B8F2306-BLK1)				Prepared: 06/23/08 Analyzed: 06/24/08						
Cadmium	ND	4.0	µg/L							
Copper	ND	2.0	"							
Lead	ND	4.0	"							
Zinc	ND	2.0	"							
LCS (B8F2306-BS1)				Prepared: 06/23/08 Analyzed: 06/24/08						
Cadmium	99.1	4.0	µg/L	100		99.1	85-115			
Copper	108	2.0	"	100		108	85-115			
Lead	97.9	4.0	"	100		97.9	85-115			
Zinc	107	2.0	"	100		107	85-115			
Matrix Spike (B8F2306-MS1)	**Source: 0806437-01**			Prepared: 06/23/08 Analyzed: 06/24/08						
Cadmium	104	4.0	µg/L	100	3.3	101	70-130			
Copper	882	2.0	"	100	770	112	70-130			
Lead	95.0	4.0	"	100	1.1	93.9	70-130			
Zinc	619	2.0	"	100	520	99.0	70-130			
Matrix Spike Dup (B8F2306-MSD1)	**Source: 0806437-01**			Prepared: 06/23/08 Analyzed: 06/24/08						
Cadmium	97.1	4.0	µg/L	100	3.3	93.8	70-130	6.86	20	
Copper	899	2.0	"	100	770	129	70-130	1.91	20	
Lead	87.1	4.0	"	100	1.1	86.0	70-130	8.68	20	
Zinc	638	2.0	"	100	520	118	70-130	3.02	20	

MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	06/27/08 13:32

Notes and Definitions

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

Report Date: Tuesday, July 1, 2008
Received Date: Monday, June 23, 2008
Received Time: 1:11 pm

Turnaround Time: Normal

Client: Sierra Analytical
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Phone: (949) 348-9389
FAX: (949) 348-9115

Attn: Nick Forsyth

Project: 0806437

P.O.#:

Certificate of Analysis

Work Order No: 8062350-01 **Sample ID: CB08-8 (0806437-01)** **Matrix: Water**
Sampled by: Client **Sampled: 06/20/08 08:25** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Azinphos methyl (Guthion)	ND		ug/l	1.5	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Bolstar	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Chlorpyrifos	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Coumaphos	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Demeton-o	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Demeton-s	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Diazinon	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Dichlorvos	ND		ug/l	1.5	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Disulfoton	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Ethoprop	ND		ug/l	1.5	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Fensulfothion	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Fenthion	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Merphos	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Methyl parathion	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Mevinphos	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Naled	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Phorate	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Ronnel	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Stirophos	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Tokuthion (Prothiofos)	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Trichloronate	ND		ug/l	1.0	10	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Surrogate: Triphenyl phosphate	*238 %*	*S-03*		*6-173*			*06/23/08*	06/24/08 dav	*W8F0892*

Work Order No: 8062350-02 **Sample ID: CB01-1 (0806437-02)** **Matrix: Water**
Sampled by: Client **Sampled: 06/20/08 08:45** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Azinphos methyl (Guthion)	ND		ug/l	0.15	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892

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Work Order No: 8062350-02 **Sample ID: CB01-1 (0806437-02)** **Matrix: Water**
Sampled by: Client **Sampled: 06/20/08 08:45** **Sample Note:**

Analyte	Result	Qualifier	Units	Reporting Limit	Dil	Method	Prepared	Analyzed	Batch
Bolstar	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Chlorpyrifos	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Coumaphos	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Demeton-o	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Demeton-s	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Diazinon	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Dichlorvos	ND		ug/l	0.15	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Disulfoton	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Ethoprop	ND		ug/l	0.15	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Fensulfothion	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Fenthion	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Merphos	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Methyl parathion	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Mevinphos	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Naled	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Phorate	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Ronnel	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Stirophos	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Tokuthion (Prothiofos)	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Trichloronate	ND		ug/l	0.10	1	EPA 8141A	06/23/08	06/24/08 dav	W8F0892
Surrogate: Triphenyl phosphate	*115 %*			*6-173*			*06/23/08*	06/24/08 dav	*W8F0892*

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Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8F0892 - EPA 3520B									
Blank (W8F0892-BLK1)					Prepared: 06/23/08 Analyzed: 06/24/08				
Surrogate: Triphenyl phosphate		*1.02*		ug/l	*1.00*	*102*	*6-173*		
Azinphos methyl (Guthion)		ND		ug/l					
Bolstar		ND		ug/l					
Chlorpyrifos		ND		ug/l					
Coumaphos		ND		ug/l					
Demeton-o		ND		ug/l					
Demeton-s		ND		ug/l					
Diazinon		ND		ug/l					
Dichlorvos		ND		ug/l					
Disulfoton		ND		ug/l					
Ethoprop		ND		ug/l					
Fensulfothion		ND		ug/l					
Fenthion		ND		ug/l					
Merphos		ND		ug/l					
Methyl parathion		ND		ug/l					
Mevinphos		ND		ug/l					
Naled		ND		ug/l					
Phorate		ND		ug/l					
Ronnel		ND		ug/l					
Stirophos		ND		ug/l					
Tokuthion (Prothiofos)		ND		ug/l					
Trichloronate		ND		ug/l					
LCS (W8F0892-BS1)					Prepared: 06/23/08 Analyzed: 06/24/08				
Surrogate: Triphenyl phosphate		*1.18*		ug/l	*1.00*	*118*	*6-173*		
Azinphos methyl (Guthion)		1.29		ug/l	1.00	129	18-159		
Bolstar		1.24		ug/l	1.00	124	49-148		
Chlorpyrifos		1.12		ug/l	1.00	112	49-143		
Coumaphos		1.26		ug/l	1.00	126	42-161		
Demeton-o		0.922		ug/l	1.00	92	47-132		
Demeton-s		0.991		ug/l	1.00	99	45-147		
Diazinon		1.17		ug/l	1.00	117	46-136		
Dichlorvos		2.63	Q-08	ug/l	1.00	263	29-164		
Disulfoton		1.12		ug/l	1.00	112	46-155		
Ethoprop		1.13		ug/l	1.00	113	54-141		
Fensulfothion		1.38		ug/l	1.00	138	54-167		
Fenthion		1.21		ug/l	1.00	121	50-143		
Merphos		1.42		ug/l	1.00	142	40-185		
Methyl parathion		1.04		ug/l	1.00	104	47-142		
Mevinphos		1.04		ug/l	1.00	104	43-145		
Naled		0.951		ug/l	1.00	95	16-177		

