

San Diego County Regional Airport Authority

Fiscal-Year 2009-2010

Annual Illicit Discharge Detection

and Elimination Report

December 2010

# **Municipal Stormwater Permit**

# Fiscal-Year 2009-2010 Annual IDDE Report

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Statement of Certification
for the Fiscal Year 2009-2010
Annual Report for the Illicit
Discharge Detection and Elimination
Component of The Airport Authority
Storm Water Management Program

"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:

December 6, 2010

Signature:

Paul Manasjan

Printed Name:

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

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

Cc: Paul Manasjan, Director, Environmental Affairs

Zane Gresham, Morris & Foerster





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Fiscal Year 2009-2010 Annual Report for the Illicit Discharge Detection and Elimination Component of the Airport Authority Storm Water Management Program

#### 1 INTRODUCTION

The San Diego County Regional Airport Authority (Authority) submits this Fiscal Year 2009-2010 Annual Report for the Illicit Discharge Detection and Elimination Component of the Airport Authority Storm Water Management Program (FY09-10 Annual IDDE Report) in compliance with Addendum 2 to 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). Addendum 2 was adopted in September of 2008 and modified Section J.3.a of the Municipal Permit to require that, beginning 2008, the annual report containing the comprehensive description of all activities conducted to meet Section D.4 of the Permit be submitted on December 15 of each year and that the report cover the dry season of May 1 through September 30 of that year. In following the reporting outline created by the Copermittees, which puts illicit discharge detection and elimination (IDDE) in the same chapter as other monitoring efforts, this report describes specific stormwater management activities related to IDDE conducted by the Authority during the dry weather season of 2010 (May 1 through September

30) and the wet weather monitoring conducted during the period of July 1, 2009 to June 30, 2010 (fiscal year 2009-2010). These two efforts are collectively referred to as the Authority's Urban Runoff Monitoring Program.

The Authority owns and operates the San Diego International Airport (SDIA or SAN). The entire jurisdictional area of the Authority consists of the airport itself - approximately 660 acres, less than 2 miles northwest of downtown San Diego, and adjacent to San Diego Bay. More than 85% of the airport property is covered by impervious surfaces. Stormwater runoff from SDIA discharges into San Diego Bay through 14 storm drain outfalls.

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. SDIA is located on State of California tidelands that are held in trust for the benefit of the citizens of California. As such, there is no private property and no residential population within the Authority's jurisdictional boundaries. 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 Municipal Permit specifies the waste discharge requirements for discharges of urban runoff from the MS4s of the jurisdictions named therein and referred to as the Copermittees. The Municipal Permit outlines the responsibilities of 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 Authority prepared a Storm Water Management Plan (SWMP) in March of 2008 to fulfill the Municipal Permit requirement to prepare a JURMP Document.

Section 9 of the SWMP describes the IDDE program conducted by the Authority. The IDDE program builds on several elements of the Authority's stormwater management program, which together create a comprehensive approach to preventing, detecting, and eliminating illegal discharges and illicit connections. 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.

The FY09-10 Annual IDDE Report presents a compilation of the Authority's stormwater illicit discharge detection and elimination management efforts as well as the Authority's wet weather monitoring program in the following order:

- 1 Introduction
- 2 Public Reporting of Illicit Discharges and Connections
- 3 Spill Reporting, Response, and Prevention
  - 3.1 IDDE Reporting and Response
  - 3.2 Sanitary Sewage Spill Prevention and Response
  - 3.3 Used Oil and Toxic Materials Disposal
- 4 Urban Runoff Monitoring
  - 4.1 Dry Weather Monitoring
  - 4.2 Airport Wet Weather Monitoring
- 5 Follow-up and Enforcement
- 6 Program Review and Modification

The 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 SWMP for SDIA. Staff from these departments is integral to eliminating and reducing pollutants in stormwater runoff and to ensuring the Authority's compliance with the Municipal Permit.

#### 2 PUBLIC REPORTING OF ILLICIT DISCHARGES AND CONNECTIONS

Authority regulations prohibit illegal discharges and illicit connections. Along with the Environmental Affairs Department's stormwater inspection program, 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. 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 FY09-10, there were a total of 140 IDDE events identified as a part of the stormwater inspection program, or reported to the Authority using either the telephone numbers or the web pages noted above. These 140 IDDE events are discussed further in Section 3.1 below and listed in Appendix A.

## 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. The information in Table 1 highlights the regular inspection activities conducted by the Environmental Affairs Department during the reporting period.

Taken as a whole, these surveillance and inspection activities represent the site-wide and MS4-specific inspection elements of the IDDE program at SDIA.

TABLE 1 - IDDE MS4 INSPECTION AND MONITORING CONDUCTED DURING FY09-10

Date	Inspection Element
9/29-30/09	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
12/7/09	Monthly Wet Weather Visual Observations – samples collected
12/15-16/09	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
1/18/10	Monthly Wet Weather Visual Observations – samples collected
02/27/10	Monthly Wet Weather Visual Observations
3/6/10	Monthly Wet Weather Visual Observations
3/26/10 & 3/29/10	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
4/5/10	Monthly Wet Weather Visual Observations
April – May 2010	Quarterly Authorized/Unauthorized Non-Stormwater Discharge Monitoring
5/18/10	Dry Weather Monitoring (2010 Dry Weather Season)
6/15/10	Dry Weather Monitoring (2010 Dry Weather Season), sampling and follow up for 5/18/10 sampling event
7/14/10	Dry Weather Monitoring (2010 Dry Weather Season), sampling and follow up for 6/15/10 sampling event
8/12/10	Dry Weather Monitoring - follow-up to 7/14/10 sampling event

# 3.1 IDDE REPORTING AND RESPONSE

Appendix A presents information on the 140 IDDE events which were identified during a routine inspection or reported to the Authority's 24-hour telephone line or reported directly to the Environmental Affairs Department during the reporting period. The Environmental Affairs Department



classified each incident into one of the nine categories shown in Table 2. The nature and disposition of all 140 IDDE incidents noted in Table 2 are presented in Appendix A.

TABLE 2 - SUMMARY OF IDDE INCIDENTS BY CATEGORY AS REPORTED DURING FY09-10\*

Incident Category	Number of Incidents*
Improper Storage	43
Trash Spill - Airside	34
Trash Spill - Landside	25
Petroleum Spill - Airside	15
Sewage/Triturator	10
Construction Maintenance	5
Petroleum Spill - Landside	4
Integrated Pest Management	3
Unauthorized Discharge	1

<sup>\*</sup>See Appendix A for detailed descriptions of each incident.

The most frequently reported type of incident was improper storage, comprising 31% of the total. "Improper Storage" was a new category added to the Authority's IDDE event tracking list last fiscal year after an evaluation of our inspection program data. This issue is partially related to a lack of indoor storage area available for use by airport tenants. The Authority has tried to focus education opportunities on this issue and will continue to track improper storage as an IDDE event in order to improve implementation of proper best management practices related to material and waste storage.

Incidents related to trash and non-petroleum spills that occurred on the airside were the second most frequently reported type of IDDE event, comprising 24% of the total. The "Trash-Spill Airside" IDDE category has been one of the most frequently reported issues for many of the last seven fiscal years. 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 increases the chances that a "trash or non-petroleum spill" will occur on the airside.

Trash and non-petroleum spills that occurred on the landside comprise 18% of the total number of events listed in Table 2. The "Trash -Spill Landside" IDDE category has historically also been one of the more frequently reported issues. This is partially reflective of the impact that approximately 60,000 people a day coming to the airport can have on the facility and also reflects the constant vigilance and scrutiny of Authority staff and airport tenants on site conditions.

Petroleum spills on the airside were the fourth most frequently reported type of IDDE event, comprising 11% of the total. Approximately 400,000 gallons of jet fuel are 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 five gallons and all spills are cleaned up immediately.

The sewage related IDDE issues listed in Table 2 comprise 7% of the total, which is the same percentage as last fiscal year. These incidents are discussed in Section 3.2 below.

Construction maintenance incidents, petroleum spills that occurred on the landside and issues related to the Authority's Integrated Pest Management (IPM) program represented 4%, 3%, and 2% of the total, respectively. Only one incident categorized as an "unauthorized discharge" occurred during FY09-10 and this represented less than 1% of the total. Relevant aspects of any significant spills or releases are discussed below in Section 5.

## 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 2 above and as detailed in Appendix A, there were 10 IDDE incidents related to sewage at SDIA during the reporting period, as compared to 14 last fiscal year. Two of these incidents involved the triturator,



which is part of the sewage disposal system used to discharge waste from aircraft lavatories 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. The two IDDE incidents at the triturator involved evidence that lavatory waste had been trailed out of the containment area by the lavatory waste truck. Each of these issues was addressed immediately, the spills were cleaned up, and neither of these events impacted the stormwater conveyance system.

Of the eight remaining IDDE sewage incidents that did not involve the triturator, seven involved sewage leaks from buildings or the sanitary sewer line on the landside and airside. One incident involved a leaking port-a-potty in a parking lot. Each of these issues was addressed immediately, the spills cleaned up, and the problems corrected. None of these eight IDDE incidents related to sewage impacted the stormwater conveyance system.

#### 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 also 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 these materials through licensed handlers. The Authority provides information to tenants to help facilitate their own disposal needs, when asked or when necessary. Additionally during FY09-10, the Authority hosted electronic and universal waste collection events on August 20-21, 2009, January 21, 2010, and April 23, 2010. These three 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 3 lists the hazardous materials disposed of by the Authority during FY09-10, a portion of which includes the universal waste collected at the electronic and universal waste collection events.

TABLE 3 - HAZARDOUS WASTES DISPOSED OF BY THE AUTHORITY DURING FY09-10

Description of Waste	Quantity Disposed
Hazardous Waste, Solid	1,222 lbs
Hazardous Waste, Corrosive Liquid	31 gal
Hazardous Waste, Aerosols, Flammable	130 lbs
Hazardous Waste, Flammable Liquid (Paints and Thinners)	454 gal
Asbestos and Non-friable Waste	4,190 lbs
Non-RCRA Hazardous Waste, Solid (Absorbent, Soil, Toner, and Debris)	117,440 lbs
Non-RCRA Hazardous Waste, Solid (Oily Debris and/or Diesel)	2,200 lbs
Non-RCRA Hazardous Waste, Liquid	3,815 gal
Non-Hazardous Waste, Solid (Soil)	16,615 lbs
Non-Hazardous Waste, Liquid (Rinse Water)	380 gal
Waste Flammable Solid, Organic	2,850 lbs
Universal Waste (Fluorescent Lamps, Monitors, Alkali and/or Rechargeable Batteries)	6,435 lbs

# **4 URBAN RUNOFF MONITORING**

The Authority conducts or participates in urban runoff monitoring programs to meet requirements of the Municipal Permit. Several of these programs are carried out collectively and reported on separately 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 FY09-10 is presented below.

## 4.1 DRY WEATHER MONITORING

The Municipal Permit requires the Authority to develop a program 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 (POCs). 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 five 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 and the City of San Diego on the same day. This coordinated monitoring is done in order to more effectively identify potential illicit discharges that may cross jurisdictional boundaries and better facilitate upstream source identification.

The Authority has implemented a dry weather monitoring program since 2003. Over the past seven 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. During the 2010 dry weather monitoring season, two sites could not be sampled due to construction activity (namely CB01-1 and CB12-9) and alternate sites used. There were three dry weather monitoring events scheduled during the 2010 dry weather season; May 18, 2010, June 15, 2010, and July 14, 2010. There were also three follow-up investigations for the 2010 dry weather season conducted in response to the lab results from the initial dry weather monitoring events. Follow ups were conducted on June 15, 2010 for the May monitoring event, July 14, 2010 for the June monitoring event, and August 12, 2010 for the July monitoring event.

Samples were taken at all sites with flowing or ponded water. Due to the airport's proximity to San Diego Bay, tidal intrusion is common within the Authority's MS4, and therefore conductivity is 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.

Each site was also subject to an evaluation of how much trash was present at the site during each monitoring event based on a five level rating system. The rating system, developed by the Copermittees, is described below.

Optimal - On first glance, no trash visible. Little or no trash (<10 pieces) evident when area is closely examined for litter and debris.

Suboptimal - On first glance, no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.

Marginal - Trash is evident in low to medium levels (~50-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.

Submarginal - Trash distracts the eye on first glance. Evaluated area contains substantial levels of littler and debris (>100-400 pieces). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.

Poor - Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

At the Airport, trash is considered "foreign object debris (FOD)" and can easily become a serious safety hazard for aircraft and particularly jet engines. Anyone working on the airside is trained to be especially mindful of, to be vigilant for, and to pick up FOD. This mind set is reflected in the fact that 80% of our sites received optimal ratings during all three monitoring events and none of the sites received below a suboptimal rating during any of the monitoring events.

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 CB01-1 – due to construction an alternate site in the same vicinity was used for the 2010 dry weather monitoring events. The site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the May 18, 2010 and June 15, 2010 monitoring events, sediment and gravel were present in the catch basin. No other field characteristics were noted during any of the three monitoring events. Because the site was dry each time, no further field analyses or laboratory analyses were performed.

Site CB03-2 – no overland flow was observed but water was present and the site was determined to be tidally influenced during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The results of conductivity testing conducted during the June 15, 2010, and July 14, 2010 monitoring events suggested that the water resulted from seawater intrusion; therefore, no further field analyses were conducted and no laboratory analyses were performed. During the May 18, 2010 monitoring event, field analysis showed the water to be brackish, but the field conductivity measures read lower than usually observed in past experiences. Field screening was conducted and pH seemed abnormally low at 6.02. Lab samples, including pH, were collected to investigate the inconsistency. Laboratory samples collected resulted in no exceedence and the lab reported pH as 6.72. Since the field pH meter had been calibrated, the discrepancy in pH could have resulted from the lag time between the insitu measurement and the lab analysis, which was a few hours later. Based on the lower than normal pH and the low conductivity, it was thought that potentially dust control water from the nearby taxiway construction project was having an impact on this catch basin. However, when a visual investigation was conducted for possible sources, none were identified. Since there were no other exceedances reported by the laboratory and the pH issue was not repeated as a part of any of the subsequent monitoring events, impacts from the construction project were ruled out and no follow-up monitoring nor analyses were performed.

Site CB05-3 - 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 during the dry season to control dust at the parking lot. Ponded water, likely due to the watering truck, was observed during all three monitoring events; namely, May 18, 2010, June 15, 2010, and July 14, 2010. During the June 15, 2010, and July 14, 2010 monitoring events, sediment/gravel was observed in the catch basin

but no other field characteristics were noted during any of the three monitoring events. Field screening on all three days showed no action level exceedances and, therefore, laboratory analyses were not necessary.

Site CB05-4 - no overland flow was observed but water was present during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During all three monitoring events sediment/gravel and fine particulates were observed in the catch basin. Based on the high level of conductivity measured at this site, which suggested that the water present was seawater, the site was determined to be tidally influenced and no further field analyses or laboratory analyses were performed.

Site CB06-5 – the site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the May 18, 2010 monitoring event fine particulates were present and during the June 15, 2010 event sediment and gravel were present in the catch basin. No other field characteristics were noted during any of the three monitoring events. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB07-6 – no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The site was noted as moist but with no ponded water on May 18, 2010, and June 15, 2010, and dry for the July 14, 2010 monitoring event. Fine particulates were observed in the catch basin during all three events, with insects noted in May and sediment/gravel noted in July. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB07-7 - the site was dry and no evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. During the June monitoring event sediment/gravel were observed and during the July event fine particulates were observed. No other field characteristics were noted during any of the three monitoring events. Because the site was dry, no further field analyses or laboratory analyses were performed.

Site CB08-8 – ponded water was present during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events and the August 12, 2010 follow up event. The ponded water at the site ranged in color from yellow to brown, was slightly cloudy to opaque, and trash, sheen, and oily deposits were present. During all four events there was evidence of overland flow. During



the May and August events the odor at the site was musty and insects and fine particulate were present. A chemical and sewage odor was noted during the July monitoring event. For all monitoring events, reconnaissance was conducted at the time, but no potential sources were identified. Follow-up field visits were conducted on June 15, 2010, July 14, 2010, and August 12, 2010, in response to the lab results from the initial monitoring events. The May 18, 2010 field screening resulted in excess ammonia and MBAS, however, due to the color of the water, confidence in the field screening was low. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, and zinc were reported. The June 15, 2010 field screening resulted in excess ammonia, nitrate, and MBAS, however, due to the color of the water, confidence in the field screening was again low. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, zinc, lead, enterococcus, fecal and total coliform were reported. The July 14, 2010 field screening resulted in excess ammonia and phosphorus, however, confidence in the field screening was once again low due to the color of the water. Analytical laboratory samples were therefore taken and exceedences for cadmium, copper, and zinc were reported. On August 12, 2010, a set of follow up samples to test for cadmium, copper, and zinc were collected and resulted in exceedances for copper and zinc only. Although none of the investigations found evidence of an illegal discharge in the vicinity, nor identified upstream sources, the source of the ponded water at this site is likely the potable water flushed from the hoses at each gate that deliver potable water to the airplanes. The manufacture of the potable water supply system instructs the airline ramp crews to flush the hose before filling the plane. It is likely that this water carries some pollutants into the slit trench storm drains at this location, which then become pooled in the low spots of the conveyance. This may concentrate the pollutants in the bottom of the slit trench storm drains where the samples are taken.

Site CB12-9 - alternate site SB12-13 was monitored during the 2010 dry weather season, since construction activity made CB12-9 inaccessible. No evidence of overland flow was observed during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. The site was wet during all three events but there was not enough water present to sample. Sediment/gravel was observed in the catch basin during the May event and fine particulates were observed in June. No further field analyses or laboratory analyses were performed at this site during any of the monitoring events.

Site CB09-10 – the site was dry during the May 18, 2010, June 15, 2010, and July 14, 2010 monitoring events. No evidence of overland flow was observed in May or June when the catch basin was dry. However, evidence of irrigation runoff was observed during the July monitoring event, although no water was present in the catch basin. Insects were observed in the catch basin during all three monitoring events, and sediment and gravel were observed in June. No further field analyses or laboratory analyses were performed at this site during any of the monitoring events.

Table 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 POCs identified as a result of sampling and analysis.

During the 2010 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, namely, CB03-2, CB05-3, and CB08-8. As noted below, there were no unauthorized discharges identified as a result of the dry weather monitoring activities conducted during the 2010 dry weather monitoring season.

Field sampling of the ponded water at Site CB03-2 historically has shown that the site is tidally influenced. This was reaffirmed at both the June and July monitoring events at this site. During the May monitoring event, field analysis showed the water to be more brackish than clearly tidal. Field screening was conducted and pH seemed abnormally low, so samples were collected for laboratory analyses to investigate the inconsistency. Laboratory sample results showed no exceedences, and the lab reported the pH to be near normal at 6.72. None of the investigations found evidence of an illegal discharge in the vicinity of CB03-2 nor conclusively identified possible upstream sources that would account for the anomaly. Because the lab reported no other exceedances, and the pH was normal at the two subsequent monitoring events, no further investigations were conducted and no further field analyses or laboratory analyses were performed.



Field sampling of the ponded water at Site CB05-3 did not exceed action levels during all three monitoring events during the 2010 dry weather season. As such, there was no requirement to collect a sample for laboratory analysis. The results for Site CB05-3 are similar to the results from the FY08-09, FY07-08 and FY06-07 dry weather monitoring programs.

Site CB08-8 had ponded water during the three regularly-scheduled monitoring events, as well as a fourth follow up event in August. Laboratory analyses were performed for all four events of the 2010 dry weather season at this site, because results from the field test kits could not be interpreted and/ or were inconclusive due to the color of the water collected. The laboratory data for all four of the 2010 monitoring events at Site CB08-8 showed exceedances for copper and zinc, with three events also showing exceedances for cadmium, and one event showing exceedances for enterococcus, fecal coliforms and total coliforms. The laboratory results suggesting copper and zinc as potential POCs are consistent with the results of the Authority's wet weather monitoring program. The exceedances at this site are thought to be partially attributable to water that reaches the slit trench storm drains at this location. That water source appears to be the potable water hoses used by the airline ramp crews to fill aircraft. This water potentially carries some pollutants into the slit trench storm drains, where it can pool and concentrate pollutants in the low spots of the conveyance system, where the monitoring samples are collected. These slit trench storm drains are currently cleaned on a quarterly basis and efforts are being made to implement additional BMPs, as necessary, to control these pollutants and prevent them from reaching the receiving waters.

TABLE 4 - DRY WEATHER MONITORING PROGRAM SAMPLE SITES DURING FY09-10

Site ID	Site Description	Monitoring / Sampling Dates	Type of Analyses (S, F, L)	Potential Pollutant(s) of Concern Identified
CB01-1**	Alternate site to the north west of CB01-1 was used due to construction	5/18/10		
		6/15/10		
		7/14/10		
CB03-2	Grated inlet inside zipper	5/18/10*	F, L	
	line, south of runway, near B1-D sign	6/15/10* (routine investigation and follow up)	S	
		7/14/10*	S	
CB05-3	Grated inlet within the	5/18/10*	F	
	rental car holding lot	6/15/10*	F	
		7/14/10*	F	
CB05-4	Grated inlet, south of run- way, north of generator yard	5/18/10*	S	
		6/15/10*	S	
		7/14/10*	S	
CB06-5	Grated inlet southeast of	5/18/10		
	control tower	6/15/10		
		7/14/10		
CB07-6	Inlet pipe, in manhole west	5/18/10		
	of oil water separator in cargo area	6/15/10		
		7/14/10		
CB07-7	Grated inlet south of	5/18/10		
	cargo area, west of West Wing	6/15/10		
		7/14/10		



Site ID	Site Description	Monitoring / Sampling Dates	Type of Analyses (S, F, L)	Potential Pollutant(s) of Concern Identified
CB08-8 Grated inlet northwest of Terminal 1 East, across from Gate 8	Terminal 1 East, across	5/18/10*	F, L	Cadmium, Copper, and Zinc
	from Gate 8	6/15/10* (routine investigation and follow up)	F, L	Cadmium, Copper, Zinc, Lead, Enterococcus, Fecal and Total Coliform
	7/14/10*(routine investigation and follow up)	F, L	Cadmium, Copper, and Zinc	
		8/12/10* (follow up)	L	Copper and Zinc
CB12-9**	Alternate site SB12-13 used due to construction	5/18/10 6/15/10 7/14/10		
CB09-10	Manhole near Terminal 2 Parking Entrance, on north side	5/18/10 6/15/10		
		7/14/10		

<sup>\*</sup> Site had sufficient water to sample

# 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 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 three objectives of the program:

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

<sup>\*\*</sup>Alternate site used due to construction

S = Sample conductivity suggests seawater and no further analyses conducted.

F = Field analyses conducted.

L = Laboratory analyses conducted.

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

BMP Effectiveness sampling - a multi-year effort to monitor the performance and effectiveness of BMPs. Structural and non-structural BMP performances 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 POCs) below benchmark values and whether BMPs are achieving the short-term and long-term pollutant load reduction objectives developed by the Authority for the primary POCs at SDIA (specifically, copper and zinc).

The sampling locations for the wet-weather monitoring program 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 4 above. There are fourteen sampling locations used in the source identification monitoring effort 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, 7 sampling locations were selected from the 14 source identification sampling locations to minimize the number of sampling locations, while maintaining the statistical strength of program.

The results of the FY09-10 wet weather monitoring program were detailed by MACTEC Engineering and Consulting, Incorporated, in a report entitled "2009-2010 Storm Water Sampling Summary Report," and dated September 2010. In FY09-10, sampling was only performed for the Compliance and BMP Effectiveness portions of the wet-weather monitoring program. Sampling for Source Identification analysis was completed in the previous sampling seasons (2006-2007 and 2007-2008) and discussed in previous annual reports. The FY09-10 wet weather season resulted in a total rainfall of 10.53 inches at SDIA, which is slightly more than the annual total average rainfall of 10.2 inches. During the FY09-10 wet weather season, sampling activities were performed during six storm events. Table 5 provides a summary of the total rainfall and duration of each of these six storms.



TABLE 5 - FY09-10 SAMPLED STORM EVENT SUMMARY

Event	Date	Total Rainfall (inches)	Event Duration (hours)	
1	12/7/09	1.33	11.1	
2	12/11/09	0.07	8.9	
3	1/18/10	1.02	17.5	
4	1/26/10	0.07	4.9	
5	2/5/10	0.68	24	
6	2/19/10	0.30	8.3	
Total Rattored Ev	infall from Moni- rents	3.47		

#### **COMPLIANCE SAMPLING**

The compliance sampling element of the program was completed during the first three storm events of the season, which occurred December 7, 2009, December 11, 2009, and January 18, 2010. A sample was not collected from site CB03-2 during the December 11<sup>th</sup> storm event due to an equipment failure, so a sample was collected at this site during the January 18<sup>th</sup> storm event. A total of 20 compliance samples were collected over the two storm events at 10 sampling sites. A summary of the results, showing median, maximum, and minimum values, along with the coefficient of variance, is presented in Table 6.

Table 7 shows a comparison of the median concentrations for the compliance sampling program POCs to the benchmarks concentrations, as well as the number of benchmark exceedances that occurred. Oil and grease, total suspended solids, total lead and ethylene glycol did not exceed the benchmarks. Total zinc, dissolved copper and total copper had exceedance frequencies of 80%, 90%, and 100% respectively. Ammonia, total aluminum, and dissolved zinc had exceedance frequencies of 50%, 50%, and 65% respectively. The remaining POCs exceeded the benchmarks in 45% or less of the samples. These results are consistent with historical data for POCs at SDIA.

TABLE 6 - FY09-10 COMPLIANCE SAMPLING ANALYTICAL RESULTS SUMMARY

Pollutant of Concern	Units	Median	Coefficient of Variance (%)	Maximum Value	Minimum Value	Number of Samples
Ammonia as N	mg/L	2.28	58.9	6.7	0.9	20
BOD	mg/L	27.6	76.5	89	ND <sup>(a)</sup>	20
COD	mg/L	100.5	77.6	325	5	20
SC	μmhos/cm	248.5	129.0	2220	56	20
Oil & Grease	mg/L	1.0	51.6	3.1	ND <sup>(a)</sup>	20
рН	pH Units	7.18	10.7	9.96	6.35	20
TSS	mg/L	16.5	65.0	42	2	20
Aluminum, Total	μg/L	750	105.4	4,300	56	20
Copper, Total	μg/L	135	114.4	910	23	20
Iron, Total	μg/L	915	92.0	4,400	ND <sup>(a)</sup>	20
Lead, Total	μg/L	6.05	92.5	24	ND <sup>(a)</sup>	20
Zinc, Total	μg/L	225	91.9	1,200	24	20
Copper, Dissolved	μg/L	98.5	129.5	850	9.8	20
Zinc, Dissolved	μg/L	165	104.0	1,100	9.7	20
Ethylene Glycol	mg/L	5	0	ND <sup>(a)</sup>	ND <sup>(a)</sup>	20
Propylene Glycol	mg/L	5	0	17.3	ND <sup>(a)</sup>	20
MBAS	mg/L	0.15	48.4	0.31	ND <sup>(a)</sup>	20
Diesel Range Organics	mg/L	0.025	0	ND <sup>(a)</sup>	ND <sup>(a)</sup>	20
Jet-A	mg/L	0.405	87.3	1.5	ND <sup>(a)</sup>	20
Oil Range Organics	mg/L	0.575	96.0	2.7	ND <sup>(a)</sup>	20

<sup>(</sup>a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.



TABLE 7 - COMPARISON OF FY09-10 COMPLIANCE SAMPLING RESULTS TO ANALYTE BENCHMARKS

Pollutant of Concern (units)	Median Concentration <sup>(a)</sup>	Benchmark	No. of Analyses	No. of Exceedances	Exceedance Frequency(%)
Ammonia-N (mg/L)	2.28	2.14	20	10	50
BOD (mg/L)	27.6	30	20	9	45
COD (mg/L)	101	120	20	9	45
Specific Conductivity (µmhos/cm)	249	900	20	2	10
Oil & Grease (mg/L)	1	15	20	0	0
pH (pH unit)	7.18	6.0 - 9.0	20	1	5
TSS (mg/L)	16.5	100	20	0	0
Aluminum, Total (μg/L)	750	750	20	10	50
Copper, Total (μg/L)	135	14	20	20	100
Copper, Dissolved (µg/L)	98.5	14	20	18	90
Iron, Total (µg/L)	915	1,000	20	7	35
Lead, Total (μg/L)	6.05	82	20	0	0
Zinc, Total (μg/L)	225	120	20	16	80
Zinc, Dissolved (µg/L)	165	120	20	13	65
Ethylene Glycol (mg/L)	5	100	20	0	0

<sup>(</sup>a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.

#### SOURCE IDENTIFICATION SAMPLING

All source identification sampling was completed in previous sampling seasons (2006-2007 and 2007-2008). Results and discussions of this sampling were presented in previous annual reports.

## BMP EFFECTIVENESS SAMPLING

The source identification sampling and BMP effectiveness monitoring efforts are designed to help assess the need for changes in the stormwater management program at the airport. Continued future sampling efforts are designed to identify POC sources and evaluate the effectiveness of BMP implementation. The BMP effectiveness element of the wet weather

monitoring program is designed as a six-year study, with the first three years dedicated to study calibration and the following three years designed to evaluate the implementation of various of BMP treatment options. The 2009-2010 storm water season should have been the first sampling season of the three-year treatment period monitoring for the paired watershed study. However, due to budget constraints and the initiation of the Green Build (Terminal Expansion) project in a parking lot that represented one of the paired watersheds, BMP recommendations from the 2008-2009 Storm Water Sampling Summary Report that would enhance or add source control BMPs in the paired watershed study test areas were not implemented. Consequently, the BMP effectiveness monitoring sampling from the 2009-2010 season represents the fourth year of the calibration period.

Table 8 presents the summary statistics (median, maximum, and minimum values, number of samples, along with the coefficient of variance) on analytical results from all BMP effectiveness samples collected for the past four storm water seasons (2006-2007, 2007-2008, 2008-2009, and 2009-2010).

## 5 FOLLOW-UP AND ENFORCEMENT

Each of the IDDE incidents listed in Table 2 were resolved in the manner noted in Appendix A. Virtually all of the incidents noted in Table 2 and described in Appendix A 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.

One incident classified as an "unauthorized discharge," occurred in FY09-10. On April 23, 2010, staff from the Authority Environmental Affairs

Department witnessed an unauthorized discharge of diesel fuel from a rental car company passenger bus at the Airport Commuter Terminal. Ocean Blue Environmental was called in for response and clean up. Fuel was captured in the MS4 and did not reach the bay. The rental car company was directed to submit a written signed report to the Authority Environmental Affairs



TABLE 8 - BMP EFFECTIVENESS SAMPLING ANALYTICAL RESULTS SUMMARY, 2006 - 2010

Pollutant of Concern	Units	Median	Coefficient of Variance (%)	Maximum Value	Minimum Value	Number of Samples
BOD	mg/L	15.4	81.0	84.0	ND <sup>(a)</sup>	108
COD	mg/L	41.5	78.1	218	2.0	108
SC	μmhos/cm	118	236	4,390	39	108
Oil & Grease	mg/L	1.0	54.3	4.00	ND <sup>(a)</sup>	108
рН	pH Units	7.0	7.60	8.92	5.5	108
TSS	mg/L	6.0	128	91.0	ND <sup>(a)</sup>	108
Aluminum, Total	μg/L	145	169	5,200	ND <sup>(a)</sup>	108
Copper, Total	μg/L	32	90.6	330	5.4	108
Iron, Total	μg/L	165	168	6,000	ND <sup>(a)</sup>	108
Lead, Total	μg/L	1.0	174	55.5	ND <sup>(a)</sup>	108
Zinc, Total	μg/L	110	70.8	560	14	108
Copper, Dissolved	μg/L	18.5	80.6	120	2.9	108
Zinc, Dissolved	μg/L	63.5	74.4	320	2.4	108
Ethylene Glycol	mg/L	5.0	50.5	29.1	ND <sup>(a)</sup>	108
Propylene Glycol	mg/L	5.0	102	58.0	ND <sup>(a)</sup>	108

<sup>(</sup>a) Half of the detection limit was used as the data point for statistical analysis of results that were not detected.

Department detailing: 1) the events related to the illegal discharge of April 23, 2010, 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 3) the methods and proposed schedule for ensuring that all of the company's personnel are properly informed of the SDCRAA Storm Water Code and the BMPs required for use in conducting their daily activities. These requested measures were completed and/or submitted successfully by the company. No other unauthorized discharges occurred during FY09-10.

## 6 PROGRAM REVIEW AND MODIFICATION

This Annual IDDE Report has been prepared to meet the requirements of Addendum 2 to the Municipal Permit. As such, this is the third year the results of a complete dry weather season monitoring program have been presented in a single report and the second year that they have been combined in this report with our wet weather compliance sampling in order to discuss our urban runoff monitoring efforts as a whole. Information presented throughout this report and the 2009-2010 Municipal Annual Report (particularly Chapter 11-Effectiveness Assessment Component), supports a determination that the Authority's stormwater management efforts, including the IDDE and wet weather compliance sampling components, have proven to be effective and are in general compliance with the Municipal Permit. There are no program modification proposed at this time.





