State of California
STATE WATER RESOURCES CONTROL BOARD

2008-2009
ANNUAL REPORT
FOR
STORM WATER DISCHARGES ASSOCIATED
WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2008 through June 30, 2009

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. **Retain a copy of the completed Annual Report for your records.**

Please circle or highlight any information contained in Items A, B, and C below that is new or revised so we can update our records. Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers and e-mail addresses of the Regional Board contacts, as well as the Regional Board office addresses can be found at http://www.waterboards.ca.gov/stormwtr/contact.html. To find your Regional Board information, match the first digit of your WDID number with the corresponding number that appears in parenthesis on the first line of each Regional Board office.

GENERAL INFORMATION:

A. Facility Information:

Facility WDID No: 9371018035

Facility Business Name: San Diego International Airport
Physical Address: 3225 North Harbor Drive
City: San Diego
Contact Person: Richard Gilb
e-mail: RGilb@san.org
State: CA Zip: 92101 Phone: (619)400-2790
Standard Industrial Classification (SIC) Code(s): 4581 – Airports, Flying Fields, and Airport Terminal Services

B. Facility Operator Information:

Operator Name: San Diego County Regional Airport Authority
Mailing Address: P.O. Box 82776
City: San Diego
Contact Person: Richard Gilb
e-mail: RGilb@san.org
State: CA Zip: 92101 Phone: (619)400-2790

C. Facility Billing Information:

Operator Name: San Diego County Regional Airport Authority
Mailing Address: P.O. Box 82776
City: San Diego
Contact Person: Richard Gilb
e-mail: RGilb@san.org
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2008-2009

ANNUAL REPORT

SPECIFIC INFORMATION

MONITORING AND REPORTING PROGRAM

D. SAMPLING AND ANALYSIS EXEMPTIONS AND REDUCTIONS

1. For the reporting period, was your facility exempt from collecting and analyzing samples from **two** storm events in accordance with sections B.12 or 15 of the General Permit?

☐ **YES** Go to Item D.2 ☒ **NO** Go to Section E

2. Indicate the reason your facility is exempt from collecting and analyzing samples from **two** storm events. Attach a copy of the first page of the appropriate certification if you check boxes ii, iii, iv, or v.

i. ☐ Participating in an Approved Group Monitoring Plan **Group Name:** _____

_____

ii. ☐ Submitted **No Exposure Certification (NEC)** Date Submitted: ___/___/_____

Re-evaluation Date: ___/___/_____

Does facility continue to satisfy NEC conditions? ☐ YES ☐ NO

iii. ☐ Submitted **Sampling Reduction Certification (SRC)** Date Submitted: ___/___/_____

Re-evaluation Date: ___/___/_____

Does facility continue to satisfy SRC conditions? ☐ YES ☐ NO

iv. ☐ Received Regional Board Certification Certification Date: ___/___/_____

v. ☐ Received Local Agency Certification Certification Date: ___/___/_____

3. If you checked boxes i or iii above, were you scheduled to sample **one** storm event during the reporting year?

☐ **YES** Go to Section E ☐ **NO** Go to Section F

4. If you checked boxes ii, iv, or v, go to Section F.

E. SAMPLING AND ANALYSIS RESULTS

1. How many storm events did you sample? 2 If less than 2, **attach explanation** (if you checked item D.2.i or iii. above, only attach explanation if you answer "0").

2. Did you collect storm water samples from the first storm of the wet season that produced a discharge during scheduled facility operating hours? (Section B.5 of the General Permit)

☒ **YES** ☐ **NO** **attach explanation** **(Please note that if you do not sample the first storm event, you are still required to sample 2 storm events)**

3. How many storm water discharge locations are at your facility? 14

4. For each storm event sampled, did you collect and analyze a sample from each of the facility's' storm water discharge locations? ☐ YES, go to Item E.6 ☒ NO

5. Was sample collection or analysis reduced in accordance with Section B.7.d of the General Permit? ☒ YES ☐ NO, **attach explanation**

   If "YES", **attach documentation** supporting your determination that two or more drainage areas are substantially identical.

   Date facility's drainage areas were last evaluated 3/24/08

6. Were all samples collected during the first hour of discharge? ☐ YES ☒ NO, **attach explanation**

7. Was all storm water sampling preceded by three (3) working days without a storm water discharge? ☒ YES ☐ NO, **attach explanation**

8. Were there any discharges of storm water that had been temporarily stored or contained? (such as from a pond) ☐ YES ☒ NO, go to Item E.10

9. Did you collect and analyze samples of temporarily stored or contained storm water discharges from two storm events? (or one storm event if you checked item D.2.i or iii. above) ☐ YES ☐ NO, **attach explanation**

10. Section B.5. of the General Permit requires you to analyze storm water samples for pH, Total Suspended Solids (TSS), Specific Conductance (SC), Total Organic Carbon (TOC) or Oil and Grease (O&G), other pollutants likely to be present in storm water discharges in significant quantities, and analytical parameters listed in Table D of the General Permit.

    a. Does Table D contain any additional parameters related to your facility's SIC code(s)? ☒ YES ☐ NO, Go to Item E.11

    b. Did you analyze all storm water samples for the applicable parameters listed in Table D? ☒ YES ☐ NO

    c. If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:

    _____ In prior sampling years, the parameter(s) have not been detected in significant quantities from two consecutive sampling events. **Attach explanation**

    _____ The parameter(s) is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation. **Attach explanation**

    _____ Other. **Attach explanation**

11. For each storm event sampled, attach a copy of the laboratory analytical reports and report the sampling and analysis results using **Form 1** or its equivalent. The following must be provided for each sample collected:

- Date and time of sample collection
- Name and title of sampler
- Parameters tested
- Name of analytical testing laboratory
- Discharge location identification
- Testing results
- Test methods used
- Test detection limits
- Date of testing
- Copies of the laboratory analytical results

F. QUARTERLY VISUAL OBSERVATIONS

1. **Authorized Non-Storm Water Discharges**

Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.

a. Do authorized non-storm water discharges occur at your facility?

☒ **YES** ☐ **NO** Go to Item F.2

b. Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. **Attach an explanation for any "NO" answers.** Indicate "N/A" for quarters without any authorized non-storm water discharges.

July-September	☐ **YES**	☐ **NO**	☒ **N/A**	October-December	☐ **YES**	☐ **NO**	☒ **N/A**
January-March	☐ **YES**	☐ **NO**	☒ **N/A**	April-June	☐ **YES**	☐ **NO**	☒ **N/A**

c. Use **Form 2** to report quarterly visual observations of authorized non-storm water discharges or provide the following information:

i. name of each authorized non-storm water discharge
ii. date and time of observation
iii. source and location of each authorized non-storm water discharge
iv. characteristics of the discharge at its source and impacted drainage area/discharge location
v. name, title, and signature of observer
vi. **any** new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.

2. **Unauthorized Non-Storm Water Discharges**

Section B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources.

a. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non- storm water discharges and their sources. **Attach an explanation for any "NO" answers.**

July-September	☒ **YES**	☐ **NO**	October-December	☒ **YES**	☐ **NO**
January-March	☒ **YES**	☐ **NO**	April-June	☒ **YES**	☐ **NO**

b. Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?

☒ **YES** ☐ **NO** Go to Item F.2.d

c. Have each of the unauthorized non-storm water discharges been eliminated or permitted?

☒ **YES** ☐ **NO** **Attach explanation**

d. Use **Form 3** to report quarterly unauthorized non-storm water discharge visual observations or provide the following information:

i. name of each unauthorized non-storm water discharge
ii. date and time of observation
iii. source and location of each unauthorized non-storm water discharge
iv. characteristics of the discharge at its source and impacted drainage area/discharge location
v. name, title, and signature of observer
vi. **any** corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.

G. MONTHLY WET SEASON VISUAL OBSERVATIONS

Section B.4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during the first hour of discharge or, in the case of temporarily stored or contained storm water, at the time of discharge.

1. Indicate below whether monthly visual observations of storm water discharges occurred at all discharge locations. **Attach an explanation for any "NO" answers**. Include in this explanation whether any eligible storm events occurred during scheduled facility operating hours that did not result in a storm water discharge, and provide the date, time, name and title of the person who observed that there was no storm water discharge.

	YES	NO		YES	NO
October	☐	☒	February	☒	☐
November	☒	☐	March	☒	☐
December	☒	☐	April	☐	☒
January	☐	☒	May	☐	☒

2. Report monthly wet season visual observations using **Form 4** or provide the following information:

   a. date, time, and location of observation
   b. name and title of observer
   c. characteristics of the discharge (i.e., odor, color, etc.) and source of any pollutants observed
   d. **any** new or revised BMPs necessary to reduce or prevent pollutants in storm water discharges. Provide new or revised BMP implementation date.

ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (ACSCE)

H. ACSCE CHECKLIST

Section A.9 of the General Permit requires the facility operator to conduct one ACSCE in each reporting period (July 1-June 30). Evaluations must be conducted within 8-16 months of each other. The SWPPP and monitoring program shall be revised and implemented, as necessary, within 90 days of the evaluation. The checklist below includes the minimum steps necessary to complete a ACSCE. Indicate whether you have performed each step below. **Attach an explanation for any "NO" answers.**

1. Have you inspected all potential pollutant sources and industrial activities areas? ☒ YES ☐ NO
   The following areas should be inspected:

   - areas where spills and leaks have occurred during the last year
   - outdoor wash and rinse areas
   - process/manufacturing areas
   - loading, unloading, and transfer areas
   - waste storage/disposal areas
   - dust/particulate generating areas
   - erosion areas
   - building repair, remodeling, and construction
   - material storage areas
   - vehicle/equipment storage areas
   - truck parking and access areas
   - rooftop equipment areas
   - vehicle fueling/maintenance areas
   - non-storm water discharge generating areas

2. Have you reviewed your SWPPP to assure that its BMPs address existing potential pollutant sources and industrial activities areas? ☒ YES ☐ NO

3. Have you inspected the entire facility to verify that the SWPPP's site map is up-to-date? The following site map items should be verified: ☒ YES ☐ NO

   - facility boundaries
   - outline of all storm water drainage areas
   - areas impacted by run-on
   - storm water discharges locations
   - storm water collection and conveyance system
   - structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

4. Have you reviewed all General Permit compliance records generated since the last annual evaluation? ☒ YES ☐ NO

   The following records should be reviewed:

   - quarterly authorized non-storm water discharge visual observations
   - monthly storm water discharge visual observation
   - records of spills/leaks and associated clean-up/response activities
   - quarterly unauthorized non-storm water discharge visual observations
   - Sampling and Analysis records
   - preventative maintenance inspection and maintenance records

5. Have you reviewed the major elements of the SWPPP to assure compliance with the General Permit? ☒ YES ☐ NO

   The following SWPPP items should be reviewed:

   - pollution prevention team
   - list of significant materials
   - description of potential pollutant sources
   - assessment of potential pollutant sources
   - identification and description of the BMPs to be implemented for each potential pollutant source

6. Have you reviewed your SWPPP to assure that a) the BMPs are adequate in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges, and b) the BMPs are being implemented? ☒ YES ☐ NO

   The following BMP categories should be reviewed:

   - good housekeeping practices
   - spill response
   - employee training
   - erosion control
   - quality assurance
   - preventative maintenance
   - material handling and storage practices
   - waste handling/storage
   - structural BMPs

7. Has all material handling equipment and equipment needed to implement the SWPPP been inspected? ☒ YES ☐ NO

I. ACSCE EVALUATION REPORT

The facility operator is required to provide an evaluation report that includes:

- identification of personnel performing the evaluation
- the date(s) of the evaluation
- necessary SWPPP revisions
- schedule for implementing SWPPP revisions
- any incidents of non-compliance and the corrective actions taken

Use **Form 5** to report the results of your evaluation or develop an equivalent form.

J. ACSCE CERTIFICATION

The facility operator is required to certify compliance with the Industrial Activities Storm Water General Permit. To certify compliance, both the SWPPP and Monitoring Program must be up to date and be fully implemented.

Based upon your ACSCE, do you certify compliance with the Industrial Activities Storm Water General Permit? ☒ YES ☐ NO

If you answered "NO" **attach an explanation** to the ACSCE Evaluation Report why you are not in compliance with the Industrial Activities Storm Water General Permit.

2008-2009

ANNUAL REPORT

ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

1.	Have you attached Forms 1,2,3,4, and 5 or their equivalent?	☒ YES (Mandatory)		
2.	If you conducted sampling and analysis, have you attached the laboratory analytical reports?	☒ YES	☐ NO	☐ NA
3.	If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications?	☐ YES	☐ NO	☒ NA
4.	Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H.1-H.7, or J?	☒ YES	☐ NO	☐ NA

ANNUAL REPORT CERTIFICATION

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and 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 person 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.

Printed Name: Paul Manasjan

Signature: P. Manasjan Date: 6/24/09

Title: Director, Environmental Affairs Department

SAN DIEGO COUNTY
REGIONAL AIRPORT AUTHORITY

INTER-OFFICE COMMUNICATION

Date: June 27, 2003

To: Thella F. Bowens
President/CEO

From: Ted Sexton
Vice President, Operations

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

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

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

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

30 June '03
Date

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

SAN DIEGO INTERNATIONAL AIRPORT

Attachment 1

Explanations and Discussion of Analytical Data

2008 – 2009
ANNUAL REPORT
SAN DIEGO INTERNATIONAL AIRPORT (SDIA)
ATTACHMENT #1
REQUIRED EXPLANATIONS AND DISCUSSION OF ANALYTICAL DATA

1) Explanations to General Information (pages 1-7 of the Annual Report)

The following explanations are provided where necessary to comply with the General Annual Report format. The item numbers are presented in the order of the Annual Report.

E.5

In 2005, the Airport Authority initiated a project to analyze the hydrology of the airport and to evaluate the existing storm water sampling plan. The project resulted in the development of a new storm water sampling plan that replaced many of the previous sample sites and also added additional sampling locations. That sampling plan identified pollutants of concern and provided statistical power to future analysis of pollutant loads. The sampling plan was finalized in November 2005, and was implemented for the first time in the 2005-2006 wet season. The sampling plan divides the airport into fourteen drainage basins. Ten sites within those 14 basins have been chosen to represent the areas of industrial activity at the airport. The sampling plan was last reviewed and incorporated into the storm water management program in March 2008.

The ten area sample identifiers and a brief description of each location are:

Site ID	Location Description
C-B01-1	Grated inlet inside of zipper line, south of FBO, north of runway
C-B03-2	Grated inlet inside of zipper line, south of runway, near B1-D sign
C-B05-3	Grated inlet within the rental car holding lot
C-B05-4	Grated inlet, south of runway, north of generator yard
C-B06-5	Grated inlet southeast of control tower
C-B07-6	Inlet pipe in manhole west of oil-water separator in cargo area
C-B07-7	Grated inlet south of cargo area, west of West Wing
C-B08-8	Grated inlet northwest of Terminal 1 East, across from Gate 8
C-B12-9	Grated inlet in West RON
C-B09-10	Manhole near Terminal 2 Parking Entrance, on the north side of the entrance road

E.6

As noted in previous Annual Reports, program experience has led to the practical determination that sample collection can only be accomplished during storm events with a rainfall intensity of at least 0.10 inches per hour over at least a two-hour period. With ten sample sites identified for the monitoring program, practice has shown that more than one hour of time elapses between the initiation of sampling and the collection of the tenth sample. Such was the case again this year, and therefore, not all samples were collected during the first hour of discharge.

G.1

During the months of October 2008, January 2009, April 2009 and May 2009, there were no rain events occurring during daylight hours of sufficient intensity or duration to allow for

visual observations. The history of storm events during daylight hours for this reporting period is provided on Form 4.

2) Discussion of Analytical Results

The following information provides a brief discussion of the analytical data included with this Annual Report (see Form 1 and attached Analytical Lab Reports). A total of 20 samples were taken during the reporting period and all were compared to the USEPA Multi-Sector General Permit benchmarks. Only pollutants that had results that went above their benchmarks are discussed below. Based on this information, the Airport Authority continues to evaluate the effectiveness of the BMPs being implemented at the airport.

BASIC PARAMETERS

Basic parameters include pH, total suspended solids (TSS), specific conductance (SC), and oil and grease (O&G). One sample had a pH level below the lower benchmark value of 6.0 pH units.

METALS

The samples were analyzed for total aluminum, total and dissolved copper, total iron, total lead, and total and dissolved zinc. Eight samples had total aluminum concentrations above the benchmark of 0.750 mg/L. Samples above the benchmark ranged from 0.780 – 5.300 mg/L. Fourteen samples had total copper concentrations above the benchmark of 0.0636 mg/L. Samples above the benchmark ranged from 0.075 – 0.590 mg/L. Eleven samples had dissolved copper concentrations above the benchmark level of 0.0636 mg/L. Samples above the benchmark ranged from 0.073 – 0.490 mg/L. Eight samples had total iron concentrations at or above the benchmark of 1.0 mg/L. Samples above the benchmark ranged from 1.1 – 6.6 mg/L. Sixteen samples had total zinc concentrations above the benchmark level of 0.117 mg/L. Samples above the benchmark ranged from 0.170 – 1.200 mg/L. Fifteen samples had dissolved zinc concentrations above the benchmark level of 0.117 mg/L. Samples above the benchmark ranged from 0.120 – 0.490 mg/L.

OTHER PARAMETERS

Other parameters analyzed were methylene blue active substances (MBAS), diesel range organics (C10-C24), Jet-A, oil range organics (C10-C36), biological oxygen demand (BOD), chemical oxygen demand (COD), ammonia as N, and glycols. BOD exceeded the benchmark level of 30 mg/L in eleven of the samples. Samples above the benchmark ranged from 31 - 68 mg/L. COD exceeded the benchmark level of of 120 mg/L in nine of the samples. Samples at or above the benchmark ranged from 122 – 242 mg/L.

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ANNUAL REPORT
SAN DIEGO INTERNATIONAL AIRPORT (SDIA)
ATTACHMENT #1
REQUIRED EXPLANATIONS AND DISCUSSION OF ANALYTICAL DATA

3) Summary of Analytical Results

A total of 380 analyses were performed on the 20 samples taken during the 2008-2009 reporting period. Of these 380 analyses, a total of 93 samples had USEPA Multi-Sector Permit benchmark exceedances. The pollutants with USEPA Multi-Sector Permit Benchmark levels are listed in the table below with the percentage of times each was exceeded during the two sampling events. The pollutants that exceeded the benchmarks more than 50% of the time were BOD, total and dissolved copper, and total and dissolved zinc. Historically these pollutants have exceeded benchmark levels in previous monitoring reports and are consistent with the normal activities associated with day to day operations at an airport.