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Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W8F0892 - EPA 3520B									
LCS (W8F0892-BS1)					Prepared: 06/23/08 Analyzed: 06/24/08				
Phorate		1.12		ug/l	1.00	112	56-134		
Ronnel		1.04		ug/l	1.00	104	49-140		
Stirophos		1.35		ug/l	1.00	135	46-146		
Tokuthion (Prothiofos)		1.25		ug/l	1.00	125	52-139		
Trichloronate		1.14		ug/l	1.00	114	52-136		
LCS Dup (W8F0892-BSD1)					Prepared: 06/23/08 Analyzed: 06/24/08				
Surrogate: Triphenyl phosphate		*1.05*		ug/l	*1.00*	*105*	*6-173*		
Azinphos methyl (Guthion)		0.979	Q-12	ug/l	1.00	98	18-159	27	25
Bolstar		1.19		ug/l	1.00	119	49-148	4	25
Chlorpyrifos		1.18		ug/l	1.00	118	49-143	5	25
Coumaphos		0.818	Q-12	ug/l	1.00	82	42-161	42	25
Demeton-o		0.877		ug/l	1.00	88	47-132	5	25
Demeton-s		0.834		ug/l	1.00	83	45-147	17	25
Diazinon		1.26		ug/l	1.00	126	46-136	7	25
Dichlorvos		2.24	Q-08	ug/l	1.00	224	29-164	16	25
Disulfoton		1.18		ug/l	1.00	118	46-155	5	25
Ethoprop		1.13		ug/l	1.00	113	54-141	0.5	25
Fensulfothion		0.926	Q-12	ug/l	1.00	93	54-167	40	25
Fenthion		1.17		ug/l	1.00	117	50-143	4	25
Merphos		1.24		ug/l	1.00	124	40-185	14	25
Methyl parathion		1.08		ug/l	1.00	108	47-142	4	25
Mevinphos		0.917		ug/l	1.00	92	43-145	13	25
Naled		1.03		ug/l	1.00	103	16-177	8	25
Phorate		1.16		ug/l	1.00	116	56-134	4	25
Ronnel		1.09		ug/l	1.00	109	49-140	5	25
Stirophos		1.21		ug/l	1.00	121	46-146	11	25
Tokuthion (Prothiofos)		1.28		ug/l	1.00	128	52-139	2	25
Trichloronate		1.20		ug/l	1.00	120	52-136	5	25

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Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND = NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub = Subcontracted analysis, original report enclosed.
Dil = Dilution Factor
MDL = Method Detection Limit
MDA = Minimum Detectable Activity

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Flags for Data Qualifiers:

M-04 = Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The reporting limits were raised due to the dilution.

Q-08 = High bias in the QC sample does not affect sample result since analyte was not detected.

Q-12 = The RPD result exceeded the QC control limits possibly due to a possible matrix effect; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.

S-03 = High surrogate recovery for this sample is possibly due to a sample matrix effect. The data was accepted since all target analytes were not detected.

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SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 0806437

Comments

SENDING LABORATORY:

Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653
Phone: (949) 348-9389
Fax: (949) 348-9115
Laboratory Contact: Nick Forsyth

80623S0

Turn Around Time Requested: ☐ Normal ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day

RECEIVING LABORATORY:

Weck Laboratories
14859 E. Clark Ave.
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Analysis	Expires	Sampled:	Laboratory ID	Comments
Sample ID: CB08-8 (0806437-01)	**Liquid**	**06/20/08 08:25**		
8141A Organo-Phosphorous Pesticides	06/27/08 08:25			~~Chlorpyrifos Only~~
Containers Supplied: 1L Amber (D)				
Sample ID: CB01-1 (0806437-02)	**Liquid**	**06/20/08 08:45**		
8141A Organo-Phosphorous Pesticides	06/27/08 08:45			~~Chlorpyrifos Only~~
Containers Supplied: 1L Amber (D)				

Special Instructions :

~~Copy/Relog from 0806086.~~

☐ Intact ☐ Sample Seals
☐ Properly Labeled ☐ Chilled TEMP (°C) 6.5C
☐ Appropriate Container ☐ Preservatives - Verified By _____

John Gonzales	6/23/08 2:11	Jaime Gomez	6/23/08 13:11
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB01-1	**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	08/04/2008	**TB Page**	1288 H1		**Hydrologic Subarea** (Optional)	
Time	0730	**Observer**	KG,KH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	**n/a**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**n/a**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**n/a**
Floatables	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**n/a**
Deposits	☐ None	x Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**n/a**
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other	
Biology	X None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Catch basin was dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB03-2	**Latitude**	32.72863	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet inside zipper line, south of runway9/27, directly south of B1-D sign	**Longitude**	-117.17840		**Hydrologic Area**	908.2
Date	08/4/2008	**TB Page**	1288 J1		**Hydrologic Subarea** (Optional)	908.21
Time	0715	**Observer**	KG, KH.AH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny X Partly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:-.2**_____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	☐ Clear		X 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	_____