# Appendix A

FY09-10 Illicit Discharge Dectection and Elimination Report Log

Fiscal Year 2009-2010 Annual IDDE Report for Municipal Stormwater Permit	



Subject	Date	Description
.,		Trash cans observed outdoors without lids. Antifreeze bottles stored outside without secondary containment.
Improper Storage	7/9/2009	Bags of trash were on ground. Small pile of sand/sediment in parking lot. Tenant notified.
Sewage Spill	7/9/2009	Stains and evidence of leaking observed near port-a-potty located in valet lot. Tenant notified.
Trash-Spill Landside	7/9/2009	Broken sandbags surrounding drains at taxi hold lot. Contacted Ocean Blue Environmental.
January or Charage	7/40/2000	Hydraulic fluid drum stored outside in storage area near air traffic control tower without proper overhead
Improper Storage	7/16/2009	cover. Tenant notified.
Improper Storage Petroleum-Spill Airside	7/16/2009 7/16/2009	Fuel drum stored outside near air traffic control tower without overhead cover. Tenant notified.  Fresh oil stains near fueling area. Tenant notified.
Petroleum-Spill Airside	7/16/2009	Airport Traffic Officer reported anti-freeze spill curbside check-in. Maintenance enroute.
Petroleum-Spill Landside	7/17/2009	Airport Traffic Officer reported which leaking fluid near the crosswalk in T2. Maintenance advised.
Trash-Spill Airside	7/17/2009	Trash bags on back of cabin cleaning truck observed not property covered. Tenant notified.
Trash-Spill Airside	7/17/2009	Vehicle reported with fluid leak near crosswalk. Maintenance advised.
Trash-Spill Airside	7/17/2009	Trash bags on back of cabin cleaning truck not properly covered. Notified tenant.
Trash-Spill Airside	7/17/2009	Anti-freeze spill curbside check-in. Maintenance notified.
Trash-Spill Airside	7/18/2009	Received report of trash cans overflowing on taxi cab island in T2. Notified Flagship.
Trash-Spill Landside	7/18/2009	Trash cans overflowing on taxi cab island. Notified Flagship.
Sewage Spill	7/22/2009	Leak outside (sanitary water line) the bldg between. Maintenance plumber notified.
Sewage Spill	7/22/2009	Additional leak outside (sanitary water line) bldg between gates. Maintenance plumber notified.
Improper Storage	7/23/2009	Improper storage of 55-gallon drums located at North Ramp. Tenant notified.
Trash-Spill Landside	7/23/2009	Trash and cigarette litter at shuttle bus parking lot. Maintenance notified
Trash-Spill Airside	7/26/2009	Trash cans in baggage area full. Notified Flagship.
Trash-Spill Airside	7/26/2009	Trash cans in bag make-up area full. Notified Flagship.
		Airline reported fuel spill at gate. Fuel contained with speedy dry. No storm drains affected. Airport Rescue
Petroleum-Spill Airside	7/27/2009	and Fire Fighting, Harbor Police, and Air Traffic Control Tower notified.
Trash-Spill Landside	7/27/2009	Garbage spill on Spruance. Ocean Blue Environmental contacted.
Trash-Spill Airside	7/28/2009	Trash cans overflowing on taxi island. Notified Flagship.
Trash-Spill Landside	7/28/2009	Trash cans overflowing on taxi island. Notified Flagship.
		Report of sewage back-up at gate ramp side. Notified Maintenance/Plumber and Air Ops. Ocean Blue
Sewage Spill	7/30/2009	Environmental contacted.
		Sewage emerging from ground at gate ramp side. Notified Maintenance Plumber and Air Ops. Ocean Blue
Sewage Spill	7/30/2009	Environmental contacted.
0 0 111	_ /0.0 /0.00	Additional sewage back-up at gate ramp side. Notified Maintenance /Plumber and Air Ops. Ocean Blue
Sewage Spill	7/30/2009	Environmental contacted.
Improper Storage	7/31/2009	Drums on north west side of runway need secondary containment. Tenant notified.
Sewage Spill	7/24/2000	Host reports sewage back-up near gate ramp side. Notified Maintenance/Plumber and Air Ops. Ocean Blue
Petroleum-Spill Landside	7/31/2009 8/2/2009	Environmental contracted.  Airport Traffic Officer reported transmission fluid curbside near AA check-in area. Notified Maintenance.
Trash-Spill Airside	8/2/2009	Water overflowing from eye wash station ramp side. Notified Maintenance.
Trash-Spill Airside	8/2/2009	Broken glass in street near baggage claim. Notified Flagship.
Trash-Spill Airside	8/2/2009	Water overflowing from eye wash station ramp side. Notified Maintenance.
Trash-Spill Landside	8/2/2009	Transmission fluid curbside check-in area. Notified Maintenance.
Trash-Spill Landside	8/2/2009	Broken glass in street between check-in and baggage claim. Notified Flagship.
Trash-Spill Landside	8/4/2009	Vomit curbside baggage claim. Flagship advised.
Trash-Spill Airside	8/5/2009	Evidence of oil stains in operation area. Tenant notified.
Trash-Spill Landside	8/5/2009	Trash overflowing curbside. Notified Flagship.
Trash-Spill Landside	8/5/2009	Trash overflowing curbside. Notified Flagship.
		Harbor Police reported minor fuel spill at gate. No storm drains effected. Environmental Affairs notified. No
Petroleum-Spill Airside	8/11/2009	action needed.
Improper Storage	8/14/2009	Trash left out at gate. Tenant notified.
Improper Storage Improper Storage	8/14/2009 8/14/2009	Unlabeled and uncontained drum at gate. Tenant notified.
Improper Storage Improper Storage	_	Unlabeled and uncontained drum at gate. Tenant notified. Pallets left between gates. Tenant notified.
Improper Storage	8/14/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside	8/14/2009 8/14/2009 8/14/2009 8/14/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009	Unlabeled and uncontained drum at gate. Tenant notified. Pallets left between gates. Tenant notified. Staining under jet bridge at gates. Tenant notified. Grit/trash accumulation by gate. Tenant notified. Vomit near curbside check-in. Notified Flagship.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside Trash-Spill Airside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside Trash-Spill Airside Trash-Spill Airside Trash-Spill Landside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009	Unlabeled and uncontained drum at gate. Tenant notified. Pallets left between gates. Tenant notified. Staining under jet bridge at gates. Tenant notified. Grit/trash accumulation by gate. Tenant notified. Vomit near curbside check-in. Notified Flagship. Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant. Trash overflowing near curbside check-in. Notified Flagship. Trash overflowing on transportation island. Flagship advised. Trash can overflow near curbside check-in. Notified Flagship.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/15/2009 8/16/2009 8/16/2009 8/17/2009 8/17/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/17/2009 8/23/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/17/2009 8/23/2009 8/26/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/23/2009 8/25/2009 8/27/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/23/2009 8/26/2009 9/2/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.  Overflowing trash curbside. Flagship advised.  Rat in cabinet across from ticket counter. Maintenance notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside IPM Trash-Spill Airside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/17/2009 8/23/2009 8/27/2009 9/2/2009 9/4/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.  Overflowing trash curbside. Flagship advised.  Rat in cabinet across from ticket counter. Maintenance notified.  Observed empty motor oil bottles on ground near and under dumpster. Tenant notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside IPM Trash-Spill Airside Trash-Spill Airside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/23/2009 8/27/2009 9/2/2009 9/17/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.  Overflowing trash curbside. Flagship advised.  Rat in cabinet across from ticket counter. Maintenance notified.  Observed empty motor oil bottles on ground near and under dumpster. Tenant notified.  Trash compactor area disorganized. Flagship notified.
Improper Storage Improper Storage Petroleum-Spill Airside Trash-Spill Airside Trash-Spill Landside IPM Trash-Spill Airside	8/14/2009 8/14/2009 8/14/2009 8/14/2009 8/15/2009 8/16/2009 8/16/2009 8/16/2009 8/17/2009 8/17/2009 8/23/2009 8/27/2009 9/2/2009 9/4/2009	Unlabeled and uncontained drum at gate. Tenant notified.  Pallets left between gates. Tenant notified.  Staining under jet bridge at gates. Tenant notified.  Grit/trash accumulation by gate. Tenant notified.  Vomit near curbside check-in. Notified Flagship.  Trash near stairs and on backs of provisioning and lavatory trucks. Contacted tenant.  Trash overflowing near curbside check-in. Notified Flagship.  Trash overflowing on transportation island. Flagship advised.  Trash can overflow near curbside check-in. Notified Flagship.  Debris from minor accident. Notified Maintenance.  Vomit curbside check-in area. Notified Flagship.  Leaking pipe in the UA Baggage Screening Area. Maintenance notified.  Overflowing trash curbside and cleanup needed at gate. Flagship notified.  Overflowing trash curbside. Flagship advised.  Rat in cabinet across from ticket counter. Maintenance notified.  Observed empty motor oil bottles on ground near and under dumpster. Tenant notified.

Subject	Date	Description
		Used absorbent was observed under gate. Significant amount of trash/debris accumulated near gate. Trash
	1	can without lid was observed between gates. Chemicals and equipment improperly stored under gate.
Improper Storage	9/29/2009	Tenant notified.
impropor Ciorago	0/20/2000	Fuel truck accident resulted in 1-2 gal spill completely contained within the re-loading bay. Allied notified of
Petroleum-Spill Airside	9/29/2009	situation.
Petroleum-Spill Airside	9/29/2009	Used absorbent observed in fuel truck parking area. Tenant notified.
Trash-Spill Airside	9/29/2009	Used absorbent observed in several locations in cargo yard. Tenant notified.
Trash-Spill Airside	9/29/2009	Trash/sediment accumulated by gate. Tenant notified.
Trash-Spill Airside	9/29/2009	Observed trash accumulated by blast fence behind gate. Ocean Blue Environmental contacted.
Trasii opiii / trisiae	0/20/2000	Observed evidence of outdoor hand washing (bottles of hand soap and FOD can observed without lid. Tenant
Trash-Spill Airside	9/29/2009	notified.
Trash-Spill Airside	9/29/2009	Observed trash receptacles with missing lids near gate. Tenant notified.
Trash-Spill Airside	9/29/2009	Several trash cans observed without lids near operational area. Tenant notified.
Trash-Spill Landside	9/29/2009	Vomit at curbside check-in. Flagship notified.
Improper Storage	9/30/2009	Drum stored outside without overhead cover. Tenant notified.
Petroleum-Spill Airside	10/1/2009	Fuel spill at gate. Tenant notified.
Tetroleum opin Anside	10/1/2003	Harbor Police reported truck with hydraulic leak east of cargo building. Maintenance cleaned up
Petroleum-Spill Airside	10/10/2009	approximately 1 gallon fluid; no storm drains effected.
IPM	10/26/2009	Report of mouse near gates. Notified Maintenance.
	+	
Petroleum-Spill Airside Trash-Spill Landside	10/27/2009	Ground service equipment between gates leaking. Noticeable fresh oily stains. Tenant notified.  Trash overflowing on transportation island. Notified Flagship.
	11/29/2009	
Trash-Spill Airside Trash-Spill Landside	12/1/2009	Underground water leak near gate. Maintenance plumber notified.
		Smoke emitting from cigarette can curbside. Notified Maintenance.
Trash-Spill Airside	12/2/2009	Accumulated trash observed behind the blast fence across from triturator. Maintenance department notified.
Trash-Spill Landside	12/2/2009	Runoff from the boiler area was observed at the central plant. Authority maintenance department notified.
Construction Maintenance	12/15/2009	Sediment observed on ramp from completed construction project at gate. Contractor notified.
I managan Chana na	40/45/0000	Drum and open box of motor oil cans observed without proper secondary containment on the ramp between
Improper Storage	12/15/2009	gates. Tenant notified.
Trash-Spill Airside	12/15/2009	Evidence of outdoor hand washing, including hand soap and hose, observed under gate. Tenant notified.
Trash-Spill Airside	12/15/2009	Trash storage bin left open while not in use. Tenant notified.
Trash-Spill Airside	12/15/2009	Accumulated trash observed on ground around base of grease container. Notified tenant.
Improper Storage	12/16/2009	Boxes and cans of chemicals left without proper secondary containment. Tenant notified.
		Construction to improve trash compactor area on airside negatively impacting storm drain. Trench cut into
Construction Maintenance	12/21/2009	asphalt near storm drain causing mud from trench to cover area and storm drain. Contractor notified.
<u></u>		Observed tenant backing fuel truck without guide and operating lavatory truck at unsafe speed causing the
Trash-Spill Airside	12/25/2009	truck to leak. Notified tenant.
Petroleum-Spill Airside	1/8/2010	Oily fluid along lead in line at gate. Tenant notified.
Trash-Spill Airside	1/13/2010	Trash and debris accumulated in dumpster area. Notified Flagship.
		Open trench with loose dirt from pavement cutting conducted near runway lighting vault buildings with no
Construction Maintenance	1/15/2010	protection for nearby storm drain. Contractor notified.
Sewage Spill	1/15/2010	Toilet paper trails emerging from both ends of triturator shed. Ocean Blue Environmental contacted.
		White liquid and powder (dry wall mud) along curb leading to storm drain at west end of commuter terminal
Construction Maintenance	2/1/2010	building (by pet relief area). Contractor notified.
Petroleum-Spill Landside	2/26/2010	Adjacent to Building A, fuel cans and staining present and employee hosing ground. Tenant notified.
Petroleum-Spill Airside	3/2/2010	Inspector observed fuel truck with leak underneath. No drip pan being used. Tenant notified.
	0.000	Broken pallets left by gate. Boxes of motor oil with no secondary containment by gate. FOD buckets without
Improper Storage	3/26/2010	lids in various areas. Tenant notified.
	1	Trash bins left open by gate. Messy grease trap area between gates. Many spills and used absorbent
	0.000	present. Trash accumulation by grease bin between gates. Containers with coffee grounds outdoors without
Improper Storage	3/26/2010	lids. Trash accumulation around base of grease bin at Terminal connector dumpster area. Tenant notified.
Improper Storage	3/26/2010	Disorganized work and laydown area. Improper storage of equipment/supplies. Tenant notified.
	1	Lavatory chemical bottles stored under gate. Multiple outdoor trash containers without lids. Trash can with
Improper Storage	3/26/2010	trash tipped over to dry. Tenant notified.
Petroleum-Spill Airside	3/26/2010	Badly leaking/staining equipment between gates. Tenant notified.
Trash-Spill Airside	3/26/2010	Absorbent bags broken open. Tenant notified.
Improper Storage	3/29/2010	Full dumpster with no cover in valet parking lot near gate. Tenant notified.
		Trash can without lid. Fresh staining in shop needs absorbent. "Ice inhibitor" chemical not stored under a
Improper Storage	3/29/2010	cover. Tenant notified.
Improper Storage	3/29/2010	Trash accumulating around storm drain and along fence behind dumpsters. Tenant notified.
Improper Storage	3/29/2010	"Quickcrete" bags stored outside without proper secondary containment. Tenant notified.
Petroleum-Spill Airside	3/29/2010	Leaking equipment. Tenant notified.
Sewage Spill	4/18/2010	Flagship reports water rising from drain in women's restroom ramp side. Notified Maintenance.
Improper Storage	4/19/2010	Trash cans by gate need lids. Tenant notified.
Improper Storage	4/22/2010	Oily equipment stored by the doorway in the shop area. Tenant notified.
Trash-Spill Landside	4/23/2010	Suspected diesel spill curbside near the Rental Car departure. Ocean Blue Environmental contacted.
•	•	•

Subject	Date	Description
Unauthorized Discharge	4/23/2010	Diesel fuel spill from shuttle bus on North Harbor Drive to the Commuter Terminal Curbside. HPD, SDCRAA Maintenance and SDCRAA Environmental on scene. Ocean Blue Environmental called in for response and clean up. Shuttle bus company called to advise that the spill originated in the car lot. Fuel was captured in the MS4 and did not reach the bay.
Improper Storage	4/26/2010	No lids on outdoor trash cans. Tenant notified.
Improper Storage	4/27/2010	Outdoor trash cans without lids. Tenant notified.
Improper Storage	4/28/2010	FOD bucket without lid. Tenant notified.
Improper Storage	4/28/2010	Lids needed for outdoor trash cans. Improper chemical storage (soap). Tenant notified.
Improper Storage	4/29/2010	Oil cans need to be moved onto spill containment pallet. Grease buckets need to be moved under cover and stored on spill containment pallet. FOD buckets without lids. Tenant notified.
Petroleum-Spill Airside	5/3/2010	Tug receiving maintenance fallen off vehicle lift located in maintenance building and leaking oil.  Approximately 1/2 gal of oil / diesel leaked from the tug. Tenant in process of cleaning up spill; no storm drains affected.
Improper Storage	5/4/2010	FOD buckets without lids. Tenant notified.
Improper Storage	5/4/2010	Covered area tarp needs repair. No drip pans for trucks. No lids on outdoor trash cans. Unused drip pans stored outdoors. Tenant notified.
Sewage Spill	5/4/2010	Toilet paper/waste trails coming from triturator building and along airport perimeter roadway. Ocean Blue Environmental contacted.
Improper Storage	5/5/2010	FOD buckets without lids. Spill pallet was filling with water. Tenant notified.
Improper Storage	5/6/2010	Opened chemical and gas containers not on spill pallet. Tenant notified.
Improper Storage	5/7/2010	Grease stored in buckets (non-closed containers). Tenant notified.
Improper Storage	5/7/2010	Radiator fluid in gate area possible spill hazard. Tenant notified.
Improper Storage	5/11/2010	FOD and trash without lids. Tenant notified.
Improper Storage	5/11/2010	Outdoor recycling container on porch needed lid. Tenant notified.
Improper Storage	5/12/2010	Drums without overhead cover. Tenant notified.
		Maintenance reported diesel fuel spill, possible 1 or 2 gallons, Harbor Drive leading into Commuter Terminal.
Petroleum-Spill Landside	5/18/2010	Notified Airport Operations and Harbor Police.
Trash-Spill Airside	5/18/2010	Truck parked near gate ramp side leaking. Notified Operations.
Improper Storage	5/21/2010	FOD bucket without lid. Tenant notified.
Trash-Spill Landside	5/22/2010	Windows near terminal checkpoint shattered due to demolition activity. Maintenance cleaning up debris.
Improper Storage	6/3/2010	FOD bucket on jet bridge without lid. Tenant notified.
IPM	6/3/2010	Bees reported at gate ramp nesting in baggage containers. Notified Maintenance.
Construction Maintenance	6/4/2010	Construction Equipment/Sweeper hydraulic line burst. Picked up with absorbent. No storm drains affected.
		FOD buckets on jet bridges without lids. Outdoor trash can near baggage area observed without lid. Improper storage/messy area by gate. Improper storage of oil cans between gates. Box of oil cans saturated. Tenant
Improper Storage	6/10/2010	notified.
		FOD bucket without lid at gate bridge. Lid was missing on trash bin filled with water, trash, and a motor oil
Improper Storage	6/10/2010	bottle. Tenant notified.
Improper Storage	6/10/2010	Drums without covers. Tenant notified.
Improper Storage	6/11/2010	No lids on FOD buckets at gate. Tenant notified.
Trash-Spill Landside	6/18/2010	Vomit curbside baggage claim. Notified Flagship.
Trook Crill Airrid	6/04/0040	North end of building 2412 have broken sandbags. Runway lighting vault buildings have trash pile. Drums without covers, broken clamshell containers, broken glass on the ground, multiple areas with broken sand, trash accumulation, paint chips on ground from stencils, lighters on the ground, and disintegrating plastic all
Trash-Spill Airside	6/21/2010	observed at boneyard. Maintenance notified.



# Appendix B

2010 Dry Weather Monitoring Field Data Sheets, Trash Assessment Forms and Lab Reports

Fiscal Year 2009-2010 Annual IDDE Report for Municipal Stormwater Permit	



## DRY WEATHER MONITORING EVENT 1 (5/18/10)

	x Field Screenin	ng Co	onfirmation	For			_	C/ID Fo	ollow-Up F	or	
GENERAL	L SITE DESCR	IPTION		(N	IAD 8	3 decimal deg	rees to 5th	nlace)		MS4 Re	ceiving Water
Site ID	CB01-1*			Latitude		(e.g., 33.41174 32.73283	4)		Hydrolog	**	(e.g., 7.00) 908
Location	Catch basin nea	ır landmark		Longitue	de	(e.g., -117.352 -117.17764	213)	Watershed	Hydrolog	gic Area	(e.g., 7.10) 908.2
Date	5/18/2010			TB Page	;	1288 H1		hed	Hydrolog (Optional)	gic Subarea )	(e.g., 7.11) 908.21
Time	0741			Observe	r	KG, AM			harge Are	a	
Land Use (Check one		Residen	itial Cor	nmercial	x Ir	ndustrial	Agricu		Parks	(	)pen
(Optional,	( <b>Secondary)</b> greater than 10%	) Residen	tial Cor	nmercial	x Ir	ndustrial	Agricu	ıltural	Parks	Open	None
(Check one		Manhol	e x Catch	Basin	Ou	TIPT	oncrete nnel		Natural eek (	Earthen Channel	Curb/Gutte
ATMOSP	HERIC CONDI	TIONS				· · · · · · · · · · · · · · · · · · ·		_			
Weather	Sunny	Partly Clo	udy Ove	ercast x	Fog	***************************************					
Tide	N/A	x Low		····	High	<u> </u>	Outgoir	ıg	Tide Heig	g <b>ht:</b> ft.	
Last Rain	x > 72 hours	< 72 hours		X	<del></del>	***************************************	<u> </u>				
Rainfall	x None	< 0.1"	> 0.	1"							
RUNOFF	CHARACTERI	STICS	***************************************								
Odor	x None	Musty	Ro	tten Eggs		Chemic	cal	Sex	vage	Othe	r
Color	x None	Yellow		own		White	<u></u>	Gra	·····-	Othe	
Clarity	Clear	***************************************		ghtly Cloud	dv	Opaque	e.	Ore		x Othe	
Floatables	***************************************	Trash		bbles/Foan		Sheen		Fec	al Matter	Othe	
Deposits	None	x Sediment/Gra		ne Particula		Stains			y Deposits	Othe	
Vegetation		Limited		rmal		Excess	ive	<u> </u>	y Deposits	Othe	
Biology	x None	Insects		·····	nails		els/	Insect/	Insec Snail		
Water Flo	ow Flow	ing Pond	ed x Dry	Tid	lal						
Does the s	torm drain flow	reach the Rec	eiving Wate	r?		Yes	N	o x	N/A		
Evidence o	of Overland Flo	w? 3	es x No	Irriga	tion l	Runoff	Other:				
Photo Tak	en x Yes		Photo #								
Field Screen	ning Samples Co	ollected?	Yes x No		•		_				
Water Tem			N (mg/L)		1	NO3-N (mg/I	L)	· · ·	Ortho	)-PO <sub>4</sub> (mg/L)	
pH (pH units			B (NTU)		_	COND (mS/				S (mg/L)	· <del>                                      </del>
Analytical	Lab Samples C	ollected?	Yes	No			jā		=3		
FLOW ES	TIMATION W	ORKSHEETS	<u> </u>			<del></del> -				<del></del>	
	Creek or Box (	Culvert	Fillin	g a Bottle	or K	nown Volu	ıme			Flowing Pip	e
Width		ft	Volume				mL		Diameter		ft
Depth		ft	Time to Fil	1			sec		Depth		ft
Velocity		ft/sec	Flow				gpm		/elocity		ft/sec
Flow		gpm	L					[F	Flow		gpm
COMMEN	TS· *altern	ate site used d	ue to constr	uction	2.						

	X Field Screening Confirmation For IC/ID Follow-Up For										
GENERAL	L SITE DESCRI	PTION	(NAD	83 decimal degrees to 5th pl	lace) MS4 I	Receiving Water					
Site ID	CB03-2		Latitude	(e.g., 33.41174) 32.72864		(e.g., 7.00) 908					
Location	Catch basin @ S	S. end of blast fence	Longitude	(e.g., -117.35213) -117.17843	Hydrologic Unit Hydrologic Area Hydrologic Subarea	(e.g., 7.10) 908.2					
Date	5/18/2010		TB Page	1288 J1	Hydrologic Subarea (Optional)	(e.g., 7.11) 908.21					
Time	0934		Observer	KG, AM	Discharge Area (Optional)						
Land Use (Check one	• • •	Residential C	ommercial x I	ndustrial Agricult		Open					
(Optional,	( <b>Secondary)</b> greater than 10%)	Residential C	ommercial x I	ndustrial Agricult	ural Parks Open	None					
(Check one		Manhole x Cate	h Basin O	utlet Concrete Channel	Natural Earthen Creek Channel	Curb/Gutte					
ATMOSP	HERIC CONDIT	TIONS				*					
Weather	Sunny	Partly Cloudy x O	vercast Fog								
Tide	N/A		coming Hig	***************************************	Tide Height:f	it.					
Last Rain	x > 72 hours	< 72 hours		9							
Rainfall	x None	< 0.1" >	0.1"								
RUNOFF	CHARACTERIS										
Odor	x None	Musty 1	Rotten Eggs	Chemical	Sewage Otl	205					
Color	x None		Brown	White	Gray Otl						
Clarity	Clear		lightly Cloudy	Opaque	Otay Oti						
Floatables			Bubbles/Foam	Sheen	Fecal Matter Otl						
Deposits	None		ine Particulates	Stains							
Vegetation			Normal	Excessive							
Biology	x None	Insects Algae	Fish Snail	······	Oth nsect/ Insect/ Oth ae Snail	······					
Water Flo	w Flowi	ing Ponded D	ry x Tidal	Darmetes Aig	ac Shan						
Does the s	torm drain flow	reach the Receiving Wa	ter?	Yes No	x N/A						
Evidence o	of Overland Flow	v? Yes x No	Irrigation	Runoff Other:							
Photo Tak	en Yes	x No Photo #									
Field Screen	ning Samples Co	llected? x Yes N	0								
Water Tem			<del>0</del> 7	NO <sub>3</sub> -N (mg/L) .85	Ortho-PO <sub>4</sub> (mg/L)	<1					
pH (pH units			7.2	COND (mS/cm) 11	MBAS (mg/L)	1					
Analytical	Lab Samples Co	ollected? x Yes	No		1.22120 (mg/s)						
FLOW ES	TIMATION WO	ORKSHEETS				<del></del>					
Flowing	Creek or Box C	Culvert Fill	ing a Bottle or I	Known Volume	Flowing Pi	ne					
Width		ft Volume		mL	Diameter	ft					
Depth		ft Time to F	ill	sec	Depth	ft					
Velocity		ft/sec Flow		gpm	Velocity	ft/sec					
Flow		gpm			Flow	gpm					
COMMEN	TS• Rrackishsi	ite is normally clearly ti	dal so samples	ways sand to the lab to							

	X Field Screening	g Con	firmation 1	For		_ IC	ID Fo	llow-Up l	For		
GENERAL	L SITE DESCRIE	TION		(NAI	83 decimal deg	grees to 5th pl	ace)		MS4	Rece	eiving Water
Site ID	CB05-3			Latitude	(e.g., 33.4117 32.73782	4)	Wa	Hydrolo	gic Unit		(e.g., 7.00) 908
Location	Rental car parkin	g lot		Longitude	(e.g., -117.352 -117.18311		Watershed	Hydrolo	gic Area		(e.g., 7.10) 908.2
Date	5/18/2010			TB Page	1268 H7		ned	名   Hydrologic Subar (Optional)			(e.g., 7.11) 908.21
Time	0804			Observer	KG, AM			<mark>harge Ar</mark> ional)	ea		
Land Use (Check one		Residenti	al Con	nmercial x	Industrial	Agricult	ural	Parks		Op	en
	(Secondary) greater than 10%)	Residenti	al Con	nmercial x	Industrial	Agricult	ural	Parks	Open		None
Conveyan (Check one		Manhole	x Catch	Basin (	hitlat -	oncrete innel	N Cre	Vatural eek	Earthen Channel		Curb/Gutter
ATMOSP	HERIC CONDIT	TONS							Ħ		
Weather	Sunny	Partly Clou	dy x Ove	rcast Fo	g						
Tide	N/A	x Low		oming Hi		Outgoing		Tide He	ight:	_ft.	
Last Rain	x > 72 hours	< 72 hours			<del></del>		·				
Rainfall	x None	< 0.1"	> 0.	.1"							
	CHARACTERIS										
Odor	x None	Musty	Ro	otten Eggs	Chemi	ical	Sev	vage	(	Other	
Color	x None	Yellow		own	White		Gra			Other	
Clarity	x Clear	10110 **	••••••	ightly Cloudy	Opaqu		<u> </u>	· <u>y</u>		Other	
Floatables		Trash		ibbles/Foam	Sheen		Fec	al Matter	***************************************	Other	
Deposits	x None	Sediment/Grav		ne Particulate	····	***************************************		y Deposit		Other	
Vegetation		Limited		ormal	Exces			Deposit		Other	
Biology	x None			Fish Sna		sels/ I	nsect/	Ins Snail	ect/ (	Other	
Water Fl	or Florid	ng x Pondeo	i D	y Tidal			,				
	ow Flowi storm drain flow				Yes	No	x ]	 N/A			
	of Overland Flow		<del></del>		n Runoff		***************************************		d for dust s	uppre	ssion
Photo Tal	ken Yes	x No Pl	10to#					<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			
	ning Samples Co										
Water Ter		NH <sub>3</sub> -N			NO3-N (mg				10-PO4 (mg/L	.)	.2
pH (pH unit	s) 7.02	TURB	(NTU) 1.	86	COND (ms	S/cm) 1.2	4	<u>  MB</u>	AS (mg/L)		.5
Analytica	l Lab Samples Co	ollected?	Yes	x No							
	STIMATION WO			2							
	g Creek or Box C			ng a Bottle or	Known Vo				Flowing	Pipe	
Width		ft	Volume	11		mL		Diameter			ft
Depth		ft ft/sec	Time to Fi Flow	11		sec		Depth Velocity	_		ft ft/see
Velocity		<del>                                     </del>	TIOW			gpm		Velocity Flow	-		ft/sec
Flow	1	gpm				3-3-		NOL			gpm
COMMEN	NTS:										

	x Field Screenin	g Confirmation	For		IC/ID Fo	ollow-Up Fo	r			
GENERAL	L SITE DESCRI	PTION	(NAD	83 decimal degrees to 5	th place)		MS4 Rec	eiving Water		
Site ID	CB05-4		Latitude	(e.g., 33.41174) 32.73063	<u> </u>	Hydrologic		(e.g., 7.00) 908		
Location	Catch basin near	r generator yard	Longitude	(e.g., -117.35213) -117.18301	Watershed	Hydrologic		(e.g., 7.10) 908.2		
Date	5/18/2010		TB Page	1288 G1		Hydrologie (Optional)	c Subarea	(e.g., 7.11) 908.21		
Time	0910		Observer				Pischarge Area Optional)			
Land Use (Check one	•	Residential Con	mmercial x I	ndustrial Agri	cultural	Parks	Oį	en		
(Optional,	( <b>Secondary</b> ) greater than 10%)	Residential Con	mmercial x I	ndustrial Agri	cultural	Parks	Open	None		
(Check one		Manhole x Catch	Basin Ou	utlet Concrete Channel			Earthen hannel	Curb/Gutter		
ATMOSP	HERIC CONDI	TIONS								
Weather	Sunny	Partly Cloudy x Ove	ercast Fog							
Tide	N/A	x Low Inc	oming Hig	<del></del>	oing	Tide Heigh	<b>nt:</b> ft.			
Last Rain	x > 72 hours	< 72 hours								
Rainfall	x None	< 0.1" > 0	.1"							
RUNOFF	CHARACTERI	STICS								
Odor	x None	Musty Ro	otten Eggs	Chemical	Sev	wage	Other			
Color	x None		own	White	Gra		Other			
Clarity	x Clear	Sl	ightly Cloudy	Opaque			Other			
Floatables	x None		ubbles/Foam	Sheen	Fed	cal Matter	Other			
Deposits	None	x Sediment/Gravel x Fig	ne Particulates	Stains		y Deposits	Other			
Vegetation	ı x None	Limited No.	ormal	Excessive		<u> </u>	Other			
Biology	x None	Insects Algae	Fish Snail	s Mussels/	Insect/ Algae	Insect Snail				
Water Flo	ow Flow	ing Ponded Dr	y x Tidal							
Does the s	torm drain flow	reach the Receiving Wate	er?	Yes	No x	N/A				
Evidence	of Overland Flov	v? Yes x No	Irrigation	Runoff Other	•					
Photo Tak	ken Yes	x No Photo #								
Field Scree	ning Samples Co	llected? x Yes No	Conductivity	only						
Water Ten		NH3-N (mg/L)	Ĭ	NO3-N (mg/L)		Ortho-	PO <sub>4</sub> (mg/L)			
pH (pH units	3)	TURB (NTU)		COND (mS/cm)	33.3	MBAS				
Analytical	Lab Samples C	ollected? Yes	x No					_		
	STIMATION WO									
	g Creek or Box (		ng a Bottle or l	Known Volume			Flowing Pipe			
Width		ft Volume		mL		Diameter		Ft		
Depth		ft Time to Fi	11	sec	_	Depth		Ft		
Velocity		ft/sec Flow		gpm		Velocity		ft/sec		
Flow		gpm				Flow		Gpm		
COMMEN	TS: Water at bo	ttom of catch basin is sea	water.	W		.09				

	x Field Screening	Cor	firmation	For		IC/ID	Fallow II- For		
	A FIEIG SCIEERING L SITE DESCRII		un mation .				Follow-Up For		
ſ		PHON			33 decimal degrees ( (e.g., 33.41174)				eiving Water (e.g., 7.00)
Site ID	CB06-5			Latitude	32.73584	X	Hydrologic	Unit	908
Location	CB near Air traf	fic control towe	er —————	Longitude	(e.g., -117.35213) -117.18637	Watershed	Hydrologic A		(e.g., 7.10) 908.2
Date	5/18/2010			TB Page	1268 G7	ed	(Optional)	Subarea	(e.g., 7.11) 908.21
Time	0752			Observer	KG, AM		ischarge Area Optional)		
Land Use (Check one		Residenti	al Con	nmercial x I	ndustrial A	gricultural	Parks	Op	en
(Optional,	(Secondary) greater than 10%)	Residenti	al Con	nmercial x I	ndustrial A	gricultural	Parks	Open	None
(Check one		Manhole	x Catch	Basin O	utlet Concr Channel			Earthen annel	Curb/Gutter
ATMOSP	HERIC CONDIT	TIONS					····		
Weather	Sunny	Partly Clou	dy x Ove	rcast Fog					
Tide	N/A	x Low		oming High		tgoing	Tide Height:	:ft.	
Last Rain	x > 72 hours	< 72 hours		The state of the s				***************************************	
Rainfall	x None	< 0.1"	> 0.	1"					
RUNOFF	CHARACTERIS	STICS							
Odor	X None	Musty	Ro	tten Eggs	Chemical	S	Sewage	Other	
Color	x None	Yellow	Br	own	White	(	Gray	Other	······
Clarity	Clear		Sli	ghtly Cloudy	Opaque			x Other Dry	
Floatables	x None	Trash	Bu	bbles/Foam	Sheen	F	ecal Matter	Other	
Deposits	None	Sediment/Grav	el x Fir	e Particulates	Stains	***************************************	Dily Deposits	Other	
Vegetation	n x None	Limited	No	rmal	Excessive			Other	·····
Biology	X None	Insects	Algae	Fish Snail	s Mussels/ Barnacles	Insect Algae	t/ Insect/ Snail	Other	
Water Flo	ow Flowi	ng Ponde	d x Dry	Tidal	Darracies	Aigac	Silaii		
Does the s	torm drain flow	reach the Rece	iving Wate	r?	Yes	No	x N/A		
Fyidence	of Overland Flow	'? Yo	es x No	Irrigation					
Photo Tal			10to #	mrigation	Kulloff Ou	her:			<del></del>
	ning Samples Co	llected? Y	es x No				K		
Water Ten		NH3-N			NO3-N (mg/L)		Ortho-P	O4 (mg/L)	
pH (pH units	s)	TURB	(NTU)		COND (mS/cm)		MBAS (	mg/L)	
Analytica	l Lab Samples Co	ollected?	Yes	No					
FLOW ES	STIMATION WO	PRKSHEETS							· · · · · · · · · · · · · · · · · · ·
	g Creek or Box C	ulvert		g a Bottle or l	Known Volume	<u> </u>		lowing Pipe	
Width		ft	Volume		mL		Diameter		ft
Depth		ft	Time to Fil	1	sec		Depth		ft
Velocity		T	Flow		gpm		Velocity		ft/sec
Flow		gpm					Flow	<u> </u>	gpm