Pollutant	USEPA Multi Sector Permit Benchmark	Number of Analyses	Number of Exceedances	Exceedance Frequency
Ammonia as N	19 mg/L	20	0	0%
BOD	30 mg/L	20	11	55%
COD	120 mg/L	20	9	45%
Oil & Grease	15 mg/L	20	0	0%
pH	6.0 – 9.0 s.u.	20	1	5%
TSS	100 mg/L	20	0	0%
Al, Total	0.750 mg/L	20	8	40%
Cu, Total	0.0636 mg/L	20	14	70%
Cu, Dissolved	0.0636 mg/L	20	11	55%
Fe, Total	1 mg/L	20	8	40%
Pb, Total	0.0816 mg/L	20	0	0%
Zn, Total	0.117 mg/L	20	16	80%
Zn, Dissolved	0.177 mg/L	20	15	75%

Sites C-B01-1, C-B03-2, C-B05-4, C-B07-6, and C-B09-10 had the highest number of individual pollutant exceedances across the two sampling events. Exceedances ranged from 16 pollutants exceeding the benchmarks at Site C-B09-10 to 11 pollutants exceeding benchmarks at Sites C-B01-1 and C-B03-2. These areas are in the vicinity of the runway, taxiways, and ground service vehicle operations. The Airport Authority will use this data to re-evaluate the adequacy and effectiveness of the BMPs implemented near these sample sites, and to identify any needed improvements.

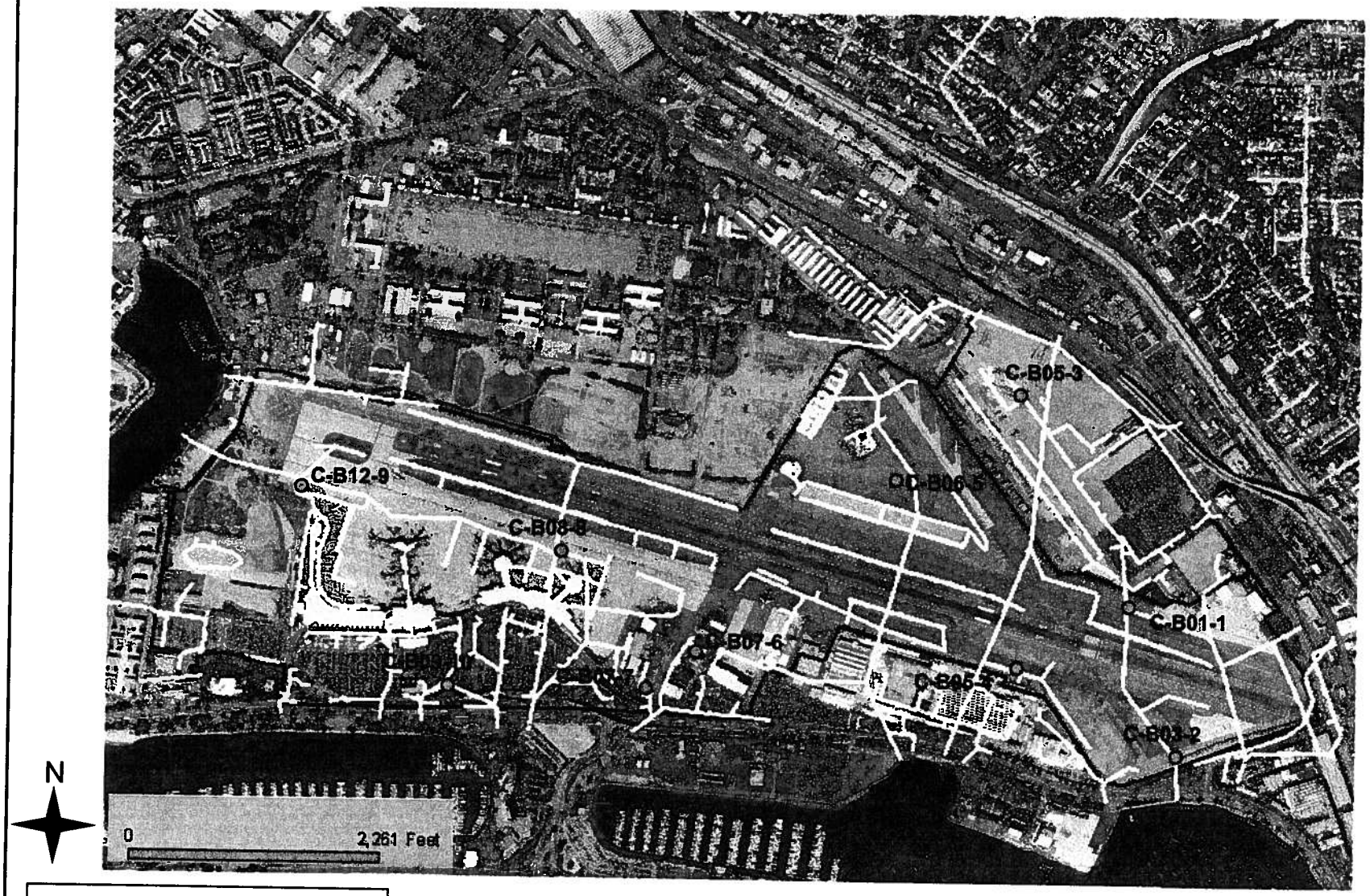
The analytical results for stormwater samples collected during the 2008-2009 reporting period are consistent with historic sampling data at the airport. Total copper and dissolved copper, total lead, total zinc and dissolved zinc have been consistently identified as contaminants of concern in previous runoff monitoring. In contrast to previous years, total lead had zero exceedances during the 2007/2008 and 2008/2009 reporting period. Past analysis has suggested that tire and brake pad wear from landing aircraft and/or vehicles may be a likely source of heavy metals. In response, the Airport Authority has continued to revise and develop their stormwater sampling plan to identify the sources of these heavy metals. The Airport Authority is simultaneously evaluating the BMPs currently in place to

control and eliminate heavy metal concentrations in stormwater runoff at the airport. In addition, a two year pilot project assessing the effectiveness of downspout filters for the removal of heavy metals was started during the 2008/2009 wet season and other pilot projects to address known storm water pollutants are in the planning phase.

Along with evaluating its sampling plan and BMPs, the Airport Authority also conducts site audits every 2 years of all its tenants and their respective activities. Audits were conducted 2005, 2007, and most recently in the spring of 2009. The site audit results serve as a means to aid in the identification of potential pollutant sources and help to evaluate the current BMPs implemented by the tenants. These efforts are intended to outline new, additional, or modified BMPs that can be implemented to control or eliminate contaminants and to provide storm water BMP education for tenants who perform activities with the potential to impact stormwater runoff. Overall, the 2007 and preliminary results of the 2009 audits indicated a continued improvement in BMP implementation at San Diego International Airport. The site audits identify deficiencies in BMP implementation and provide a list of recommended changes for the Authority's Stormwater Management Program. Revisions were made to the Authority's 2008 Storm Water Management Plan based on the findings from previous audits. As more storm water data is collected in the future, the increased statistical power of the dataset will be used to determine long-term adequacy and effectiveness of both BMPs and the runoff monitoring program.

Attachment 2

Storm Drain System and Sampling Locations Map



Legend

- Storm Drain Lines
- Sampling Locations
- Airport Boundary

Storm Drain System and Sampling Locations

San Diego International Airport

Attachment 3

Forms

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
FIRST STORM EVENT

· If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)

· When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

· Make additional copies of this form as necessary.

· If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank

NAME OF PERSON COLLECTING SAMPLES: Kris Green TITLE: Mactec, Consultant SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for First Storm Event									
			Basic Parameters				Other Parameters					
			pH	TSS	SC	O&G	MBAS	DIESEL RANGE ORGANICS (C10-C24)	JET-A	OIL RANGE ORGANICS (C22-C36)	TOTAL IRON Fe_t	TOTAL ZINC Zn_t
C-B01-1	11/26/2008 10:35 AM	11/25/2008 10:55 PM	6.51	10.0	178	1.20	0.150	0.36	ND	0.65	1.4	340
C-B03-2	11/26/2008 10:25 AM	11/25/2008 10:55 PM	5.81	7.00	267	1.00	0.140	0.46	ND	0.79	2.1	420
C-B05-3	11/26/2008 01:18 AM	11/25/2008 10:55 PM	7.45	31.0	633	1.10	0.120	ND	ND	0.86	4.2	220
C-B05-4	11/26/2008 10:18 AM	11/25/2008 10:55 PM	6.3	14.0	157.0	1.0	0.2	0.6	ND	1.0	1.2	430.0
C-B06-5	11/26/2008 10:45 AM	11/25/2008 10:55 PM	6.62	3.00	24.0	ND	ND	ND	ND	0.35	0.66	53
C-B07-6	11/26/2008 01:05 AM	11/25/2008 10:55 PM	6.13	8.00	217	1.40	0.230	1.9	ND	2.9	2.4	1200
		TEST REPORTING UNITS:	pH units	mg/L	µmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
		TEST METHOD DETECTION LIMIT:	0.100	1.00	0.100	1.00	0.0500	0.05	0.05	0.05	0.050	2.0
		TEST METHOD USED:	EPA 150.1	EPA 160.2	EPA 120.1	EPA 413.1	EPA 425.1	EPA 8015B	EPA 8015B	EPA 8015B	EPA 200.8	EPA 200.8
		ANALYZED BY (SELF/LAB):	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil and Grease MBAS - Methylene Blue Active Substances