Flow Observed XYes ☐ No ☐ Ponded **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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)	26	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater._____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-3	**Latitude**	32.73389	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet in rental car storage area	**Longitude**	-117.18294		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1268 H7		**Hydrologic Subarea** (Optional)	908.21
Time	0845	**Observer**	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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.2** 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other	

Flow Observed ☐Yes **X** No X Ponded ☐ Tidal

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

Evidence of Overland Flow? ☐ Yes x No ☐ Irrigation Runoff X Other: Watering truck used in the area for dust control

Photo Taken **X** Yes ☐ No

Field Screening Samples Collected? X Yes ☐ No

Water Temp (°C)	26.7	**NH3-N** (mg/L)	**.2**	**NO3-N** (mg/L)	1	**React PO4** (mg/L)	**.9**
pH (pH units)	7.8	**TURB** (NTU)	**n/a**	**COND** (mS/cm)	0.600	**MBAS** (mg/L)	**.2**

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: No Flow and sample did not reach field action levels. Catch basin has a drop culvert and water from the water truck collects there but does not flow out.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB05-4	**Latitude**	32.73063	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet outside of zipper line, south of runway 9/27, north of generator yard	**Longitude**	-117.18298		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1288G1		**Hydrologic Subarea** (Optional)	908.21
Time	0700	**Observer**	KG, KH, AH		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny X Partly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:-.2** _____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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes X No X Ponded 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND** (mS/cm)	24	**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: High Conductivity indicates seawater_____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB06-5	**Latitude**	32.73581	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet southeast of control tower	**Longitude**	-117.18632		**Hydrologic Area**	908.2
Date	08/4/2008	**TB Page**	1268 G7		**Hydrologic Subarea** (Optional)	908.21
Time	0800	**Observer**	KG,KH,AH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	**N/A**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**N/A**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
Floatables	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**N/A**
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**N/A**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**N/A**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	x Other	**N/A**

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry no water to sample.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-6	**Latitude**	32.73083	**Watershed**	**Hydrologic Unit**	908
Location	Discharge of Oil Water Separator at South end of ASIG, near wash rack	**Longitude**	-117.19304		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0645	**Observer**	KG, KH, AH		**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

Conveyance (Check one only) ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather ☐ Sunny XPartly Cloudy ☐ Overcast ☐ Fog

Tide ☐ N/A X Low ☐ Incoming ☐ High ☐ Outgoing **Tide Height:-.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	**N/A**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**N/A**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
Floatables	☐ None	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**N/A**
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**N/A**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**N/A**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	X Other	**N/A**

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB07-7	**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	08/04/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0815	**Observer**	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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.2** 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	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No ☐ Ponded ☐ 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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND** (mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry. No water present in catch basin.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB08-8	**Latitude**	32.7318	**Watershed**	**Hydrologic Unit**	908
Location	Grate at end of trench drains near Southwest Airlines Gate 8	**Longitude**	-117.19582		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1288 F1		**Hydrologic Subarea** (Optional)	908.21
Time	0600	**Observer**	KG,KH, AH		**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
Conveyance (Check one only)	☐ Manhole	☒ Catch Basin	☐ Outlet	☐ Concrete Channel	☐ Natural Creek	☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:__-.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	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other
Vegetation	X None	☐ Limited	☐ Normal	☐ Excessive		☐ Other _____
Biology	X None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	☐ Other _____

Flow Observed ☐Yes **X** No ☐ Ponded ☐ Tidal

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

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

Photo Taken **X** Yes ☐ No **Photo #**

Field Screening Samples Collected? ☐ Yes ☐ No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? **Yes** ☐ **N**

O&G (mg/L)		**Entero.** (MPN/100mL)		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS:_____

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB09-10	**Latitude**	32.7301	**Watershed**	**Hydrologic Unit**	908
Location	Curb inlet on Terminal 2 parking entry road	**Longitude**	-117.1999		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1299 FI		**Hydrologic Subarea** (Optional)	908.21
Time	0830	**Observer**	, 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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	X Partly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	**N/A**
Color	☐ None	☐ Yellow	☐ Brown	☐ White	☐ Gray	X Other	**N/A**
Clarity	☐ Clear		☐ Slightly Cloudy	☐ Opaque		X Other	**N/A**
Floatables	☐ None	X Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other	**N/A**
Deposits	☐ None	X Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other	**N/A**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other	**N/A**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	X Other	**N/A**

Flow Observed ☐Yes **X** No ☐ Ponded ☐ Tidal

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

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

Photo Taken **X** Yes ☐ No **Photo #**

Field Screening Samples Collected? Yes X No

Water Temp (°C)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entero.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Dry.

San Diego Stormwater Copermittees
Dry Weather Monitoring Field Datasheet

☒ **Routine Investigation** ☐ **IC/ID Follow-Up For** _____

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

Site ID	CB12-9	**Latitude**	32.7351	**Watershed**	**Hydrologic Unit**	908
Location	Grated inlet northwest of terminal 2 west	**Longitude**	-117.2044		**Hydrologic Area**	908.2
Date	08/04/2008	**TB Page**	1268 E7		**Hydrologic Subarea** (Optional)	908.21
Time	0620	**Observer**	KG,KH,ah		**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

Conveyance (Check one only): ☐ Manhole ☒ Catch Basin ☐ Outlet ☐ Concrete Channel ☐ Natural Creek ☐ Earthen Channel