COMMENTS: \_\_\_\_Dry

	x Field Screeni	ng Confirmat	tion For	I(	C/ID Fo	llow-Up Fo	r	
GENERAL	L SITE DESCR	RIPTION	(NAD 8	33 decimal degrees to 5th	place)		MS4 Rec	eiving Water
Site ID	СВ07-6		Latitude	(e.g., 33.41174) 32.73085	Wa	Hydrologic	c Unit	(e.g., 7.00) 908
Location	Oil water sepa	rator	Longitude	(e.g., -117.35213) -117.19323	Watershed	Hydrologic	c Area	(e.g., 7.10) 908.2
Date	5/18/2010		TB Page	1288 F1	hed	Hydrologie (Optional)	c Subarea	(e.g., 7.11) 908.21
Time	0715		Observer	KG, AM		charge Area		
Land Use (Check one	· • ·	Residential	Commercial x I	ndustrial Agricu	ltural	Parks	O <sub>I</sub>	oen
(Optional,	( <b>Secondary</b> ) greater than 109	%) Residential	Commercial x I	ndustrial Agricu	ltural	Parks	Open	None
(Check one		Manhole x C	Catch Basin Ou	ıtlet Concrete Channel		Natural eek C	Earthen hannel	Curb/Gutter
ATMOSP	HERIC COND	OITIONS	· · · · ·					
Weather	Sunny	Partly Cloudy	Overcast x Fog	······································				
Tide	N/A	x Low	Incoming Hig	h Outgoir	ıg	Tide Heigl	<b>ht:</b> ft.	
Last Rain	x > 72 hour	s < 72 hours						
Rainfall	x None	< 0.1"	> 0.1"					
RUNOFF	CHARACTE	RISTICS						
Odor	x None	Musty	Rotten Eggs	Chemical	Sev	wage	Other	
Color	x None	Yellow	Brown	White	Gra	ay	Other	
Clarity	Clear		Slightly Cloudy	Opaque		··· ·	x Other	n/a
Floatables	x None	Trash	Bubbles/Foam	Sheen	Fed	cal Matter	Other	,
Deposits	None	Sediment/Gravel	x Fine Particulates	Stains	Oil	y Deposits	Other	•
Vegetatio	n x None	Limited	Normal	Excessive	***************************************	A	Other	•
Biology	None	x Insects Algae	Fish Snail		Insect/ lgae	Insec Snail	t/ Other	•
Water Fl	ow Flo	owing Ponded	x Dry Tidal					
Does the s	torm drain flo	w reach the Receiving	Water?	Yes N	lo x	N/A		
Evidence	of Overland Fl	ow? Yes	k No Irrigation	Runoff Other:				
Photo Tal	ken Yes	x No Photo #						
Field Scree	ning Samples (	Collected? Yes	No					
Water Ter		NH3-N (mg/L)		NO3-N (mg/L)		Ortho-	-PO4 (mg/L)	
pH (pH unit	s)	TURB (NTU)		COND (mS/cm)		MBAS	S (mg/L)	
Analytica	l Lab Samples	Collected? Ye	s No					
		WORKSHEETS						
	g Creek or Box		Filling a Bottle or	· · · · · · · · · · · · · · · · · · ·			Flowing Pipe	
Width		ft Volum		mL	<del></del>	Diameter		ft
Depth		<del></del>	to Fill	sec		Depth		ft
Velocity	<del></del>	ft/sec Flow		gpm		Velocity		ft/sec
Flow		gpm	L			Flow		gpm
COMMEN	ITS: Mois	t but no water						

x Field Screening Confirmation For						IC/ID Follow-Up For				
GENERAL	L SITE DESCRIP	PTION	(NAD	33 decimal degrees to	5th place)		MS4 Reco	eiving Water		
Site ID	CB07-7		Latitude	(e.g., 33.41174) 32.73000	Wa	Hydrologic	Unit	(e.g., 7.00) 908		
Location	West wing parking	ng lot	Longitude	(e.g., -117.35213) -117.19390	Watershed	Hydrologic	Area	(e.g., 7.10) 908.2		
Date	5/18/2010		TB Page	1288 FI		Hydrologic (Optional)	Subarea	(e.g., 7.11) 908.21		
Time	0637		Observer	KG		charge Area tional)				
Land Use (Check one		Residential Co	mmercial x I	ndustrial Ag	ricultural	Parks	Op	en		
	(Secondary) greater than 10%)	Residential Con	mmercial x I	ndustrial Ag	ricultural	Parks	Open	None		
Conveyan (Check one		Manhole x Catch	Basin O	utlet Concre Channel			Earthen hannel	Curb/Gutter		
ATMOSP	HERIC CONDIT	TIONS	Ш							
Weather	Sunny	Partly Cloudy Ov	ercast x Fog							
Tide	N/A		oming Hig		going	Tide Heigh	<b>it:</b> ft.			
Last Rain		< 72 hours			<del></del>					
Rainfall	xNone	< 0.1" > 0	1"							
	CHARACTERIS	**************************************								
Odor	x None		otten Eggs	Chemical	Se	wage	x Other	Dry		
Color	x None		rown	White		ay age	x Other	Dry		
Clarity	Clear		ightly Cloudy	Opaque		ау	x Other	Dry		
Floatable			ubbles/Foam	Sheen	Fe	cal Matter	Other	DIY		
Deposits	x None		ine Particulates	Stains		ly Deposits	Other	***************************************		
Vegetatio			ormal	Excessive	O1	Ty Deposits	Other			
Biology	X None	Insects Algae	Fish Snai		Insect/ Algae	Insect Snail				
**************************************	Ti		T:4-1		111840					
Water Fl		ing Ponded x Dr reach the Receiving Wat	I	Yes	No x	N/A				
***************************************	of Overland Flow			Runoff Oth	er:					
Photo Ta		x No Photo #								
Field Scree	ening Samples Co	llected? Yes N	0	· · · · · · · · · · · · · · · · · · ·						
Water Ter		NH3-N (mg/L)		NO3-N (mg/L)			PO4 (mg/L)			
pH (pH uni	is)	TURB (NTU)		COND (mS/cm)		MBAS	(mg/L)			
Analytica	l Lab Samples Co	ollected? Yes	No							
	STIMATION WO		Δ .							
	g Creek or Box C		ng a Bottle or	Known Volume	<del></del>		Flowing Pipe			
Width		ft Volume	•••	mL		Diameter		ft		
Depth		ft Time to F	111	sec		Depth	-	ft		
Velocity		ft/sec Flow		gpm	<del> </del>  -	Velocity		ft/sec		
Flow		gpm				Flow		gpm		
COMME	NTS: <u>Dry</u>									

	x Field Screeni	ing Confirmation		IC/ID Follow-Up For				
GENERAL	L SITE DESCI	RIPTION	(NAD	83 decimal degrees to	5th place)	x MS4	Rec	eiving Water
Site ID	CB08-8		Latitude	(e.g., 33.41174) 32.73368	Wa	Hydrologic Uni	t	(e.g., 7.00) 908
Location	Southwest Sli	t Trench	Longitude	(e.g., -117.35213) -117.19673	Watersl	Hydrologic Are	a	(e.g., 7.10) 908.2
Date	5/18/2010		TB Page	1288 F1	hed	Hydrologic Sub (Optional)	area	(e.g., 7.11) 908.21
Time	1037		Observer	KG, AM		harge Area ional)		
Land Use (Check one	· •	Residential Con	mmercial x l	Industrial Agr	ricultural	Parks	Or	en
	(Secondary) greater than 10°	%) Residential Co	mmercial x ]	Industrial Agr	ricultural	Parks O	pen	None
Conveyan (Check one	ce	Manhole x Catch	Basin O	utlet Concret Channel		Natural Eartleek Chann		Curb/Gutter
ATMOSD	HERIC CONI	NITIONS						
				-				
Weather Tide	Sunny N/A		ercast Fog oming Hig		going	Tide Height:	ft.	
Last Rain			viiiig ing	<u>,                                    </u>	501118	1100 110-810-		
Rainfall	x None		0.1"					
RUNOFF	CHARACTE	RISTICS						
Odor	None	x Musty Ro	otten Eggs	Chemical	Sev	vage	Other	
Color	None		rown	White	Gra	ıy	Other	
Clarity	Clear		ightly Cloudy	Opaque			Other	······
Floatables			ubbles/Foam	x Sheen		al Matter	x Other	
Deposits	None		ne Particulates	Stains	x Oil	y Deposits	Other	
Vegetation			ormal	Excessive	T 4/	T	Other	
Biology	None	x Insects Algae	Fish Snai	ls Mussels/ Barnacles	Insect/ Algae	Insect/ Snail	Other	
Water Fl	ow Flo	owing x Ponded Dr	y Tidal					
Does the s	storm drain flo	w reach the Receiving Wat	er?	Yes	No x	N/A		
Evidence	of Overland F	low? x Yes No	Irrigation	Runoff Othe	er:			
Photo Tal	ken Yes	x No Photo #						
	ening Samples							
Water Ter	np (°C) 24.4	NH3-N (mg/L) 10	0+	NO3-N (mg/L)	<.25	Ortho-PO <sub>4</sub>	(mg/L)	<1
pH (pH unit	(s) 6.2	TURB (NTU) 4	0.1	COND (mS/cm)	1.74	MBAS (mg/	L)	inconclusi ve
Analytica	l Lab Samples	Collected? x Yes	No					
-		WORKSHEETS						
	g Creek or Bo		ng a Bottle or	Known Volume			ving Pip	
Width		ft Volume Time to F	:11	mL		Diameter Donth		ft
Depth Velocity		ft Time to F	111	sec gpm		Depth Velocity		ft ft/sec
Flow		gpm		Bhin		Flow		gpm
1011		er ···		1		1		1 or
COMMEN	NTS: <u>Field</u>	test kit results for Ammon	ia and MBAS	were not conclus	ive due to o	color of sample v	vater (ye	ellow/brown.)

x Field Screening Confirmation For IC/ID								llow-Up F	or		
GENERAL	SITE DESCRI	PTION		(NAD	83 decimal degr	ees to 5th pl	ace)		MS4	Rece	eiving Water
Site ID	CB12-9*			Latitude	(e.g., 33.41174) 32.73516	)	Wa	Hydrolog	gic Unit		(e.g., 7.00) 908
Location	Terminal 2 area	trench drain		Longitude	(e.g., -117.3521 -117.20444	3)	Watershed	Hydrolog	gic Area		(e.g., 7.10) 908.2
Date	5/18/2010			TB Page	1268 E7		ned	(Optional)			(e.g., 7.11) 908.21
Time	1030			Observer	KG, AM			charge Are tional)	a		
Land Use (Check one		Residentia	Com	nmercial x I	ndustrial	Agricult		Parks		Op	en
(Optional,	( <b>Secondary)</b> greater than 10%)	Residentia	Com	nmercial x I	ndustrial	Agricult	ural	Parks	Open		None
(Check one		Manhole	Catch	Basin O	utlet Char	ncrete nnel		Natural eek	Earthen Channel		x Curb/Gutter
ATMOSP	HERIC CONDIT	ΓIONS	****					•			·
Weather	Sunny	Partly Cloud	y x Ovei	cast Fog							
Tide	N/A	x Low	·	ming Hig		Outgoing		Tide Hei	ght:	ft.	
Last Rain	x > 72 hours	< 72 hours						***************************************			<del></del>
Rainfall	x None	< 0.1"	> 0.	1"							
RUNOFF	CHARACTERIS		<del></del>								
Odor	x None	Musty	Ro	tten Eggs	Chemic	al	Sev	vage	(	ther	
Color	x None	Yellow		own	White	41	Gra	······		other	
Clarity	Clear	10110 W		ghtly Cloudy	Opaque	······································	Oia	ıy		ther	N/A
Floatables		Trash		bbles/Foam	Sheen	·	Eas	al Matter			IV/A
Deposits		X Sediment/Gravel		e Particulates	Stains					Other	
Vegetation		Limited		rmal	Excessi		Oii	y Deposits		Other	
Biology	x None			Fish Snail		ls/ In	sect/	Inse Snail		Other Other	
TT 4 T3					Darnack	o Aig	ac	Silali		••••	
Water Flo			Dry		<b>T</b> 7			~ ~			
	torm drain flow to of Overland Flow			r? Irrigation	Yes	No.	Х.	N/A			
Photo Tak		**************************************	to #	Irrigation	Kunom	Other:				ß	
						<del></del>		- <u></u>			
Water Ten	ning Samples Co	llected? Yes NH3-N (		···· -	NO3-N (mg/L	<del></del>		0-4	. DC		
pH (pH units		TURB (			COND (ms/c				0-PO4 (mg/L	)	
LATE (burning	<i>,</i>	I TOKE (	110)		COMD (ms/c	:111)	-	J IVLB P	AS (mg/L)		l
	Lab Samples Co		Yes	No							
	TIMATION WO										
	g Creek or Box C			g a Bottle or			, <u>-</u>		Flowing	Pipe	
Width		<del></del>	olume	<del></del>		nL		Diameter			ft
Depth			ime to Fill	-		sec		Depth			ft
Velocity		1	low			gpm	-	Velocity			ft/sec
Flow	2	gpm					] []	Flow			gpm
COMMEN	TS: Alternate sit	e used due to Cl	212-0 hair	a under cons	truction site	SR12-12	(from	wat waath	on monite		mand instand

Site moist not flowing or enough for a sample.

:	x Field Screening	g Confir	nation l	For			IC	/ID F	ollow-U	Jp For		
GENERAI	SITE DESCRI	PTION		(N.	AD 8	3 decimal de	egrees to 5th p	lace)		x MS4	Rec	ceiving Water
Site ID	CB09-10			Latitude		(e.g., 33.411 32.72993	•	Wa	Hydi	ologic Unit		(e.g., 7.00) 908
Location	T2 Entrance Roa	ad		Longitud	le	(e.g., -117.35 -117.1974	5213) 18	Watershed	Hydi	ologic Area		(e.g., 7.10) 908.2
Date	5/18/2010			TB Page		1299 F1		hed	Hydi (Opti	ologic Suba	rea	(e.g., 7.11) 908.21
Time	0700			Observer	.	KG, AM			charge tional)	Area		
Land Use (Check one		Residential	Con	nmercial	x Ir	ndustrial	Agricul		Par	·ks	O <sub>l</sub>	pen
	( <b>Secondary</b> ) greater than 10%)	Residential	Con	nmercial	x In	ndustrial	Agricul	tural	Paı	·ks Ope	en	None
Conveyand (Check one		Manhole	x Catch	Basin =	Ou	rier	Concrete annel		Natura reek	Earthe Channel		Curb/Gutter
ATMOSP	HERIC CONDIT	TIONS		-		<del></del>	-					
Weather	Sunny	Partly Cloudy	Ove	rcast x F						9	5	
Tide	N/A	x Low			High		Outgoing	·	Tide	Height:	ft.	
Last Rain	x > 72 hours	< 72 hours		<u>V</u>	<u></u>	·		<b></b>				
Rainfall	x None	< 0.1"	> 0.	1"								
RUNOFF	CHARACTERIS	STICS										
Odor	x None	Musty	Ro	tten Eggs		Chem	nical	Se	wage		Other	
Color	x None	Yellow		own		White	2	Gr	<del></del>		Other	
Clarity	Clear		Sli	ghtly Cloud	ly	Opaq	ue				Other	
Floatables	x None	Trash	Bu	bbles/Foam	 ]	Sheer	***************************************	Fe	cal Mat	ter	Other	
Deposits	x None	Sediment/Gravel	Fin	e Particula	tes	Stains	<u> </u>	Oi	ly Depo	sits	Other	
Vegetation	x None	Limited	No	rmal	<del></del>	Exces	ssive	***************************************		······································	Other	
Biology	None	x Insects Alga	e ]	Fish Si	nails	Mus Barnac		nsect/		Insect/	Other	
Water Flo	w Flowi	ing Ponded	x Dry	Tid	al	Darila	cles Alg	ae	31	nail	***************************************	***************************************
Does the st	torm drain flow	reach the Receivin	g Wate			Yes	No	x	N/A	··········		
	of Overland Flow	_			i	***************************************						
			x No	Imgai	ion	Runoff	Other:					
Photo Tak	en Yes	x No Photo	#		·····	······						
Field Screen	ning Samples Co	llected? Yes	x No									
Water Tem		NH3-N (mg				NO3-N (m	g/L)			Ortho-PO4 (mg	;/L)	
pH (pH units	)	TURB (NTI	א			COND (m	S/cm)			MBAS (mg/L)		
Analytical	Lab Samples Co	ollected?	Yes	No								
FLOW ES	TIMATION WO	DRKSHEETS										
Flowing	Creek or Box C	Culvert	Fillin	g a Bottle o	or K	nown Vo	lume			Flowin	g Ping	•
Width			ume				mL	T F	Diamet		8 T The	ft
Depth			e to Fill				sec		Depth			ft
Velocity	-	ft/sec Flo	w				gpm		Velocit	у		ft/sec
Flow	Yi .	gpm					. 19	] [	Flow			gpm
COMMEN	TS: <u>Dry</u>					-						

SITE ID:CE	01-1 DATE:5/18/2010											
LOCATION:CA	TCH BASIN NEAR LANDMARK TIME:0741											
OBSERVER:	BSERVER:AM,KG											
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):												
ESTIMATED AREA OF ASSESSMENT L x W (FT): 10x60												
	Amount and Extent of Trash											
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH											
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.											
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.											
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.											
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.											
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces)											

Site Evalu	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

nt			TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)						
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste			-									
Business Related												
Cigarette Butts												
Construction			·									
Fabric/Clothing												
Food Packaging	J.											
Food Waste			-									
Household												
Shopping Carts												
Toxic					-						=	
Yard Waste									17			

Comments <u>:</u>			
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SITE ID:CB	03-2 DATE:5/18/2010										
LOCATION:CA	OCATION:CATCH BASIN NEAR BLAST FENCETIME:0934										
OBSERVER:	AM,KG										
PREVIOUS TRASH	PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):										
ESTIMATED AREA	ESTIMATED AREA OF ASSESSMENT L x W (FT): 50x50										
=	Amount and Extent of Trash										
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH										
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.										
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.										
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.										
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.										
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).										

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
☐ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ŧ		TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)						
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste									*1			
Household									=			
Shopping Carts												
Toxic -												
Yard Waste												

Comments:			 			
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SITE ID:CB	05-3 DATE:5/18/2010									
LOCATION:RE	OCATION:RENTAL CAR PARKING LOT TIME:0804									
DBSERVER:AM,KG										
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):										
ESTIMATED AREA OF ASSESSMENT L x W (FT): 50x50										
115	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial									

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ntion for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

Ę			TENTIA HECK		1	POTENTIAL SOURCE (CHECK UP TO 2)						
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive							~					
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing			-									
Food Packaging												
Food Waste												
Household												
Shopping Carts	1 -											
Toxic												
Yard Waste												

Comments:		 <b></b>		
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SITE ID:CB	05-4 DATE:5/18/2010										
OCATION:CATCH BASIN NEAR GENERATORSTIME:0910											
DBSERVER:AM,KG											
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):											
ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20											
	Amount and Extent of Trash										
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH										
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.										
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.										
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.										
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.										
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial										

Site Evalu	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	<u>i</u>		TENTIA HECK			-	P		TIAL S	OURC TO 2)	E	
Түре	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Honsehold	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste	Ì											
Business Related												
Cigarette Butts									U.			
Construction									47			
Fabric/Clothing												
Food Packaging												
Food Waste		4.										
Household	1 =											
Shopping Carts												
Toxic												
Yard Waste												

Comments:			·-··		
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SITE ID:CB	06-5DATE:5/18/2010										
LOCATION:CA	TCH BASIN NEAR LANDMARK TIME:0752										
DBSERVER:AM,KG											
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):										
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 50x50										
	Amount and Extent of Trash										
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH										
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.										
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.										
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.										
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.										
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).										

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ŧ		TENTIA HECK			5	P		TIAL S	OURC TO 2)	E	
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive	Ì											
Biohazard Waste							OI.					
Business Related											П	
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging						.0						
Food Waste												
Household					- 6							
Shopping Carts												
Toxic						11						
Yard Waste												

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SITE ID:CB	07-06 DATE:5/18/2010
LOCATION:AA	OIL/WATER SEP TIME:0715
OBSERVER:	AM,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 30x30
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

TYPE Ranking or Count	ınt	POTENTIAL ROUTE (CHECK UP TO 2)					POTENTIAL SOURCE (CHECK UP TO 2)					
		Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive									<u> </u>			
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging						_						
Food Waste												
Household												
Shopping Carts							(31)					
Toxic	=									_		
Yard Waste												

Jomments <u>:</u>		
	- 10 <del>-</del> 211 700 12- 12- 12- 12- 12- 12- 12- 12- 12- 12-	

SITE ID:	CB07-7	DATE:	5/18/10_										
OCATION: WEST WING PARKING LOT TIME:0637													
BSERVER: KRIS GREEN													
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE): OPTIMAL_													
ESTIMATED AREA	STIMATED AREA OF ASSESSMENT L X W (FT):20X20												
	Amount an	d Extent o	f Trash										
EVALUATION OF TR	ASH INCLUDES*: X MS4	RECEIV	ING WATER	Вотн									
x Optimal	On first glance, no trash visib area is closely examined for lit			pieces) evident when evaluated									
□ Suboptimal	On first glance, little or no tra- 50 pieces) evident in evaluate		ter close inspe	ection small levels of trash (~10-									
□ Marginal		dence of site	being used by	on first glance. Evaluated area people: scattered cans, bottles,									
☐ Submarginal		dence of site	being used from	ontains substantial levels of litter equently by people: many cans,									
□ Poor				trash accumulation behind a									

levels of litter and debris (>400 pieces).

	Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
	□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
•	<ul><li>□ Potential Threat to Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ınt		TENTIA HECK				F		TIAL S	OURC TO 2)	E	
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging											¥1	
Food Waste												
Household							٧	-				
Shopping Carts												
Toxic												
Yard Waste												

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ALCOHOL BUILDING ST. 111	2			500 diseases	- No Logo - L
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SITE ID:CE	08-8 DATE:5/18/2010									
LOCATION:CA	TCH BASIN NEAR BLAST FENCETIME:1037									
OBSERVER:	AM,KG									
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):									
ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20										
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (> 400 pieces)									

Site Evalua	ntion for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ınt	I I						OTENTIAL SOURCE (CHECK UP TO 2)				
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive				19								
Biohazard Waste												
Business Related	1						-					
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste	_											
Household									<u> </u>			
Shopping Carts												
Toxic												
Yard Waste					181							

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10.00 T					
		7630	5.31		
		*******	3-7000		F) 1/10
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	T. T.				

SITE ID:CB	12-9 DATE:5/18/2010
LOCATION:CA	TCH BASIN NEAR BLAST FENCE TIME:1030
OBSERVER:	AM,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 250X20
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

ŧ	Έ		TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)					E	
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts	*											
Construction											=	
Fabric/Clothing												
Food Packaging												
Food Waste												
Household							ı					
Shopping Carts						2				10		
Toxic				73					=	-		=
Yard Waste												

mments <u>.                                    </u>				 	
			7	 	-
					125.0
			5.75 (ASE = 1)	 10-11-11-11-11-11-11-11-11-11-11-11-11-1	
	=2				
	5 Hz = 500		80 1800 Daywe		
				 	20.0
-100000			130	 19-275	d 1052-11
		- Carlos			

SITE ID:CB	09-10 DATE:5/18/2010						
LOCATION:T2 ENTRANCE ROAD TIME:0700							
OBSERVER:AM,KG							
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):							
ESTIMATED AREA OF ASSESSMENT L x W (FT): 20x20							
	Amount and Extent of Trash						
EVALUATION OF TRASH INCLUDES*: X MS4  RECEIVING WATER  BOTH							
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.						
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.						
☐ Marginal Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles food wrappers, blankets, or clothing present.							
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.						
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial						

Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)								
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.							
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.							

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

45	int	POTENTIAL ROUTE (CHECK UP TO 2)			POTENTIAL SOURCE (CHECK UP TO 2)							
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Honsehold	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related	_											
Cigarette Butts											M	
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste												

Comments:					
COLUMN AMERICAN AND AND AND AND AND AND AND AND AND A	1	**			
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				Mar. 19. 19. 19.	
9	HIS				
5	2.00		_	-384108	



01 June 2010

Amanda Archenhold MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego, CA 92123

RE:San Diego Airport

Work Order No.:

1005290

Attached are the results of the analyses for samples received by the laboratory on 05/18/10 13:15.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

land X. Forth

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-5-18-10	1005290-01	Liquid	05/18/10 10:37	05/18/10 13:15
CB03-2-5-18-10	1005290-02	Liquid	05/18/10 09:34	05/18/10 13:15

#### **CASE NARRATIVE**

SAMPLE RECEIPT:

Samples were received intact, at 4°C, and accompanied by chain of custody documentation.

PRESERVATION: HOLDING TIMES:

Samples requiring preservation were verified prior to sample preparation and analysis. All holding times were met, unless otherwises 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.



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

## Microbiological Parameters by APHA Standard Methods

### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	Sampled: 05/18/10	10:37 F	Received: 05	5/18/10 1:	3:15	Ī			
Enterococcus Total Coliforms	2800 2800	20 20	MPN/100 mL "	, 10	B0E1827	05/18/10	05/18/10 13:20	SM 9230B SM 9221B	
CB03-2-5-18-10 (1005290-02) Liquid	Sampled: 05/18/10	09:34 I	Received: 0:	5/18/10 1	3:15				
Enterococcus Total Coliforms	2200 9000	20 20	MPN/100 mL	. 10 "	B0E1827	05/18/10	05/18/10 13:20	SM 9230B SM 9221B	



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

## Conventional Chemistry Parameters by APHA/EPA Methods Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	Sampled: 05/18/1	0 10:37 F	Received: 0	5/18/10 13	3:15				
Total Hardness Hexane Extractable Material (HEM)	<b>462</b> ND	0.400 2.00	mg/L	1	B0E2429	05/18/10	05/18/10 13:20	SM 2340 C EPA 1664	
CB03-2-5-18-10 (1005290-02) Liquid	Sampled: 05/18/1	l0 09:34 F	Received: 0	5/18/10 13	3:15				
Total Hardness Hexane Extractable Material (HEM) pH	1440 ND 6.72	0.400 2.00 0.100	mg/L " pH Units	1	B0E2429	05/18/10	05/18/10 13:20	SM 2340 C EPA 1664 EPA 150.1	-



San Diego CA, 92123

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

### Metals (Dissolved) by EPA 200 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-5-18-10 (1005290-01) Liquid	Sampled: 05/18/1	0 10:37 R	eceived: (	5/18/10 13	3:15				
Cadmium	25	2.0	μg/L	1	B0E2805	05/28/10	06/01/10 12:25	EPA 200.8	
Copper	230	5.0	"	5	"	11	06/01/10 13:23	11	
Lead	19	2.0	**	1	**	P	06/01/10 12:25	"	
Zinc	1600	5.0	**	5	"	"	06/01/10 13:23	"	
CB03-2-5-18-10 (1005290-02) Liquid	Sampled: 05/18/1	10 09:34 R	eceived: (	05/18/10 1:	3:15				
Cadmium	ND	2.0	μg/L	1	B0E2805	05/28/10	06/01/10 12:29	EPA 200.8	
Copper	4.7	1.0	**	**	н	**	"	#	
Lead	ND	2.0	"	"	"	"	**	••	
Zinc	5.2	1.0	**	"	**	**	11	"	

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.



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

## Metals (Dissolved) by EPA 200 Series Methods - Quality Control

### Sierra Analytical Labs, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B0E2805 - EPA 200 Series										/2
Blank (B0E2805-BLK1)				Prepared:	05/28/10	Analyzed	: 06/01/10			
Cadmium	ND	2.0	μg/L							
Copper	ND	1.0	"							
Lead	ND	2.0	**							
Zinc	ND	1.0	"							
LCS (B0E2805-BS1)				Prepared:	05/28/10	Analyzed	l: 06/01/10			
Cadmium	89.2	2.0	μg/L	100		89.2	85-115			
Copper	90.6	1.0	"	100		90.6	85-115			
Lead	100	2.0	11	100		100	85-115			
Zinc	88.9	1.0	"	100		88.9	85-115			
Matrix Spike (B0E2805-MS1)	Soi	ırce: 100529	0-02	Prepared:	05/28/10	Analyzed	l: 06/01/10			
Cadmium	83.6	2.0	μg/L	100	ND	83.6	70-130			
Copper	88.1	1.0	17	100	4.7	83.4	70-130			
Lead	91.6	2.0	**	100	ND	91.6	70-130			
Zinc	77.4	1.0	**	100	5.2	72.2	70-130			
Matrix Spike Dup (B0E2805-MSD1)	Soi	ırce: 100529	0-02	Prepared:	05/28/10	Analyzed	1: 06/01/10			
Cadmium	78.5	2.0	μg/L	100	ND	78.5	70-130	6.29	30	
Copper	83.6	1.0	"	100	4.7	78.9	70-130	5.24	30	
Lead	85.1	2.0	**	100	ND	85.1	70-130	7.36	30	
Zinc	73.1	1.0	"	100	5.2	67.9	70-130	5.71	30	QM-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

9177 Sky Park Court Suite A

San Diego CA, 92123

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/01/10 15:46

#### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

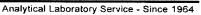
DET Analyte DETECTED

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



Page 1 of 5



### **Certificate of Analysis**

Report Date: Wednesday, June 2, 2010 Received Date: Wednesday, May 19, 2010

Received Time: 10:45 am

**Turnaround Time: Normal** 

Client: Sierra Analytical

26052 Merit Circle, Suite 105 Laguna Hills, CA 92653

Attn: Nick Forsyth **Project: 1005290** 

0E19043

Phones: (949) 348-9389 Fax: (949) 348-9115

P.O. #:

Lab Sample ID: 0E19043-01 Sampled by: Client	Sample ID Sampled:			-10 (10052	90-01)				Mat	trix: Wate
Analyte	Result	DL	, 10.57 RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifie
	ND	0.12	0.15	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	Qualifie
Bolstar		0.088	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Chlorpyrifos		0.041	0.10	ug/l	1x1	EPA 8141A	5/19/10		W0E0634	
Coumaphos		0.068	0.10	ug/l	1x1	EPA 8141A	5/19/10		W0E0634	
Demeton-o		0.049	0.10	ug/l	1x1	EPA 8141A	5/19/10		W0E0634	
Demeton-s	ND	0.063	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Dichlorvos		0.11	0.15	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Disulfoton	ND	0.064	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Ethoprop	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethyl parathion	ND	0.12	0.25	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Fensulfothion		0.090	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fenthion	ND	0.027	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Malathion	ND	0.11	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Merphos		0.062	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Methyl parathion	ND	0.057	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Mevinphos	ND	0.089	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Naled	ND	0.060	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Phorate	ND	0.054	0.10	ug/l	1x1	EPA 8141A		5/25/10 13:16	W0E0634	
Ronnel	ND	0.037	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Stirophos	ND	0.050	0.10	ug/l	1x1	EPA 8141A	5/19/ <b>1</b> 0	5/25/10 13:16	W0E0634	
Thionazin	ND	0.15	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Tokuthion (Prothiofos)	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Trichloronate	ND	0.031	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Surrogate: Triphenyl phosphate	113 %	28	6-17	73						
Lab Sample ID: 0E19043-02	Sample ID	): CI	B03-2-5-18	3-10 (10052	290-02)				Ma	trix: Wate
Sampled by: Client	Sampled:	05/18/10	09:34		·					=
Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifie
Azinphos methyl (Guthion)	ND	0.12	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	



Lab Sample ID: 0E19043-02 Sampled by: Client	Sample II Sampled	D: CB : 05/18/10	03-2-5-18- 09:34	10 (10052	90-02)				Mat	trix: Water
Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Bolstar	ND	0.088	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	116
Chlorpyrifos		0.041	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Coumaphos	ND	0.068	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-o		0.049	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Demeton-s	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dichlorvos	ND	0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Disulfoton	ND	0.064	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethoprop		0.11	0.15	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ethyl parathion		0.12	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fensulfothion	ND	0.090	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Fenthion	ND	0.027	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Malathion	ND	0.11	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Merphos	ND	0.062	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Methyl parathion		0.057	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Mevinphos	ND	0.089	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Naled	ND	0.060	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Phorate	ND	0.054	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Ronnel	ND	0.037	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Stirophos	ND	0.050	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Thionazin	ND	0.15	0.25	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Tokuthion (Prothiofos)	ND	0.063	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10_13:16	W0E0634	
Trichloronate		0.031	0.10	ug/l	1x1	EPA 8141A	5/19/10	5/25/10 13:16	W0E0634	
Surrogate: Triphenyl phosphate	58 %		6-17	3						



#### Quality Control Section SpQualifie

### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0E0634 - EPA 8141A

Blank (W0E0634-BLK1)						/19/10 #	nalyzed: 05/2	5/10 13:16	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		0.950		ug/l	1.00	95	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)		NĐ		ug/l					
Trichloronate		ND		ug/l					
Thionazin		ND		ug/l					
Dimethoate	•••••	NĐ		ug/l					
Malathion	•••••	ND		ug/l					
Ethyl parathion		ND		ug/l					
CS (W0E0634-BS1)					Prepared: 05	/19/10 #	Analyzed: 05/2:	5/10 13:16	
•	Sample	QC			Spike		%REC	J/ 10 13.10	RPD
Analyte	Result	Result	Qualifier	Units	Level	%REC	Limits	RPD	Limit
Surrogate: Triphenyl phosphate		0.968		ug/l	1.00	97	6-173		
Azinphos methyl (Guthion)		0.997		ug/l	1.00	100	18-159		
Bolstar		0.970		ug/l	1.00	97	49-148		
Chlorpyrifos		0.916		ug/l	1.00	92	49-143		
Coumaphos		1.09		ug/l	1.00	109	42-161		
Demeton-o		0.895		ug/l	1.00	89	47-132		
Demeton-s		0.814		ug/l	1.00	81	45-147		
Diazinon		0.926		ug/l	1.00	93	46-136		
Dichlorvos		0.966		ug/l	1.00	97	29-164		
Disulfoton		0.820		ug/I	1.00	82	46-155		