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green TITLE: Mactec, Consultant SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for First Storm Event									
			Basic Parameters				Other Parameters					
			pH	TSS	SC	O&G	MBAS	DIESEL RANGE ORGANICS (C10-C24)	JET-A	OIL RANGE ORGANICS (C22-C36)	TOTAL IRON Fe_t	TOTAL ZINC Zn_t
C-B07-7	11/26/2008 09:05 AM	11/25/2008 10:55 PM	6.19	5.00	118	1.20	0.160	0.55	ND	1.2	0.81	630
C-B08-8	11/26/2008 05:15 AM	11/25/2008 10:55 PM	6.50	2.00	275	ND	0.140	1.2	ND	1.6	0.14	240
C-B12-9	11/26/2008 12:38 AM	11/25/2008 10:55 PM	6.68	1.00	71.0	ND	ND	0.44	ND	0.64	ND	19
C-B09-10	11/25/2008 11:58 PM	11/25/2008 10:55 PM	6.7	35.0	455.0	2.0	0.3	1.5	ND	3.0	6.6	520.0
TEST REPORTING UNITS:			pH units	mg/L	µmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
TEST METHOD DETECTION LIMIT:			0.100	1.00	0.100	1.00	0.0500	0.050	0.050	0.050	0.050	2.0
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 413.1	EPA 425.1	EPA 8015B	EPA 8015B	EPA 8015B	EPA 200.8	EPA 200.8
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease MBAS - Methylene Blue Active Substances

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
FIRST STORM EVENT

If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)

If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank

· When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

· Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green

TITLE: Mactec, Consultant

SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for First Storm Event								
			Other Parameters								
			DISSOLVED ZINC Zn_d	TOTAL LEAD Pb_t	TOTAL ALUMINUM Al_t	TOTAL COPPER Cu_t	DISSOLVED COPPER Cu_d	BOD[1]	COD	AMMONIA as N	GLYCOLS
C-B01-1	11/26/2008 10:35 AM	11/25/2008 10:55 PM	280	8.1	1400	270	220	26.0	105	1.40	ND
C-B03-2	11/26/2008 10:25 AM	11/25/2008 10:55 PM	340	29	2700	590	490	21.0	101	1.20	ND
C-B05-3	11/26/2008 01:18 AM	11/25/2008 10:55 PM	18	34.0	5300	40	16	18.0	90.0	1.00	ND
C-B05-4	11/26/2008 10:18 AM	11/25/2008 10:55 PM	340.0	5.0	1200.0	240.0	180.0	25.0	103.0	0.4	ND
C-B06-5	11/26/2008 10:45 AM	11/25/2008 10:55 PM	39	2.0	800	49	36	15.0	65.0	0.360	ND
C-B07-6	11/26/2008 01:05 AM	11/25/2008 10:55 PM	490	4.2	380	200	73	68.0	242	0.820	ND
		TEST REPORTING UNITS:	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
		TEST METHOD DETECTION LIMIT:	2.0	2.0	50	2.0	2.0	2.0	0.100	0.100	10
		TEST METHOD USED:	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 405.1	EPA 410.4	SM 4500-NH3	EPA 8015B
		ANALYZED BY (SELF/LAB):	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

ution factor ranged from 1 - 20

BOD - Biological Oxygen Demand

COD - Chemical Oxygen Demand

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FORM 1 - SAMPLING & ANALYSIS RESULTS
FIRST STORM EVENT

If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of he detection limit (example: <.05)

If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank

· When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

· Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green

TITLE: Mactec, Consultant

SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for First Storm Event								
			Other Parameters								
			DISSOLVED ZINC Zn_d	TOTAL LEAD Pb_t	TOTAL ALUMINUM Al_t	TOTAL COPPER Cu_t	DISSOLVED COPPER Cu_d	BOD[1]	COD	AMMONIA as N	GLYCOL S
C-B07-7	11/26/2008 09:05 AM	11/25/2008 10:55 PM	490	5.4	440	83	40	34.0	140	0.460	ND
C-B08-8	11/26/2008 05:15 AM	11/25/2008 10:55 PM	200	ND	90	90	57	37.0	138	0.290	ND
C-B12-9	11/26/2008 12:38 AM	11/25/2008 10:55 PM	18	ND	ND	8.6	5.8	10.2	33.0	0.500	ND
C-B09-10	11/25/2008 11:58 PM	11/25/2008 10:55 PM	270.0	21.0	3400	190.0	110.0	61.0	230.0	0.6	ND
TEST REPORTING UNITS:			µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
TEST METHOD DETECTION LIMIT:			2.0	2.0	50	2.0	2.0	2.0	0.100	0.100	10
TEST METHOD USED:			EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 405.1	EPA 410.4	SM 4500-NH3	EPA 8015B
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

BOD - Biological Oxygen Demand

COD - Chemical Oxygen Demand

[1]Dilution factor ranged from 1 - 20

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green TITLE: Mactec, Consultant SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for Second Storm Event									
			Basic Parameters				Other Parameters					
			pH	TSS	SC	O&G	MBAS	DIESEL RANGE ORGANICS (C10-C24)	JET-A	OIL RANGE ORGANICS (C22-C36)	TOTAL IRON Fe_t	TOTAL ZINC Zn_t
C-B01-1	12/16/2008 10:10 AM	12/14/2008 10:14 PM	6.62	10.0	300	ND	0.290	1.1	ND	1.3	0.49	290
C-B03-2	12/15/2008 10:22 AM	12/14/2008 10:14 PM	6.96	3.00	205	ND	0.120	ND	ND	0.48	0.24	210
C-B05-3	12/15/2008 12:34 AM	12/14/2008 10:14 PM	7.80	11.0	610	2.00	0.170	ND	ND	0.50	0.93	45
C-B05-4	12/16/2008 10:19 AM	12/14/2008 10:14 PM	6.48	6.00	791	2.0	0.340	1.4	ND	2.5	0.52	530
C-B06-5	12/15/2008 12:56 AM	12/14/2008 10:14 PM	6.78	19.0	342	ND	0.220	ND	ND	1.7	0.61	320
C-B07-6	12/15/2008 12:08 AM	12/14/2008 10:14 PM	6.68	15.0	165	ND	0.250	ND	ND	2.2	1.3	510
TEST REPORTING UNITS:			pH units	mg/L	µmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
TEST METHOD DETECTION LIMIT:			0.100	1.00	0.100	2.00	0.0500	0.050	0.050	0.050	0.050	2.0
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 1664	EPA 425.1	EPA 8015B	EPA 8015B	EPA 8015B	EPA 200.8	EPA 200.8
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease MBAS - Methylene Blue Active Substances

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green TITLE: Mactec, Consultant SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for Second Storm Event									
			Basic Parameters				Other Parameters					
			pH	TSS	SC	O&G	MBAS	DIESEL RANGE ORGANICS (C10-C24)	JET-A	OIL RANGE ORGANICS (C22-C36)	TOTAL IRON Fe_t	TOTAL ZINC Zn_t
C-B07-7	12/16/2008 10:39 AM	12/14/2008 10:14 PM	6.73	7.00	57.8	ND	0.120	ND	ND	0.90	0.41	200
C-B08-8[1]	12/16/2008 4:00 AM	12/14/2008 10:14 PM	6.63	4.00	144	ND	0.140	0.52	ND	0.92	ND	200
C-B12-9	12/14/2008 11:28 PM	12/14/2008 10:14 PM	7.65	1.00	31.9	ND	ND	ND	ND	1.9	0.080	68
C-B09-10	12/14/2008 10:50PM	12/14/2008 10:14 PM	7.21	8.00	395	ND	0.280	ND	ND	1.3	1.1	170
TEST REPORTING UNITS:			pH units	mg/L	µmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
TEST METHOD DETECTION LIMIT:			0.100	1.00	0.100	2.00	0.0500	0.050	0.050	0.050	0.050	2.0
TEST METHOD USED:			EPA 150.1	EPA 160.2	EPA 120.1	EPA 1664	EPA 425.1	EPA 8015B	EPA 8015B	EPA 8015B	EPA 200.8	EPA 200.8
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease MBAS - Methylene Blue Active Substances

[1]CB08-8 dilution factor is 1 for total iron and total zinc

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FORM 1 - SAMPLING & ANALYSIS RESULTS
SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green TITLE: Mactec, Consultant SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for Second Storm Event								
			Other Parameters								
			DISSOLVED ZINC Zn_d	TOTAL LEAD Pb_t	TOTAL ALUMINUM Al_t	TOTAL COPPER Cu_t	DISSOLVED COPPER Cu_d	BOD[1]	COD	AMMONIA as N	GLYCOLS
C-B01-1	12/16/2008 10:10 AM	12/14/2008 10:14 PM	270	4.1	450	260	240	31.0	116	1.64	ND
C-B03-2	12/15/2008 10:22 AM	12/14/2008 10:14 PM	190	16	190	190	160	16.0	68.0	1.74	ND
C-B05-3	12/15/2008 12:34 AM	12/14/2008 10:14 PM	10	7.6	980	21	15	33.0	122	0.84	ND
C-B05-4	12/16/2008 10:19 AM	12/14/2008 10:14 PM	490	3.3	440	480	440	55.0	193	1.82	ND
C-B06-5	12/15/2008 12:56 AM	12/14/2008 10:14 PM	290	3.0	560	380	350	42.0	166	2.16	ND
C-B07-6	12/15/2008 12:08 AM	12/14/2008 10:14 PM	420	6.5	230	170	100	38.0	127	1.93	ND
	TEST REPORTING UNITS:		µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
	TEST METHOD DETECTION LIMIT:		2.0	2.0	50	2.0	2.0	2.0	0.100	0.100	10.0
	TEST METHOD USED:		EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 405.1	EPA 410.4	SM 4500-NH3	EPA 8015B
	ANALYZED BY (SELF/LAB):		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

[1]Dilution factor ranged from 1 - 5

BOD - Biological Oxygen Demand

COD - Chemical Oxygen Demand

2008-2009 ANNUAL REPORT
FORM 1 - SAMPLING & ANALYSIS RESULTS
SECOND STORM EVENT

If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)

If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank

· When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.

· Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLES: Kris Green

TITLE: Mactec, Consultant

SIGNATURE:

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS for Second Storm Event								
			Other Parameters								
			DISSOLVED ZINC Zn_d	TOTAL LEAD Pb_t	TOTAL ALUMINUM Al_t	TOTAL COPPER Cu_t	DISSOLVED COPPER Cu_d	BOD[2]	COD	AMMONIA as N	GLYCOLS
C-B07-7	12/16/2008 10:39 AM	12/14/2008 10:14 PM	170	5.3	300	39	27	16.0	54.0	0.550	ND
C-B08-8[1]	12/16/2008 4:00 AM	12/14/2008 10:14 PM	140	ND	66	75	21	36.0	61.0	0.680	ND
C-B12-9	12/14/2008 11:28 PM	12/14/2008 10:14 PM	63	ND	ND	41	37	8.00	28.0	0.520	ND
C-B09-10	12/14/2008 10:50PM	12/14/2008 10:14 PM	120	5.6	780	89	74	52.0	234	2.40	ND
TEST REPORTING UNITS:			µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
TEST METHOD DETECTION LIMIT:			2.0	2.0	50	2.0	2.0	2.0	0.100	0.100	10.0
TEST METHOD USED:			EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 405.1	EPA 410.4	SM 4500-NH3	EPA 8015B
ANALYZED BY (SELF/LAB):			LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB

BOD - Biological Oxygen Demand

COD - Chemical Oxygen Demand

[1]CB08-8 dilution factor is 1 for dissolved zinc, total lead, total aluminum, total copper, and dissolved copper

[2]Dilution factor ranged from 1 - 5

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ANNUAL REPORT

SIDE A

FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

* Quarterly dry weather visual observations are required of each authorized NSWD.
- Observe each authorized NSWD source, impacted drainage area, and discharge location.
- Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** DATE: 08 / 12 / 08	**Observers Name:** Mayra Garcia **Title:** Staff Assistant **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?**	☐ **YES** ■ **NO** If **YES**, complete reverse side of this form.
QUARTER: **OCT.-DEC.** DATE: 11 / 18 - 21 / 08	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?**	☐ **YES** ■ **NO** If **YES**, complete reverse side of this form.
QUARTER: **JAN.-MARCH** DATE: 2 / 23 - 26 / 09	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?**	☐ **YES** ■ **NO** If **YES**, complete reverse side of this form.
QUARTER: **APRIL-JUNE** DATE: 4/ 3 – 13 / 09	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?**	☐ **YES** ■ **NO** If **YES**, complete reverse side of this form.

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SIDE B

FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD EXAMPLE: Air conditioner Units on Building C	NAME OF AUTHORIZED NSWD EXAMPLE: Air conditioner condensate	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					
__/__/__ __:__ ☐AM ☐PM					

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SIDE A

ANNUAL REPORT
FORM 3-QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Permit.
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas.
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** **DATE/TIME OF OBSERVATIONS** 08/12/08 9:24+ ■ AM ☐ PM	**Observers Name:** Mayra Garcia **Title:** Staff Assistant **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ■ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ■ YES ☐ NO	If **YES** to either question, complete reverse side.
QUARTER: **OCT.-DEC.** **DATE/TIME OF OBSERVATIONS** 11/18-21/08 11:20+ ■ AM ☐ PM	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ■ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ■ YES ☐ NO	If **YES** to either question, complete reverse side.
QUARTER: **JAN.-MARCH** **DATE/TIME OF OBSERVATIONS** 2/23-26/09 4: 38+ ☐ AM ■ PM	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ■ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ YES ■ NO	If **YES** to either question, complete reverse side.
QUARTER: **APRIL-JUNE** **DATE/TIME OF OBSERVATIONS** 4/3-13/09 1: 30+ ☐ AM ■ PM	**Observers Name:** Annie Hill **Title:** Associate Environmental Specialist **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ■ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ■ YES ☐ NO	If **YES** to either question, complete reverse side.

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ANNUAL REPORT

SIDE B
SIDE B

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
8/12/08 9:24 ■ AM ☐ PM	Used Absorbent	ASIG	Used oil absorbent was left out in several location in the ASIG operational area.	Resolved 8/18/08 Email sent to ASIG manager. Follow up inspection confirmed issue was resolved.
8/12/08 10:41 ■ AM ☐ PM	Used Absorbent	American Airlines	Used oil absorbent was left out at American Airlines Gate 32.	Resolved 8/18/08 Email sent to American Airlines manager. Follow up inspection confirmed issue was resolved.
11/18/08 11:20 ■ AM ☐ PM	Oil Staining	Landmark Aviation	In the Landmark operations area drip pans were being used but there were still stains around them.	Resolved 12/10/08 Met with new managers at Landmark and discussed storm water pollution and prevention.
11/18/08 11:30 ■ AM ☐ PM	Oil Staining	DHL/Airborne Express	In the operations area fresh oil stains and absorbent left out on an oil stain.	Resolved 12/22/08 Emailed DHL/Airborne Express managers and issue was addressed with staff.

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SIDE B

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
11/18/08 12:21 ☐ AM ■ PM	Trash Spill	United Airlines	Observed trash and debris scattered in the United maintenance shop yard.	Resolved 1/9/09 Emailed and met with manager from United to resolve/discuss stormwater issues.
11/21/08 10:36 ■ AM ☐ PM	Staining	Southwest Airlines	Staining and evidence of blue juice leaks at southwest gates.	12/30/08 Email was sent to Southwest manager. Secondary containment during lavatory services was added.
11/21/08 10:43 ■ AM ☐ PM	Trash Spill	HMS Host	Evidence of trash spills by grease trap and trash containers between Gates 10 and 11.	Resolved 12/3/08 Email was sent to HMS Host manager. Host ordered new trash containers.
11 /21/08 10:46 ■ AM ☐ PM	Soapy Water Discharge	United	By Gate 12 outdoor hand washing station was observed. The water bin to capture water contains degreaser, is not in a secure place, and is overflowing due to a leaking pipe.	Resolved 1/12/09 Met with United manager and discussed proper containment options. Leaking pipe was fixed. Follow up inspection confirmed that issue was resolved.

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
11/21/08 11:02 ■ AM ☐ PM	Sewage Spill	American Airlines (AA)	Blue juice leaking from the plane while the plane was hooked up to lavatory waste truck in the American Airlines operations area. Blue juice staining was also observed on the ramp near Gate 27.	Resolved 12/6/08 Email was sent to AA manager. Lavatory truck was repaired and spill prevention training was done with AA staff.
11/21/08 11:13 ■ AM ☐ PM	Trash Spill	DAL Global	Trash cart was observed dripping liquid between Gates 25 and 23.	Resolved 12/22/08 Email was sent to DAL manager. Trash cart was modified to prevent leaks.
11/21/08 11:20 ■ AM ☐ PM	Petroleum Spill	US Airways	Significant oil staining and fresh oil on ramp between US Air Gates 34 and 35.	Resolved 12/2/08 Emailed US Air manager. Spills were cleaned up and spill kits were updated.
11/21/08 11:32 ■ AM ☐ PM	Petroleum Spill	Delta Airlines	At Delta Gate 39 there was fresh oil staining and evidence of leftover absorbent from a previous oil spill.	Resolved 12/5/08 Email was sent to Delta manager. Inspections were increased to 2 per week, spill cleanup daily, stormwater training was increased.

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SIDE B

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
2/23/09 4:38 ☐ AM ■ PM	Trash Spill	HMS Host	Trash was observed overflowing from HMS Host trash containers by Gate 1.	Resolved 3/17/09 Email was sent to Host. Resolution was to add another person to monitor and empty the containers more often.
2/26/09 9:22 ■ AM ☐ PM	Vehicle Coolant Spill	Delta Airlines	Coolant spilled in Delta yard area during maintenance activities. It was reported to employees to clean up immediately.	Resolved 3/21/09 Spoke with Delta employees on site at time of incident and spill was cleaned up the same day. Follow up emails were also sent to Delta reps.
2/26/09 9:56 ■ AM ☐ PM	Trash Spill	US Air	Empty US Air trash carts were tipped over and liquid was leaking from them.	Resolved 3/17/09 emails sent to US Air reps, supplies were moved to area with better coverage/secondary containment
4 /3/09 1: 30 ☐ AM ■ PM	Fire Hydrant Water Discharge	Allied Aviation	Fire hydrant testing was previously done without, sweep/clean surfaces and/or berm storm drains to prevent discharge of pollutants from entering storm drains.	Resolved 5/12/09 Emailed Allied manager. Manager incorporated sweeping and covering drains into fire hydrant testing.