ATMOSPHERIC CONDITIONS

Weather	☐ Sunny	XPartly Cloudy	☐ Overcast	☐ Fog		
Tide	☐ N/A	X Low	☐ Incoming	☐ High	☐ Outgoing	**Tide Height:-.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	☐ Trash	☐ Bubbles/Foam	☐ Sheen	☐ Fecal Matter	X Other **NA**
Deposits	☐ None	☐ Sediment/Gravel	☐ Fine Particulates	☐ Stains	☐ Oily Deposits	X Other **NA**
Vegetation	☐ None	☐ Limited	☐ Normal	☐ Excessive		X Other **NA**
Biology	☐ None	☐ Insects	☐ Algae	☐ Snails/Fish	☐ Mussels/Barnacles	X Other **NA**

Flow Observed ☐Yes **X** No ☐ Ponded **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)		**NH3-N** (mg/L)		**NO3-N** (mg/L)		**React PO4** (mg/L)	
pH (pH units)		**TURB** (NTU)		**COND (**mS/cm)		**MBAS** (mg/L)	

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

Analytical Laboratory Samples Collected? ☐ **Yes** X **No**

O&G (mg/L)		**Entro.** (MPN/100mL**)**		**Fecal Col.** (MPN/mL)		**Chlorpy.** (*u*g/L)		**Pb** (*u*g/L)	
Hardness (mg/L)		**Total Col.** (MPN/100mL)		**Diazanon** (*u*g/L)		**Cd** (*u*g/L)		**Zn** (*u*g/L)	

COMMENTS: Small amount of ponded water-not enough to sample. Likely seawater.

Appendix C

FY07-08 Wet Weather Sample Results

COMPLIANCE SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results[1]									
					C-B01-1-11-30-07	C-B03-2-11-30-07	C-B05-3-11-30-07	C-B05-4-11-30-07	C-B06-5-11-30-07	C-B07-6-11-30-07	C-B07-7-11-30-07	C-B08-8-12-01-07	C-B12-9-11-30-07	C-B09-10-11-30-07
CONVENTIONALS														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	0.98	0.41	0.29	0.85	0.43	0.3	0.3	0.1	ND	0.21
BOD	EPA 405.1	1	mg/l	2.00	47.0	30.0	31.0	68.0	35.0	54.0	58.0	14.0	165	43.0
COD	EPA 410.4	1	mg/l	0.100	142	94	62	174	96	128	164	39	412	135
SC	EPA 120.1	1	µmhos/cm	0.100	296	307	428	297	369	201	330	57.9	11900	634
MBAS	EPA 425.1	1	mg/l	0.0500	0.15	0.13	0.13	0.14	0.13	0.12	0.16	ND	ND	ND
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	5.1	ND	ND	4.2	ND	ND	2.5	5.5
pH	EPA 150.1	1	pH Units	0.100	5.96	5.87	6.72	5.74	5.92	6.19	6.08	7.13	6.84	6.5
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	28.0	21.0	39.0	25.0	18.0	26.0	42.0	2.0	99.0	41.0
METALS (TOTAL)														
Aluminum	EPA 200.8	2	µg/L	50	190	140	2200	230	130	260	130	ND	ND	120
Copper	EPA 200.8	2	µg/L	2.0	350	670	34	590	470	120	110	5.6	39	140
Iron	EPA 200.8	2	µg/L	50	220	210	3000	380	220	5100	610	60	1000	200
Lead	EPA 200.8	2	µg/L	2.0	2.0	36	25	ND	ND	5.1	ND	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	500	300	180	1000	290	640	870	14	250	320
METALS (DISSOLVED)														
Copper	EPA 200.8	2	µg/L	2.0	320	610	13	590	440	51	92	2.9	21	120
Zinc	EPA 200.8	2	µg/L	2.0	480	280	14	1000	280	240	810	12	240	300
TOTAL PETROLEUM HYDROCARBONS (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	3.0	2.2	0.68	3.2	2.5	2.8	3.8	0.5	7.3	2.3
Jet-A	EPA 8015B	1	mg/l	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	1.5	1.0	0.82	1.9	1.5	2.0	2.0	0.4	5.9	2.0
GLYCOLS														
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND = Non Detect
NA = Not Applicable
1 = Grab samples were collected on 11/30/07 and composite samples were collected on 12/01/07

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2-12-01-07	S-B09-3/ S-B11-4-12-01-07	S-B06-12-12-01-07	S-B12-13-12-01-07	S-B08-14 12-01-07
CONVENTIONALS									
BOD	EPA 405.1	1	mg/l	2.00	32.0	40.0	11.0	13.0	14.0
COD	EPA 410.4	1	mg/l	0.100	89.0	127	28.0	36.0	39.0
SC	EPA 120.1	1	µmhos/cm	0.100	85.3	90.9	157	96.4	57.9
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	5.78	5.82	7.14	7.26	7.13
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	24.0	22.0	18.00	5.00	2.0
METALS (TOTAL)									
Aluminum	EPA 200.8	2	µg/L	50	110	120	79	ND	ND
Copper	EPA 200.8	2	µg/L	2.0	22	16	27	13	5.6
Iron	EPA 200.8	2	µg/L	50	150	180	150	87	60
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	100	120	68	38	14
METALS (DISSOLVED)									
Copper	EPA 200.8	2	µg/L	2.0	14	9.8	18	7.8	2.9
Zinc	EPA 200.8	2	µg/L	2.0	50	61	40	2.4	12
GLYCOLS									
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season