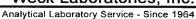
0E19043



#### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0E0634 - EPA 8141A

Pensulfothion	.CS (W0E0634-BS1)					•	/19/10	Analyzed: 05/25	/10 13:16	
Fenthion	Analyte	•		Qualifier	Units	•	%REC		RPD	RPD Limit
Merphos	Fensulfothion		0.950		ug/l	1.00	95	54-167		
Methyl parathion         0.843         ugh         1.00         84         47-142           Mevinphos         0.812         ugh         1.00         81         43-145           Naied         0.462         ugh         1.00         87         56-134           Phorate         0.872         ugh         1.00         87         56-134           Ronnel         0.952         ugh         1.00         85         49-140           Stirophos         0.847         ugh         1.00         85         48-146           Trichloronate         0.844         ugh         1.00         84         52-136           CS Du (W0E0634-BSD1)         Sample         QC         Result         Result         QC         MREC         MREC         Limits         RFP         Limits         Limits         RFP         Limits         Limits         Limits         RFP         Limits         Limits         Limits         Limits	Fenthion		0.697		ug/l	1.00	70	50-143		
Newinghos   0.812	Merphos		1.32		ug/l	1.00	132	40-185		
Naled	Methyl parathion		0.843		ug/l	1.00	84	47-142		
Phorate   0.872	Mevinphos		0.812		ug/l	1.00	81	43-145		
Ronnel   0.952   ug/l   1.00   95   49-140	Naled		0.462		ug/l	1.00	46	16-177		
Stirophos   0.847   ug/l   1.00   85   46-146     Tokuthion (Prothiofos)   0.922   ug/l   1.00   92   52-139     Trichioronate   0.844   ug/l   1.00   94   52-136     Scot Dup (W000634-BSD1)   Prepared: 05/19/10   Analyzed: 05/25/10   13:15     Analyte   Sample Result   Qualifier   Units   Spike Level   WREC   WREC   SWREC   Units   Spike Level   WREC   Units   Spike Level   WREC   Units   Spike Level   WREC   Units   Spike Level   WREC   Units   Ug/l   1.00   101   6-173     Azinphos methyl (Guthion)   1.00   ug/l   1.00   100   18-159   0.8   25     Bolstar   1.03   ug/l   1.00   103   49-148   6   25     Chlorpyrifos   0.958   ug/l   1.00   96   49-143   5   25     Coumaphos   1.15   ug/l   1.00   96   49-143   5   25     Demeton-0   0.836   ug/l   1.00   96   49-143   7   25     Demeton-8   0.790   ug/l   1.00   94   46-136   22   25     Diazinon   0.944   ug/l   1.00   94   46-136   22   25     Diazinon   0.928   ug/l   1.00   94   46-136   25     Diazinon   0.928   ug/l   1.00   98   46-155   9   25     Ethoprop   0.830   ug/l   1.00   89   46-155   9   25     Ethoprop   0.830   ug/l   1.00   89   46-155   9   25     Ethoprop   0.889   ug/l   1.00   89   54-147   7   25     Fenthion   0.730   ug/l   1.00   73   50-143   5   25     Metryl parathion   0.873   ug/l   1.00   37   47-142   3   25     Metryl parathion   0.873   ug/l   1.00   35   16-17   7   25     Phorate   0.817   ug/l   1.00   95   49-140   0.1   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25     Stirophos   0.876   ug/l   1.00   97   52-139   5   25     Stirophos   0.876   ug/l   1.00   97   52-139   5   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25   25     Stirophos   0.875   ug/l   1.00   97   52-139   5   25   25     Stirophos   0.875   ug/l   1.00   97   52-139	Phorate		0.872		ug/l	1.00	87	56-134		
Trichlorinate	Ronnel	<u> </u>	0.952		ug/l	1.00	95	49-140		
Trichloronate 0.844 ug/l 1.00 84 52-136  Trichloronate 20.844 ug/l 1.00 101 6-173  Trichloronate 20.844 ug/l 1.00 101 18-159 0.8 25  Demeton-o 0.836 ug/l 1.00 115 42-161 6 25  Demeton-s 0.790 ug/l 1.00 84 47-132 7 25  Demeton-s 0.944 ug/l 1.00 96 48-147 3 25  Diszinon 0.944 ug/l 1.00 97 45-147 3 25  Diszinon 0.988 ug/l 1.00 98 46-155 9 25  Ethoprop 0.830 ug/l 1.00 89 46-155 9 25  Ethoprop 0.830 ug/l 1.00 89 54-167 7 25  Ethoprop 0.830 ug/l 1.00 89 54-167 7 25  Fensulfotion 0.889 ug/l 1.00 89 54-167 7 25  Ethoprop 0.830 ug/l 1.00 89 54-167 7 25  Merphos 0.771 ug/l 1.00 87 47-142 3 25  Methyl parathion 0.873 ug/l 1.00 89 54-167 7 25  Methyl parathion 0.873 ug/l 1.00 89 54-167 7 25  Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25  Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25  Methyl parathion 0.873 ug/l 1.00 82 56-134 5 25  Naled 0.354 Q-12 ug/l 1.00 82 56-134 6 25  Ronnel 0.953 ug/l 1.00 88 46-146 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3 3 25  Ethoprob 0.875 ug/l 1.00 88 46-146 3	Stirophos		0.847		ug/l	1.00	85	46-146		
CS Dup (NOE0634-BSD1)   Sample Result   QC Result   QUalifier   Units   Spike Level   Result   Result   Qualifier   Units   Spike Level   Result   Result   Result   Result   Qualifier   Units   Spike Level   Result   Result   Result   Result   Result   Qualifier   Units   Spike Level   Result   Result   Result   Result   Result   Result   Qualifier   Units   Spike Level   Result   Resu	Tokuthion (Prothiofos)		0.922		ug/l	1.00	92	52-139		
Analyte   Sample Result   QC Result   Qualifier   Units   Spike Level   %REC Limits   RPD   Limits   Spike Level   RPC   Limits   RPD   RPI	Trichloronate		0.844		ug/l	1.00	84	52-136		
Analyte   Result   Result   Qualifier   Units   Level   %REC   Limits   RPD   Limits   Limits   RPD   Limits   Limits   RPD   Limits   Limits   Limits   RPD   Limits   RPD   Limits   Limits   Limits   RPD   Limits   RPD   Limits   Limits   Limits   Limits   Limits   Limits   Limits   RPD   Limits   RPD   Limits	CS Dup (W0E0634-BSD1)					Prepared: 05	/19/10	Analyzed: 05/2	5/10 13:16	
Azinphos methyl (Guthion) 1.00 ug/l 1.00 100 18-159 0.8 25 Bolstar 1.03 ug/l 1.00 103 49-148 6 25 Chlorpyrifos 0.958 ug/l 1.00 96 49-143 5 25 Coumaphos 1.15 ug/l 1.00 115 42-161 6 25 Demeton-0 0.836 ug/l 1.00 84 47-132 7 25 Demeton-s 0.790 ug/l 1.00 79 45-147 3 25 Diazinon 0.944 ug/l 1.00 94 46-136 2 25 Diazinon 0.928 ug/l 1.00 93 29-164 4 25 Disulfoton 0.893 ug/l 1.00 89 46-155 9 25 Ethoprop 0.830 ug/l 1.00 89 46-155 9 25 Ethoprop 0.830 ug/l 1.00 89 54-167 7 25 Fensulfothion 0.730 ug/l 1.00 89 54-167 7 25 Merphos 1.33 ug/l 1.00 73 50-143 5 25 Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25 Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25 Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25 Phorate 0.817 ug/l 1.00 82 56-134 6 25 Ronnel 0.953 ug/l 1.00 82 56-134 6 25 Stirophos 0.875 ug/l 1.00 88 46-146 3 22 Tokuthion (Prothiofos) 0.974 ug/l 1.00 88 46-146 3 22 Tokuthion (Prothiofos) 0.974 ug/l 1.00 88 46-146 3 22 Tokuthion (Prothiofos) 0.974 ug/l 1.00 87 52-139 5 22 Tokuthion (Prothiofos) 0.974 ug/l 1.00 97 52-139 5		•		Qualifier	Units	•	%REC		RPD	RPI Lim
Bolstar         1.03         ug/l         1.00         103         49-148         6         25           Chlorpyrifos         0.958         ug/l         1.00         96         49-143         5         25           Coumaphos         1.15         ug/l         1.00         115         42-161         6         25           Demeton-o         0.836         ug/l         1.00         84         47-132         7         25           Demeton-s         0.790         ug/l         1.00         79         45-147         3         25           Diazinon         0.944         ug/l         1.00         94         46-136         2         25           Disulfotron         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         89         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Merphos         1.33         ug/l <td>Surrogate: Triphenyl phosphate</td> <td></td> <td>1.01</td> <td></td> <td>ug/l</td> <td>1.00</td> <td>101</td> <td>6-173</td> <td></td> <td></td>	Surrogate: Triphenyl phosphate		1.01		ug/l	1.00	101	6-173		
Chloryprifos 0.958 ug/l 1.00 96 49-143 5 25 Coumaphos 1.15 ug/l 1.00 115 42-161 6 25 Demeton-0 0.836 ug/l 1.00 84 47-132 7 25 Demeton-s 0.790 ug/l 1.00 79 45-147 3 25 Diazinon 0.944 ug/l 1.00 94 46-136 2 25 Dibiloryos 0.928 ug/l 1.00 93 29-164 4 25 Disulfoton 0.883 ug/l 1.00 89 46-155 9 25 Ethoprop 0.830 ug/l 1.00 89 46-155 9 25 Ethoprop 0.830 ug/l 1.00 89 54-167 7 25 Fensulfothion 0.889 ug/l 1.00 89 54-167 7 25 Fenthion 0.730 ug/l 1.00 73 50-143 5 25 Merphos 1.33 ug/l 1.00 133 40-185 0.8 25 Methyl parathion 0.873 ug/l 1.00 87 47-142 3 25 Mevinphos 0.771 ug/l 1.00 87 47-142 3 25 Naled 0.354 Q-12 ug/l 1.00 35 16-177 27 25 Phorate 0.817 ug/l 1.00 82 56-134 6 25 Ronnel 0.953 ug/l 1.00 95 49-140 0.1 25 Stirophos 0.875 ug/l 1.00 88 46-146 3 25 Tokuthion (Prothiofos) 0.974 ug/l 1.00 88 46-146 3 25 Tokuthion (Prothiofos) 0.974 ug/l 1.00 87 67-139 5 25	Azinphos methyl (Guthion)	*	1.00		ug/l	1.00	100	18-159	8.0	25
Chlorpyrifos         0.958         ug/l         1.00         96         49-143         5         25           Coumaphos         1.15         ug/l         1.00         115         42-161         6         25           Demeton-o         0.836         ug/l         1.00         84         47-132         7         25           Demeton-s         0.790         ug/l         1.00         79         45-147         3         25           Diazinon         0.944         ug/l         1.00         94         46-136         2         25           Disulfoton         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         89         54-167         7         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fensulfothion         0.730 <t< td=""><td>Bolstar</td><td></td><td>1.03</td><td></td><td>ug/l</td><td>1.00</td><td>103</td><td>49-148</td><td>6</td><td>25</td></t<>	Bolstar		1.03		ug/l	1.00	103	49-148	6	25
Coumaphos         1.15         ug/l         1.00         115         42-161         6         25           Demeton-o         0.836         ug/l         1.00         84         47-132         7         25           Demeton-s         0.790         ug/l         1.00         79         45-147         3         25           Diazinon         0.944         ug/l         1.00         94         46-136         2         25           Disulfoton         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         89         54-167         7         25           Merphos         1.33         ug/l         1.00         73         50-143         5         25           Methyl parathion         0.873         ug/l	Chlorpyrifos		0.958		ug/l	1.00	96	49-143	5	25
Demeton-s         0.790         ug/l         1.00         79         45-147         3         25           Diazinon         0.944         ug/l         1.00         94         46-136         2         25           Dichlorvos         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         89         54-167         7         25           Methylor         0.730         ug/l         1.00         73         50-143         5         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         87         47-142         3         25           Naled         0.354         Q-12 </td <td></td> <td></td> <td>1.15</td> <td></td> <td>ug/l</td> <td>1.00</td> <td>115</td> <td>42-161</td> <td>6</td> <td>25</td>			1.15		ug/l	1.00	115	42-161	6	25
Diazinon         0.944         ug/l         1.00         94         46-136         2         25           Dichlorvos         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         73         50-143         5         26           Merphos         1.33         ug/l         1.00         73         50-143         5         26           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         26           Mevinphos         0.771         ug/l         1.00         77         43-145         5         26           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         26           Phorate         0.817	Demeton-o		0.836		ug/l	1.00	84	47-132	7	25
Diazlitor         0.928         ug/l         1.00         93         29-164         4         25           Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         73         50-143         5         25           Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Naled         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953	Demeton-s		0.790		ug/l	1.00	79	45-147	3	25
Disulfoton         0.893         ug/l         1.00         89         46-155         9         25           Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         73         50-143         5         25           Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         26           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         26           Stirophos         0.875 <td>Diazinon</td> <td></td> <td>0.944</td> <td></td> <td>ug/l</td> <td>1.00</td> <td>94</td> <td>46-136</td> <td>2</td> <td>25</td>	Diazinon		0.944		ug/l	1.00	94	46-136	2	25
Ethoprop         0.830         ug/l         1.00         83         54-141         0.6         25           Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         73         50-143         5         25           Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         88         46-146         3         25           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         26	Dichlorvos		0.928		ug/l	1.00	93	29-164	4	25
Fensulfothion         0.889         ug/l         1.00         89         54-167         7         25           Fenthion         0.730         ug/l         1.00         73         50-143         5         25           Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         26           Stirophos         0.875         ug/l         1.00         97         52-139         5         26           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         26	Disulfoton		0.893		ug/l	1.00	89	4 <del>6</del> -155	9	25
Fenthion         0.730         ug/l         1.00         73         50-143         5         25           Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         26           Stirophos         0.875         ug/l         1.00         97         52-139         5         26           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         26	Ethoprop		0.830		ug/l	1.00	83	54-141	0.6	25
Merphos         1.33         ug/l         1.00         133         40-185         0.8         25           Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         25           Stirophos         0.875         ug/l         1.00         88         46-146         3         25           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         26	Fensulfothion		0.889		ug/l	1.00	89	54-167	7	25
Methyl parathion         0.873         ug/l         1.00         87         47-142         3         25           Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         25           Stirophos         0.875         ug/l         1.00         88         46-146         3         25           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         25	Fenthion		0.730		ug/l	1.00	73	50-143	5	25
Mevinphos         0.771         ug/l         1.00         77         43-145         5         25           Naled         0.354         Q-12         ug/l         1.00         35         16-177         27         25           Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         25           Stirophos         0.875         ug/l         1.00         88         46-146         3         25           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         26	Merphos		1.33		ug/l	1.00	133	40-185	0.8	25
Naled       0.354       Q-12       ug/l       1.00       35       16-177       27       25         Phorate       0.817       ug/l       1.00       82       56-134       6       25         Ronnel       0.953       ug/l       1.00       95       49-140       0.1       25         Stirophos       0.875       ug/l       1.00       88       46-146       3       25         Tokuthion (Prothiofos)       0.974       ug/l       1.00       97       52-139       5       26	Methyl parathion		0.873		ug/l	1.00	87	47-142	3	25
Phorate         0.817         ug/l         1.00         82         56-134         6         25           Ronnel         0.953         ug/l         1.00         95         49-140         0.1         25           Stirophos         0.875         ug/l         1.00         88         46-146         3         25           Tokuthion (Prothiofos)         0.974         ug/l         1.00         97         52-139         5         25	Mevinphos		0.771		ug/l	1.00	77	43-145	5	25
Ronnel       0.953       ug/l       1.00       95       49-140       0.1       25         Stirophos       0.875       ug/l       1.00       88       46-146       3       25         Tokuthion (Prothiofos)       0.974       ug/l       1.00       97       52-139       5       25	Naled		0.354	Q-12	ug/l	1.00	35	16-177	27	25
Stirophos       0.875       ug/l       1.00       88       46-146       3       26         Tokuthion (Prothiofos)       0.974       ug/l       1.00       97       52-139       5       26	Phorate		0.817		ug/l	1.00	82	56-134	6	25
Tokuthion (Prothiofos)	Ronnel		0.953		ug/l	1.00	95	49-140	0.1	25
Tokuthion (Prothiofos)	Stirophos		0.875		ug/l	1.00	88	46-146	3	25
Trichloronate	·		0.974		ug/l	1.00	97	52-139	5	25
	Trichloronate		0.929		ug/l	1.00	93	52-136	10	25





#### 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.

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



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.

#### Flags for Data Qualifiers:

Q-12	The NFD result exceeded the QC control limits, 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.
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 The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for  $\geq 0.5$  and off for < 0.5

DL Method Detection Limit
RL Method Reporting Limit
MDA Minimum Detectable Activity

CHAIN OF CUSTODY RECORD

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

Date: 5 / 18 / 10 Page \_ of \_

Lab Project No.: 1005390

MAZAM			Š.	ر	Client Project ID.	<u>ن</u> ر			100	Ψ	Analysis Requested	Regues	ted		[	Contraction BDD Jafor	(C)
Client Address: 977 S	V	Pack	17,	, 		·		3	<u>S</u>	כמ	S W				3	oracnei EDD mio.	
SanDicko	K K	9712	M					75	0-	9<	N						3000
>					Turn Around	Immediate	24 Hour	<b>V</b> :	<u> </u>	-	روا	53		-	וּט ו	Client LOGCODE	455
Client Tel No. 878 7.78 . 8600	38	00			Time Requested	48 Hour	72 Hour	376	10V	19	170	er					
Client Fax. No.:					L			7 1	40 VI	17	@}	VØ				Site Global ID	
Client Proj. Mgr.: AMANOA	1 1	ARCHENHOLD	COLD			Normai	Mobile	7	24 24	'p'	191	46					Hoov to
Client Sample ID.	Sierra No.	Date	Time	Matrix	R Preservative	e Container Type	No. of Containers	10	CH	sı q	EN LO.	H			F. F.	Field Point Names/ Comments	
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ampler Signature:			- S	Shipped Via:				\ _	J		Laboratory	_			Retu	Return to Client	
なりない。	Ş		0)	(Carrier/Waybill)	(2)					1				di forma co mani			
1 19		5		Received B	12	4	S-18-		ivery of sar ation to pe	mples and I rrform the	ne signature unalysis spe	on Inis chi cified abov	e under Si	The delivery of samples and the signature on fins chain of tessional form consumers fundorization to perform the analysis specified above under SIERRA'S Terms and the statement of the statement		🔲 Lab Disposal*	
7/	001	I IV I		Y	Company	1	138 S	* - Sami	ples determ	nined to be	hazardous b	y SIERRA	will be rel	Conditions, titless that was agreed upon in many a samples determined to CLIENT.	T.	nivemos.	
	d d	į		Received Bv:			Date:		ŗ		otal Nur	nber of	Contain	Total Number of Containers Received	d Other	<b>.</b>	
ceinquisireu by:		į		Contraint:			Time:		7	بي	by Laboratory	atory					
Ompuny:		Date	R. R.	Received By:			Date:	FOR	LABOR	LATOR	7 USE O	VLY - St	ımple R	FOR LABORATORY USE ONLY - Sample Receipt Conditions:	itions:		
		Ë		Company:			T Tme:		Intact			中口		Chilled - Temp. (°C)	- TOP 3		No.
Special Instructions: A FARE GAM DECLIFS	1/3	141/	12.40	SK!	IS			] <u>§</u>	Sample Seals	seals Totalled		JE	Other		(		
3	,		ર્ટ (ભ	4 70	•	2			Appropriate Samp	nte Samol	rroperty Laborica Appropriate Sample Container	T.	Storas	Location	enced -ve	-46102	1
2	2	3		֡֝֝֝֝֝֟֝֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֝֓֓֓֡֓֡֓֓֡֓֡֓֡֓֡				<b>D</b>							j	\ i	
ev: 102005							DISTRIBUTION: White - To Accompany Samples,	ION: W	hite - Tc	Accon	ıpany Sa.		Yellow	- Laboratory	/ Copy, Pink	Yellow - Laboratory Copy, Pink - Field Personnel Copy	oby

# DRY WEATHER MONITORING EVENT 2 (6/15/10)

	x Field Screening Confirmation For IC/ID Follow-Up For										
GENERAL	L SITE DESCRIE	PTION	(NAD	83 decimal degrees to 5th p	lace)	MS4 Rec	eiving Water				
Site ID	CB01-1*		Latitude	(e.g., 33.41174) 32.73283	T . I	ogic Unit	(e.g., 7.00) 908				
Location	Catch basin near	landmark	Longitude	(e.g., -117.35213) -117.17764	Hydroko Hydroko Hydroko	ogic Area	(e.g., 7.10) 908.2				
Date	6/15/2010		TB Page	1288 HI	E Hydrok (Optional	ogic Subarea	(e.g., 7.11) 908.21				
Time	0712		Observer	KG, AM	Discharge An (Optional)	rea					
Land Use (Check one	•	Residential Co	mmercial x I	ndustrial Agricul	tural Parks	Op	oen				
	(Secondary) greater than 10%)	Residential Co	mmercial x I	ndustrial Agricu	tural Parks	Open	None				
Conveyan (Check one	ce		h Basin O	utlet Concrete Channel	Natural Creek	Earthen Channel	Curb/Gutter				
ATMOSP	HERIC CONDIT	TIONS		9.							
Weather	Sunny	Partly Cloudy Ov	ercast x Fog	**************************************							
Tide	N/A	,	coming Hig		g Tide Ho	e <b>ight:</b> ft.					
Last Rain	x > 72 hours	< 72 hours									
Rainfall	x None	< 0.1" > 0	0.1"				#				
RUNOFF	CHARACTERIS	STICS									
Odor	None	Musty R	totten Eggs	Chemical	Sewage	x Other	Dry				
Color	None		Frown	White	Gray	x Other	Dry				
Clarity	Clear		lightly Cloudy	Opaque		x Other					
Floatable			Subbles/Foam	Sheen	Fecal Matter	Other					
Deposits			ine Particulates	Stains	Oily Deposi	ts Other					
Vegetatio			Tormal	Excessive	77	Other	•				
Biology	x None	Insects Algae	Fish Snai		Insect/ In gae Snai	sect/ Other					
Water Fl	ow Flow	ring Ponded x D	ry Tidal								
		reach the Receiving Wa		Yes N	o x N/A						
Evidence	of Overland Flov	w? Yes x No	Irrigation	Runoff Other:							
Photo Ta	ken x Yes	No Photo #					-				
Field Scree	ening Samples Co		o								
Water Ter		NH3-N (mg/L)		NO3-N (mg/L)		tho-PO <sub>4</sub> (mg/L)					
pH (pH uni	ts)	TURB (NTU)		COND (mS/cm)	MI	BAS (mg/L)					
Analytica	l Lab Samples C	ollected? Yes	No			·	2) (i)				
	STIMATION WO		D - 441	V		Floreiro Di-	_				
	ng Creek or Box (	ft Volume	ing a Bottle or	Known Volume	Diameter	Flowing Pip	e ft				
Width Depth		ft Volume	311 T	sec	Depth		ft				
Velocity		ft/sec Flow	447	gpm	Velocity		ft/sec				
Flow		gpm		Or	Flow		gpm				
		<u> </u>									
COMME	NTS: <u>*altern</u>	ate site used due to cons	truction.		*7						

	X Field Screeni	ng Co	onfirmation	For		x IC	/ID Fo	ollow-Up	For <u>5/1</u>	8/201	0
GENERAL	L SITE DESCR	IPTION		(NAD	83 decimal de	egrees to 5th p	lace)		MS4	Rec	eiving Water
Site ID	CB03-2			Latitude	(e.g., 33.411 32.72864		T	Hydrok	ogic Unit		(e.g., 7.00) 908
Location	Catch basin @	S. end of blast	fence	Longitude	(e.g., -117.35 -117.1784		Watershed	Hydrole	ogic Area		(e.g., 7.10) 908.2
Date	6/15/2010			TB Page	1288 J1		hed	Hydrole (Option	ogic Subar al)	ea	(e.g., 7.11) 908.21
Time	0747			Observer	KG, AM			charge Ar	rea		
Land Use (Check one		Residen	itial Cor	nmercial x	Industrial	Agricul		Parks		Op	en
(Optional,	( <b>Secondary)</b> greater than 10%	Residen	tial Cor	nmercial x	Industrial	Agricul	tural	Parks	Oper	1	None
Conveyand (Check one		Manhol	e x Catch	Basin O	utlet	Concrete annel		Natural reek	Earthen Channel	[	Curb/Gutte
ATMOSP	HERIC CONDI	TIONS									
Weather	Sunny	Partly Clo	oudy Ove	ercast x Fog							
Tide	N/A	x Low		oming Hig		Outgoing	<u>!</u>	Tide He	eight:	ft.	
Last Rain	x > 72 hours	< 72 hour			/		2		-8	12	
Rainfall	x None	< 0.1"	> 0	1"							
	CHARACTER	·····									
Odor	x None	Musty	Ro	otten Eggs	Chem	ical	Sa	wage	,	Other	
Color	x None	Yellow	····	own	White		Gr		***************************************	***************************************	
Clarity	x Clear	T CHO W	***************************************	ghtly Cloudy	Opaqı		- Oi	ay		Other	
Floatables		x Trash		ibbles/Foam	Sheen		E <sub>2</sub> .	a a 1 3 da 44	***************************************	Other	
Deposits	None	Sediment/Gra		ne Particulates	Stains			cal Matter		Other	
Vegetation		Limited	***************************************	ormal	Exces		U1	ly Deposit		Other	
Biology	x None		······	***************************************					~~~~	Other	
Diology	A 140He	Insects	Algae	Fish Snai	ls Mus Barnac		nsect/ gae	Ins Snail		Other	
Water Flo	w Flow	ving Pond	ed Dry	y x Tidal							
Does the s	torm drain flow	reach the Rec	ceiving Wate	er?	Yes	No	x	N/A			
Evidence of	of Overland Flo	w?	Yes x No	Irrigation	Runoff	Other:				_	
Photo Tak	en Yes	x No I	Photo #								
	ning Samples Co		es x No								
Water Ten			N (mg/L)		NO3-N (mg				no-PO4 (mg/l	L)	
pH (pH units	)	TUR	B (NTU)		COND (m.	S/cm) 32		MB	AS (mg/L)		
	Lab Samples C			k No					_		
	TIMATION W			_	<del></del>						
	g Creek or Box			g a Bottle or	Known Vo				Flowing	Pipe	
Width		ft	Volume	1		mL		Diameter	_		ft
Depth		ft	Time to Fil	I is		sec	<b>⊣</b> ⊢	Depth			ft
Velocity		ft/sec	Flow			gpm	→ ⊢	Velocity			ft/sec
Flow		gpm	L					Flow			gpm
COMMEN	TS: Site is clear	ly seawater									

	X Field Screenii	ng Confirm	ation I	for			C/ID Fo	ollow-Up F	or	
GENERAL	L SITE DESCR	IPTION		(NAD	83 decimal de			_		nacivina XV-4
Site ID	CB05-3				(e.g., 33.411					eceiving Water (e.g., 7.00)
Site ID	СВ03-3			Latitude	32.73782	·	_ Wa₁	Hydrolog	ic Unit	908
Location	Rental car park	ing lot		Longitude	(e.g., -117.35 -117.1831		Watershed	Hydrolog		(e.g., 7.10) 908.2
Date	6/15/2010			TB Page	1268 H7		ed .	Hydrolog (Optional)	ic Subarea )	(e.g., 7.11) 908.21
Time	0812		1	Observer	KG, AM	<del>_</del>		charge Areational)	a	
Land Use (Check one		Residential	Com	mercial x l	Industrial	Agricu		Parks		Open
(Optional,	( <b>Secondary)</b> greater than 10%	) Residential	Com	mercial x I	Industrial	Agricul	ltural	Parks	Open	None
(Check one		Manhole x	Catch 1	Basin O	mer	Concrete annel		Natural eek (	Earthen Channel	Curb/Gutte
ATMOSP	HERIC CONDI	TIONS								5
Weather	Sunny	Partly Cloudy	x Over	cast Fog						
Tide	N/A	x Low	***************************************	ming Hig		Outgoin	OT .	Tide Heig	<b></b>	
Last Rain	x > 72 hours	< 72 hours				Outgoin	5	TIUC TICIE	11.	
Rainfall	x None	< 0.1"	> 0.1	77						
	CHARACTERI		<u> </u>							
Odor	x None	Musty	Das	4 E	CI.		•			
Color	x None	Yellow		ten Eggs	Chem			wage	Othe	
Clarity	x Clear	Tellow	Bro		White		Gra	ay	Othe	
Floatables		Trash		htly Cloudy	Opaqı				Othe	
Deposits		x Sediment/Gravel		bles/Foam	Sheen			al Matter	Othe	
Vegetation	······			e Particulates	Stains		Oil	y Deposits	Othe	
Biology	x None	Limited	Nor		Exces		***************************************		Othe	
Biology	X None	Insects Algae	r	ish Snail	s Muss Barnac		nsect/ gae	Insec Snail	ct/ Othe	er
Water Flo	w Flow	ing x Ponded	Dry	Tidal						
Does the s	torm drain flow	reach the Receiving	Water	?	Yes	No	<b>x</b> .	N/A		
Evidence o	of Overland Flow	w? x Yes	No	Irrigation	Runoff	c Other: w			for dust suppi	ression
Photo Tak	en Yes	x No Photo #	ł							
	ning Samples Co		No							
Water Tem	<del></del>	NH3-N (mg/L		7.	NO3-N (mg	/L) .5		Ortho	-PO <sub>4</sub> (mg/L)	.2
pH (pH units	7.96	TURB (NTU)	1.86	5	COND (mS	(/cm) 2.2	3	MBA	S (mg/L)	.5
	Lab Samples C		es x	No						
	TIMATION WO	· <del>-</del>								
	Creek or Box (			a Bottle or I	Known Vol	ume			Flowing Pip	e
Width		ft Volume				mL	_	Diameter		ft
Depth		<u> </u>	to Fill	_		sec		Depth		ft
Velocity		ft/sec Flow				gpm		Velocity		ft/sec
Flow		gpm					_  <u> </u>	Flow		gpm
COMMEN	TS: Water i	in catch from dust su	ppress	sion water tru	ıck.					