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.	DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
4 /13/09 10:30 ■ AM ☐ PM	Lavatory Deodorizer Spill	United Airlines	The container used to add "blue juice" to lavatory service trucks outside the maintenance shop was leaking/dripping.	Resolved 5/8/09 Email was sent to United manager. A secondary containment pan/spill pallet was ordered for the blue juice containers by the maintenance shop and contractor was reminded to clean up any spillage immediately.
/ / : ☐ AM ☐ PM				
/ / : ☐ AM ☐ PM				
/ / : ☐ AM ☐ PM				

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FORM 4 – MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: October 2008

Observers Name: Annie Molloy Hill

Title: Associate Environmental Specialist

Signature: Ann Molloy Hill

Time Discharge Began: None – no storms during daylight hours

Observation Time: N/A

Were Pollutants Observed: N/A
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	: A.M. / PM	☐ YES ☐ NO
C-B03-2	: A.M. / PM	☐ YES ☐ NO
C-B05-3	: A.M. / PM	☐ YES ☐ NO
C-B05-4	: A.M. / PM	☐ YES ☐ NO
C-B06-5	: A.M. / PM	☐ YES ☐ NO
C-B07-6	: A.M. / PM	☐ YES ☐ NO
C-B07-7	: A.M. / PM	☐ YES ☐ NO
C-B08-8	: A.M. / PM	☐ YES ☐ NO
C-B12-9	: A.M. / PM	☐ YES ☐ NO
C-B09-10	: A.M. / PM	☐ YES ☐ NO

Observation Date: November 4, 2008

Observers Name: Annie Molloy Hill

Title: Associate Environmental Specialist

Signatures: Ann Molloy Hill

Time Discharge Began: 8:50AM

Observation Time: 9:00AM – 11:00AM

Were Pollutants Observed: No
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	10: 27 A.M.	☐ YES ■ NO
C-B03-2	10:10 A.M.	☐ YES ■ NO
C-B05-3	9: 00 A.M.	☐ YES ■ NO
C-B05-4	10: 35 A.M.	☐ YES ■ NO
C-B06-5	9: 45 A.M.	☐ YES ■ NO
C-B07-6	10: 45 A.M.	☐ YES ■ NO
C-B07-7	9: 25 A.M.	☐ YES ■ NO
C-B08-8	10: 50 A.M.	☐ YES ■ NO
C-B12-9	11: 00 A.M.	☐ YES ■ NO
C-B09-10	9: 10 A.M.	☐ YES ■ NO

SIDE B

FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				
NA / / ____ : ☐ AM ☐ PM				

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FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

ADDITIONAL PAGES

Observation Date: December 15, 2008

Observers Name: Kris Green

Title: Mactec, Consultant

Signature:

Time Discharge Began: 12/15/08 8:01AM

Observation Time: 9 – 11:07 AM

Were Pollutants Observed: Yes
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	10: 32 A.M.	☐ YES ■ NO
C-B03-2	10: 19 A.M.	☐ YES ■ NO
C-B05-3	9: 00 A.M.	☐ YES ■ NO
C-B05-4	10: 37 A.M.	☐ YES ■ NO
C-B06-5	10: 11 A.M.	☐ YES ■ NO
C-B07-6	10: 55 A.M.	■ YES ☐ NO
C-B07-7	9: 38 A.M.	☐ YES ■ NO
C-B08-8	11: 01 A.M.	☐ YES ■ NO
C-B12-9	11: 07 A.M.	☐ YES ■ NO
C-B09-10	9: 10 A.M.	☐ YES ■ NO

Observation Date: January 2009

Observers Name: Annie Molloy Hill

Title: Associate Environmental Specialist

Signature:

Time Discharge Began: None – no storms during daylight hours

Observation Time: NA

Were Pollutants Observed: NA
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	: A.M. / PM	☐ YES ☐ NO
C-B03-2	: A.M. / PM	☐ YES ☐ NO
C-B05-3	: A.M. / PM	☐ YES ☐ NO
C-B05-4	: A.M. / PM	☐ YES ☐ NO
C-B06-5	: A.M. / PM	☐ YES ☐ NO
C-B07-6	: A.M. / PM	☐ YES ☐ NO
C-B07-7	: A.M. / PM	☐ YES ☐ NO
C-B08-8	: A.M. / PM	☐ YES ☐ NO
C-B12-9	: A.M. / PM	☐ YES ☐ NO
C-B09-10	: A.M. / PM	☐ YES ☐ NO

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SIDE B

FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
12/ 15/ 08 10:55 ■ AM □ PM	CB07-6	Discharge was cloudy, brown, with an oily sheen and a petroleum odor.	Site is connected to effluent from oil water separator.	Oil water separator was serviced on 3/20/09
NA / / : □ AM □ PM				
NA / / : □ AM □ PM				
NA / / : □ AM □ PM				
NA / / : □ AM □ PM				
NA / / : □ AM □ PM				

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FORM 4 – MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

ADDITIONAL PAGES

Observation Date: February 16, 2009

Observers Name: Kris Green

Title: MACTEC, Consultant

Signature:

Time Discharge Began: 10:15 AM

Observation Time: 10:33 AM – 12:15 PM

Were Pollutants Observed: No
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	10:38 AM	☐ YES ■ NO
C-B03-2	10:45 AM	☐ YES ■ NO
C-B05-3	12:07 PM	☐ YES ■ NO
C-B05-4	11:37 AM	☐ YES ■ NO
C-B06-5	11:47 AM	☐ YES ■ NO
C-B07-6	11:25 AM	☐ YES ■ NO
C-B07-7	12:15 PM	☐ YES ■ NO
C-B08-8	11:30 AM	☐ YES ■ NO
C-B12-9	11:08 AM	☐ YES ■ NO
C-B09-10	10:33 AM	☐ YES ■ NO

Observation Date: March 22, 2009

Observers Name: Goldy Thach

Title: MACTEC, Consultant

Signature: Goldy Thach

Time Discharge Began: 11:15AM

Observation Time: 11:40AM – 1:20PM

Were Pollutants Observed: No
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	12:40 PM	☐ YES ■ NO
C-B03-2	12:34 PM	☐ YES ■ NO
C-B05-3	1:15 PM	☐ YES ■ NO
C-B05-4	12:30 PM	☐ YES ■ NO
C-B06-5	12:45 PM	☐ YES ■ NO
C-B07-6	1: 20 PM	☐ YES ■ NO
C-B07-7	1:00 PM	☐ YES ■ NO
C-B08-8	12: 55 PM	☐ YES ■ NO
C-B12-9	12: 50 PM	☐ YES ■ NO
C-B09-10	11: 40 AM	☐ YES ■ NO

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FORM 4 – MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE B

ADDITIONAL PAGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				

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FORM 4 – MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

ADDITIONAL PAGES

Observation Date: April 2009

Observers Name: Annie Molloy Hill

Title: Associate Environmental Specialist

Signature:

Time Discharge Began: None – no storms during daylight hours

Observation Time: NA

Were Pollutants Observed: NA
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	: A.M. / PM	☐ YES ☐ NO
C-B03-2	: A.M. / PM	☐ YES ☐ NO
C-B05-3	: A.M. / PM	☐ YES ☐ NO
C-B05-4	: A.M. / PM	☐ YES ☐ NO
C-B06-5	: A.M. / PM	☐ YES ☐ NO
C-B07-6	: A.M. / PM	☐ YES ☐ NO
C-B07-7	: A.M. / PM	☐ YES ☐ NO
C-B08-8	: A.M. / PM	☐ YES ☐ NO
C-B12-9	: A.M. / PM	☐ YES ☐ NO
C-B09-10	: A.M. / PM	☐ YES ☐ NO

Observation Date: May 2009

Observers Name: Annie Molloy Hill

Title: Associate Environmental Specialist

Signature:

Time Discharge Began: None – no storms during daylight hours

Observation Time: NA

Were Pollutants Observed: NA
(If yes, complete reverse side)

Drainage Location Description	Observation Time	Were Pollutants Observed
C-B01-1	: A.M. / PM	☐ YES ☐ NO
C-B03-2	: A.M. / PM	☐ YES ☐ NO
C-B05-3	: A.M. / PM	☐ YES ☐ NO
C-B05-4	: A.M. / PM	☐ YES ☐ NO
C-B06-5	: A.M. / PM	☐ YES ☐ NO
C-B07-6	: A.M. / PM	☐ YES ☐ NO
C-B07-7	: A.M. / PM	☐ YES ☐ NO
C-B08-8	: A.M. / PM	☐ YES ☐ NO
C-B12-9	: A.M. / PM	☐ YES ☐ NO
C-B09-10	: A.M. / PM	☐ YES ☐ NO

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SIDE B

FORM 4 – MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				
NA / / : ☐ AM ☐ PM				

FORM 5 - ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

ALUATION DATE: April – May 2009 **INSPECTOR NAME:** Annie Molloy Hill **TITLE:** Associate Environmental Specialist **SIGNATURE:**

POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Allied Aviation (4/3/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐ YES ■ NO	If yes, to either question, complete the next two columns of this form	• Fuel cart and chemicals stored outside without proper secondary containment /cover • Outdoor material storage area without cover • No procedures in place to protect storm drains during fire hydrant testing	Allied was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/12/09.
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
AeroMexico (4/8/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐ YES ■ NO	If yes, to either question, complete the next two columns of this form	• Inoperable truck stored outside, being used for material storage	AeroMexico was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 4/28/09.
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
ATI (4/10/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐ YES ■ NO	If yes, to either question, complete the next two columns of this form	• Trash cans were full and did not have cover. • Stockpile of metal bars on a wooden pallet stored outdoor not under cover	ATI was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/8/09.
POTENTIAL POLLUTANT URCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
United Airlines (4/13/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐ YES ■ NO	If yes, to either question, complete the next two columns of this form	• Leaking lavatory deodorizer container outside the maintenance shop • Insufficient coverage for hazardous waste accumulation area outside the maintenance shop • Battery stored outside without sufficient secondary containment • Outdoor cleaning solution mixing area without sufficient secondary containment	United was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/8/09.