ND = Non Detect

NA = Not Applicable

COMPLIANCE SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results									
					C-B01-1-12-07-07	C-B03-2-12-07-07	C-B05-3-12-07-07	C-B05-4-12-07-07	C-B06-5-12-07-07	C-B07-6-12-07-07	C-B07-7-12-07-07	C-B08-8-12-07-07	C-B12-9-12-07-07	C-B09-10-12-07-07
CONVENTIONALS														
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	0.620	0.340	0.240	0.69	ND	0.170	0.230	0.130	ND	0.180
BOD	EPA 405.1	1	mg/l	2.00	38	23	24.0	53	61	6.4	58	14.8	70	13.0
COD	EPA 410.4	1	mg/l	0.100	127	78	51.0	152	131	23	164	45	287	48.0
SC	EPA 120.1	1	µmhos/cm	0.100	208	206	336	252	232	58.1	324	218	5510	258
MBAS	EPA 425.1	1	mg/l	0.0500	0.100	0.100	0.12	0.130	0.100	ND	0.150	0.120	ND	ND
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.35	6.67	6.76	6.79	6.29	7.08	6.38	6.94	6.28	6.68
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	4	3	7.0	10	7	5	10	5.0	4.0	18.0
METALS (TOTAL)														
Aluminum	EPA 200.8	2	µg/L	50	140	310	800	180	670	220	100	55	60	110
Copper	EPA 200.8	2	µg/L	2.0	93	220	17	210	130	57	66	69	32	43
Iron	EPA 200.8	2	µg/L	50	190	520	1100	240	840	2100	960	200	130	160
Lead	EPA 200.8	2	µg/L	2.0	ND	16	8.1	ND	2.7	4.2	2	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	140	160	58	320	120	490	510	160	85	110
METALS (DISSOLVED)														
Copper	EPA 200.8	2	µg/L	2.0	68	180	5.8	190	100	6.1	47	46	27	33
Zinc	EPA 200.8	2	µg/L	2.0	140	150	9.5	310	100	360	480	140	83	110
TOTAL PETROLEUM HYDROCARBONS (TPH)														
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	0.74	0.41	0.22	1.3	0.35	1.1	1.9	0.81	2.5	0.6
Jet-A	EPA 8015B	1	mg/l	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.91	0.37	0.30	1	0.42	0.99	1	0.64	1.4	0.74
GLYCOLS														
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND	ND	ND	ND	10.1	ND

Notes:

ND = Non Detect
NA = Not Applicable

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2-12-07-07	S-B09-3/ S-B11-4-12-07-07	S-B06-12-12-07-07	S-B12-13-12-07-07	S-B08-14 12-07-07
CONVENTIONALS									
BOD	EPA 405.1	1	mg/l	2.00	36.0	44.0	8.00	10.00	14.8
COD	EPA 410.4	1	mg/l	0.100	94	134	27.0	29.0	45
SC	EPA 120.1	1	µmhos/cm	0.100	130	159	158	159	218
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	5.94	5.88	7.28	7.35	6.94
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	12.0	10.0	3.00	3.00	5.0
METALS (TOTAL)									
Aluminum	EPA 200.8	2	µg/L	50	190	160	ND	ND	55
Copper	EPA 200.8	2	µg/L	2.0	39	32	16	22	69
Iron	EPA 200.8	2	µg/L	50	290	260	53	64	200
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	140	150	42	50	160
METALS (DISSOLVED)									
Copper	EPA 200.8	2	µg/L	2.0	23	22	9.9	13	46
Zinc	EPA 200.8	2	µg/L	2.0	110	140	37	45	140
GLYCOLS									
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season

ND = Non Detect

NA = Not Applicable

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results				
					S-B08-1/ S-B08-2-12-19-07	S-B09-3/ S-B11-4-12-19-07	S-B06-12-12-19-07	S-B12-13-12-19-07	S-B08-14 12-19-07
CONVENTIONALS									
BOD	EPA 405.1	1	mg/l	2.00	16.0	14.8	8.00	5.00	9.4
COD	EPA 410.4	1	mg/l	0.100	43	41	28.0	21.0	30
SC	EPA 120.1	1	µmhos/cm	0.100	106	115	225	182	205
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.83	6.76	6.81	6.62	6.75
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	11.0	9.0	1.00	2.00	ND
METALS (TOTAL)									
Aluminum	EPA 200.8	2	µg/L	50	98	150	110	ND	ND
Copper	EPA 200.8	2	µg/L	2.0	42	35	29	23	38
Iron	EPA 200.8	2	µg/L	50	82	120	92	ND	ND
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	ND	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	100	94	74	42	70
METALS (DISSOLVED)									
Copper	EPA 200.8	2	µg/L	2.0	32	28	18	17	29
Zinc	EPA 200.8	2	µg/L	2.0	97	81	47	31	63
GLYCOLS									
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	26.9	15.8	ND

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season

ND = Non Detect

NA = Not Applicable

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results					
					S-B08-1/ S-B08-2- 01-22-08	S-B09-3/ S-B11-4- 01-22-08	S-B08-8-01- 21-08	S-B06-12-01- 22-08	S-B12-13- 01-22-08	S-B08-14 01- 22-08
CONVENTIONALS										
BOD	EPA 405.1	1	mg/l	2.00	19.0	35.0	NA	21.0	29.0	25.0
COD	EPA 410.4	1	mg/l	0.100	99.0	163	NA	89.0	122	125
SC	EPA 120.1	1	µmhos/cm	0.100	128	111	NA	164	246	181
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	NA	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	7.19	7.21	NA	7.32	7.47	7.26
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	17.0	12.0	NA	4.00	3.00	3.00
METALS (TOTAL)										
Aluminum	EPA 200.8	2	µg/L	50	660	460	NA	170	120	130
Copper	EPA 200.8	2	µg/L	2.0	56	35	90	26	36	34
Iron	EPA 200.8	2	µg/L	50	1000	740	NA	250	220	170
Lead	EPA 200.8	2	µg/L	2.0	4.0	5.1	NA	4.2	ND	ND
Zinc	EPA 200.8	2	µg/L	2.0	180	140	31	89	81	110
METALS (DISSOLVED)										
Copper	EPA 200.8	2	µg/L	2.0	30	22	81	5.1	11	19
Zinc	EPA 200.8	2	µg/L	2.0	130	91	27	53	63	85
GLYCOLS										
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	ND	29.1	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	ND	ND	ND

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season.