=	x Field Screenin	g	Confirmation	ı For		IC/I	D Fo	llow-Up For	•	
GENERAL	L SITE DESCRI	PTION		(NAD	83 decimal degrees	to 5th pla	ce)	_	MS4 Re	eceiving Water
Site ID	CB05-4			Latitude	(e.g., 33.41174) 32.73063		- 1	Hydrologic		(e.g., 7.00) 908
Location	Catch basin nea	r generator	yard	Longitude	(e.g., -117.35213) -117.18301		Watershed	Hydrologic	Area	(e.g., 7.10) 908.2
Date	6/15/2010			TB Page	1288 G1		hed	Hydrologic (Optional)	Subarea	(e.g., 7.11) 908.21
Time	0739			Observer	KG, AM			harge Area ional)		•
Land Use (Check one		Resid	lential Co	ommercial x I	ndustrial A	gricultu		Parks	. (	Open
	( <b>Secondary)</b> greater than 10%)	Resid	lential Co	ommercial x I	ndustrial A	.gricultu	ral	Parks	Open	None
Conveyand (Check one		Manl	nole x Cato	h Basin Ou	ıtlet Conci Channe		N Cre		Earthen nannel	Curb/Gutter
ATMOSP	HERIC CONDI	TIONS	-	·						
Weather	Sunny	Partly C	Cloudy x Ov	vercast Fog	***************************************					
Tide	N/A	x Low	······································	coming High	H	tgoing		Tide Heigh	ı <b>t:</b> ft.	
Last Rain	x > 72 hours	< 72 ho	***************************************	<u>V</u>			***************************************			
Rainfall	x None	< 0.1"	> '	0.1"						
RUNOFF	CHARACTERI	STICS								
Odor	x None	Musty	F	lotten Eggs	Chemical		Sev	/age	Othe	er -
Color	x None	Yellow		Brown	White		Gra		Othe	
Clarity	x Clear		S	ightly Cloudy Opaque				<u>J</u>	Othe	
Floatables	x None	Trash	***************************************	Subbles/Foam	ibbles/Foam Sheen			al Matter	Othe	
Deposits	None	x Sediment/C		ine Particulates	Stains			/ Deposits	Othe	
Vegetation	x None	Limited	N	Tormal	Excessive				Othe	
Biology	x None	Insects	Algae	Fish Snail		Ins Alga	ect/	Insect/ Snail		
Water Flo	w Flow	ing Po	nded D	ry x Tidal						
Does the s	torm drain flow	reach the R	Receiving Wa	ter?	Yes	No	x N	N/A		
Evidence of	of Overland Flow	v?	Yes x No	Irrigation	Runoff Oth	ner:				
Photo Tak	en Yes	x No	Photo #							
Field Screen	ning Samples Co	llected?	x Yes N	o Conductivity	only					<del></del>
Water Ten	p (°C)	NI	13-N (mg/L)		NO3-N (mg/L)			Ortho-F	PO <sub>4</sub> (mg/L)	
pH (pH units	)	TU	JRB (NTU)		COND (mS/cm)	48.3		MBAS		-
Analytical	Lab Samples Co	ollected?	Yes	x No				·		
	TIMATION WO		TS	<del></del>						
	Creek or Box C	ulvert		ng a Bottle or I	Known Volume			F	lowing Pip	е
Width		ft	Volume		mL		_	iameter		Ft
Depth		ft	Time to F	ill	sec			epth		Ft
Velocity Flow	<del></del>	ft/sec	Flow		gpm			elocity	-	ft/sec
FIUW		gpm					LF	<u>low</u>		Gpm
COMMEN	TC 111									

	x Field Screening	g Confir	mation ]	For		_ IC/	ID Fol	llow-Up	For	
GENERAL	L SITE DESCRI	PTION		(NA	D 83 decimal des	grees to 5th pl	ace)		MS4	Receiving Water
Site ID	CB06-5			Latitude	(e.g., 33.4117 32.73584	4)	W <sub>s</sub>	Hydrolo	gic Unit	(e.g., 7.00) 908
Location	CB near Air traf	fic control tower		Longitude	(e.g., -117.352 -117.18632		Watershed	Hydrolo	gic Area	(e.g., 7.10) 908.2
Date	6/15/2010			TB Page	1268 G7		hed	Hydrolo (Optiona	ogic Subarea	(e.g., 7.11) 908.21
Time	0802			Observer	KG, AM		1	harge Ar ional)	ea	
Land Use (Check one	` • •	Residential	Con	ımercial x	(Industrial	Agricult		Parks		Open
	( <b>Secondary</b> ) greater than 10%)	Residential	Con	nmercial x	(Industrial	Agricult	ural	Parks	Open	None
Conveyan (Check one		Manhole	x Catch	Basin	Chitiet	oncrete innel	N Cre	latural ek	Earthen Channel	Curb/Gutte
ATMOSP	HERIC CONDI	TIONS				·				
Weather	Sunny	Partly Cloudy	Ove	rcast x Fo	)g					
Tide	N/A	x Low			igh	Outgoing		Tide He	ight:	ft.
Last Rain	x > 72 hours	< 72 hours			·····	——————————————————————————————————————			<b>9</b>	
Rainfall	x None	< 0.1"	> 0.	1"						
RUNOFF	CHARACTERI	STICS		······································						
Odor	None	Musty	Ro	tten Eggs	Chemi	ical	Sew	age	x Ot	her
Color	None	Yellow		own	White		Gra		x Ot	
Clarity	Clear		Sli	ghtly Cloudy	······	ie		<u>/</u>	x Ot	
=									Dry	
Floatables	x None	Trash	Bu	bbles/Foam	Sheen		Fec	al Matter	Oı	ther
Deposits		x Sediment/Gravel	Fir	ne Particulate	es Stains		Oily	Deposit	s Ot	ther
Vegetation		Limited	No	rmal	Excess	sive			O	ther
Biology	X None	Insects Alg	ae ]	Fish Sna	ails Muss Barnac		sect/ ae	Ins Snail		ther
Water Fl	ow Flow	ing Ponded	x Dry	Tida	1					
Does the s	torm drain flow	reach the Receivi	ng Wate	r?	Yes	No	x l	N/A		
Evidence	of Overland Flov	v? Yes	x No	Irrigatio	on Runoff	Other:				
Photo Tal		x No Photo								
Field Scree	ning Samples Co	llected? Yes	x No						<del></del>	
Water Ten		NH3-N (m			NO3-N (mg	/L)		Ortl	10-PO <sub>4</sub> (mg/L)	
pH (pH unit		TURB (N1			COND (ms				AS (mg/L)	
Analytica	l Lab Samples C	ollected?	Yes	No					100	
FLOW ES	STIMATION WO	ORKSHEETS								<del></del>
Flowin	g Creek or Box (	Culvert	Fillin	g a Bottle o	r Known Vol	ume			Flowing I	Pipe
Width			lume			mL		Diameter		ft
Depth			me to Fil	1		sec		Depth		ft
Velocity		ft/sec Flo	)W			gpm		elocity		ft/sec
Flow		gpm					F	low		gpm
COMMEN	TS: Dry									

	x Field Screening	Confirmation 1	For	I(	/ID Follo	w-Up For		
GENERAI	L SITE DESCRI	PTION	(NAD 8	33 decimal degrees to 5th	olace)	MS	4 Rec	eiving Water
Site ID	CB07-6		Latitude	(e.g., 33.41174) 32.73085	≨ H	ydrologic Un	it	(e.g., 7.00) 908
Location	Oil water separat	tor At ASIG/American	Longitude	(e.g., -117.35213) -117.19323	Watershed H	ydrologic Ar	ea	(e.g., 7.10) 908.2
Date	6/15/2010		TB Page	1288 F1		ydrologic Su Optional)	barea	(e.g., 7.11) 908.21
Time	0645		Observer	KG, AM	Discha (Option	rge Area (al)	ie.	
Land Use (Check one		Residential Cor	nmercial x I	ndustrial Agricu	itural	Parks	Op	en
	(Secondary) greater than 10%)	Residential Cor	nmercial x I	ndustrial Agricu	ltural	Parks (	Open	None
Conveyan (Check one		Manhole x Catch	Basin O	utlet Concrete Channel	Nat Creek		then nel	Curb/Gutter
ATMOSP	HERIC CONDIT	TIONS						
Weather	Sunny	Partly Cloudy Ove	ercast x Fog					
Tide	N/A	x Low Inc	oming Hig	h Outgoin	g T	ide Height:_	ft.	
Last Rain	x > 72 hours	< 72 hours						
Rainfall	x None	< 0.1" > 0	.1"					
RUNOFF	CHARACTERIS	STICS						
Odor	None	Musty Ro	otten Eggs	Chemical	Sewag	ge	x Other	<u>Dry</u>
Color	None	Yellow Br	own	White	Gray		x Other	<u>Dry</u>
Clarity	Clear	SI	ightly Cloudy	Opaque			x Other	<u>Dry</u>
Floatable	s x None		ubbles/Foam	Sheen	Fecal	Matter	Other	
Deposits	None	Sediment/Gravel x Fig.	ne Particulates	Stains	Oily I	Deposits	Other	•
Vegetatio	n x None	Limited No.	ormal	Excessive			Other	
Biology	x None	Insects Algae	Fish Snai		Insect/ lgae	Insect/ Snail	Other	
Water Fl	low Flow	ing Ponded x Dr	y Tidal					
Does the	storm drain flow	reach the Receiving Wat	er?	Yes N	o x N/	<u>A</u>		
Evidence	of Overland Flov	v? Yes x No	Irrigation	Runoff Other:	21			
Photo Ta		x No Photo #						
Field Scree	ening Samples Co	ollected? Yes x No	)					
Water Ter		NH3-N (mg/L)		NO3-N (mg/L)		Ortho-PO	4 (mg/L)	
pH (pH uni		TURB (NTU)		COND (mS/cm)		MBAS (mg	g/L)	
Analytica	al Lab Samples C	ollected? Yes	x No					
FLOW E	STIMATION WO							LT.
	ng Creek or Box (		ng a Bottle or	Known Volume			wing Pip	T
Width		ft Volume	11	mL		ameter		Ft
Depth		ft Time to Fi	III	sec		pth locity		Ft ft/sec
Velocity		ft/sec Flow		gpm	-   Ve	locity		ft/sec Gpm
Flow		gpm		1		) W		Opin
COMME	NTS: Moist h	out no water						

x Field Screening Confirmation For IC/ID Follow-Up For											
GENERAL	L SITE DESCR	RIPTION		(NAD	83 decimal degr	rees to 5th pla	ace)		MS4	Rece	iving Water
Site ID	CB07-7		Latitu	ıde	(e.g., 33.41174 32.73000	)	Wa	Hydrolo			(e.g., 7.00) 908
Location	West wing par	king lot	Long	itude	(e.g., -117.352) -117.19390		Watersl	Hydrolo	gic Area		(e.g., 7.10) 908.2
Date	6/15/2010		ТВ Ра	age	1288 F1		hed	Hydrolo (Optiona	gic Subare l)	a	(e.g., 7.11) 908.21
Time	0606		Obser	rver	KG			harge Ar ional)	ea		
Land Use (Check one		Residential	Commercia	l x I	ndustrial	Agricult	ural	Parks	<u>_</u>	Ope	en .
	(Secondary) greater than 109	Residential	Commercia	1 x I	ndustrial	Agricult	ural	Parks	Open	))	None
Conveyan (Check one	ce		Catch Basin	Oı	utlet Char	ncrete	N Cre	Natural eek	Earthen Channel		Curb/Gutter
							<u> </u>				
ATMOSP	HERIC COND	ITIONS									
Weather	Sunny	Partly Cloudy	Overcast	x Fog	***************************************						
Tide	N/A	x Low	Incoming	Hig	h	Outgoing		Tide He	ight:	_ft.	
Last Rain	x > 72 hours	s < 72 hours									
Rainfall	xNone	< 0.1"	> 0.1"								
RUNOFF	CHARACTER	RISTICS									
Odor	None	Musty	Rotten Eg	gs	Chemic	al	Sev	vage	x O	ther	Dry
Color	None	Yellow	Brown	-	White		Gra	у	хC	ther	Dry
Clarity	Clear		Slightly C	loudy	Opaque	•		<del></del>	хC	ther	Dry
Floatables	None	Trash	Bubbles/F	oam	Sheen		Fec	al Matter	х С	ther	Dry
Deposits	None	x Sediment/Gravel	Fine Partic	culates	Stains		Oily	y Deposits	S C	ther	
Vegetation	n x None	Limited	Normal		Excess	ive			C	ther	
Biology	None	x Insects Algae	Fish	Snail	ls Musse Barnacle		sect/ ae	Ins Snail		ther	
Water Flo	ow Flo	wing Ponded	x Dry	Tidal					<b>1</b>		
Does the s	torm drain flov	w reach the Receiving	Water?		Yes	No	хl	N/A			
Evidence	of Overland Flo	ow? Yes	x No Irr	igation	Runoff	Other:				100	
Photo Tal	ken Yes	x No Photo #									
Field Scree	ning Samples (	Collected? Yes	x No		141					-	ii .
Water Ten	np (°C)	NH3-N (mg/L)			NO3-N (mg/I	.)		Orth	10-PO4 (mg/L	)	
pH (pH unit	s)	TURB (NTU)			COND (mS/	cm)		MB	AS (mg/L)		
Analytica	l Lab Samples (	Collected? Ye	es x No								
		VORKSHEETS							-		
	g Creek or Box		Filling a Bot	tle or			, ,		Flowing	Pipe	
Width		ft Volument			<del>-</del>	mL	- I	Diameter			Ft
Depth			to Fill			sec		Depth			Ft
Velocity		ft/sec Flow				gpm	-	elocity			ft/sec
Flow		gpm					<u>.                                    </u>	low			Gpm
COMMEN	TTS: <u>Dry</u>							· · · · · · · · · · · · · · · · · · ·			

	x Field Screenin	g Confirmation	For	x ]	IC/ID Fo	ilow-Up Fo	r <u>5/18/201</u>	.0
GENERAL	L SITE DESCRI	IPTION	(NAD 8	33 decimal degrees to 5t	h place)		MS4 Rec	eiving Water
Site ID	CB08-8		Latitude	(e.g., 33.41174) 32.73368	Wa	Hydrologi	ic Unit	(e.g., 7.00) 908
Location	Southwest Slit	Trench	Longitude	(e.g., -117.35213) -117.19673	Watershed	Hydrologi	ic Area	(e.g., 7.10) 908.2
Date	6/15/2010		TB Page	1288 F1	ned	Hydrologi (Optional)	ic Subarea	(e.g., 7.11) 908.21
Time	0915		Observer	KG, AM		charge Areational)	1	
Land Use (Check one		Residential Con	nmercial x I	ndustrial Agric	cultural	Parks	0	pen
	(Secondary) greater than 10%	Residential Con	nmercial x I	ndustrial Agric	cultural	Parks	Open	None
Conveyan (Check on		Manhole x Catch	Basin Ou	x Concrete Channel		Natural eek (	Earthen Channel	Curb/Gutter
ATMOSP	HERIC CONDI	ITIONS		··•				
Weather	Sunny	Partly Cloudy x Ove	rcast x Fog					
Tide	N/A		oming Hig	h Outgo	ing	Tide Heig	<b>ht:</b> ft.	
Last Rain	x > 72 hours	< 72 hours		(I)				
Rainfall	x None	< 0.1" > 0.	.1"					
RUNOFF	CHARACTER	ISTICS						
Odor	None	Musty Ro	otten Eggs	Chemical	Se	wage	Othe	Γ
Color	None	Yellow x Br	own	White	Gr	ay	Othe	[
Clarity	Clear	x Sli	ghtly Cloudy	Opaque			Othe	r y
Floatable	s None	x Trash Bu	ıbbles/Foam	x Sheen	Fe	cal Matter	Othe	r
Deposits	None	x Sediment/Gravel Fig.	ne Particulates	Stains	x Oi	ly Deposits	Othe	r
Vegetatio	n x None	Limited No	ormal	Excessive			Othe	r
Biology	x None	Insects Algae	Fish Snai		Insect/ Algae	Insec Snail	ct/ Othe	r
Water F	low Floy	wing x Ponded Dr	y Tidal					
		v reach the Receiving Wate	er?	Yes x	No	N/A		
Evidence	of Overland Flo	ow? x Yes No	Irrigation	Runoff Other	•			
Photo Ta	ken Yes	x No Photo #		······				
Field Screen	ening Samples C	Collected? Yes No	)					<del></del>
Water Te			)+_	NO3-N (mg/L)	Inconclu	sive Ortho	O-PO4 (mg/L)	2
pH (pH uni		TURB (NTU) O	ut of range	COND (mS/cm)	1.87	MBA	AS (mg/L)	10 +
Analytica	al Lab Samples (	Collected? x Yes	No					
FLOW E	STIMATION W	VORKSHEETS						
Flowin	ng Creek or Box		ng a Bottle or	Known Volume			Flowing Pip	
Width		ft Volume		mL		Diameter		ft
Depth		ft Time to Fi	.11	sec		Depth		ft
Velocity		ft/sec Flow		gpm		Velocity		ft/sec
Flow		gpm		<u>_</u>		Flow	L. <u></u>	gpm
COMME	NTS: Field :	test kit results for nitrate a	nd MBAS wei	re not conclusive d	ue to co	or of sampl	le water (vello	ow/brown.)

	x Field Screening	Confirmati	on For		/ID Fo	llow-Up For		
GENERAL	L SITE DESCRI	PTION	(NAD 8	33 decimal degrees to 5th	olace)	I	MS4 Rec	eiving Water
Site ID	CB12-9*		Latitude	(e.g., 33.41174) 32.73516	1 1	Hydrologic		(e.g., 7.00) 908
Location	Terminal 2 area (	rench drain	Longitude	(e.g., -117.35213) -117.20444	Watershed	Hydrologic	Area	(e.g., 7.10) 908.2
Date	6/15/2010		TB Page	1268 E7	ned	<b>Hydrologic</b> (Optional)	Subarea	(e.g., 7.11) 908.21
Time	0858		Observer	KG, AM		harge Area ional)		
Land Use (Check one	•	Residential	Commercial x I	ndustrial Agricul	tural	Parks	OĮ	en
(Optional,	(Secondary) greater than 10%)	Residential	Commercial x I	ndustrial Agricu		Parks	Open	None
Conveyan (Check one		Manhole Ca	atch Basin Ou	itlet Concrete Channel	Cre		Earthen annel	x Curb/Gutter
ATMOSP	HERIC CONDIT	TIONS						to the
Weather	Sunny	Partly Cloudy (	Overcast x Fog	······································				
Tide	N/A	x Low	Incoming Hig	h Outgoin	g	Tide Height	t:ft	
Last Rain	x > 72 hours	< 72 hours						
Rainfall	x None	< 0.1"	> 0.1"					
RUNOFF	CHARACTERIS	STICS						
Odor	x None	Musty	Rotten Eggs	Chemical	Sev	vage	x Other	Dry
Color	None	Yellow	Brown	White	Gra		x Other	
Clarity	Clear		Slightly Cloudy	Opaque	***************************************		x Other	
Floatable	s x None	Trash	Bubbles/Foam	Sheen	Fec	al Matter	Other	
Deposits	None		Fine Particulates	Stains	Oil	y Deposits	Other	•
Vegetatio		Limited	Normal	Excessive		<u>.</u>	Other	
Biology	x None	Insects Algae	Fish Snail		Insect/ gae	Insect/ Snail	Other	
Water Fl	ow Flow	ing Ponded x	Dry Tidal					
Does the	storm drain flow	reach the Receiving V	Vater?	Yes N	o x	N/A		
Evidence	of Overland Flow	v? Yes x	No Irrigation	Runoff Other: _	·····			
Photo Ta	ken Yes	x No Photo #_		on the little state of the				
Field Scree	ening Samples Co	llected? Yes x	No					
Water Ter		NH3-N (mg/L)	- 4	NO3-N (mg/L)		Ortho-I	PO4 (mg/L)	
pH (pH unit		TURB (NTU)		COND (mS/cm)		MBAS	_	_
Analytica	ıl Lab Samples Co	ollected? Yes	x No					•
FLOW E	STIMATION WO	ORKSHEETS				**		
Flowin	ng Creek or Box (	Culvert F	Filling a Bottle or	Known Volume		<b>F</b>	lowing Pipe	e
Width		ft Volum	e	mL		Diameter		ft
Depth		ft Time t	o Fill	sec	_	Depth		ft
Velocity		ft/sec Flow		gpm		Velocity		ft/sec
Flow		gpm				Flow		gpm
COMMEN	NTS: Alternate sit	te used due to CB12-9	being under cons	truction site SB12-1	3 (from	wet weather	r monitorin	2) used instead.

Site moist not flowing or samplable.

	x Field Screeni	ng Confirm	nation Fo	r		_ IC	/ID Fo	ollow-Up F	or		
GENERAL	L SITE DESCR	IPTION		(NAD	83 decimal de	grees to 5th p	lace)		MS4	Rec	eiving Water
Site ID	CB09-10		] 1	Latitude	(e.g., 33.4117 32.72993	74)	Wa	Hydrolo			(e.g., 7.00) 908
Location	T2 Entrance R	oad	]	Longitude	(e.g., -117.35 -117.1974		Watershed	Hydrolo	gic Area		(e.g., 7.10) 908.2
Date	6/15/2010		7	ΓB Page	1299 F1		ned	Hydrolo (Optiona	<b>gic Subare</b> l)	a	(e.g., 7.11) 908.21
Time	0616			Observer	KG, AM			charge Are	ea		
Land Use (Check one		Residential	Comm	nercial x I	ndustrial	Agricult	ural	Parks		Op	en
	( <b>Secondary</b> ) greater than 10%	Residential	Comm	nercial x I	ndustrial	Agricult	ural	Parks	Open	<b>L</b>	None
(Check one		Manhole	x Catch Ba	asin O	itlet	Concrete annel		Natural eek	Earthen Channel		Curb/Gutter
ATMOSP	HERIC COND	ITIONS									
Weather	Sunny	Partly Cloudy	Overc	ast x Fog							
Tide	N/A	x Low	Incom	ing Hig	h #	Outgoing	;	Tide Hei	ight:	_ft.	
Last Rain	x > 72 hours	s < 72 hours									
Rainfall	x None	< 0.1"	> 0.1"	•							
	CHARACTER	ISTICS		***************************************							
Odor	None	Musty	Rotte	en Eggs	Chem	ical	Se	wage	x (	Other	Dry
Color	None	Yellow	Brov		White		Gr	X		Other	Dry
Clarity	Clear	TCHOW		tly Cloudy	Opaqı			<u></u>		Other	Dry
Floatables		Trash		oles/Foam	Sheen		Fe	cal Matter		Other	Dry
Deposits	None	x Sediment/Gravel		Particulates	Stains			ly Deposits		Other	DIY
Vegetation		Limited	Norn		Exces		<u> </u>	ly Deposits	<del></del>	Other	
Biology	None	x Insects Alg				sels/ I	nsect/	Inse Snail		Other	
Water Fl	ow Flo	wing Ponded	x Dry	Tidal		S	2				
		w reach the Receivin			Yes	No	. х	N/A			
Evidence	of Overland Flo	ow? Yes	x No	Irrigation	Runoff	Other: _				=	
Photo Tal	ken Yes	x No Photo	#								
	ning Samples (		x No		NO. N	1			- PO		
Water Ter		NH3-N (m)			NO3-N (mg				10-PO4 (mg/I AS (mg/L)	_)	<del> </del>
pH (pH unit					COND (m	S/cm)		NID	AS (mg/L)		
	l Lab Samples		Yes	No							
	STIMATION V g Creek or Box	VORKSHEETS Culvert	Fillino	a Bottle or	Known Vo	lume			Flowing	Pine	
Width	<u> </u>		lume			mL	7	Diameter	1 10 17 1116	~	Ft
Depth			ne to Fill			sec		Depth			Ft
Velocity		ft/sec Flo				gpm		Velocity			ft/sec
Flow	51	gpm					] [	Flow			Gpm
COMMEN	ITS: <u>Dry</u>										

# **2010 Trash Assessment Form**

SITE ID:C	B01-1 DATE:6/15/2010									
LOCATION:C	CATCH BASIN NEAR LANDMARK TIME:0712									
OBSERVER:	AM,KG									
PREVIOUS TRASI	HASSESSMENT RATING (IF APPLICABLE):									
ESTIMATED ARE	A OF ASSESSMENT L x W (FT): 10x60									
	Amount and Extent of Trash									
EVALUATION OF T	RASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submargina	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial									

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

levels of litter and debris (>400 pieces).

\* In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	t I	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)							
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine	
Automotive													
Biohazard Waste										!			
Business Related	1												
Cigarette Butts													
Construction													
Fabric/Clothing													
Food Packaging			2 4									<u> </u>	
Food Waste				]					-		L		
Household													
Shopping Carts													
Toxic													
Yard Waste	v Ha			E E				N.		1-1		-4\	

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:			 
	J 30		
Ш			
		ñ	

# **2010 Trash Assessment Form**

SITE ID:CE	03-2 DATE:6/15/2010									
LOCATION:CA	TCH BASIN NEAR BLAST FENCE TIME:0747									
OBSERVER:	DBSERVER:AM,KG									
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL									
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 100x100									
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).									

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	Ħ		TENTIA HECK						E	=		
TYPE Ranking or Count	5 ∗	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing										<u> </u>		<u> </u>
Food Packaging						=						
Food Waste												
Household								<u> </u>				<u> </u>
Shopping Carts									<u> </u>		ļ	
Toxic						<u> </u>						1
Yard Waste							<u> </u>				<u> </u>	<u> </u>

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	·		
		60	
7.0			

# **2010 Trash Assessment Form**

SITE ID:C	305-3 DATE:6/15/2010									
OCATION:RENTAL CAR PARKING LOT TIME:0812										
OBSERVER:	DBSERVER:AM,KG									
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):SUBOPTIMAL										
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 100x100									
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a									

levels of litter and debris (>400 pieces).

Site Evalu	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ıt.		TENTIA HECK				P		TIAL S	OURCI TO 2)		
ТүрЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts											<u></u>	
Construction								<u> </u>	ļ			
Fabric/Clothing											<u> </u>	
Food Packaging									<u> </u>	<u> </u>	101	
Food Waste											<u> </u>	
Household						1	<u> </u>				ļ	ļ
Shopping Carts								<u> </u>	=	<u> </u>	<u> </u>	ļ
Toxic						2//	<u> </u>					
Yard Waste	DDECEN									<u> </u>	<u> </u>	

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	 		 
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# **2010 Trash Assessment Form**

SITE ID:CE	305-4 DATE:6/15/2010
LOCATION:CA	ATCH BASIN NEAR GENERATORSTIME:0739
OBSERVER:	AM,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 100x100
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
_	Site is significantly impacted by trash. Evidence of trash accumulation behind a

levels of litter and debris (>400 pieces).

constriction point or evidence of excessive dumping. Evaluated area contains substantial

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

□ Poor

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ţ		TENTIA HECK				P		TIAL S	OURCI TO 2)	E	-
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste							·					
Business Related			77									
Cigarette Butts												
Construction												
Fabric/Clothing												<u> </u>
Food Packaging												
Food Waste												
Household												
Shopping Carts											<u> </u>	
Toxic								<u> </u>	1	<u> </u>	<u> </u>	w)
Yard Waste	DDEOEN		lucate of a					<u> </u>			<u></u>	<u> </u>

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:

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# **2010 Trash Assessment Form**

SITE ID:CE	306-5 DATE:6/15/2010						
LOCATION:C	ATCH BASIN NEAR LANDMARK TIME:0806						
OBSERVER:AM,KG							
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL						
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 100X100						
	Amount and Extent of Trash						
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH						
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.						
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.						
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.						
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.						
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces)						

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ŧ	POTENTIAL ROUTE (CHECK UP TO 2)			POTENTIAL SOURCE (CHECK UP TO 2)							
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive	1											
Biohazard Waste												
Business Related		14.0										
Cigarette Butts					(3)							
Construction											-	
Fabric/Clothing												
Food Packaging	8											
Food Waste												
Household												
Shopping Carts												
Toxic										ļ		<u> </u>
Yard Waste	DDECEN										<u> </u>	

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:					
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# **2010 Trash Assessment Form**

SITE ID:CE	07-06 DATE:6/15/2010									
LOCATION:AA	A OIL/WATER SEP TIME:0645									
OBSERVER:	DBSERVER:AM,KG									
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):OPTIMAL										
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 30x30									
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).									

Site Evalua	Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)										
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.										
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.										

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	nt		TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)						
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												270700
Biohazard Waste												
Business Related												10
Cigarette Butts												
Construction									F.			
Fabric/Clothing												
Food Packaging												
Food Waste												
Household							_					
Shopping Carts												
Toxic												
Yard Waste												

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	 	
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# 2010 Trash Assessment Form

SITE ID:CB07-7	DATE:6/15/10
LOCATION: WEST WING PARKING LOT	TIME:0606
OBSERVER: KRIS GREEN	
PREVIOUS TRASH ASSESSMENT RATING (IF A	PPLICABLE): OPTIMAL_
ESTIMATED AREA OF ASSESSMENT L $x$ $W$ (FT	·):50x50

	Amount and Extent of Trash									
EVALUATION OF TR	EVALUATION OF TRASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
x Optimal  On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluate area is closely examined for litter and debris.										
□ Suboptimal	mal On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).									

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ŧ		TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)						
	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Honsehold	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related	-					No.						
Cigarette Butts											,	
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste		N/										
Household												
Shopping Carts												
Toxic												
Yard Waste	PRESEN				1 Abres			-		in least		1

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Jomments <u>:</u>									
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## 2010 Trash Assessment Form

SITE ID:CE	808-8 DATE:6/15/2010									
LOCATION:SV	V SLIT TRENCH TIME:0915									
OBSERVER:	AM,KG									
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):SUBOPTIMAL									
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 100x100									
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
☐ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Frash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									

levels of litter and debris (>400 pieces).

Site is significantly impacted by trash. Evidence of trash accumulation behind a

constriction point or evidence of excessive dumping. Evaluated area contains substantial

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

□ Poor

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ŧ		TENTIA HECK			POTENTIAL SOURCE (CHECK UP TO 2)						
Түре	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing								8			<u> </u>	
Food Packaging												
Food Waste												
Household												ļ
Shopping Carts										<u> </u>	<u> </u>	<u> </u>
Toxic							ļ	<u> </u>	<u> </u>	<u> </u>	Ļ	ļ
Yard Waste	DDECEN					<u> </u>	<u> </u>		<u> </u>	<u>L</u> .		<u> </u>

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	<del></del>		 
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## **2010 Trash Assessment Form**

SITE ID:CE	DATE:6/15/2010								
LOCATION:CA	TCH BASIN NEAR BLAST FENCE TIME:0858								
OBSERVER:	AM,KG								
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):OPTIMAL									
ESTIMATED AREA OF ASSESSMENT L x W (FT): 100x100									
<u> </u>	Amount and Extent of Trash								
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH								
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.								
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.								
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.								
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.								
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial								

levels of litter and debris (>400 pieces).

#### Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment) Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any □ Potential Threat to one item (e.g. Greater than 50 items that present a puncture or laceration **Human Health** hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form. Large amount\* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable. degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as □ Potential Threat to vehicle batteries, or spray cans; any evidence large clumps of yard waste **Aquatic Health** from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. \*Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

### Complete the following section for Submarginal, and Poor Evaluations ONLY

	ţ	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Honsehold	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction			=									
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste	DOCOCA						( is man			io legat		

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	 		
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# **2010 Trash Assessment Form**

SITE ID:CE	B09-10 DATE:6/15/2010
LOCATION:T2	ENTRANCE ROAD TIME:0616
OBSERVER:	AM,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 100x100
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial

levels of litter and debris (>400 pieces).

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

## Complete the following section for Submarginal, and Poor Evaluations ONLY

	ŧ	POTENTIAL ROUTE (CHECK UP TO 2)			POTENTIAL SOURCE (CHECK UP TO 2)							
Түре	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste						-				<u></u>		
Business Related												
Cigarette Butts							<u> </u>					
Construction				_								
Fabric/Clothing												
Food Packaging											<u> </u>	<u> </u>
Food Waste			- (					ļ				
Household										<u> </u>		
Shopping Carts											<u> </u>	
Toxic	_								L	<u> </u>	<u> </u>	
Yard Waste											<u> </u>	<u> </u>

\* Only rank the types of trash PRESENT in evaluated area from 1 through 12 (1 is most prevalent – 12 is least prevalent). DO NOT rank types of trash that are not present in evaluated area.

Comments:	 	 		 	
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21 June 2010

Amanda Archenhold MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego, CA 92123

RE:San Diego Airport

Work Order No.:

1006256

Attached are the results of the analyses for samples received by the laboratory on 06/15/10 12:15.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

land X. Forth

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



San Diego CA, 92123

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/21/10 17:03

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-6-15-10	1006256-01	Liquid	06/15/10 09:15	06/15/10 12:15

#### **CASE NARRATIVE**

SAMPLE RECEIPT: PRESERVATION:

Samples were received intact, at 4°C, and accompanied by chain of custody documentation.

**HOLDING TIMES:** 

Samples requiring preservation were verified prior to sample preparation and analysis. All holding times were met, unless otherwises 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

06/21/10 17:03

## ${\bf Microbiological\ Parameters\ by\ APHA\ Standard\ Methods}$

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limi	•	Dilution	Batch	Prepared	Analyzed	Method	Notes	
CB08-8-6-15-10 (1006256-01) Liquid Sampled: 06/15/10 09:15 Received: 06/15/10 12:15										
Enterococcus	50000	2000	MPN/100 mL	1000	B0F1510	06/15/10	06/15/10 13:00	SM 9230B		
Fecal Coliforms	1300000	20000	"	10000	"	**	**	SM 9221E		
Total Coliforms	3300000	20000	"	**	"	11	**	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.



MACTEC Engineering & Consulting

9177 Sky Park Court Suite A San Diego CA, 92123 Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/21/10 17:03

## Conventional Chemistry Parameters by APHA/EPA Methods

### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-6-15-10 (1006256-01) Liquid	Sampled: 06/15/	10 09:15 R	eceived: (	06/15/10 12	2:15				
Total Hardness Hexane Extractable Material (HEM)	677 2.10	0.400 2.00	mg/L "	1	B0F1711	06/15/10	06/17/10 10:15	SM 2340 C EPA 1664	



San Diego CA, 92123

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/21/10 17:03

### Metals (Dissolved) by EPA 200 Series Methods

### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
CB08-8-6-15-10 (1006256-01) Liquid Sampled: 06/15/10 09:15 Received: 06/15/10 12:15											
Cadmium	38	4.0	μg/L	2	B0F1608	06/16/10	06/17/10 10:56	EPA 200.8			
Copper	330	2.0	**	"	**	11	11	11			
Lead	12	4.0	**	**	Ħ	11	11	Ħ			
Zinc	4800	10	**	10	"	"	06/17/10 13:17	11			

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 9177 Sky Park Court Suite A San Diego CA, 92123 Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 06/21/10 17:03

## Metals (Dissolved) by EPA 200 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result			2010.						
Batch B0F1608 - EPA 200 Series						_				
Blank (B0F1608-BLK1)				Prepared:	06/16/10	Analyzed	: 06/17/10			
Cadmium	ND	4.0	μg/L							
Copper	ND	2.0	,,							
Lead	ND	4.0	**							
Zinc	ND	2.0	# T							
LCS (B0F1608-BS1)			25	Prepared:	06/16/10	Analyzed	l: 06/17/10			
Cadmium	98.9	4.0	μg/L	100		98.9	85-115			
Copper	93.9	2.0	"	100		93.9	85-115			
Lead	102	4.0	"	100		102	85-115			
Zinc	95.0	2.0	17	100		95.0	85-115			
Matrix Spike (B0F1608-MS1)	So	urce: 100625	6-01	Prepared	06/16/10	Analyzed	1: 06/17/10			
Cadmium	136	4.0	μg/L	100	38	98.0	70-130			
Copper	401	2.0	**	100	330	71.0	70-130			
Lead	109	4.0	**	100	12	97.0	70-130			
Zinc	4230	2.0	**	100	4800	NR	70-130			QM-07
Matrix Spike Dup (B0F1608-MSD1)	So	urce: 10062 <u>5</u>	6-01	Prepared	: 06/16/10	Analyzed	1: 06/17/10			
Cadmium	134	4.0	μg/L	100	38	96.0	70-130	1.48	30	
Copper	415	2.0	**	100	330	85.0	70-130	3.43	30	*
Lead	109	4.0	**	100	12	97.0	70-130	0.00	30	
Zinc	4580	2.0	**	100	4800	NR	70-130	7.95	30	QM-0'

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MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Reported: 06/21/10 17:03

San Diego CA, 92123

Project Manager: Amanda Archenhold

#### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

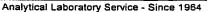
DET Analyte DETECTED

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, July 15, 2010 Received Date: Thursday, June 17, 2010

Received Time: 1:05 pm Turnaround Time: Normal

Client: Sierra Analytical

26052 Merit Circle, Suite 105 Laguna Hills, CA 92653

Attn: Nick Forsyth

Project: 1006256

Phones: (949) 348-9389

Fax: (949) 348-9115

P.O. #:

Lab Sample ID: 0F17022-01 Sampled by: Client	•		B08-8-6- 5/10 09:1	15-10 (10 5	06256-	01)	, AT		Matrix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch Qualifier
Azinphos methyl (Guthion)	ND	0.12	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Bolstar	ND	0.088	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Chlorpyrifos	ND	0.041	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Coumaphos	ND	0.068	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Demeton-o	ND	0.049	0.10	ug/i	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Demeton-s	ND	0.063	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Diazinon	ND	0.058	0.10	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Dichlorvos	ND	0.11	0.15	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752
Dimethoate	ND	0.087	0.25	ug/l	1x1	EPA 8141A	6/18/10	6/22/10 15:09	W0F0752

oate NC Disulfoton ND 0.064 **EPA 8141A** 0.10 ug/l 1x1 6/18/10 6/22/10 15:09 W0F0752 Ethoprop.......ND 0.11 0.15 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 ug/l 1x1 Ethyl parathion ND 0.12 0.25 1x1 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 ug/l Fensulfothion ND 0.090 **EPA 8141A** 0.10 ug/l 1x1 6/18/10 6/22/10 15:09 W0F0752 Fenthion.....ND 0.027 0.10 ug/i 1x1 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 Malathion.....ND 0.25 **EPA 8141A** 0.11 ug/l 1x1 6/18/10 6/22/10 15:09 W0F0752 **EPA 8141A** Merphos ND 0.062 0.10 6/18/10 6/22/10 15:09 W0F0752 ug/l 1x1 Methyl parathion......ND 0.057 0.10 1x1 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 ug/l Mevinphos......ND 0.089 **EPA 8141A** 0.10 1x1 6/18/10 6/22/10 15:09 W0F0752 ug/l Naled\_\_\_\_\_ND 0.060 **EPA 8141A** 0.10 ug/l 1x1 6/18/10 6/22/10 15:09 W0F0752 **EPA 8141A** Phorate\_\_\_\_\_ND 0.054 0.10 1x1 6/18/10 6/22/10 15:09 W0F0752 ug/l Ronnel ND 0.037 0.10 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 1x1 ug/l Stirophos......ND 0.050 0.10 1x1 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 ug/l Thionazin.....ND 0.15 0.25 **EPA 8141A** 6/18/10 6/22/10 15:09 W0F0752 ug/l 1x1 Tokuthion (Prothiofos)......ND **EPA 8141A** 0.063 0.10 6/18/10 6/22/10 15:09 W0F0752 ug/l 1x1

ug/l

1x1

 6/18/10 6/22/10 15:09 W0F0752

EPA 8141A



### **Quality Control Section**

**SpQualific** 

## Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0F0752 - EPA 8141A

lank (W0F0752-BLK1)	2.0				Prepared: (	06/18/10	Analyzed:	06/22/1	0 15:09
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		0.748	le le	ug/i	1.00	75	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/i					
Fensulfothion	• • • • • • • • • • • • • • • • • • • •	ND		ug/i			•		
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					
Thionazin		ND		ug/l					
Dimethoate	· · · · · · · · · · · · · · · · · · ·	ND		ug/l					
Malathion		ND		ug/l					
Ethyl parathion		ND		ug/l					
.CS (W0F0752-BS1)					Prepared:	06/18/10	Analyzed	: 06/22/	10 15:0
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPI Lim
Surrogate: Triphenyl phosphate		0.917		ug/i	1.00	92	6-173		
Azinphos methyl (Guthion)		0.918		ug/l	1.00	92	18-159		
Bolstar	•••••	0.917		ug/l	1.00	92	49-148		
Chlorpyrifos		0.735		ug/l	1.00	73	49-143		
Coumaphos		0.909		ug/l	1.00	91	42-161		
Demeton-o	•••••	0.955		υg/l	1.00	96	47-132		
Demeton-s				ug/l	1.00	76	45-147		
Diazinon		0.975		ug/l	1.00	98	46-136		
Dichlorvos		1.06		ug/l	1.00	106	29-164		
				ug/l	1.00	78	46-155		
Disulfoton				~3					

0F17022

Page 2 of 4



## Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0F0752 - EPA 8141A

.CS (W0F0752-BS1)	_				Prepared:	06/18/10	Analyzed	: 06/22/1	.0 15:09
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Fensulfothion		0.934		ug/l	1.00	93	54-167		1.5
Fenthion		0.918		ug/l	1.00	92	50-143		
Merphos		1.37		ug/i	1.00	137	40-185		
Methyl parathion		0.881		ug/l	1.00	88	47-142		
Mevinphos		0.907		ug/l	1.00	91	43-145		
Naled		0.283		ug/l	1.00	28	16-177		
Phorate		0.820		ug/l	1.00	82	56-134		
Ronnel	***************************************	0.941		ug/l	1.00	94	49-140		
Stirophos		0.909		ug/l	1.00	91	46-146		
Tokuthion (Prothiofos)		0.945		ug/l	1.00	94	52-139		
Trichloronate		0.867		ug/l	1.00	87	52-136		
.CS Dup (W0F0752-BSD1)					Prepared:	06/18/10	Analyzed	: 06/22/:	LO 15:0
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limi
Surrogate: Triphenyl phosphate		0.927		ug/l	1.00	93	6-173		
Azinphos methyl (Guthion)		1.01		ug/l	1.00	101	18-159	10	25
Bolstar	• • • • • • • • • • • • • • • • • • • •	0.942		ug/l	1.00	94	49-148	3	25
Chlorpyrifos	• • • • • • • • • • • • • • • • • • • •	0.706		ug/l	1.00	71	49-143	4	25
Coumaphos	•••••	0.970		ug/l	1.00	97	42-161	6	25
Demeton-o	•••••	0.920		ug/l	1.00	92	47-132	4	25
Demeton-s	• • • • • • • • • • • • • • • • • • • •	0.718		ug/l	1.00	72	45-147	6	25
Diazinon	•••••	0.910		ug/l	1.00	91	46-136	7	25
Dichlorvos	.,	1.10		ug/l	1.00	110	29-164	3	25
Disulfoton		0.752		ug/l	1.00	75	46-155	3	25
Ethoprop	•••••	0.837		ug/l	1.00	84	54-141	5	25
Fensulfothion	•••••	1.01		ug/l	1.00	101	54-167	7	25
Fenthion	•••••	0.877		ug/l	1.00	88	50-143	5	25
Merphos	•••••	1.38		ug/l	1.00	138	40-185	0.5	25
Methyl parathion	•••••	0.830		ug/l	1.00	83	47-142	6	25
Mevinphos		0.919		ug/l	1.00	92	43-145	1	25
Naled		0.161	Q-12	ug/l	1.00	16	16-177	55	25
Phorate		0.770		ug/l	1.00	77	56-134	6	25
Ronnel	•••••	0.898		ug/l	1.00	90	49-140	5	25
Stirophos	•••••	0.920		ug/l	1.00	92	46-146	1	25
Tokuthion (Prothiofos)	•••••	0.918		ug/l	1.00	92	52-139	3	25
Trichloronate	******	0.934		ug/l	1.00	93	. 52-136	7	25



#### 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.

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.