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FORM 5 - ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

UATION DATE: April – May 2009 **INSPECTOR NAME:** Annie Molloy Hill **TITLE:** Associate Environmental Specialist **SIGNATURE:**

POTENTIAL POLLUTANT URCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)				
Landmark Aviation (4/14/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation** • The waste/used oil tank is not sufficiently covered	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation** Landmark was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/12/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)				
US Airways (4/16/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation** • Some of the hazardous waste and waste oil storage drums were not properly labeled • Waste containers overly full and not properly covered • Spills/leaks observed in the waste oil accumulation area inside the maintenance shop • The ice machine was leaking water	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation** US Air was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/11/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)				
HMS Host (4/20/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation** • Secondary containment needed for the three 250-gallon grease containers stored outdoors, over head cover needed for one	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation** HMS Host was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/7/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)				
SDCRAA (4/22/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation** • Two storm drains had trash accumulated around them • Rusty metal pieces located next to storm drain	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation** Appropriate parties were notified by email and phone of needed cleanup actions. Confirmation that storm drains were cleaned was received on 6/12/09. Confirmation that metal pieces were moved was received on 6/16/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			

FORM 5 - ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

ALUATION DATE: April – May 2009 **INSPECTOR NAME:** Annie Molloy Hill **TITLE:** Associate Environmental Specialist **SIGNATURE:**

POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
ARFF (4/28/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	• Damaged sand bags next to the storm drain • Dumpsters located next to storm drain	ARFF was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 6/1/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT OURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
FedEx (4/29/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	• Dumpster lids open	FedEx was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 5/2/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT URCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
Southwest Airlines (5/7/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	• Several outdoor trash cans without lids • Materials/waste accumulation area needs proper cover and clean up	Southwest was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 6/16/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			
POTENTIAL POLLUTANT JRCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
Elite Line Services (ELS) (5/15/09)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ■ YES ☐ NO	If yes, to either question, complete the next two columns of this form	• Outdoor trash cans without lids • Waste/waste oil storage drums without proper labeling	ELS was notified of the deficiency by e-mail. Confirmation that deficiencies were abated was received on 6/2/09.
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐ YES ■ NO			

Attachment 4

Analytical Data for First and Second Storm Events

First Storm Event

SIERRA ANALYTICAL

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	12/18/08 11:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B01-1-11-26-08	0811552-01	Liquid	11/26/08 10:35	11/26/08 12:30
C-B03-2-11-26-08	0811552-02	Liquid	11/26/08 10:25	11/26/08 12:30
C-B05-3-11-26-08	0811552-03	Liquid	11/26/08 01:18	11/26/08 12:30
C-B05-4-11-26-08	0811552-04	Liquid	11/26/08 10:18	11/26/08 12:30
C-B06-5-11-26-08	0811552-05	Liquid	11/26/08 10:45	11/26/08 12:30
C-B07-6-11-26-08	0811552-06	Liquid	11/26/08 01:05	11/26/08 12:30
C-B07-7-11-26-08	0811552-07	Liquid	11/26/08 09:05	11/26/08 12:30
S-B08-14/C-B08-8-11-26-08	0811552-08	Liquid	11/26/08 05:15	11/26/08 12:30
S-B08-14/C-B08-8-11-26-08	0811552-09	Liquid	11/26/08 01:15	11/26/08 12:30
C-B12-9-11-26-08	0811552-10	Liquid	11/26/08 00:38	11/26/08 12:30
C-B09-10-11-25-08	0811552-11	Liquid	11/25/08 23:58	11/26/08 12:30
S-B08-1-11-26-08	0811552-13	Liquid	11/26/08 00:30	11/26/08 12:30
S-B08-2-11-26-08	0811552-15	Liquid	11/26/08 00:45	11/26/08 12:30
S-B11-4-11-26-08	0811552-18	Liquid	11/26/08 00:15	11/26/08 12:30
S-B06-12-11-26-08	0811552-19	Liquid	11/26/08 06:05	11/26/08 12:30
S-B06-12-11-26-08	0811552-20	Liquid	11/26/08 01:00	11/26/08 12:30
S-B12-13-11-26-08	0811552-21	Liquid	11/26/08 03:13	11/26/08 12:30
S-B12-13-11-26-08	0811552-22	Liquid	11/26/08 01:30	11/26/08 12:30
C-B09-10-11-26-08-DUP	0811552-23	Liquid	11/26/08 00:03	11/26/08 12:30
C-B12-9-11-26-08-BL	0811552-24	Liquid	11/26/08 00:38	11/26/08 12:30
S-B12-13-11-26-08-DUP	0811552-25	Liquid	11/26/08 03:13	11/26/08 12:30
S-B08-14-11-26-08-BL	0811552-26	Liquid	11/26/08 05:15	11/26/08 12:30
Composite S-B08-1/S-B08-2	0811552-27	Liquid	11/26/08 00:00	11/26/08 12:30
Composite S-B09-3/S-B11-4	0811552-28	Liquid	11/26/08 00:00	11/26/08 12:30

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

SIERRA ANALYTICAL

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:** 12/18/08 11:13

CASE NARRATIVE

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

SIERRA ANALYTICAL

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:** 12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-11-26-08 (0811552-01) Liquid	**Sampled: 11/26/08 10:35**		**Received: 11/26/08 12:30**						
Ammonia as N	**1.40**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**26.0**	20.0	"	10	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**105**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**178**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.150**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.20**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.51**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**10.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B03-2-11-26-08 (0811552-02) Liquid	**Sampled: 11/26/08 10:25**		**Received: 11/26/08 12:30**						
Ammonia as N	**1.20**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**21.0**	20.0	"	10	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**101**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**267**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.140**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.00**	1.00	"	"	"	"	"	EPA 413.1	
pH	**5.81**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**7.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B05-3-11-26-08 (0811552-03) Liquid	**Sampled: 11/26/08 01:18**		**Received: 11/26/08 12:30**						
Ammonia as N	**1.00**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**18.0**	4.00	"	2	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**90.0**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**633**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.120**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.10**	1.00	"	"	"	"	"	EPA 413.1	
pH	**7.45**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**31.0**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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	12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B05-4-11-26-08 (0811552-04) Liquid	**Sampled: 11/26/08 10:18**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.420**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**25.0**	10.0	"	5	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**103**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**157**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.180**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.00**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.33**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**14.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B06-5-11-26-08 (0811552-05) Liquid	**Sampled: 11/26/08 10:45**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.360**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**15.0**	6.00	"	3	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**65.0**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**24.0**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	ND	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	ND	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.62**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**3.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B07-6-11-26-08 (0811552-06) Liquid	**Sampled: 11/26/08 01:05**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.820**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**68.0**	40.0	"	20	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**242**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**217**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.230**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.40**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.13**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**8.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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	12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B07-7-11-26-08 (0811552-07) Liquid	**Sampled: 11/26/08 09:05**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.460**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**34.0**	8.00	"	4	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**140**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**118**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.160**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.20**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.19**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**5.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B08-14/C-B08-8-11-26-08 (0811552-08) Liquid	**Sampled: 11/26/08 05:15**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.290**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**37.0**	20.0	"	10	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**138**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**275**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.140**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	ND	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.50**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**2.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B12-9-11-26-08 (0811552-10) Liquid	**Sampled: 11/26/08 00:38**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.500**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**10.2**	2.00	"	"	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**33.0**	0.100	"	"	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**71.0**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	ND	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	ND	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.68**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**1.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

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.