However, site S-B08-8 had missing samples last year so a sample was collected at this site to complete the dataset for this location.

ND = Non Detect

NA = Not Applicable

SOURCE IDENTIFICATION/BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results					
					S-B08-2-02-04-08	S-B09-3/ S-B11-4-02-04-08	S-B12-7-02-03-08	S-B06-12-02-04-08	S-B12-13-02-04-08	S-B08-14 02-04-08
CONVENTIONALS										
BOD	EPA 405.1	1	mg/l	2.00	5.20	4.30	NA	4.90	6.40	5.50
COD	EPA 410.4	1	mg/l	0.100	22.6	20.5	NA	21.0	27.0	31.6
SC	EPA 120.1	1	µmhos/cm	0.100	77.6	79.2	NA	152	146	162
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	NA	ND	ND	ND
pH	EPA 150.1	1	pH Units	0.100	6.44	6.38	NA	7.71	7.48	7.35
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	4.00	3.00	NA	1.00	3.00	ND
METALS (TOTAL)										
Aluminum	EPA 200.8	2	µg/L	50	340	150	NA	150	150	ND
Copper	EPA 200.8	2	µg/L	2.0	24	16	37	12	31	22
Iron	EPA 200.8	2	µg/L	50	350	89	NA	120	180	ND
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	NA	3.5	2.1	ND
Zinc	EPA 200.8	2	µg/L	2.0	64	50	74	26	130	61
METALS (DISSOLVED)										
Copper	EPA 200.8	2	µg/L	2.0	19	15	19	8.5	26	21
Zinc	EPA 200.8	2	µg/L	2.0	47	50	44	14	110	58
GLYCOLS										
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	ND	ND	ND

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season

However, site S-B12-7 had missing samples last year so a sample was collected at this site to complete the dataset for this location.

ND = Non Detect

NA = Not Applicable

SOURCE IDENTIFICATION BMP EFFECTIVENESS SITES ANALYTICAL RESULTS

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results					
					S-B08-1/ S-B08-2-02-22-08	S-B09-3/ S-B11-4-02-22-08	S-B12-7-02-22-08	S-B06-12-02-22-08	S-B12-13-02-22-08	S-B08-14 02-22-08
CONVENTIONALS										
BOD	EPA 405.1	1	mg/l	2.00	9.2	7.3	NA	NM	NM	NM
COD	EPA 410.4	1	mg/l	0.100	40	31	NA	NM	NM	NM
SC	EPA 120.1	1	µmhos/cm	0.100	60.7	75.8	NA	NM	NM	NM
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	NA	NM	NM	NM
pH	EPA 150.1	1	pH Units	0.100	6.19	6.11	NA	NM	NM	NM
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	4.0	6.0	NA	NM	NM	NM
METALS (TOTAL)										
Aluminum	EPA 200.8	2	µg/L	50	290	140	NA	NM	NM	NM
Copper	EPA 200.8	2	µg/L	2.0	16	16	16	NM	NM	NM
Iron	EPA 200.8	2	µg/L	50	340	150	NA	NM	NM	NM
Lead	EPA 200.8	2	µg/L	2.0	ND	ND	NA	NM	NM	NM
Zinc	EPA 200.8	2	µg/L	2.0	55	47	27	NM	NM	NM
METALS (DISSOLVED)										
Copper	EPA 200.8	2	µg/L	2.0	9.7	14	11	NM	NM	NM
Zinc	EPA 200.8	2	µg/L	2.0	39	41	23	NM	NM	NM
GLYCOLS										
Ethylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	NM	NM	NM
Propylene Glycol	EPA 8015B	2	mg/l	10	ND	ND	NA	NM	NM	NM

Notes:

Sites S-B05-5 through S-B06-11 were not scheduled to be monitored in 2007-2008 season.

However, site S-B12-7 had missing samples last year so a sample was collected at this site to complete the dataset for this location.

Sites S-B06-12 through S-B08-14 were not scheduled to be monitored for the last storm event in the 2007-2008 season.

ND = Non Detect

NA = Not Applicable

NM = Not Monitored

Appendix D

Storm Water Management Plan Revisions

TABLE 3 – Monthly Inventory of Active Construction Sites – June 30, 2008

#	Sponsor	Project Name	Project Description	Start Date	Priority
1	Authority	CIP#4051 Misc. Interior Improvements	Interior remodeling at various locations throughout the Terminals	October 2007	Medium
2	Tenant	HMS Host – Interior Improvements	Add Chili's 2 Restaurant to T1 Food Court	February 2008	Medium
3	Tenant	Improve Runway 09 Localizer	FAA project to improve localizer antenna	May 2008	Medium

* All construction Projects at SAN are located within the Pueblo San Diego Hydrologic Unit, San Diego Mesa Hydrologic Area, Lindbergh Hydrologic Sub-area (908.21)


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Table 5 Tenant – Specific Industrial Activity Summary