Contact: Kim G Tu (Project Manager)

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



Authorized Signature

ELAP #1132 LACSD # 10143

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.

#### Flags for Data Qualifiers:

Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC
	batch were accepted based on the percent recoveries and/or other acceptable OC data

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 The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution

factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for = 0.5 and off for < 0.5

DL Method Detection Limit
RL Method Reporting Limit
MDA Minimum Detectable Activity





Environmental and Analytical Services - Since 1964

### Sample Receipt Acknowledgement

WORK ORDER: 0F17022

26052 Merit Circle, Suite 105

Printed: 6/18/2010 12:15:27PM

Client:

Sierra Analytical

Project Manager: Kim G Tu

1006256

Project:

Report To:

Nick Forsyth

Sierra Analytical

8141

Project Number:

Invoice To:

Sierra Analytical

Andrew Kim

26052 Merit Circle, Suite 105

Laguna Hills, CA 92653

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

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

Laguna Hills, CA 92653

**Date Due:** 

07/01/10 15:00 (10 day TAT)

Received By:

Jaime Gomez

Date Received: 06/17/10 13:05

Logged In By:

Jaime Gomez

Date Logged In: 06/17/10 14:40

Samples Received at:

5.2°C

All containers intact:

Yes

Chain of custody completed:

Yes Yes

Number of Ice chests/packages: Custody seals preser Custody seals intact:

NA NA Sample labels & COC agree: Samples preserved properly:

Yes Yes

Appropriate Sample

Yes

Samples received on ic-

**Custody Seals** 

Yes No

Sample volume sufficient: Sufficient holding time for all

tests:

Yes

**Analysis** 

TAT

Comments

0F17022-01 CB08-8-6-15-10 (1006256-01) [Water] Sampled 06/15/10 09:15 Pacific

8141A Water

Containers:

06/22/10 09:15

**Expires** 

Comments:

6/18/2010

#### Note:

If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.



### SUBCONTRACT ORDER

## Sierra Analytical Labs, Inc. Sierra Proiect #: 1006256

0F17022

SENDING LABORATORY: Sierra Analytical Labs, Inc.	396			RECEIVING LABORATORY:
26052 Merit Circle, Suite 105 Laguna Hills, CA 92653 Phone: (949) 348-9389 Fax: (949) 348-9115 Laboratory Contact: Nick Forsyth		Turn Around Norm Time Requested: 48H	our 72 Hour	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: CB08-8-6-15-10 (1006256-01)	Liquid	06/15/10 09:15		
8141A O-P Pesticides (Low Level - 0.05	06/22/10	09:15		
Containers Supplied: /		о В		

Special Instructions:		Properly Labeled Chi	ple Seals  lled TEMP (°C)
Relinquished By	6/17/10 1305 Date / Time	Received By	Olitio 1305 Date / Tipne
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

Page 1 of 1

CHAIN OF CUSTODY RECORD

Date: 6/8/10 Page\_

SIERRAANALYTICAL

TEL: 949•348•9389

Geotracker EDD Info: mos. Field Point Names/ Client LOGCODE Site Global ID Comments Return to Client ☐ Lab Disposal\* Sample Disposal: MICRO- WIGH ☐ Archive Other a 0-37 Lab Project No.: 1006356 FOR LABORATORY USE ONLY - Sample Receipt Conditions: Preservatives - Verified By 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. Chilled - Temp. (°C) -Total Number of Containers Submitted to Total Number of Containers Received Storage Locativ Other \_ **Analysis Requested** Þ by Laboratory Appropriate Sample Container Laboratory Properly Labelled Sample Seals Intact Ø NO K 気が Containers No. of T2 Hour 24 Hour D 5 Day Ö Tine: Dale: Jarcays Container Kgreen@Mactec, com D 4 Day 48 Hour Preservative Client Project ID: Time Requested 26052 Merit Circle Suite 105 Laguna Hills, CA 92653 Turn Around Special Instructions: Please email results to Carrier/Waybill No. Matrix 3 Received By: Received By: Shipped Via: Company 6/15/10 0915 Time Client Proj. Mgr.: Ananda Archanhold 5,10 Time Date 0098817-858 Dag FAX: 949•348•9115 Sierra No. อี CBO 8-8-6-15-10 Client Sample ID. Client Tel. No.: Client Address: San Client Fax. No. 3 Relinquished By: Relinquished By:

DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy

P. 107005

# DRY WEATHER MONITORING EVENT 3 (7/14/10)

	x Field Screening	g Con	nfirmation :	For		IC/	TD Foll	ow-Up l	For		· · · · · · · · · · · · · · · · · · ·
GENERAL	SITE DESCRI	PTION		(NAD	83 decimal de	grees to 5th pl	ace)		x MS4	Rec	eiving Water
Site ID	CB01-1*			Latitude	(e.g., 33.4117 32.73283			Hydrolo	gic Unit		(e.g., 7.00) 908
Location	Catch basin near	landmark		Longitude	(e.g., -117.35 -117.17764	213)	Watershed	Hydrolo	gic Area		(e.g., 7.10) 908.2
Date	7/14/2010			TB Page	1288 H1			<b>Hydrolo</b> Optiona	gic Subare	a	(e.g., 7.11) 908.21
Time	0720			Observer	KG, RR		Disch (Optio	arge Ar	ea		
Land Use (Check one		Resident	ial Con	nmercial x l	Industrial	Agricult		Parks		Op	en
	(Secondary) greater than 10%)	Resident	ial Con	nmercial x l	Industrial	Agricult	ural	Parks	Open		None
Conveyand (Check one		Manhole	x Catch	Basin O	iitlet -	Concrete annel	Na Cree	atural k	Earthen Channel		Curb/Gutte
ATMOSP	HERIC CONDIT	TIONS				-					
					·····						
Weather Tide	x Sunny N/A	Partly Clou x Low	·····X······	rcast Fog		0-4	-	Tia. II.		c.	
Last Rain	x > 72 hours	< 72 hours	ПСС	oming Hig	Л	Outgoing		ı ide He	ight:	_ft.	
Rainfall	x None	< 0.1"	٠, ٨	1 ??							
	CHARACTERIS		> 0.	1							
Odor	None		D.	tton Econ	Ch amai	1	G -		0	41	
Color	None	Musty Yellow		tten Eggs own	Chemi	·····	Sewa	<del></del>		ther	<u>Dry</u>
Clarity	Clear	Tellow	·····	ghtly Cloudy	White	······································	Gray			ther	<u>Dry</u>
Floatables	·····	Trash		bbles/Foam	Opaqu Sheen		Facal	Matter		ther ther	<u>Dry</u>
Deposits	x None	Sediment/Grav		ne Particulates	Stains		·····				<u>Dry</u>
Vegetation		Limited	······	rmal	Excess	·····	Olly	Deposits	***************************************	ther	
Biology	x None			Fish Snail		•••••	sect/	Ins		ther	
		msects	- Ingac	Clair Shan	Barnac			Snail	ecv C	)ther	
Water Flo	ow Flowi	ng Ponde	d x Dry	Tidal							
Does the s	torm drain flow i	reach the Rece	iving Wate	r?	Yes	No	x N	/A			
	of Overland Flow		es x No	Irrigation		Other:	A 14				
Photo Tak	en x Yes	No P	hoto #				***************************************				***************************************
Field Screen	ning Samples Col	llected? Y	es x No				-			_	
Water Ten		NH <sub>3</sub> -N			NO3-N (mg	/L)		Orth	10-PO4 (mg/L)	,	
pH (pH units	)	TURB	(NTU)		COND (mS				AS (mg/L)		
Analytical	Lab Samples Co	ollected?	Yes	x No							
FLOW ES	TIMATION WO	PRKSHEETS		, <u></u>						_	
Flowing	g Creek or Box C	ulvert	Fillin	g a Bottle or l	Known Vol	ume			Flowing 1	Pine	
Width		ft	Volume			mL	Di	ameter			ft
Depth		ft	Time to Fil	1		sec		pth			ft
Velocity		ft/sec	Flow			gpm		locity			ft/sec
Flow		gpm					Flo				gpm
COMMEN	TS: <u>*alterna</u>	te site used du	e to constr	uction.							

2	X Field Screenin	g Confir	mation For		IC/ID Follow-Up For _	· ·
GENERAI	L SITE DESCRI	PTION	(Na	AD 83 decimal degrees to 5t	th place) x M	S4 Receiving Water
Site ID	CB03-2	9	Latitude	(e.g., 33.41174) 32.72864		(e.g. 700)
Location	Catch basin @ S	s. end of blast fence	Longitud	e (e.g., -117.35213) -117.17843	Hydrologic I  Hydrologic S  Hydrologic S	(e.g., 7.10) 908.2
Date	7/14/2010		TB Page	1288 J1	Hydrologic S (Optional)	<b>ubarea</b> (e.g., 7.11) 908.21
Time	0806		Observer	KG, RR	<b>Discharge Area</b> (Optional)	
Land Use ( (Check one		Residential	Commercial	x Industrial Agric	cultural Parks	Open
(Optional, g	( <b>Secondary)</b> greater than 10%)	Residential	Commercial	x Industrial Agric	cultural Parks	Open None
(Check one		Manhole	x Catch Basin	Outlet Concrete Channel	Natural Ea Creek Cha	nrthen Curb/Gutte
ATMOSPI	HERIC CONDI	TIONS				
Weather	x Sunny	Partly Cloudy	Overcast F	og		
Tide	N/A	x Low		High Outgo	ing Tide Height:	ft.
Last Rain	x > 72 hours	< 72 hours				***
Rainfall	x None	< 0.1"	> 0.1"	F (30)		
	CHARACTERI					
Odor	x None	Musty	Rotten Eggs	Chemical	Carrage	Oahan
Color	x None	Yellow	Brown	White	Sewage	Other
Clarity	x Clear	Tellow	Slightly Cloudy		Gray	Other
Floatables		Trash	Bubbles/Foam		T 1 N	Other
Deposits	x None				Fecal Matter	Other
Vegetation		Sediment/Gravel	Fine Particulat		Oily Deposits	Other
Biology	x None	Limited	Normal	Excessive		Other
ыоюду	X None	Insects Alga	ne Fish Sr	nails Mussels/ Barnacles A	Insect/ Insect/ Algae Snail	Other
Water Flo	w Flow	ing Ponded	Dry x Tida	ı		
		reach the Receivin		**************************************	No x N/A	
Evidence o	of Overland Flow	v? Yes	x No Irrigati	ion Runoff Other:		
Photo Tak	en Yes	x No Photo	#			
	ning Samples Co		x No			
Water Tem		NH3-N (mg		NO3-N (mg/L)	Ortho-PC	4 (mg/L)
pH (pH units)	)	TURB (NT	U)	COND (mS/cm) 2	23.3 MBAS (m	g/L)
Analytical	Lab Samples Co	ollected? Y	es x No			
FLOW ES	TIMATION WO	ORKSHEETS				
T.7.	Creek or Box C			r Known Volume	Flo	wing Pipe
	I	ft Vol	ume	mL	Diameter	ft
Width						
Width Depth		ft Tim	ne to Fill	sec	Depth	ft
Width	7.			sec gpm	Depth Velocity Flow	ft ft/sec

-	x Field Screening	Confirmation		IC/ID Follow-Up For					
GENERAL	L SITE DESCRIP	TION	(NAD 8	83 decimal degrees to	5th place)	x N	MS4 Rec	eiving Water	
Site ID	CB05-3		Latitude	(e.g., 33.41174) 32.73782	Wa	Hydrologic		(e.g., 7.00) 908	
Location	Rental car parking	g lot	Longitude	(e.g., -117.35213) -117.18311	Watersh	Hydrologic	Area	(e.g., 7.10) 908.2	
Date	7/14/2010		TB Page	1268 H7	hed	Hydrologic (Optional)	Subarea	(e.g., 7.11) 908.21	
Time	0812		Observer	KG, RR		charge Area tional)			
Land Use (Check one		Residential Cor	nmercial x I	ndustrial Agr	ricultural	Parks	Op	en	
	(Secondary) greater than 10%)	Residential Cor	nmercial x I	ndustrial Agr	ricultural	Parks	Open	None	
Conveyan (Check one		Manhole x Catch	Basin Ou	utlet Concret			Earthen annel	Curb/Gutter	
ATMOSP	HERIC CONDITI	IONS							
Weather	x Sunny	Partly Cloudy Ove	ercast Fog						
Tide		······································	oming Hig	·······	going	Tide Height	::ft.		
Last Rain	x > 72 hours	< 72 hours							
Rainfall	x None	< 0.1" > 0	.1"						
	CHARACTERIS								
Odor			otten Eggs	Chemical	Sex	wage	Other		
Color			own	White	Gra		Other		
Clarity	x Clear		ightly Cloudy	Opaque			Other		
Floatables			ibbles/Foam	Sheen	Fex	cal Matter	Other	<del></del>	
Deposits	,		ne Particulates	Stains		ly Deposits	Other		
Vegetatio			ormal	Excessive		y Doposits	Other		
Biology			Fish Snail	***************************************	Insect/ Algae	Insect/ Snail	<del></del>		
Water Fl	ow Flowin	ng x Ponded Dr	y Tidal		X		<del></del>		
		each the Receiving Wate	<del></del>	Yes	x No	N/A			
	of Overland Flow?			Runoff x Othe	r: watering	truck used for	r dust suppre	ession	
Photo Ta	ken Yes	x No Photo #		ndráitíonna hairmanna na bhithic		7)	~		
Field Scree	ening Samples Coll	lected? x Yes No							
Water Ter		NH3-N (mg/L) 0.		NO3-N (mg/L)	0.5	Ortho-P	O4 (mg/L)	0.2	
pH (pH unit	s) 7.73	TURB (NTU) 4.	99	COND (mS/cm)	1.85	MBAS	(mg/L)	0.5	
Analytica	l Lab Samples Col	llected? Yes	x No						
FLOW E	STIMATION WO	RKSHEETS					=		
	g Creek or Box Cu		ng a Bottle or l	Known Volume			lowing Pipe	Y	
Width		ft Volume	827	mL		Diameter	ļ	ft	
Depth		ft Time to Fi	11	sec		Depth		ft	
Velocity		ft/sec Flow		gpm	<del></del>	Velocity	<del> </del>	ft/sec	
Flow		gpm	L			Flow	<u> </u>	gpm	
COMMEN	NTS: Water in	catch from dust suppre	ession water tr	uck.			<del></del>		

	x Field Screeni	ng Confirmatio	n For		IC/ID F	ollow-Up Fo	or	E .
GENERAL	L SITE DESCR	IPTION	(NAD	83 decimal degrees to 5	th place)	:	x MS4 Re	eceiving Water
Site ID	CB05-4		Latitude	(e.g., 33.41174) 32.73063	Wa	Hydrolog		(e.g., 7.00) 908
Location	Catch basin ne	ar generator yard	Longitude	(e.g., -117.35213) -117.18301	Watershed	Hydrolog	ic Area	(e.g., 7.10) 908.2
Date	7/14/2010		TB Page	1288 G1		(Optional)		(e.g., 7.11) 908.21
Time	0800		Observer	KG, RR		charge Area otional)	a	
Land Use (Check one		Residential C	ommercial x	Industrial Agri	cultural	Parks	(	Open
	( <b>Secondary</b> ) greater than 10%	6) Residential C	ommercial x	Industrial Agri	cultural	Parks	Open	None
Conveyand (Check one		Manhole x Cat	ch Basin O	utlet Concrete Channel		Natural reek (	Earthen Channel	Curb/Gutter
ATMOSP	HERIC COND	ITIONS						
Weather	x Sunny	Partly Cloudy O	vercast Fog	······································				
Tide	N/A	······································	coming Hig		ing	Tide Heig	<b>.ht:</b> ft.	
Last Rain	x > 72 hours	<del></del>						
Rainfall	x None	< 0.1" >	0.1"					
***************************************	CHARACTER							
Odor	x None	Musty	Rotten Eggs	Chemical	Se	wage	Othe	>r
Color	x None		Brown	White		ay	Othe	
Clarity	x Clear		Slightly Cloudy	Opaque		.u.y	Othe	***************************************
Floatables			Bubbles/Foam	Sheen	Fe	cal Matter	Othe	
Deposits	None		Fine Particulates	Stains		ly Deposits	Othe	······································
Vegetation			Normal	Excessive	<u> </u>	ily Doposits	Othe	
Biology	x None	Insects Algae	Fish Snai	ls Mussels/	Insect/ Algae	Insec Snail		
Water Flo	ow Flor	wing Ponded I	Ory x Tidal		<u>.</u>		·····	
***************************************		v reach the Receiving Wa		Yes	No x	. N/A		
	of Overland Flo							
Photo Tal	***************************************	x No Photo #						
Field Scree	ning Samples C	collected? x Yes 1	lo (Conductivit	v only)				
Water Ten		NH3-N (mg/L)		NO3-N (mg/L)		Ortho	PO4 (mg/L)	
pH (pH units		TURB (NTU)			44		S (mg/L)	
Analytical	l Lab Samples (	Collected? Yes	x No			8		
FLOW ES	TIMATION W	ORKSHEETS						<del></del>
	g Creek or Box	Culvert Fil	ling a Bottle or	Known Volume			Flowing Pip	e
Width		ft Volume		mL		Diameter		Ft
Depth		ft Time to	Fill	Sec		Depth		Ft
Velocity		ft/sec Flow		Gpm		Velocity		ft/sec
Flow		gpm			L	Flow	<u> </u>	Gpm
COMMEN	TS: Water at b	ottom of catch basin is se	awater.					

	x Field Screening Confirmation For IC/ID Follow-Up For										
GENERAL	L SITE DESCRI	PTION		(NAD	83 decimal deg	grees to 5th pl	ace)		x MS4	Rec	eiving Water
Site ID	CB06-5			Latitude	(e.g., 33.41174 32.73584		Wa	Hydrolo	gic Unit		(e.g., 7.00) 908
Location	CB near Air traf	fic control tower		Longitude	(e.g., -117.352 -117.18637		Watershed	Hydrolo	gic Area		(e.g., 7.10) 908.2
Date	7/14/2010			TB Page	1268 G7		ned	Hydrolo (Optiona	gic Subare l)	a	(e.g., 7.11) 908.21
Time	0725			Observer	KG, RR			charge Ar	ea		
Land Use (Check one		Residential	Com	nmercial x I	ndustrial	Agricult		Parks		Op	en
	( <b>Secondary</b> ) greater than 10%)	Residential	Com	nmercial x I	ndustrial	Agricult	ural	Parks	Open		None
(Check one		Manhole	x Catch	Basin Oı	mer .	oncrete nnel		Natural eek	Earthen Channel		Curb/Gutte
ATMOSP	HERIC CONDIT	TIONS					_				
Weather	x Sunny	Partly Cloudy	Ove	rcast Fog							
Tide	N/A	x Low	***************************************	ming High	n	Outgoing		Tide He	iaht:	ft.	
Last Rain	x > 72 hours	< 72 hours		ming mg	11	Outgoing		Tiue IIe	igiit.	_11.	
Rainfall	x None	< 0.1"	> 0.	1 ??							
***************************************	CHARACTERIS			<u> </u>							
Odor	None		Day	E	<b>C1</b>	1	•		_		_
Color		Musty Yellow		tten Eggs	Chemi	cai		wage		ther	Dry
Clarity	None Clear	Tellow		own	White	***************************************	Gra	ay		ther	<u>Dry</u>
Floatables	······	T1.		ghtly Cloudy	Opaqu	e				ther	<u>Dry</u>
		Trash		bbles/Foam	Sheen			al Matter		ther	<u>Dry</u>
Deposits Vegetation	x None	Sediment/Gravel		e Particulates	Stains		Oil	y Deposits	***************************************	ther	
Vegetation		Limited		rmal	Excess					ther	
Biology	None	Insects Alg	gae I	Fish Snail	s Musse Barnacl		sect/ ae	Inse Snail	ect/ O	ther	
Water Flo	w Flowi	ng Ponded	x Dry	Tidal							
Does the s	torm drain flow	reach the Receivi	ng Water	r?	Yes	No	x :	N/A			
Evidence of	of Overland Flow	Yes Yes	x No	Irrigation	Runoff	Other:					D.
Photo Tak	en Yes	x No Phot	o#								
	ning Samples Co	llected? Yes	x No								<u> </u>
Water Tem		NH3-N (n	<del></del>		NO3-N (mg/	L)		Orth	0-PO4 (mg/L)		
pH (pH units	)	TURB (N	TU)	П	COND (mS/	(cm)			AS (mg/L)		
Analytical	Lab Samples Co	ollected?	Yes	No No							
	TIMATION WO										
	Creek or Box C			g a Bottle or I	Known Volu	ıme	, <u>-</u>		Flowing 1	Pipe	
Width			lume			mL	• -	Diameter		]	ft
Depth			me to Fill			Sec	-	Depth			ft
Velocity	-		ow		<u>_</u>	Gpm	-	Velocity			ft/sec
Flow		gpm		<u></u>			J LE	<u> Flow</u>			gpm
COMMEN	ΓS: <u>Dry</u>						-				

	x Field Screeni	ng Confi	rmation I	For		IC/ID	Follow-Up For		
GENERAI	L SITE DESCR	IPTION		(NAD	83 decimal degree	s to 5th place)	x M	IS4 Rec	eiving Water
Site ID	CB07-6			Latitude	(e.g., 33.41174) 32.73085		11 40		(e.g., 7.00) 908
Location	Oil water separ	rator At ASIG/Ame	rican	<b>Longitude</b> (e.g., -117.		5	Hydrologic A	rea	(e.g., 7.10) 908.2
Date	7/14/2010			TB Page	1288 F1		Hydrologic S (Optional)	ubarea	(e.g., 7.11) 908.21
Time	0628			Observer	KG, RR		Pischarge Area Optional)		-
Land Use ( (Check one		Residential	Com	mercial x I	ndustrial	Agricultura		Oį	pen
(Optional,	( <b>Secondary</b> ) greater than 10%	Residential	Com	mercial x I	ndustrial .	Agricultura	l Parks	Open	None
Conveyance (Check one		x Manhole	Catch	Basin Ou	ıtlet Con Chann	crete el	Natural Ea Creek Cha	arthen nnel	Curb/Gutt
ATMOSP	HERIC COND	ITIONS							
Weather	x Sunny	Partly Cloudy	Over	cast Fog	***************************************				
Tide	N/A	x Low	***************************************	ming Higl	***************************************	Outgoing	Tide Height:	ft.	
Last Rain	x > 72 hours	< 72 hours							
Rainfall	x None	< 0.1"	> 0.1	77					
RUNOFF	CHARACTER								
Odor	None	Musty	Rot	otten Eggs Chemical			Saura ca	v Other	D
Color	None	Yellow	Bro	·····	White		Sewage	x Other x Other	<u>Dry</u>
Clarity	Clear			thtly Cloudy	Opaque		Gray		<u>Dry</u>
Floatables	***************************************	Trash	<del>-</del>	bles/Foam	Sheen	1	Fecal Matter	x Other	<u>Dry</u>
Deposits	None	x Sediment/Gravel		Particulates	Stains		······································	Other	
Vegetation	······································	Limited	····	mal	Excessive		Dily Deposits	Other	
Biology	x None	Insects Alg	·····	ish Snails			t/ Insect/ Snail	Other Other	
Water Flo	ow Flow	ving Ponded	x Dry	Tidal	Darmetes	Aigae	Shan	***************************************	
Does the st	torm drain flow	reach the Receivi	ng Water	?	Yes	No	x N/A		
Evidence o	of Overland Flo	w? Yes	x No	Irrigation	Runoff O	ther:			
Photo Tak	en Yes	x No Phot	o#						
	ning Samples C		x No						
Water Tem		NH3-N (m			NO3-N (mg/L)		Ortho-PO		
pH (pH units)	)	TURB (N	πυ)   -		COND (mS/cm)	)	MBAS (m	g/L)	
	Lab Samples C		Yes x	No					
DI OUI DO	TIMATION W	ORKSHEETS	· <del></del>		-				<del></del>
LLUW ES	Crook or Por			a Bottle or K	Known Volum	ie	Flo	wing Pipe	
Flowing	Creek or box		lume		mL		Diameter		Ft
Flowing Width	g Creek or box								
Flowing Width Depth	Creek or box		me to Fill		sec	-	Depth		Ft
Flowing Width	Creek or box		me to Fill						

	x Field Screenii	ng C	onfirmation	For IC/ID Follow-Up For									
GENERAL	L SITE DESCR	IPTION		(NAD	83 decimal degrees	to 5th place)	X	MS4 Rec	eiving Water				
Site ID	СВ07-7			Latitude	(e.g., 33.41174) 32.73000		Hydrologi		(e.g., 7.00) 908				
Location	West wing parl	cing lot		Longitude	(e.g., -117.35213) -117.19390	Watershed	Hydrologi	c Area	(e.g., 7.10) 908.2				
Date	7/14/2010			TB Page	1288 F1	med.	Hydrologi (Optional)	c Subarea	(e.g., 7.11) 908.21				
Time	0600			Observer	KG		Discharge Area (Optional)						
Land Use (Check one	• • •	Reside	ntial Co	mmercial x I	ndustrial A	gricultural	Parks	Oŗ	pen				
(Optional,	( <b>Secondary</b> ) greater than 10%	Reside	ntial Con	mmercial x I	ndustrial A	gricultural	Parks	Open	None				
(Check one		Manho	le x Catch	Basin O	utlet Conci Channe		Natural reek C	Earthen hannel	Curb/Gutt				
ATMOSP	HERIC CONDI	TIONS											
Weather	x Sunny	Partly Cl	oudy Ove	ercast Fog									
Tide	N/A	x Low	Inc	oming Hig	***************************************	tgoing	Tide Heigh	nt: ft.					
Last Rain	x > 72 hours	< 72 hour	:s				<u></u>						
Rainfall	xNone	< 0.1"	> 0	.1"									
RUNOFF	CHARACTER	ISTICS											
Odor	None	Musty	Ro	otten Eggs	Chemical	Se	wage	x Other	<u>Dry</u>				
Color	None	Yellow	·····	own				x Other	Dry				
Clarity	Clear		SI	ightly Cloudy	Opaque	Gr	<del>-</del> ,	x Other	Dry				
Floatables	None	Trash	***************************************	ıbbles/Foam	Sheen	Fe	cal Matter	x Other	Dry Dry				
Deposits	None	Sediment/Gra		ne Particulates	Stains	······	ly Deposits	Other	DIY				
Vegetation	x None	Limited		ormal	Excessive		y Deposits	Other					
Biology	x None	Insects			Fish Snails Mussels/ In Barnacles Alga			/ Other					
Water Flo	w Flow	ing Pon	led x Dry	' Tidal									
Does the st	orm drain flow	reach the Re	ceiving Wate	er?	Yes	No x	N/A						
Evidence o	of Overland Flo	w?	Yes x No	Irrigation	Runoff Oth	ner:							
Photo Tak	en Yes	x No	Photo #										
	ning Samples Co		Yes x No										
Water Tem			N (mg/L)		NO3-N (mg/L)		Ortho-1	PO <sub>4</sub> (mg/L)	15				
pH (pH units)		TUR	B (NTU)		COND (mS/cm)		MBAS	(mg/L)					
·-··	Lab Samples C			x No									
	TIMATION W			<b>Th</b> (19 =	y								
Width	Creek or Box (			g a Bottle or F	Known Volume	<del></del>		lowing Pipe					
Depth		ft	Volume Time to Fil	1	mL		Diameter	<b>_</b>	Ft				
		ft/sec	Flow	1	sec		Depth		ft/sec				
Velocity		1.5500	1 10 W		gpm			Velocity					
Velocity Flow	527	gpm				1	Flow		Gpm				

x Field Screening Confirmation For x IC/ID Follow-Up For 6/15/2010												0						
GENERAL	GENERAL SITE DESCRIPTION								(NAD 83 decimal degrees to 5th place					x N	Rec	Receiving Water		
Site ID	CB08-8				¥		Latitude	е	(e.g., 33.41174) 32.73368			Wa	Hydr	ologic 1	Unit		(e.g., 7.00) 908	
Location	Southwe	est Slit T	rench				Longitude		(e.g., -117.35213) -117.19673			Watershed	Hydr	ologic .	Area		(e.g., 7.10) 908.2	
Date	7/14/20	10				=	TB Page	e	1288 F1		=	ned	Hydr (Option	ologic S onal)	Subare	а	(e.g., 7.11) 908.21	
Time	0830											charge otional)	Area					
Land Use (Check one		·)	R	esiden	tial	Com	nercial	x I	ndustrial	Αg	gricultu			Parks O <sub>1</sub>			pen	
Land Use (Optional,	greater th		R	tesiden	tial	Com	nercial	хI	ndustrial	Αį	gricultu	ıral	Par	ks	Open		None	
(Check one			N	<b>I</b> anhol	e x C	atch B	asin	Oı	iflet	Concre annel	ete		Natural reek		arthen innel		Curb/Gutte	
ATMOSP	HERIC (	CONDIT	IONS						·									
Weather	x Sun	nv	Par	tly Clo	udv	Overc	ast	Fog										
Tide	N/A	<del></del>	x Lov	<del></del>	uuy	Incon	·	Hig	h	Out	going		Tide l	Height:	•	_ft.		
Last Rain	***************************************	2 hours		2 hours	S						Some	***************************************		i i cignit	•	_11.		
Rainfall	x Nor		< 0		<i>-</i>	> 0.1	••											
RUNOFF	···			. 1		<del>- 0.1</del>	***************************************											
Odor		ne	Musty	,		Dott	on Face		x Chem	ical		v Sa				<b>\41</b>		
Color			X			Rou Brov	en Eggs						wage			ther	111	
Clarity								1	White		***************************************	Gr	ay			)ther		
Floatables						ntly Clou	<u>-</u>	x Opaqı				135			ther			
Deposits		one x					bbles/Foam x Sheen				Fecal Matter Other							
Vegetation		***************************************	····	ent/Gra	vei	·····								Other				
Biology	x No		Limit		A 1	Non										ther		
	······································	one	Insect	:S 	Algae	F	sh S	Snail	s Mus Barnac	sels/ cles	In: Alga	sect/	Sn	Insect/ ail	C	)ther		
Water Flo	)W	Flowi	ng >	Pond	ed	Dry	Tie	dal	***************************************		····							
Does the s	torm dra	in flow 1	each t	he Rec	eiving V	Vater'	?		Yes		x No	***************************************	N/A					
Evidence e	of Overla	nd Flow	?	х У	/es	No	Irriga	tion	Runoff	Oth	er:							
Photo Tak	en	Yes	x No	I	Photo #_													
Field Scree			lected'		Yes	No												
Water Ten		24.3			N (mg/L)	10+			NO <sub>3</sub> -N (m		0.25			rtho-Po		)	inconclusive	
pH (pH units	)	6.41		TUR	B (NTU)	191			COND (m	S/cm)	2.32	5	N	IBAS (1	mg/L)		2.5	
Analytical	Lab Sar	nples Co	llected	?	x Yes		No											
FLOW ES	TIMAT!	ON WO	RKSH	EETS	}										., .			
Flowing	g Creek o	r Box C	ulvert		F	illing	a Bottle	or l	Known Vo	lume				Fl	owing :	Pipe		
Width			ft		Volum	<u>e</u>				mL			Diamete				ft	
Depth			ft		Time to	o Fill	Ā			sec		_	Depth				ft	
Velocity			ft/sec		Flow					gpm			Velocity	у			ft/sec	
Flow			gpm		L								Flow				gpm	
COMMEN (yellow/bro	TS:	Field tes	t kit re	sults f	or Amm	onia :	and phos	pho	rus were	not co	nclusiv	ve dı	ie to col	or of sa	ample v	wate	<u> </u>	