TENANTS	SUMMARY OF INDUSTRIAL ACTIVITY CATEGORIES (See Appendix ___ For Associated BMPs)	AIRCRAFT					VEHICLES AND EQUIPMENT				OTHER															
		Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Aircraft Deicing/Anti-Icing	Lavatory Service Operation	Outdoor Equipment Ops and Maintenance Areas	Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Non-Storm Water Management	Outdoor Loading/Unloading of Materials	Outdoor/Indoor Material Storage	Waste Handling and Disposal	Building and Grounds Maintenance	Employee Training	Outdoor Washdown/Sweeping (Apron Washing, Ramp Scrubbing)	Fire Fighting Foam Discharge	Potable Water System Flushing	Runway Rubber Removal	Parking Lots	Storm Drain Maintenance	Housekeeping	Safer/Alternative Products	Spill Prevention, Control, and Clean-up	Treatment Controls
		SC02B	SC03	SC04	SC05	SC11	SC02A	SC02B	SC03	SC04	SC01	SC06	SC07	SC08	SC09	SC10	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SR01	TCO1
AeroMexico	SC01, 02A, 02B, 03, 07, 08, 10, 18, 19, SR01	O	O				O	I/O	O		I/O		I	X		X							O	X	O	
Alaska	SC01, 02A, 02B, 03, 04, 05, 07, 08, 10, 11, 12, 14, 18, 19, SR01	O	O	O	O	O	O	O	O	O	I/O		I	I		X	O		X				X	X	I/O	
Allied Aviation	SC01, 02A, 02B, 03, 06, 07, 08, 09, 10, 12, 13, 16, 17, 18, 19, SR01, TC01	O	O				O	O	O		I/O	O	O	O	X	X	O	O				O	O	O	X	O	O
American Airlines	SC01, 02A, 02B, 03, 04, 05, 07, 08, 10, 11, 12, 14, 17, 18, 19, SR01, TC01	O	O	O	O	O	O	I	O	O	I/O		I/O	I/O		X	O		O			O	I	X	O	O
American Eagle	SC01, 02A, 02B, 03, 04, 10, 11, 12, 14, 17, 18, 19, SR01	O	O	O		O	O	I	O	O	I/O					X	O		O			O	I/O	X	O	
ARFF	SC01, 02A, 02B, 03, 04, 07, 08, 10, 13, 16, 17, 18, 19, SR01						O	I	I	O	I/O		I	I/O		X		O			O	O	I/O	X	I/O	
ASIG	SC01, 02A, 02B, 03, 04, 06, 07, 08, 10, 12, 16, 17, 18, 19, SR01		O				O	I	O	O	I/O	O	I/O	I		X	O				O	O	I/O	X	I/O	
BAX Global	SC01, 02A, 02B, 03, 04, 05, 06, 07, 08, 10, 12, 18, 19, SR01	O	O		O		O	O	O	O	I/O	O	O	O		X	O						O	X	O	
Continental	SC01, 03, 10, 12, 17, 18, 19, SR01		O						O		I/O					X	O					O	O	X	O	
Delta	SC01, 02A, 02B, 03, 04, 06, 07, 08, 10, 11, 12, 17, 18, 19, SR01	O	O			O	O	I/O	O	O	I/O	O	I/O	I/O		X	O					O	I/O	X	O	
DHL	SC01, 02A, 02B, 03, 04, 06, 07, 08, 10, 12, 18, 19, SR01	O	O	X			O	O	O	X	I/O	O	I/O	I/O		X	O						I/O	X	I/O	
Elite Line Services	SC01, 02A, 02B, 03, 04, 07, 08, 10, 12, 17, 18, 19, SR01						O	X	X	I/O	I/O		O	O		X	O					O	O	X	O	

Table 5 Tenant – Specific Industrial Activity Summary (continued)

TENANTS	SUMMARY OF INDUSTRIAL ACTIVITY CATEGORIES (See Appendix ___ For Associated BMPs)	AIRCRAFT					VEHICLES AND EQUIPMENT				OTHER															
		Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Aircraft Deicing/Anti-Icing	Lavatory Service Operation	Outdoor Equipment Ops and Maintenance Areas	Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Non-Storm Water Management	Outdoor Loading/Unloading of Materials	Outdoor/Indoor Material Storage	Waste Handling and Disposal	Building and Grounds Maintenance	Employee Training	Outdoor Washdown/Sweeping (Apron Washing, Ramp Scrubbing)	Fire Fighting Foam Discharge	Potable Water System Flushing	Runway Rubber Removal	Parking Lots	Storm Drain Maintenance	Housekeeping	Safer/Alternative Products	Spill Prevention, Control, and Clean-up	Treatment Controls
		SC02B	SC03	SC04	SC05	SC11	SC02A	SC02B	SC03	SC04	SC01	SC06	SC07	SC08	SC09	SC10	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SR01	TCO1
Exec Air	SC01, 02A, 02B, 03, 04, 07, 08, 10, 12, 17, 18, 19, SR01	O					O	I	X	O	I/O		I	I		X	O					O	I/O	X	I/O	
Express Jet	SC01, 02A, 02B, 03, 04, 10, 11, 12, 14, 18, 19, SR01	O	O			O	O	X	O	O	I/O					X	O		O				O	X	I/O	
FedEx	SC01, 02A, 02B, 03, 06, 07, 08, 09, 10, 12, 17, 18, 19, SR01	O	O				O	O	O		I/O	O	O	I/O	O	X	O					O	O	X	O	
Frontier	SC01, 02A, 02B, 03, 07, 10, 11, 12, 13, 18, 19, SR01	O	O			O	O	I/O	X		I/O		O			X	O	O					O	X	O	
Hawaiian	SC01, 02A, 02B, 03, 10, 12, 17, 19	O	O				O	X	O		I/O					X	O					O		X		
HMS Host	SC01, 04, 06, 08, 09, 10, 12, 17, 18, 19, SR01									X	I/O	O		I/O	I/O	X	O					O	I/O	X	I/O	
Jet Blue	SC01, 03, 07, 10, 12, 17, 18, 19, SR01		O								I/O		O			X	O					O	O	X	O	
Jet Wash	SC01, 02A, 02B, 04, 07, 08, 10, 17, 18, 19, SR01			O			O	X		O	I/O		O	O		X						O	O	X	O	
Jimsair	SC01, 02A, 02B, 03, 04, 06, 07, 08, 09, 10, 11, 12, 14, 16, 18, 19, SR01	I	O				O	O	O	O	I/O	O	I/O	I/O	I/O	X	O		O		O		I/O	X	I/O	
LPI	SC01, 02A, 02B, 03, 04, 07, 08, 10, 12, 16, 17, 18, SR01						O	O	O	O	I/O		O	O		X	O				O	O	O		O	
Midwest	SC01, 02B, 03, 10	O	O					I/O	O		I/O					X										
Northwest	SC01, 02A, 02B, 03, 04, 07, 08, 10, 11, 12, 14, 18, 19, SR01	O	O	O		O	O	I	O	X	I/O		I/O	I/O		X	O		O				I/O	X	I/O	
SDCRAA	SC01, 02A, 02B, 03, 04, 06, 07, 08, 09, 10, 11, 12, 15, 16, 17, 18, 19, SR01, TC01						O	O	O	O	I/O	O	I/O	I/O	I/O	X	O			O	O	O	I/O	X	I/O	O