	Field Screeni	ng	Confirmation	For		x IC/	ID Foll	ow-Up F	or <u>Jul</u>	ly 14,2010
GENERAL	L SITE DESCR	IPTION		(NAD	83 decimal deg	rees to 5th pla	ace)		x MS4	Receiving Water
Site ID	CB08-8			Latitude	(e.g., 33.41174 32.73368		Hydrolo		(e.g., 7.00) 908	
Location	Southwest Slit	Trench		Longitude	(e.g., -117.352 -117.19673		Watershed	Hydrolo	gic Area	(e.g., 7.10) 908.2
Date	8/12/2010			TB Page	1288 FI		_	Hydrolo (Optional	(e.g., 7.11) 908.21	
Time	1135			Observer	KG		Disch (Option	arge Are		
Check one		Resid	dential Co	mmercial x l	ndustrial	Agricultu		Parks	<del>-</del>	Open
(Optional,	( <b>Secondary</b> ) greater than 10%	Resid	dential Co	mmercial x I	ndustrial	Agricultu	ıral	Parks	Open	None
(Check one		Manl	hole x Catcl	n Basin O	utlet Char	ncrete nnel	Na Cree	atural k	Earthen Channel	Curb/Gutte
ATMOSP	HERIC CONDI	TIONS	<del></del>							
Weather	x Sunny	Partly (	Toudy Ov	ercast Fog						
Tide	N/A	x Low		oming Hig		Outgoing	,	Tide Hei	aht.	£.
Last Rain	x > 72 hours	< 72 hc		oming mg	11	Outgoing		i ide fiel	gut:	ft.
Rainfall	x None	< 0.1"		0.1"						
***************************************	CHARACTER			· · · ·						
Odor	None	x Musty	D	otten Eggs	Cham:	-1			_	_
Color	None	x Yellow		otten Eggs own	Chemic	al	Sewa			ther
Clarity	Clear	A I CHOW			White		Gray			ther
Floatables	None	x Trash	ightly Cloudy	Opaque					ther	
Deposits	None			ubbles/Foam ne Particulates	x Sheen			Matter		ther
Vegetation		Sediment/G Limited					x Oily	Deposits	ther	
Biology	None	x Insects	***************************************	ormal					ther	
Diology	None	A HISCUS	Algae	Fish Snail	s Musse Barnacle		sect/ e	Inse Snail	ct/ O	ther
Water Flo	w Flow	ing x Po	nded Dr	y Tidal						
Does the st	orm drain flow	reach the F	Receiving Wat	er?	Yes	No	x N/	/A		
Evidence o	f Overland Flo	w? :	x Yes No	Irrigation	Runoff	Other:				
Photo Tak	en Yes	x No	Photo #							
	ing Samples Co		Yes x No							
Water Tem			13-N (mg/L)		NO3-N (mg/L				)-PO4 (mg/L)	
pH (pH units)		<b>-</b>	JRB (NTU)		COND (mS/c	m)		MBA	S (mg/L)	
	Lab Samples C		x Yes	No						
	FIMATION W									_
	Creek or Box (			ig a Bottle or k	Known Volu	me			Flowing P	ipe
Width		ft	Volume		n	nL	Dia	ameter		ft
Depth		ft	Time to Fi	1	Se	ec	De			ft
Velocity Flow	<del></del>	ft/sec	Flow		g	pm		locity		ft/sec
1.10W		gpm					Flo	w		gpm
COMMENT	TS:									

x Field Screening Confirmation For IC/ID Follow-Up For												
GENERAL	L SITE DESCRI	PTION		(NAD	83 decimal de	grees to 5th pl	ace)		x <b>MS4</b>	Receivin	ceiving Water	
Site ID	CB12-9*			Latitude	(e.g., 33.411 32.73516	74)	Wa	Hydrolog		(e.g., 7		
Location	Terminal 2 area	trench drain		Longitude		32.73516 (e.g., -117.35213) -117.20444			Hydrologic Area			
Date	7/14/2010			TB Page	1268 E7		ned	Hydrolog (Optional	(e.g., 7 908.21	7.11) i		
Time	0742			Observer KG, RR				charge Are				
Land Use (Check one		Residential	Com	mercial x I	ndustrial	Agricult	ural	Parks		Open		
(Optional,	( <b>Secondary</b> ) greater than 10%)	Residential	Com	mercial x I	ndustrial	Agricult	ural	Parks	Open	No	ne	
Conveyan (Check one		Manhole	Catch 1	Basin Ou	ITIAT	Concrete annel		Natural eek	Earthen Channel	хC	urb/Gutter	
ATMOSP	HERIC CONDIT	TIONS				*			- 14			
Weather	x Sunny	Partly Cloudy	Overo	cast Fog							¥.	
Tide	N/A	x Low	Inco	ming Hig	h	Outgoing		Tide Hei	ght:i	ft.		
Last Rain	x > 72 hours	< 72 hours										
Rainfall	x None	< 0.1"	> 0.1	***								
RUNOFF	CHARACTERIS	STICS										
Odor	x None	Musty	Rot	ten Eggs	Chem	ical	Sev	vage	x Ot	her <b>D</b>	ry	
Color	None	Yellow	Bro	rown White			Gra			ry		
Clarity	Clear		Slig	htly Cloudy	Opaq	ue		<u></u>	x Ot		ry	
Floatables	None	Trash	Bub	ibbles/Foam Sheen			Fec	al Matter		ry		
Deposits	x None	Sediment/Gravel	Fine	ne Particulates Stains			Oil	y Deposits	her			
Vegetation	n x None	Limited	Nor	mal	Exces	sive		S	***************************************	her	***************************************	
Biology	x None	Insects Algae	F	ish Snail	s Mus Barnac		isect/ ae	Inse Snail	ect/ Ot	her		
Water Flo	ow Flowi	ng Ponded	x Dry	Tidal								
		reach the Receiving	<del></del>		Yes	No	<b>x</b> ]	N/A				
Evidence	of Overland Flow	? Yes	x No	Irrigation	Runoff	Other:						
Photo Tal	ken Yes	x No Photo #	<u> </u>									
	ning Samples Co		x No		NO 3-	· · · ·		· · · · · · · · · · · · · · · · · · ·		,		
Water Ten		NH3-N (mg/L TURB (NTU)			NO3-N (m)				0-PO <sub>4</sub> (mg/L)			
pH (pH units	•				COND (m	S/cm)	<del></del>	MBA	AS (mg/L)			
	Lab Samples Co STIMATION WO		es x	No			<del></del>					
	g Creek or Box C		Filling	g a Bottle or l	Known Vo	lume			Flowing P	ine		
Width		ft Volu				mL	<b> </b>	Diameter		ft		
Depth		ft Time	to Fill			sec	<b>-</b> -	Depth	S.	ft		
Velocity		ft/sec Flow				gpm	<b>-</b> -	Velocity		ft/sec		
Flow		gpm					I	Flow		gpm		
COMMEN	TS: Alternate sit	e used due to CB12	-9 bein	g under const	truction si	te SB12-13	(from	wet weatl	ner monitor	ing) used	d instead.	

Dariand Albeidena Alteidene Alteidene 2/12/2000

Site moist not flowing or samplable.\_

# San Diego Stormwater Copermittees Dry Weather Monitoring Field Datasheet

Site ID	LocationT2 Entrance RoadLocationDate7/14/2010TB	titude ngitude	(e.g., 33.41174) 32.72993 (e.g., -117.35213 -117.19748		<del>,                                    </del>		(e.g., 7.00)	
Carrier   Carr	Location         T2 Entrance Road         Location           Date         7/14/2010         TB	titude ngitude	(e.g., 33.41174) 32.72993 (e.g., -117.35213 -117.19748		<del>,                                    </del>		(e.g., 7.00)	
Time	Date 7/14/2010 TB		-117.19748	)		ologic Onit	908	
Time		Page	1000 71	´	Hydre	Hydrologic Area		
Time			1299 F1			(e.g., 7.11) 908.21		
Land Use (Primary)	Time 0615 Ob	server	KG, RR		Discharge .			
	Land Use (Primary) (Check one only)  Residential  Commerce	cial x I	ndustrial			cs	Open	
Check one only   Manhole   x Catch Basin   Outlet   Channel   Creek   Channel   Curb/Gu	(Optional, greater than 10%)	cial x I	ndustrial	Agricultur	al Parl	cs Open	None	
Weather         x Sunny         Partly Cloudy         Overcast         Fog         Outgoing         Tide Height:         ft.           Tide         N/A         x Low         Incoming         High         Outgoing         Tide Height:         ft.           Last Rain         x > 72 hours         x Other         Total         x None         < 0.1"		n Ou	ITIET				Curb/Gu	
Tide	ATMOSPHERIC CONDITIONS							
Tide	Weather x Sunny Partly Cloudy Overcast	Fog						
Last Rain   x > 72 hours   < 72 hours   < 0.1"   > 0.1"	Tide N/A x Low Incoming			Outgoing	Tide I	Height: f	t.	
RUNOFF CHARACTERISTICS  Odor None Musty Rotten Eggs Chemical Sewage x Other Dry  Cloarity Clear Slightly Cloudy Opaque x Other Dry  Floatables x None Trash Bubbles/Foam Sheen Fecal Matter x Other Dry  Deposits x None Sediment/Gravel Fine Particulates Stains Oily Deposits Other  Vegetation x None Limited Normal Excessive Other  Biology x None x Insects Algae Fish Snails Mussels/ Insect/ Insect/ Other  Biology x None x Insects Algae Fish Snails Mussels/ Barnacles Algae Snail  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  Water Temp (*C) NH3-N (mg/L) Ortho-PO4 (mg/L) Photo Taken Yes x No  Water Temp (*C) NH3-N (mg/L) COND (mS/cm) MBAS (mg/L)  Analytical Lab Samples Collected? Yes x No  FLOW ESTIMATION WORKSHEETS  Flowing Creek or Box Culvert Width n film to Fill sec Plow Insect Property Insect Property Insect Property Insect Property Insect Insect Property Insect Prop	<b>Last Rain</b> $x > 72$ hours $< 72$ hours						<del></del>	
None   None   Musty   Rotten Eggs   Chemical   Sewage   x Other   Dry		<del></del>						
Color None Yellow Brown White Gray x Other Dry Clarity Clear Slightly Cloudy Opaque x Other Dry Floatables x None Trash Bubbles/Foam Sheen Fecal Matter x Other Dry Deposits x None Sediment/Gravel Fine Particulates Stains Oily Deposits Other Vegetation x None Limited Normal Excessive Other Biology x None x Insects Algae Fish Snails Mussels/ Insect/ Insect/ Other Biology x None x Insects Algae Fish Snails Mussels/ Barnacles Algae Snail  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 No x Irrigation Runoff Other:  Photo Taken Yes x No Photo #  Sield Screening Samples Collected? Yes x No  Water Temp (*C) NH3-N (mg/L) NO3-N (mg/L) Ortho-PO4 (mg/L) Ph (pH units) TURB (NTU) COND (mS/cm) MBAS (mg/L)  Analytical Lab Samples Collected? Yes x No  Flowing Creek or Box Culvert Filling a Bottle or Known Volume Flowing Pipe  Width A R Depth Rich Flow gpm  Flow gpm  Flow gpm  Flow Gpm  Flow Gpm	RUNOFF CHARACTERISTICS							
Color	Odor None Musty Rotten F	Eggs	Chemical	l	Sewage	x Oth	er Dev	
Clear								
Floatables   X   None   Trash   Bubbles/Foam   Sheen   Fecal Matter   X   Other   Dry		Cloudy			<u> </u>			
Deposits   x   None   Sediment/Gravel   Fine Particulates   Stains   Oilty Deposits   Other					Fecal Matte			
Vegetation   x None   Limited   Normal   Excessive   Other							=-1	
Biology x None x Insects Algae Fish Snails Mussels/ Barnacles Algae Snail  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 No x Irrigation Runoff Other:  Photo Taken Yes x No Photo #		·····		<u> </u>	Ony Depos			
Does the storm drain flow reach the Receiving Water?  Yes No x Irrigation Runoff Other:  Photo Taken Yes x No Photo #  Sield Screening Samples Collected? Yes x No Water Temp (°C) NH3-N (mg/L) NO3-N (mg/L) Ortho-PO4 (mg/L) PH (pH units) TURB (NTU) COND (mS/cm) MBAS (mg/L)  Analytical Lab Samples Collected? Yes x No  FLOW ESTIMATION WORKSHEETS  Flowing Creek or Box Culvert Width ft Depth ft Obeyth ft Streening Samples Collected? Yes x No  Filling a Bottle or Known Volume Flowing Pipe  Width Screening Samples Collected? Yes x No  Flowing Creek or Box Culvert Filling a Bottle or Known Volume Screek or Box Culvert Filling a Bottle or Known Volume Screek or Box Culvert Filling a Bottle or Known Volume Screek or Box Culvert Screening Samples Collected? Yes x No  Flowing Creek or Box Culvert Filling a Bottle or Known Volume Screening Screek or Box Culvert Screening Screen			Mussels	/ Inse		nsect/ Oth		
Photo Taken   Yes   X No   Photo #	Water Flow Flowing Ponded x Dry	Tidal						
Photo Taken   Yes   x No   Photo #	Does the storm drain flow reach the Receiving Water?		Yes	No	x N/A			
Sield Screening Samples Collected?   Yes   x No	Evidence of Overland Flow? Yes No x l	Irrigation 1	Runoff O	ther:				
Water Temp (°C) NH3-N (mg/L) NO3-N (mg/L) Ortho-PO4 (mg/L) pH (pH units) TURB (NTU) COND (mS/cm) MBAS (mg/L)  Analytical Lab Samples Collected? Yes x No  FLOW ESTIMATION WORKSHEETS  Flowing Creek or Box Culvert Volume mL Depth ft Volume mL Time to Fill sec Flow gpm Diameter Ft Depth Ft Velocity ft/sec Flow Gpm	Photo Taken Yes x No Photo #							
PH (pH units)  TURB (NTU)  COND (mS/cm)  MBAS (mg/L)  Analytical Lab Samples Collected?  Yes x No  FLOW ESTIMATION WORKSHEETS  Flowing Creek or Box Culvert Width ft Volume mL Depth ft Time to Fill sec Plowing Pipe  Velocity ft/sec Flow gpm  Flow Gpm								
Analytical Lab Samples Collected?  Yes x No  FLOW ESTIMATION WORKSHEETS  Flowing Creek or Box Culvert Width ft Depth ft Volume mL Time to Fill sec Velocity ft/sec Flow gpm  Flow Gpm  White String A Bottle or Known Volume Flowing Pipe  Diameter Ft Depth Ft Velocity ft/sec Flow Gpm  Flow Gpm				<del></del> -				
FLOW ESTIMATION WORKSHEETS           Flowing Creek or Box Culvert         Filling a Bottle or Known Volume         Flowing Pipe           Width         ft         Volume         mL         Diameter         Ft           Depth         ft         Time to Fill         sec         Depth         Ft           Velocity         Flow         gpm         Velocity         ft/sec           Flow         Gpm         Flow         Gpm			COND (mS/cm)	)	M	BAS (mg/L)		
Width         ft         Volume         mL         Diameter         Ft           Depth         ft         Time to Fill         sec         Depth         Ft           Velocity         ft/sec         Flow         gpm         Velocity         ft/sec           Flow         Gpm         Flow         Gpm	FLOW ESTIMATION WORKSHEETS							
Width         ft         Volume         mL         Diameter         Ft           Depth         ft         Time to Fill         sec         Depth         Ft           Velocity         ft/sec         Flow         gpm         Velocity         ft/sec           Flow         Gpm         Flow         Gpm	Flowing Creek or Box Culvert Filling a R	ottle or V	nown Volum	ι <b>ο</b>		El		
Depth     ft     Time to Fill     sec     Depth     Ft       Velocity     ft/sec       Flow     gpm     Velocity     ft/sec       Flow     Gpm		Ottle Of IN			Diameter			
Velocity     ft/sec     Flow     gpm     Velocity     ft/sec       Flow     gpm     Flow     Gpm		< II	<del></del>			`	<del></del>	
Flow gpm Gpm								
	Flow gpm						<del></del>	
	COMMENTS: Dry							

SITE ID:CE	301-1 DATE:7/14/2010										
LOCATION:CA	LOCATION:CATCH BASIN NEAR LANDMARK TIME:0720										
OBSERVER:	OBSERVER:RR,KG										
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):_OPTIMAL										
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 10x60										
	Amount and Extent of Trash										
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH										
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.										
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.										
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.										
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.										
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).										

Site Evalue	ation for Potential Threat to Human Health and/or Aquatic Health
Site Evalue	(applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	Ę	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
Түре	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive										11), 1		
Biohazard Waste		41										
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing												
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste						-h 40 /				in Inna		

Comments.			 	
			7270	
		1-270.40		
		- HC4	 5	
	III		 3 2 3	
	1077		 -4-40-00000	
	, Gen		 	

SITE ID:CE	303-2 DATE:7/14/2010								
LOCATION:C	ATCH BASIN NEAR BLAST FENCE TIME:0806								
OBSERVER:	RR,KG								
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL								
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 50x50								
Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH								
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.								
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.								
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.								
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.								
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).								

#### Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment) Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any □ Potential Threat to one item (e.g. Greater than 50 items that present a puncture or laceration **Human Health** hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form. Large amount\* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as □ Potential Threat to vehicle batteries, or spray cans; any evidence large clumps of yard waste **Aquatic Health** from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. \*Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ŧ	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Honsehold	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste								1				
Business Related												
Cigarette Butts				65.								
Construction												
Fabric/Clothing			1									
Food Packaging												
Food Waste												
Household												
Shopping Carts												
Toxic												
Yard Waste	PRECEN									<u> </u>		

Comments:											
		-		··							
	Y										

SITE ID:CE	305-3 DATE:7/14/2010									
LOCATION:RE	NTAL CAR PARKING LOT TIME:0645									
OBSERVER:	RR,KG									
PREVIOUS TRASH ASSESSMENT RATING (IF APPLICABLE):SUBOPTIMAL										
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 50x50									
	Amount and Extent of Trash									
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH									
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.									
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.									
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.									
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.									
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).									

#### Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment) Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any □ Potential Threat to one item (e.g. Greater than 50 items that present a puncture or laceration **Human Health** hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form. Large amount\* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as □ Potential vehicle batteries, or spray cans; any evidence large clumps of yard waste Threat to **Aquatic Health** from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. \*Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	t l	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction			Ţ			!						
Fabric/Clothing											<u> </u>	
Food Packaging									-			<u> </u>
Food Waste												
Household									L			
Shopping Carts											<u> </u>	
Toxic									<u> </u>		<u> </u>	
Yard Waste	DDECEN										<u> </u>	<u> </u>

Comments:		 								
								- 1		
		 . =								
						1				_
	V. A	 								

SITE ID:CE	305-4 DATE:7/14/2010					
LOCATION:CA	ATCH BASIN NEAR GENERATORSTIME:0600					
OBSERVER:	RR,KG					
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL					
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 50x50					
	Amount and Extent of Trash					
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH					
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.					
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.					
☐ <b>Marginal</b> Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.						
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400) . Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.					
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).					

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
<ul><li>□ Potential Threat to Human Health</li></ul>	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

	ŧ		TENTIA HECK			C.	P	OTEN	TIAL S		E	
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste							2.					
Business Related												
Cigarette Butts							<u> </u>	Ä.				
Construction										<u> </u>	<u> </u>	
Fabric/Clothing									L	<u> </u>	<u> </u>	<u> </u>
Food Packaging								<u> </u>				
Food Waste											<u> </u>	
Household							<u> </u>		<u> </u>	ļ	1	<u> </u>
Shopping Carts								<u> </u>			<u> </u>	
Toxic								<u> </u>	ļ		igspace	
Yard Waste						<u> </u>	<u></u>	<u></u>	<u></u>	<u> </u>		<u> </u>

Comments:			 		
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				(4)	

SITE ID:C	306-5 DATE:7/14/2010						
LOCATION:C	CATCH BASIN NEAR LANDMARK TIME:0725						
OBSERVER:	RR,KG						
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL						
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 50x50						
	Amount and Extent of Trash						
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH						
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.						
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.						
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.						
□ Submarginal	rash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, pottles, food wrappers, blankets, or clothing present.						
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces)						

Site Evelu	elian for Detential Threat to 11 mg 11 to 11 and 12 and 12
JILE EVAIU	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ŧ		TENTIA HECK				P		TIAL S	OURC TO 2)	E	
ТүрЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related				7.								
Cigarette Butts												
Construction								<u> </u>				
Fabric/Clothing						I					<u> </u>	ļ
Food Packaging											<u> </u>	ļ
Food Waste					<u> </u>						<u> </u>	ļ
Household						<u> </u>				<u> </u>	<u> </u>	
Shopping Carts					<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<del> </del>
Toxic					<u> </u>	<u> </u>						
Yard Waste	DDECEN			<u> </u>		<u> </u>	<u> </u>			<u> </u>		

Comments <u>:                                    </u>	 	 	
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SITE ID:CE	307-06 DATE:7/14/2010					
LOCATION:A	A OIL/WATER SEP TIME:0628					
OBSERVER:	RR,KG					
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL					
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 20x20					
	Amount and Extent of Trash					
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH					
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.					
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.					
□ <b>Marginal</b> Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.						
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.					
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces)					

#### Site Evaluation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment) Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any □ Potential Threat to one item (e.g. Greater than 50 items that present a puncture or laceration **Human Health** hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form. Large amount\* of persistent, buoyant litter such as: hard or soft plastics. balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as □ Potential Threat to vehicle batteries, or spray cans; any evidence large clumps of yard waste **Aquatic Health** from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. \*Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	nt	-	TENTIA HECK				P		TIAL S		E	
ТУРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive											1 111	
Biohazard Waste												
Business Related												
Cigarette Butts												
Construction												
Fabric/Clothing											L	
Food Packaging												
Food Waste										<u> </u>		
Household							1					]
Shopping Carts							7					
Toxic												
Yard Waste * Only rank the types of trash I												

Comments:	 		 	_

SITE ID:CB07-7	DATE:7/14/10
LOCATION: WEST WING PARKING LOT	TIME:0600
OBSERVER: KRIS GREEN	
PREVIOUS TRASH ASSESSMENT RATING (II	F APPLICABLE): OPTIMAL_
ESTIMATED AREA OF ASSESSMENT L X W	(FT):20x20

	Amount and Extent of Trash								
EVALUATION OF TR	EVALUATION OF TRASH INCLUDES*: X MS4 RECEIVING WATER BOTH								
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.								
☐ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.								
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.								
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.								
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).								

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

	ŧ		POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
ТҮРЕ	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine	
Automotive									12-25300			13	
Biohazard Waste													
Business Related										<u> </u>			
Cigarette Butts													
Construction													
Fabric/Clothing													
Food Packaging													
Food Waste													
Household									<u> </u>	<u> </u>	ļ		
Shopping Carts	.5							L		<u> </u>			
Toxic										ļ	<u> </u>	<u> </u>	
Yard Waste	DDEOEN								<u> </u>	<u> </u>			

Comments:	 	 	

SITE ID:CE	308-8 DATE:7/14/2010
LOCATION:SV	V SLIT TRENCH TIME:0830
OBSERVER:	RR,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):SUBOPTIMAL
ESTIMATED AREA	OF ASSESSMENT L X W (FT): 20X20
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
X Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

1	Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health
		(applies to area of assessment)
	□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
	□ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

	ŧ	POTENTIAL ROUTE (CHECK UP TO 2)					POTENTIAL SOURCE (CHECK UP TO 2)					
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste				=1								
Business Related											2.1	
Cigarette Butts												
Construction												
Fabric/Clothing												1
Food Packaging				- 13								
Food Waste										<u> </u>		
Household												
Shopping Carts											<u> </u>	
Toxic											<u> </u>	
Yard Waste												<u> </u>

Comments:	 			 
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SITE ID:CE	312-9 DATE:7/14/2010
LOCATION:SL	IT TRENCH AT T-2 AREA TIME:0742
OBSERVER:	RR,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 250x20
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
X Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

Site Evalua	ation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
☐ Potential Threat to Aquatic Health	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

	ŧ	POTENTIAL ROUTE (CHECK UP TO 2)				POTENTIAL SOURCE (CHECK UP TO 2)						
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive												
Biohazard Waste												
Business Related	26											
Cigarette Butts												
Construction								=				<u> </u>
Fabric/Clothing												
Food Packaging								io				
Food Waste									<u>.</u> .		<u></u>	
Household												
Shopping Carts												
Toxic												
Yard Waste	DDECEN							<u> </u>				1

Comments:		 		 	 
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SITE ID:CE	309-10 DATE:7/14/2010
LOCATION:T2	ENTRANCE ROAD TIME:0615
OBSERVER:	RR,KG
PREVIOUS TRASH	ASSESSMENT RATING (IF APPLICABLE):OPTIMAL
ESTIMATED AREA	OF ASSESSMENT L x W (FT): 20x20
	Amount and Extent of Trash
EVALUATION OF TR	ASH INCLUDES*: X MS4 RECEIVING WATER BOTH
x Optimal	On first glance, no trash visible. Little or no trash (<10 pieces) evident when evaluated area is closely examined for litter and debris.
□ Suboptimal	On first glance, little or no trash visible. After close inspection small levels of trash (~10-50 pieces) evident in evaluated area.
□ Marginal	Trash is evident in low to medium levels (~51-100 pieces) on first glance. Evaluated area contains litter and debris. Evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, or clothing present.
□ Submarginal	Trash distracts the eye on first glance. Evaluated area contains substantial levels of litter and debris (>100- 400). Evidence of site being used frequently by people: many cans, bottles, food wrappers, blankets, or clothing present.
□ Poor	Site is significantly impacted by trash. Evidence of trash accumulation behind a constriction point or evidence of excessive dumping. Evaluated area contains substantial levels of litter and debris (>400 pieces).

Cita Evalu	and and four Product of the Control
Site Evalu	uation for Potential Threat to Human Health and/or Aquatic Health (applies to area of assessment)
□ Potential Threat to Human Health	Presence of more than one of, or a combination of the following items: hypodermic needles or other medical waste; used diapers, animal waste, or human feces; any toxic substance such as chemical containers, vehicle batteries, or fluorescent light bulbs. Alternatively high prevalence of any one item (e.g. Greater than 50 items that present a puncture or laceration hazard); or observations of mosquito larvae directly observed in water ponded due to trash. All subject to best professional judgment. Describe potential threat on back of form.
<ul><li>□ Potential</li><li>Threat to</li><li>Aquatic Health</li></ul>	Large amount* of persistent, buoyant litter such as: hard or soft plastics, balloons, Styrofoam (equivalent to a cup), or large amount of settleable, degradable and nontoxic debris; cigarette butts. Presence of more than one of, or a combination of the following items: toxic items such as vehicle batteries, or spray cans; any evidence large clumps of yard waste from landscape maintenance such as yard waste or dumped leaf litter (not naturally occurring). All subject to best professional judgment. Describe potential threat on back of form. *Large amount is defined as 50 pieces or more.

<sup>\*</sup> In areas where receiving water is accessible and adjacent to dry weather site, trash evaluation must include receiving water.

	ŧ	POTENTIAL ROUTE POTENTIAL SOURCE (CHECK UP TO 2)										
TYPE	Ranking or Count by Type *	Dumping	Littering	Upstream	Unable to determine	Household	Construction	Commercial	Industrial	School	Transient	Unable to determine
Automotive		***************************************										
Biohazard Waste									<u> </u>			
Business Related												
Cigarette Butts								97 ==				
Construction					ď							
Fabric/Clothing										ļ		ħ
Food Packaging							<u> </u>				<u> </u>	
Food Waste					<u> </u>							
Household								<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Shopping Carts								<u> </u>	<u> </u>			<u> </u>
Toxic				=	la .							
Yard Waste			<u> </u>		- 4 45	<u>L</u>				<u></u>	<u> </u>	<u> </u>

Comments:		
		(8)



26 July 2010

Amanda Archenhold MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego, CA 92123

RE:San Diego Airport

Work Order No.:

1007190

Attached are the results of the analyses for samples received by the laboratory on 07/14/10 I1:40.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Rand X. Foryth

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-7-14-10	1007190-01	Liquid	07/14/10 08:30	07/14/10 11:40

#### **CASE NARRATIVE**

SAMPLE RECEIPT:

Samples were received intact, at 4°C, and accompanied by chain of custody documentation.

PRESERVATION: HOLDING TIMES:

Samples requiring preservation were verified prior to sample preparation and analysis. All holding times were met, unless otherwises 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.



San Diego CA, 92123

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

## Microbiological Parameters by APHA Standard Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	Sampled: 07/14/1	10 08:30 F	Received: 07	/14/10 1	1:40				
Enterococcus	1400	200	MPN/100 mL	100	B0G2027	07/14/10	07/14/10 13:00	SM 9230B	
Fecal Coliforms	5000	200	"	"	11	"	tr.	SM 9221E	
Total Coliforms	50000	200	11	"	•	"	11	SM 9221B	



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

### Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	Sampled: 07/14/	10 08:30 R	eceived: (	07/14/10 1	1:40				
Total Hardness Hexane Extractable Material (HEM)	562 14.2	0.400 2.00	mg/L	1	B0G1923	07/19/10	07/19/10 19:08	SM 2340 C EPA 1664	



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

### Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-7-14-10 (1007190-01) Liquid	Sampled: 07/14/1	0 08:30 Re	ceived:	07/14/10 11	1:40				<del></del>
Cadmium	33	4.0	μg/L	2	B0G1506	07/15/10	07/16/10 12:24	EPA 200 8	
Copper	110	2.0	"	Ħ	**	11	"	El A 200.8	
Lead	14	4.0	n	**	"	**	11	Ħ	
Zinc	3300	5.0	n	5	11	"	07/16/10 12:20		



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

## 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 B0G1506 - EPA 200 Series										
Blank (B0G1506-BLK1)				Prepared:	07/15/10	Analyzed	: 07/16/10		-	
Cadmium	ND	4.0	μg/L							
Copper	ND	2.0	"							
Lead	ND	4.0	"							OD 01
Zinc	2.19	2.0								QB-01
LCS (B0G1506-BS1)				Prepared	07/15/10	Analyzed	1: 07/16/10			
Cadmium	198	4.0	μg/L	200		99.0	85-115			
	189	2.0	**	200		94.5	85-115			
Copper Lead	203	4.0		200		102	85-115			
Zinc	197	2.0	"	200		98.5	85-115			
Matrix Spike (B0G1506-MS1)	So	urce: 100719	0-01	Prepared	: 07/15/10	Analyze	d: 07/16/10			
Cadmium	233	4.0	μg/L	200	33	100	70-130			
•	319	2.0	"	200	110	104	70-130			
Copper	213	4.0	11	200	14	99.5	70-130			
Lead Zinc	2650	2.0		200	3300	NR	70-130			QM-07
	So	urce: 100719	00-01	Prenared	1: 07/15/10	) Analyze	d: 07/16/10	ı		
Matrix Spike Dup (B0G1506-MSD1)		4.0	μg/L	200	33	101	70-130	0.855	30	
Cadmium	235	2.0	μg/L "	200	110	78.5	70-130	17.7	30	
Copper	267		,,	200	14	102	70-130	2.32	30	
Lead	218	4.0		200	3300	NR	70-130	1.52	30	QM-07
Zinc	2610	2.0	••	200	2200	141	70-150	1.02		

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.



Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 07/26/10 14:44

#### **Notes and Definitions**

QB-01 The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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



Analytical Laboratory Service - Since 1964



#### **Certificate of Analysis**

Report Date: Friday, July 30, 2010 Received Date: Thursday, July 15, 2010

Received Time: 10:50 am **Turnaround Time: Normal** 

Client: Sierra Analytical

26052 Merit Circle, Suite 105

Laguna Hills, CA 92653

Attn: Nick Forsyth **Project: 1007190** 

Phones: (949) 348-9389 Fax: (949) 348-9115

P.O. #:

Matrix: Water Sample ID: CB08-8-7-14-10 (1007190-01) Lab Sample ID: 0G15009-01 Sampled by: Client Sampled: 07/14/10 08:30

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Azinphos methyl (Guthion)	ND	0.60	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Bolstar		0.44	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Chlorpyrifos		0.20	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Coumaphos		0.34	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Demeton-o.		0.24	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Demeton-s.		0.32	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Diazinon		0.29	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Dichlorvos		0.53	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Dimethoate		0.44	1.2	ug/i	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Disulfoton		0.32	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	3 M-04
Ethoprop	ND	0.53	0.75	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	M-04
Ethyl parathion		0.60	1.2	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	3 M-04
Fensulfothion		0.45	0.50	ug/l	1x5	EPA 8141	7/16/10	7/27/10 13:05	W0G0568	3 M-04
Fenthion		0.14	0.50	ug/l	1x5	EPA 8141A	7/16/10	7/27/10 13:05	W0G0568	3 M-04
Malathion		0.55	1.2	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G0568	3 M-04
Merphos		0.31	0.50	ug/l	1x5	EPA 8141/	A 7/16/10	7/27/10 13:05	W0G0568	3 M-04
Methyl parathion		0.28	0.50	ug/l	1x5	EPA 8141/	A 7/16/10	7/27/10 13:05	W0G0568	8 M-04
Mevinphos		0.44	0.50	ug/l	1x5	EPA 8141/	A 7/16/10	7/27/10 13:05	W0G0568	B M-04
Naled		0.30	0.50	ug/l	1x5	EPA 8141/	A 7/16/10	7/27/10 13:05	W0G056	8 M-04
Phorate		0.27	0.50	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G056	B M-04
Ronnel		0.18	0.50	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G056	8 M-04
Stirophos		0.25	0.50	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G056	B M-04
Thionazin		0.75	1.2	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G056	8 M-04
Tokuthion (Prothiofos)		0.32	0.50	ug/l	1x5	EPA 8141	A 7/16/10	7/27/10 13:05	W0G056	8 M-04
Trichloronate		0.16	0.50	ug/l	1x5	EPA 8141.	A 7/16/16	7/27/10 13:05	W0G056	8 M-04
Surrogate: Triphenyl phosphate			6-173	<b>5</b>						M-04, S-04



## **Certificate of Analysis**

## Quality Control Section SpQualific

#### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0G0568 - EPA 8141A Blank (W0G0568-BLK1)

lank (W0G0568-BLK1)	•				Prepared:	07/16/10	Analyzed	: 07/27/	10 11:33
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		0.877	39	ug/l	1.00	88	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				ug/l					
Naled				ug/i					
Phorate		ND		ug/i					
Ronnel	***************************************	ND		ug/l					
Stirophos	•••••	ND		ug/l					
Tokuthion (Prothiofos)		ND		ug/l					54
Trichloronate				ug/i					
Thionazin				ug/l					
Dimethoate				ug/l					
Malathion				ug/l					
Ethyl parathion		ND		ug/l					
.CS (W0G0568-BS1)					Prepared:	07/16/10	Analyzed	l. 07/27/	10 12:04
-	Sample	QC			Spike	07 / 10/ 10	%REC	I. U//2//	RPD
Analyte	Result	Result	Qualifier	Units	Level	%REC	Limits	RPD	Limit
Surrogate: Triphenyl phosphate		0.853		ug/l	1.00	85	6-173		
Azinphos methyl (Guthion)		1.09		ug/i	1.00	109	18-159		
Boistar	••••••	0.871		ug/i	1.00	87	49-148		
Chlorpyrifos		0.675		ug/l	1.00	68	49-143		
Coumaphos	••••••	1.00		ug/l	1.00	100	42-161		
Demeton-o	•••••	0.880		ug/l	1.00	88	47-132		
Demeton-s		1.01		ug/l	1.00	101	45-147		
Diazinon		0.912		ug/l	1.00	91	46-136		
		1 17		ug/l	1.00	117	29-164		
Dichlorvos		1 . 1 <i>1</i> =		ug/i			<b></b>		
DichlorvosDisulfoton				ug/i	1.00	87	46-155		



### **Certificate of Analysis**

#### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

#### Batch W0G0568 - EPA 8141A

LCS (W0G0568-BS1)					Prepared: 0	07/16/10	Analyzed:	07/27/1	0 12:04
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Fensulfothion		1.01		ug/l	1.00	101	54-167		
Fenthion		0.886		ug/l	1.00	89	50-143		
Merphos		2.08	Q-08	ug/l	1.00	208	40-185		
Methyl parathion		0.862		ug/i	1.00	86	47-142		
Mevinphos		0.988		ug/i	1.00	99	43-145		
Naled		0.339		ug/l	1.00	34	16-177		
Phorate		0.862		ug/i	1.00	86	56-134		
Ronnel		0.856		ug/l	1.00	86	49-140		
Stirophos	•••••	0.951		ug/l	1.00	95	46-146		
Tokuthion (Prothiofos)		0.846		ug/l	1.00	85	52-139		
Trichloronate				ug/l	1.00	100	52-136		
LCS Dup (W0G0568-BSD1)					Prepared:	07/16/10	Analyzed	: 07/27/1	0 12:3
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Triphenyl phosphate		0.848		ug/l	1.00	<i>8</i> 5	6-173		
Azinphos methyl (Guthion)		1.04		ug/l	1.00	104	18-159	5	25
Bolstar		0.814		ug/l	1.00	81	49-148	7	25
Chlorpyrifos		0.648		ug/l	1.00	65	49-143	4	25
Coumaphos		0.953		ug/l	1.00	95	42-161	5	25
Demeton-o				ug/l	1.00	88	47-132	0.1	25
Demeton-s		0.848		ug/i	1.00	85	45-147	18	25
Diazinon		0.882		ug/i	1.00	88	46-136	3	25
Dichlorvos	•••••	1.21		ug/l	1.00	121	29-164	4	25
Disulfoton	***************************************	0.810		ug/i	1.00	81	46-155	<sub>12</sub> 7	25
Ethoprop		0.827		ug/l	1.00	83	54-141	6	25
Fensulfothion				ug/l	<sup>-</sup> 1.00	93	54-167	8	25
Fenthion		0.904		ug/l	1.00	90	50-143	2	25
Merphos		1.67		ug/l	1.00	167	40-185	21	25
Methyl parathion				ug/l	1.00	74	47-142	15	25
Mevinphos				ug/l	1.00	94	43-145	5	25
Naled			BS-03	ug/l	1.00	9	16-177	119	25
Phorate				ug/l	1.00	81	56-134	6	25
Ronnel				ug/l	1.00	80	49-140	6	25
Stirophos				ug/l	1.00	88	46-146	8	25
Tokuthion (Prothiofos)				ug/l	1.00	81	52-139	5	25
Trichloronate				ug/l	1.00	95	52-136	6	25



#### **Certificate of Analysis**

#### Notes:

The Chain of Custody document is part of the analytical report.

Minimum Detectable Activity

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in

All results are expressed on wet weight basis unless otherwise specified.

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.

Contact: Kim G Tu (Project Manager)

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



**Authorized Signature** 

The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another

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

#### Flags for Data Qualifiers:

**BS-03** 

	acceptable BS/LCS and/or MS and MSD that meet BS criteria.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and RL were raised due to the dilution.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
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	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a $\times$ b". (a) and (b) are indicated as whole numbers with rounding up for = 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity





Environmental and Analytical Services - Since 1964

### Sample Receipt Acknowledgement

WORK ORDER: 0G15009

Printed: 7/16/2010 12:03:42PM

Client:

Project Manager: Kim G Tu

8141 Project:

Project Number: 1007190

Report To: Sierra Analytical Invoice To: Sierra Analytical

Nick Forsyth

Andrew Kim

26052 Merit Circle, Suite 105 Laguna Hills, CA 92653 Phone: (949) 348-9389

26052 Merit Circle, Suite 105

Laguna Hills, CA 92653 Phone: (949) 348-9389

Fax: (949) 348-9115

Fax: (949) 348-9115

Date Due:

07/29/10 15:00 (10 day TAT)

Jaime Gomez

Date Received: 07/15/10 10:50

Received By: Logged In By:

Jaime Gomez

Sierra Analytical

Date Logged in: 07/15/10 11:20

Samples Received at:

4.4°C

Yes

1

All containers intact:

Yes

Chain of custody completed:

Number of Ice

NA

Custody seals preser

Sample labels & COC agree:

chests/packages:

Custody seals intact: Samples received on ice Samples preserved properly:

Appropriate Sample

NA Yes

Sample volume sufficient:

Containers:

**Custody Seals** 

No

Sufficient holding time for all tests:

Comments TAT **Expires Analysis** 0G15009-01 CB08-8-7-14-10 (1007190-01) [Water] Sampled 07/14/10 08:30 Pacific

8141A Water

10

07/21/10 08:30

Comments:

**Authorized Signature** 

7/16/2010

Note:

If any of the information included in this sample receipt acknowledgement is incorrect (sample information, analysis, etc), please contact the lab at (626) 336-2139. Thank you.

Yes

Yes

Yes

Yes

Yes



#### SUBCONTRACT ORDER

## Sierra Analytical Labs, Inc.

Sierra Proiect #: 1007190

0615009

SENDING LABORATORY:	į.		Comments  RECEIVING 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	Time Requested:	ennal 24 Hour Hour 72 Hour Day 5 Day	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: CB08-8-7-14-10 (1007190-01	l) Liquid 07/14/10 08:30		
8141A O-P Pesticides (Low Level - 0.05	07/21/10 08:30	is a second	
Containers Supplied: 1L Amber (A)			

Special Instructions:		Properly Labeled Ch	nple Seals illed TEMP (°C)
N De Blizzell Relinquished By	7/אך איי אין אר Date / Time	Jame (1mm P) Received By	7/15/10/1050 Date/Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

CHAIN OF CUSTODY RECORD

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

Date: 71410 Page L of L

Lab Project No.: 1067190

Geotracker EDD Info:	H a#J	Client LOGCODE		Site Global ID	Field Point Names/ Comments						Sample Disposal:	Return to Client		Lab Disposal*	Archive mos.	Other		isuo ( )		By	DIRE - Wording		Yellow - Laboratory Copy, Pink - Field Personnel Copy
Analysis Requested	25 M21 M21 M21 M21 M21 M21 M21 M21 M21 M21	557. 19:11 10 10 10 10 10 10 10 10 10 10 10 10 1	2000 CO	100 100 100 100 100 100 100	14 Jun 20 10 10 10 10 10 10 10 10 10 10 10 10 10	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					Total Number of Containers Submitted to	Laboratory	The delined of complex and the signature on this chain of custody form constitutes	unthorization to periform the unalysis specified above under SIERRA's Terms and conditions. Unless otherwise upred upon in writing between SIERRA and CLIENT.	<ul> <li>Samples determined to be huzardous by SIERRA will be returned to CLIENT.</li> </ul>	Total Number of Containers Received	by Laboratory	FOR LABORATORY USE ONLY . Sample Receipt Conditions:	A Intact Chilled - Temp. (*C) -	Sample Scals Prescryatives - Verified By	  -  -		DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory (
Client Project ID:	Park Ct S.D. A: MOR	Turn Around Immediate 24 Haur	Para S	Archenhold   Mobile	Date Time Matrix Preservative Container No. of Type Containers	3						Shipped Via:	(Currier/Waybill World	7/14 George But Mad Snally MINTIN	15 mily 140	Received By:			Necessary by.	Conpany:	results	Kgreen@Mactee.com	OITIBIATATA
MALTINO	200		Client Tel. No.:	Client Fax. No.: Client Proj. Mgr.: Ananda Are	ple ID.	10 0/-	U C					Sampler Signature:	Princed Name: Kriscon	2] A separate Buy	NA TEL		Kelinquisned By:	Contrany:	Relinquished By:	Company:	Special Instructions: Dlease email	Kare	



20 August 2010

Amanda Archenhold MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego, CA 92123

RE:San Diego Airport

Work Order No.:

1008213

Attached are the results of the analyses for samples received by the laboratory on 08/12/10 13:25.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

d X. Forth

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



MACTEC Engineering & Consulting

9177 Sky Park Court Suite A San Diego CA, 92123 Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported:

08/20/10 14:51

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB08-8-8-12-10	1008213-01	Liquid	08/12/10 11:35	08/12/10 13:25

#### **CASE NARRATIVE**

SAMPLE RECEIPT:

Samples were received intact, at 4°C, and accompanied by chain of custody documentation.

PRESERVATION: HOLDING TIMES:

Samples requiring preservation were verified prior to sample preparation and analysis. All holding times were met, unless otherwises 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

9177 Sky Park Court Suite A San Diego CA, 92123 Project: San Diego Airport

Project Number: [none]
Project Manager: Amanda Archenhold

Reported:

08/20/10 14:51

# Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-8-12-10 (1008213-01) Liquid	Sampled: 08/12/1	0 11:35 R	eceived:	08/12/10 13	3:25				1
Total Hardness	1190	0.400	mg/L	1	B0H1914	08/19/10	08/19/10 14:58	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.



San Diego CA, 92123

MACTEC Engineering & Consulting 9177 Sky Park Court Suite A

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 08/20/10 14:51

### Metals (Dissolved) by EPA 200 Series Methods

### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CB08-8-8-12-10 (1008213-01) Liquid	Sampled: 08/12/	10 11:35 R	eceived: (	08/12/10 13	3:25				
Cadmium	54	10	μg/L	5	B0H1306	08/13/10	08/16/10 17:12	EPA 200.8	
Copper	2300	5.0	"	**	"	**	"	•	
Zinc	3200	5.0	"	"	"	**	"	"	



MACTEC Engineering & Consulting 9177 Sky Park Court Suite A San Diego CA, 92123

Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 08/20/10 14:51

# 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 B0H1306 - EPA 200 Series									×	
Blank (B0H1306-BLK1)				Prepared:	08/13/10	Analyzeo	i: 08/16/10			
Cadmium	ND	4.0	μg/L					<del></del>		
Copper	ND	2.0	"							
Zinc	ND	2.0	*							
LCS (B0H1306-BS1)				Prepared:	08/13/10	Analyzed	l: 08/16/10			
Cadmium	194	4.0	μg/L	200		97.0	85-115	-		
Copper	174	2.0	н	200		87.0	85-115			
Zinc	184	2.0	**	200		92.0	85-115			
Matrix Spike (B0H1306-MS1)	Sou	rce: 100815	l-01	Prepared:	08/13/10	Analyzed	l: 08/16/10			
Cadmium	198	4.0	μg/L	200	0.36	98.8	70-130			
Copper	185	2.0	**	200	15	85.0	70-130			
Zinc	317	2.0	"	200	190	63.5	70-130			QM-07
Matrix Spike Dup (B0H1306-MSD1)	Sou	rce: 100815	1-01	Prepared:	08/13/10	Analyzed	l: 08/16/10			
Cadmium	194	4.0	μg/L	200	0.36	96.8	70-130	2.04	30	
Copper	181	2.0	"	200	15	83.0	70-130	2.19	30	
Zinc	282	2.0	H	200	190	46.0	70-130	11.7	30	QM-07

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 9177 Sky Park Court Suite A San Diego CA, 92123 Project: San Diego Airport

Project Number: [none]

Project Manager: Amanda Archenhold

Reported: 08/20/10 14:51

#### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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

# CHAIN OF CUSTODY RECORD

SIERRAANALYTICAL

TEL: 949•348•9389 FAX: 949•348•9115

26052 Merit Circle Suite 105 Laguna Hills, CA 92653

Date: 8/2/10 Page 1\_ of \_\_

2<del>1888</del>

Lab Project No.:

Geotracker EDD Info: Client LOGCODE Field Point Names/ mos. Site Global ID Comments Return to Client ☐ Lab Disposal\* Sample Disposal: ☐ Archive Other. Chilled - Temp. (°C) 4-0 Slorage Location VCO Preservatives - Verified By\_ FOR LABORATORY USE ONLY - Sample Receipt Conditions: Total Number of Containers Submitted to 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 Other Analysis Requested by Laboratory Laboratory Appropriate Sample Container Properly Labelled Sample Seuls η N Intact 6/0/2 Containers No. of 24 Hour 72 Hour Mobile S Duy Time Date: Time Date Container Type Poly ☐ Immediate 48 Hour Normal **□** Client Project ID: Preservative Time Requested Turn Around Matrix 3 Shipped Viu: Received By Received By Company: Company Amanda Archenholo 11.35 Time 0098 SKaPark 8/12 Date Tine Dute Time Dale Sierra No. とからしゃ 5 SanDiego 0808-8-8-12-10 Client Sample ID. Client Proj. Mgr.: Special Instructions: Client Tel. No.: Client Fax. No.: Client Address: Sumpler Signature Relinquished By: Relinquished By finguished By: Printed Name:

DISTRIBUTION: White - To Accompany Samples. Yellow - Laboratory Copy. Pink - Field Personnel Copy



# Appendix C

FY09-10 Wet Weather Sampling Results Fiscal Year 2009-2010 Annual IDDE Report



(12/7/09)

# 12/7/09 Compliance Sites Analytical Results

									Re	esults				
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	C-B01-1 12-7-09	C-B03-2 12-7-09	C-B05-3 12-7-09	C-B05-4 12-7-09	C-B06-5 12-7-09	C-B07-6 12-7-09	C-B07-7 12-7-09	C-B08-8 12-7-09	C-B12-9 12-7-09	C-B09-10 12-7-09
Conventionals		L							L					L
Ammonia as N	SM 4500- NH3	1	mg/l	0.100	2.55	1.95	2.10	5.60	6.70	1.10	2.50	0.90	1.45	3.05
BOD	EPA 405.1	1	mg/l	2.00	27.0	4.60	80.0	84.0	89.0	16.2	78.0	ND	75.0	47.0
COD	EPA 410.4	1	mg/l	0.100	95.0	14.0	302	285	302	52.0	280	5.00	274	172
SC	EPA 120.1	1	μmhos/cm	0.100	195	103	1970	370	583	56	380	97.3	2220	260
MBAS	EPA 425.1	1	mg/l	0.0500	0.130	ND	0.180	0.240	0.210	0.110	0.310	ND	ND	0.15
Oil & Grease	EPA 1664	1	mg/l	2.00	2.50	ND	2.10	ND	2.20	ND	2.80	ND	ND	2.90
pН	EPA 150.1	1	pH Units	0.100	7.17	7.34	7.88	6.35	6.54	7.26	6.68	7.41	7.21	7.40
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	16.0	2.00	19.0	25.0	18.0	26.0	42.0	2.00	3.00	31.0
Metals (Total)		•	•				•				•	•	-	•
Aluminum	EPA 200.8	2, 10	μg/L	50, 250	1900 <sup>a</sup>	320 <sup>a</sup>	3500 <sup>b</sup>	870°	770 <sup>a</sup>	580 <sup>a</sup>	730 <sup>a</sup>	56°	210 <sup>a</sup>	1400°
Copper	EPA 200.8	2	μg/L	2.0	310	150	29	910	770	140	360	23	34	94
Iron	EPA 200.8	2	mg/l	0.050	2.6	0.43	4.0	1.2	0.89	0.94	0.79	ND	0.46	1.9
Lead	EPA 200.8	2	μg/L	2.0	24	11	19	6.6	4.4	7.5	6.8	ND	2.1	5.6
Zinc	EPA 200.8	2	μg/L	2.0	240	200	94	660	620	430	1200	59	130	240
Metals (Dissolved)		•			•	•	•	•		•	•	•	•	
Copper	EPA 200.8	2	μg/L	2.0	220	130	14	850	700	97	310	20	27	80
Zinc	EPA 200.8	2	μg/L	2.0	130	190	13	620	560	350	1100	55	120	200
Total Petroleum Hydro	ocarbons (TPH	(I)				•	•	•		•	•	•	•	
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND									
Jet-A	EPA 8015B	1	mg/l	0.050	0.47	ND	0.095	1.5	1.2	0.30	1.2	0.22	0.51	0.42
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.62	ND	0.13	2.3	1.4	0.86	1.4	0.17	1.1	0.63
Glycols		•	•			•	•	•		•	•	•	•	
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND									
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND									

### Notes:

 $<sup>^{\</sup>rm a}$  Dilution = 2 and Reporting Limit = 50; b Dilution = 10 and Reporting Limit = 250 ND = Non Detect

# 12/7/09 BMP Effectiveness Sites Analytical and Particle Size Results

							Results		
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/ S-B08-2 12-7-09	S-B09-3/ S-B11-4 12-7-09	S-B06-12 12-7-09	S-B12-13 12-7-09	S-B08-14 12-7-09
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	13.8	9.20	28.4	ND	ND
COD	EPA 410.4	1	mg/l	0.100	52.0	30.0	102	2.00	5.00
SC	EPA 120.1	1	μmhos/cm	0.100	98.4	72.8	102	78.5	97.3
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pН	EPA 150.1	1	pH Units	0.100	7.08	7.04	6.97	7.17	7.41
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	17.0	11.0	34.0	1.00	2.00
Metals (Total)		•	•					•	•
Aluminum	EPA 200.8	2	μg/L	50	410	970	1300	62	56
Copper	EPA 200.8	2	μg/L	2.0	67	25	79	18	23
Iron	EPA 200.8	2	mg/l	0.050	0.63	1.5	1.9	0.084	ND
Lead	EPA 200.8	2	μg/L	2.0	3.0	8.5	8.8	ND	ND
Zinc	EPA 200.8	2	μg/L	2.0	260	110	320	40	59
Metals (Dissolved)									
Copper	EPA 200.8	2	μ <b>g</b> /L	2.0	50	16	44	15	20
Zinc	EPA 200.8	2	μg/L	2.0	210	60	180	37	55
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND

#### Notes:

ND = Non Detect

#### 12/7/09 Particle Size Results

Sample ID	Median Grain Size.	Cumulative Percent Greater Than (Distribution percent, microns)											
Sample 1D	micron	5%	10% 16% 25% 40% 50% 60% 75% 84%							84%	90%	95%	
S-B06-12 12-7-09	202.411	1314.277	77 1029.129 820.445 585.327 316.586 202.411 124.132 68.513 40.702 21.365 12.013										

(12/11/09)

# 12/11/09 Compliance Sites Analytical Results

									Re	esults				
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	C-B01-1 12-11-09	C-B03-2 12-11-09	C-B05-3 12-11-09	C-B05-4 12-11-09	C-B06-5 12-11-09	C-B07-6 12-11-09	C-B07-7 12-11-09	C-B08-8 12-11-09	C-B12-9 12-11-09	C-B09-10 12-11-09
Conventionals													•	
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	2.45	NA	1.80	3.55	2.90	1.55	1.40	1.35	2.45	2.95
BOD	EPA 405.1	1	mg/l	2.00	7.80	NA	11.9	20.9	6.30	24.3	27.2	43.8	79.0	45.0
COD	EPA 410.4	1	mg/l	0.100	25.0	NA	41.0	87.0	26.0	98.0	103	207	325	175
SC	EPA 120.1	1	μmhos/cm	0.100	138	NA	328	230	173	196	237	467	1890	285
MBAS	EPA 425.1	1	mg/l	0.0500	0.150	NA	0.180	0.160	0.120	0.110	0.180	0.110	0.140	0.170
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	NA	ND	ND	ND	ND	ND	ND	3.10	2.50
pН	EPA 150.1	1	pH Units	0.100	7.19	NA	8.19	7.13	7.12	6.47	6.66	7.16	9.96	7.53
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	16.0	NA	14.0	8.00	11.0	17.0	12.0	4.00	38.0	29.0
Metals (Total)														
Aluminum	EPA 200.8	2, 10	μg/L	50, 250	850 <sup>a</sup>	NA	4300 <sup>b</sup>	540 <sup>a</sup>	2000 <sup>a</sup>	1000 <sup>a</sup>	860 <sup>a</sup>	160 <sup>a</sup>	93ª	420 <sup>a</sup>
Copper	EPA 200.8	2	μg/L	2.0	87	NA	30	290	180	220	130	120	30	56
Iron	EPA 200.8	2	mg/l	0.050	1.0	NA	4.4	0.70	2.4	1.7	1.0	0.15	0.11	0.79
Lead	EPA 200.8	2	μ <b>g</b> /L	2.0	5.1	NA	24	2.7	7.0	13	7.3	ND	ND	2.2
Zinc	EPA 200.8	2	μg/L	2.0	67	NA	160	280	170	970	580	380	24	160
Metals (Dissolved)														
Copper	EPA 200.8	2	μg/L	2.0	65	NA	9.8	240	130	140	100	83	24	47
Zinc	EPA 200.8	2	μg/L	2.0	40	NA	9.7	230	120	780	480	320	20	130
Total Petroleum Hydro	ocarbons (TPH	)												
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND	NA	ND							
Jet-A	EPA 8015B	1	mg/l	0.050	0.12	NA	0.085	0.50	0.14	0.95	0.48	0.78	0.38	0.39
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.20	NA	0.15	0.53	0.062	2.7	0.79	0.42	0.44	0.77
Glycols														
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	NA	ND							
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	NA	ND	ND	ND	ND	ND	17.3	ND	ND

#### **Notes:**

 $<sup>^{\</sup>rm a}$  Dilution = 2 and Reporting Limit = 50; b Dilution = 10 and Reporting Limit = 250 ND = Non Detect

# 12/11/09 BMP Effectiveness Sites Analytical and Particle Size Results

							Results		
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/ S-B08-2 12-11-09	S-B09-3/ S-B11-4 12-11-09	S-B06-12 12-11-09	S-B12-13 12-11-09	S-B08-14 12-11-09
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	22.6	34.8	7.60	16.3	43.8
COD	EPA 410.4	1	mg/l	0.100	80.0	130	29.0	62.0	207
SC	EPA 120.1	1	μmhos/cm	0.100	193	252	243	279	467
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	2.00	ND	ND	ND
рН	EPA 150.1	1	pH Units	0.100	6.43	6.67	7.32	7.18	7.16
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	23.0	26.0	7.00	4.00	4.00
Metals (Total)									
Aluminum	EPA 200.8	2	μg/L	50	640	1100	92	ND	160
Copper	EPA 200.8	2	μg/L	2.0	92	73	35	63	120
Iron	EPA 200.8	2	mg/l	0.050	1.0	1.7	0.18	0.087	0.15
Lead	EPA 200.8	2	μg/L	2.0	4.2	9.6	ND	ND	ND
Zinc	EPA 200.8	2	μ <b>g/L</b>	2.0	320	250	110	130	380
Metals (Dissolved)									
Copper	EPA 200.8	2	μ <b>g/L</b>	2.0	71	56	25	49	83
Zinc	EPA 200.8	2	μg/L	2.0	270	170	85	110	320
Glycols	•			•			•	•	·
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	17.3

Notes:

ND = Non Detect

### 12/11/09 Particle Size Results

Sample ID	Median Grain Size,				Cumulative l	Percent Grea	iter Than (Di	stribution pe	rcent, micron	s)		
Sample 1D	micron	5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12 12-11-09	74.202	110.122	102.212	96.929	89.512	79.934	74.202	67.698	56.445	44.888	25.723	14.362

(1/18/10)

# 1/18/10 Compliance Sites Analytical Results

	Analytical			Reporting	Results
Analyte	Procedure	Dilution	Units	Limit	C-B03-2 1-18-10
Conventionals					
Ammonia as N	SM 4500-NH3	1	mg/l	0.100	1.30
BOD	EPA 405.1	1	mg/l	2.00	28.0
COD	EPA 410.4	1	mg/l	0.100	55.0
SC	EPA 120.1	1	μmhos/cm	0.100	147
MBAS	EPA 425.1	1	mg/l	0.0500	0.180
Oil & Grease	EPA 1664	1	mg/l	2.00	ND
pН	EPA 150.1	1	pH Units	0.100	7.02
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	24.0
Metals (Total)					
Aluminum	EPA 200.8	2	μg/L	50	660
Copper	EPA 200.8	2	μg/L	2.0	200
Iron	EPA 200.8	2	mg/l	0.050	0.80
Lead	EPA 200.8	2	μg/L	2.0	3.3
Zinc	EPA 200.8	2	μg/L	2.0	210
Metals (Dissolved)					
Copper	EPA 200.8	1	μg/L	1.0	140
Zinc	EPA 200.8	1	μg/L	1.0	140
Total Petroleum Hydr	ocarbons (TPH	)			
Diesel Range Organics (C10-C24)	EPA 8015B	1	mg/l	0.050	ND
Jet-A	EPA 8015B	1	mg/l	0.050	ND
Oil Range Organics (C22-C36)	EPA 8015B	1	mg/l	0.050	0.40
Glycols					
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND

**Notes:** 

ND = Non Detect

# 1/18/10 BMP Effectiveness Sites Analytical and Particle Size Results

							Results		
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/ S-B08-2 1-18-10	S-B09-3/ S-B11-4 1-18-10	S-B06-12 1-18-10	S-B12-13 1-18-10	S-B08-14 1-18-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	12.0	20.6	3.60	3.40	ND
COD	EPA 410.4	1	mg/l	0.100	27.0	42.0	7.00	10.0	4.00
SC	EPA 120.1	1	μmhos/cm	0.100	43.4	60.1	52.0	51.5	106
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
рН	EPA 150.1	1	pH Units	0.100	7.47	7.16	7.43	7.36	7.25
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	9.00	17.0	3.00	2.00	4.00
Metals (Total)									
Aluminum	EPA 200.8	2	μ <b>g/L</b>	50	1400	5200	260	130	160
Copper	EPA 200.8	2	μg/L	2.0	43	66	39	16	41
Iron	EPA 200.8	2	mg/l	0.050	1.8	6.0	0.39	0.18	0.16
Lead	EPA 200.8	2	μg/L	2.0	7.9	42	2.3	ND	2.3
Zinc	EPA 200.8	2	μg/L	2.0	180	400	110	72	140
Metals (Dissolved)									
Copper	EPA 200.8	1	μ <b>g/L</b>	1.0	10	8.5	5.7	6.1	23
Zinc	EPA 200.8	1	μg/L	1.0	42	37	37	34	88
Glycols	•			•	•		•		•
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
N - 4				·		•	·	•	

#### Notes:

ND = Non Detect

#### 1/18/10 Particle Size Results

Sample ID	Median Grain Size.	Cumulative Percent Greater Than (Distribution percent, microns								Cumulative Percent Greater Than (Distribution percent, microns)					
Sample 1D	micron	5%	5% 10% 16% 25% 40% 50% 60% 75% 84% 90%								95%				
S-B06-12 1-18-10	64.746	113.579	102.343	94.752	85.195	72.852	64.746	54.944	26.874	14.743	8.756	4.112			

(1/26/10)

# 1/26/10 BMP Effectiveness Sites Analytical and Particle Size Results

					-		Results		
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/ S-B08-2 1-26-10	S-B09-3/ S-B11-4 1-26-10	S-B06-12 1-26-10	S-B12-13 1-26-10	S-B08-14 1-26-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	14.3	16.7	3.10	2.90	4.20
COD	EPA 410.4	1	mg/l	0.100	32.6	39.0	11.0	10.0	14.0
SC	EPA 120.1	1	μmhos/cm	0.100	87.4	111	142	4390	234
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
рН	EPA 150.1	1	pH Units	0.100	7.18	7.17	8.27	7.68	7.04
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	12.0	14.0	2.00	2.00	3.00
Metals (Total)									
Aluminum	EPA 200.8	2	μg/L	50	1200	1300	230	110	170
Copper	EPA 200.8	2	μg/L	2.0	75	48	24	28	78
Iron	EPA 200.8	2	mg/l	0.050	1.7	1.9	0.21	0.14	0.15
Lead	EPA 200.8	2	μg/L	2.0	7.7	13	ND	ND	ND
Zinc	EPA 200.8	2	μg/L	2.0	200	160	59	67	230
Metals (Dissolved)									
Copper	EPA 200.8	1	μg/L	1.0	34	25	13	22	42
Zinc	EPA 200.8	1	μg/L	1.0	80	59	21	49	180
Glycols								•	•
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	12.3	22.6
NI - 4		•							

#### Notes:

ND = Non Detect

#### 1/26/10 Particle Size Results

Sample ID	Median Grain Size.				Cumulative I	Percent Grea	nter Than (Di	stribution pe	rcent, micron	ıs)		
Sample 1D	micron	5%	5% 10% 16% 25% 40% 50% 60% 75% 84% 90%								95%	
S-B06-12 1-26-10	83.159	171.797	148.931	131.685	113.698	93.724	83.159	73.526	54.478	30.645	18.196	10.225

(2/5/10)

## 2/5/10 BMP Effectiveness Sites Analytical and Particle Size Results

							Results		
Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	S-B08-1/ S-B08-2 2-5-10	S-B09-3/ S-B11-4 2-5-10	S-B06-12 2-5-10	S-B12-13 2-5-10	S-B08-14 2-5-10
Conventionals									
BOD	EPA 405.1	1	mg/l	2.00	7.40	2.70	2.50	2.30	18.4
COD	EPA 410.4	1	mg/l	0.100	19.0	8.20	9.40	8.90	41.0
SC	EPA 120.1	1	μmhos/cm	0.100	50.3	66.5	75.3	68.8	139
Oil & Grease	EPA 1664	1	mg/l	2.00	ND	ND	ND	ND	ND
pН	EPA 150.1	1	pH Units	0.100	7.43	7.13	7.55	7.20	6.84
Total Suspended Solids	EPA 160.2	1	mg/l	1.00	6.00	2.00	ND	ND	15.0
Metals (Total)									
Aluminum	EPA 200.8	2	μ <b>g</b> /L	50	1100	1400	280	200	170
Copper	EPA 200.8	2	μg/L	2.0	38	35	22	24	39
Iron	EPA 200.8	2	mg/l	0.050	1.4	2.0	0.33	0.28	0.60
Lead	EPA 200.8	2	μg/L	2.0	5.2	7.4	ND	2.3	ND
Zinc	EPA 200.8	2	μg/L	2.0	120	140	60	76	280
Metals (Dissolved)									
Copper	EPA 200.8	1	μg/L	1.0	13	15	9.1	9.2	15
Zinc	EPA 200.8	1	μg/L	1.0	29	37	19	42	200
Glycols									
Ethylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND
Propylene Glycol	EPA 8015B	2	mg/l	10.0	ND	ND	ND	ND	ND

Notes:

ND = Non Detect

#### 2/5/10 Particle Size Results

Sample ID	Median Grain Size.				Cumulative l	Percent Grea	nter Than (Di	stribution pe	rcent, micron	s)		
Sample 1D	micron	5%	5% 10% 16% 25% 40% 50% 60% 75% 84% 90% 95								95%	
S-B06-12 2-5-10	78.141	166.188	145.779	113.487	99.136	85.400	78.141	70.418	55.321	27.746	14.870	8.038

(2/19/10)

# 2/19/10 BMP Effectiveness Sites Analytical Results

Analyte	Analytical Procedure	Dilution	Units	Reporting Limit	Results	
					S-B08-1/ S-B08-2- 2-19-10	S-B09-3/ S-B11-4- 2-19-10
Conventionals						
BOD	EPA 405.1	1	mg/L	2.00	23.0	20.6
COD	EPA 410.4	1	mg/L	0.100	49.0	45.0
SC	EPA 120.1	1	μmhos/cm	0.100	69.5	98.3
Oil & Grease	EPA 1664	1	mg/L	2.00	ND	ND
pН	EPA 150.1	1	pH Units	0.100	7.43	6.94
Total Suspended Solids	EPA 160.2	1	mg/L	1.00	7.00	5.00
Metals (Total)						
Aluminum	EPA 200.8	2	μg/L	50	590	950
Copper	EPA 200.8	2	μg/L	2.0	44	28
Iron	EPA 200.8	2	mg/L	0.050	0.72	1.4
Lead	EPA 200.8	2	μg/L	2.0	2.7	6.1
Zinc	EPA 200.8	2	μg/L	2.0	120	110
Metals (Dissolved)						
Copper	EPA 200.8	1	μg/L	1.0	25	15
Zinc	EPA 200.8	1	μg/L	1.0	64	44
Glycols						
Ethylene Glycol	EPA 8015B	2	mg/L	10.0	ND	ND
Propylene Glycol	EPA 8015B	2	mg/L	10.0	ND	ND

Notes:

ND = Non Detect