Table 5 Tenant – Specific Industrial Activity Summary (continued)

TENANTS	SUMMARY OF INDUSTRIAL ACTIVITY CATEGORIES (See Appendix ___ For Associated BMPs)	AIRCRAFT					VEHICLES AND EQUIPMENT				OTHER															
		Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Aircraft Deicing/Anti-Icing	Lavatory Service Operation	Outdoor Equipment Ops and Maintenance Areas	Aircraft, Ground Vehicle and Equipment Maintenance	Aircraft, Ground Vehicle and Equipment Fueling	Aircraft, Ground Vehicle and Equipment Cleaning	Non-Storm Water Management	Outdoor Loading/Unloading of Materials	Outdoor/Indoor Material Storage	Waste Handling and Disposal	Building and Grounds Maintenance	Employee Training	Outdoor Washdown/Sweeping (Apron Washing, Ramp Scrubbing)	Fire Fighting Foam Discharge	Potable Water System Flushing	Runway Rubber Removal	Parking Lots	Storm Drain Maintenance	Housekeeping	Safer/Alternative Products	Spill Prevention, Control, and Clean-up	Treatment Controls
		SC02B	SC03	SC04	SC05	SC11	SC02A	SC02B	SC03	SC04	SC01	SC06	SC07	SC08	SC09	SC10	SC12	SC13	SC14	SC15	SC16	SC17	SC18	SC19	SR01	TCO1
Sky West	SC01, 02A, 02B, 03, 04, 07, 08, 10, 11, 12, 14, 18, 19, SR01	O	O	X		O	O	O	O	X	I/O		O	X		X	O		O				O	X	O	
Southwest	SC01, 02A, 02B, 03, 04, 05, 06, 07, 08, 10, 11, 12, 14, 17, 18, 19, SR01	O	O		O	O	O	I/O	O	O	I/O	O	I/O	I/O		X	O		O			O	I/O	X	I/O	
SPC Airport Services	SC01, 02A, 02B, 03, 04, 07, 08, 10, 12, 17, 18, 19, SR01						O	O	O	X	I/O		I/O	I/O		X	O					O	O	X	O	
United	SC01, 02A, 02B, 03, 04, 06, 07, 08, 10, 11, 12, 18, 19, SR01	O	O	O		O	I/O	I/O	O		I/O	O	I/O	I/O		X	O						I/O	X	I/O	
UPS	SC01, 02A, 02B, 03, 04, 06, 07, 08, 10, 12, 17, 18, 19, SR01	O	O	X			O	O	O	X	I/O	O	O	O		X	O					O	O	X	O	
US Airways	SC01, 02A, 02B, 03, 04, 07, 08, 10, 11, 12, 14, 17, 18, 19, SR01	O	O			O	O	I	O	I/O	I/O		I/O	I		X	I		O			O	I/O	X	I/O	
Virgin America	SC01, 03, 07, 10, 12, 17, 18, 19, SR01		O								I/O		O			X	O					O	O	X	O	

Industrial Activity Category

SC01 - Non-Storm Water Management
SC02A - Outdoor Equipment Ops and Maintenance Areas
SC02B - Aircraft, Ground Vehicle and Equipment Maintenance
SC03 - Aircraft, Ground Vehicle and Equipment Fueling
SC04 - Aircraft, Ground Vehicle and Equipment Cleaning
SC05 - Aircraft Deicing/Anti-Icing
SC06 - Outdoor Loading/Unloading of Materials
SC07 - Outdoor/Indoor Material Storage
SC08 - Waste Handling and Disposal
SC09 - Building and Grounds Maintenance
SC10 - Employee Training
SC11 - Lavatory Service Operation
SC12 - Outdoor Washdown/Sweeping (Apron Washing, Ramp Scrubbing)
SC13 - Fire Fighting Foam Discharge
SC14 - Potable Water System Flushing
SC15 - Runway Rubber Removal
SC16 - Parking Lots
SC17 - Storm Drain Maintenance
SC18 - Housekeeping
SC19 - Safer/Alternative Products
SR01 - Spill Prevention, Control, and Clean-up
TC01 - Treatment Controls

Codes:

BMP - Best Management Practices
O - The industrial activity is performed by the tenant outdoors
I - The industrial activity is performed by the tenant indoors
I/O - The industrial is performed by the tenant both indoors and outdoors
X - Indicates the activity applies to the tenant identified, without distinction regarding indoor/outdoor

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