SIERRA ANALYTICAL

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:** 12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B09-10-11-25-08 (0811552-11) Liquid	**Sampled: 11/25/08 23:58**		**Received: 11/26/08 12:30**						
Ammonia as N	**0.640**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**61.0**	20.0	"	10	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**230**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**455**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.250**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**2.00**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.68**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**35.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B06-12-11-26-08 (0811552-19) Liquid	**Sampled: 11/26/08 06:05**		**Received: 11/26/08 12:30**						
Biochemical Oxygen Demand	**13.0**	4.00	mg/L	2	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**70.0**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**66.3**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	ND	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.97**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**1.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B12-13-11-26-08 (0811552-21) Liquid	**Sampled: 11/26/08 03:13**		**Received: 11/26/08 12:30**						
Biochemical Oxygen Demand	**17.6**	4.00	mg/L	2	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**44.0**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**85.7**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	ND	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.47**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**1.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B09-10-11-26-08-DUP (0811552-23) Liquid	**Sampled: 11/26/08 00:03 Received: 11/26/08 12:30**								
Ammonia as N	**61.0**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	**59.0**	20.0	"	10	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**238**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**290**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	**0.230**	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	**1.80**	1.00	"	"	"	"	"	EPA 413.1	
pH	**6.35**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**32.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B12-9-11-26-08-BL (0811552-24) Liquid	**Sampled: 11/26/08 00:38 Received: 11/26/08 12:30**								
Ammonia as N	**0.100**	0.100	mg/L	1	B8L0813	11/26/08	11/26/08 13:45	SM 4500-NH3	
Biochemical Oxygen Demand	ND	2.00	"	"	"	"	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**10.0**	0.100	"	"	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**7.08**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Methylene Blue Active Substances	ND	0.0500	mg/L	"	"	"	"	EPA 425.1	
Oil & Grease	ND	1.00	"	"	"	"	"	EPA 413.1	
pH	**7.08**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	ND	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B12-13-11-26-08-DUP (0811552-25) Liquid	**Sampled: 11/26/08 03:13 Received: 11/26/08 12:30**								
Biochemical Oxygen Demand	**10.9**	2.00	mg/L	1	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**43.0**	0.100	"	"	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**85.0**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	ND	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.34**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	ND	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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	12/18/08 11:13

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-14-11-26-08-BL (0811552-26) Liquid Sampled: 11/26/08 05:15 Received: 11/26/08 12:30									
Biochemical Oxygen Demand	ND	2.00	mg/L	1	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**7.00**	0.100	"	"	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**4.11**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	ND	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.98**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	ND	1.00	mg/L	"	"	"	"	EPA 160.2	
Composite S-B08-1/S-B08-2 (0811552-27) Liquid Sampled: 11/26/08 00:00 Received: 11/26/08 12:30									
Biochemical Oxygen Demand	**29.0**	20.0	mg/L	10	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**118**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**69.1**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	**1.10**	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.29**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**15.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
Composite S-B09-3/S-B11-4 (0811552-28) Liquid Sampled: 11/26/08 00:00 Received: 11/26/08 12:30									
Biochemical Oxygen Demand	**26.0**	20.0	mg/L	10	B8L0813	11/26/08	12/01/08 13:45	EPA 405.1	
Chemical Oxygen Demand	**110**	0.100	"	1	"	"	11/26/08 13:45	EPA 410.4	
Specific Conductance (EC)	**113**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Oil & Grease	**1.20**	1.00	mg/L	"	"	"	"	EPA 413.1	
pH	**6.18**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**17.0**	1.00	mg/L	"	"	"	"	EPA 160.2	

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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:** 12/18/08 11:13

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-11-26-08 (0811552-01) Liquid	**Sampled: 11/26/08 10:35**		**Received: 11/26/08 12:30**						
Aluminum	**1400**	50	µg/L	2	B8L0113	12/01/08	12/02/08 20:16	EPA 200.8	
Copper	**270**	2.0	"	"	"	"	"	"	
Iron	**1.4**	0.050	mg/L	"	"	"	"	"	
Lead	**8.1**	2.0	µg/L	"	"	"	"	"	
Zinc	**340**	2.0	"	"	"	"	"	"	
C-B03-2-11-26-08 (0811552-02) Liquid	**Sampled: 11/26/08 10:25**		**Received: 11/26/08 12:30**						
Aluminum	**2700**	50	µg/L	2	B8L0113	12/01/08	12/02/08 20:19	EPA 200.8	
Copper	**590**	2.0	"	"	"	"	"	"	
Iron	**2.1**	0.050	mg/L	"	"	"	"	"	
Lead	**29**	2.0	µg/L	"	"	"	"	"	
Zinc	**420**	2.0	"	"	"	"	"	"	
C-B05-3-11-26-08 (0811552-03) Liquid	**Sampled: 11/26/08 01:18**		**Received: 11/26/08 12:30**						
Aluminum	**5300**	50	µg/L	2	B8L0113	12/01/08	12/02/08 20:23	EPA 200.8	
Copper	**40**	2.0	"	"	"	"	"	"	
Iron	**4.2**	0.050	mg/L	"	"	"	"	"	
Lead	**34**	2.0	µg/L	"	"	"	"	"	
Zinc	**220**	2.0	"	"	"	"	"	"	
C-B05-4-11-26-08 (0811552-04) Liquid	**Sampled: 11/26/08 10:18**		**Received: 11/26/08 12:30**						
Aluminum	**1200**	50	µg/L	2	B8L0113	12/01/08	12/02/08 20:26	EPA 200.8	
Copper	**240**	2.0	"	"	"	"	"	"	
Iron	**1.2**	0.050	mg/L	"	"	"	"	"	
Lead	**5.0**	2.0	µg/L	"	"	"	"	"	
Zinc	**430**	2.0	"	"	"	"	"	"	

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
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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:** 12/18/08 11:13

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B06-5-11-26-08 (0811552-05) Liquid	**Sampled: 11/26/08 10:45**	**Received: 11/26/08 12:30**							
Aluminum	**800**	50	µg/L	2	B8L0113	12/01/08	12/02/08 20:30	EPA 200.8	
Copper	**49**	2.0	"	"	"	"	"	"	
Iron	**0.66**	0.050	mg/L	"	"	"	"	"	
Lead	**2.0**	2.0	µg/L	"	"	"	"	"	
Zinc	**53**	2.0	"	"	"	"	"	"	
C-B07-6-11-26-08 (0811552-06) Liquid	**Sampled: 11/26/08 01:05**	**Received: 11/26/08 12:30**							
Aluminum	**380**	50	µg/L	2	B8L0114	12/01/08	12/02/08 20:41	EPA 200.8	
Copper	**200**	2.0	"	"	"	"	"	"	
Iron	**2.4**	0.050	mg/L	"	"	"	"	"	
Lead	**4.2**	2.0	µg/L	"	"	"	"	"	
Zinc	**1200**	2.0	"	"	"	"	"	"	
C-B07-7-11-26-08 (0811552-07) Liquid	**Sampled: 11/26/08 09:05**	**Received: 11/26/08 12:30**							
Aluminum	**440**	50	µg/L	2	B8L0114	12/01/08	12/02/08 20:59	EPA 200.8	
Copper	**83**	2.0	"	"	"	"	"	"	
Iron	**0.81**	0.050	mg/L	"	"	"	"	"	
Lead	**5.4**	2.0	µg/L	"	"	"	"	"	
Zinc	**630**	2.0	"	"	"	"	"	"	
S-B08-14/C-B08-8-11-26-08 (0811552-08) Liquid	**Sampled: 11/26/08 05:15**	**Received: 11/26/08 12:30**							
Aluminum	**90**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:02	EPA 200.8	
Copper	**90**	2.0	"	"	"	"	"	"	
Iron	**0.14**	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**240**	2.0	"	"	"	"	"	"	

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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:** 12/18/08 11:13

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B12-9-11-26-08 (0811552-10) Liquid	**Sampled: 11/26/08 00:38**		**Received: 11/26/08 12:30**						
Aluminum	ND	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:06	EPA 200.8	
Copper	**8.6**	2.0	"	"	"	"	"	"	
Iron	ND	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**19**	2.0	"	"	"	"	"	"	
C-B09-10-11-25-08 (0811552-11) Liquid	**Sampled: 11/25/08 23:58**		**Received: 11/26/08 12:30**						
Aluminum	**3400**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:09	EPA 200.8	
Copper	**190**	2.0	"	"	"	"	"	"	
Iron	**6.6**	0.050	mg/L	"	"	"	"	"	
Lead	**21**	2.0	µg/L	"	"	"	"	"	
Zinc	**520**	2.0	"	"	"	"	"	"	
S-B06-12-11-26-08 (0811552-19) Liquid	**Sampled: 11/26/08 06:05**		**Received: 11/26/08 12:30**						
Aluminum	**51**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:13	EPA 200.8	
Copper	**15**	2.0	"	"	"	"	"	"	
Iron	**0.069**	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**63**	2.0	"	"	"	"	"	"	
S-B12-13-11-26-08 (0811552-21) Liquid	**Sampled: 11/26/08 03:13**		**Received: 11/26/08 12:30**						
Aluminum	**62**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:16	EPA 200.8	
Copper	**40**	2.0	"	"	"	"	"	"	
Iron	**0.098**	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**88**	2.0	"	"	"	"	"	"	

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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:** 12/18/08 11:13

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B09-10-11-26-08-DUP (0811552-23) Liquid	**Sampled: 11/26/08 00:03 Received: 11/26/08 12:30**								
Aluminum	**3000**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:20	EPA 200.8	
Copper	**130**	2.0	"	"	"	"	"	"	
Iron	**4.4**	0.050	mg/L	"	"	"	"	"	
Lead	**19**	2.0	µg/L	"	"	"	"	"	
Zinc	**450**	2.0	"	"	"	"	"	"	
C-B12-9-11-26-08-BL (0811552-24) Liquid	**Sampled: 11/26/08 00:38 Received: 11/26/08 12:30**								
Aluminum	ND	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:24	EPA 200.8	
Copper	ND	2.0	"	"	"	"	"	"	
Iron	ND	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	ND	2.0	"	"	"	"	"	"	
S-B12-13-11-26-08-DUP (0811552-25) Liquid	**Sampled: 11/26/08 03:13 Received: 11/26/08 12:30**								
Aluminum	ND	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:27	EPA 200.8	
Copper	**18**	2.0	"	"	"	"	"	"	
Iron	ND	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**47**	2.0	"	"	"	"	"	"	
S-B08-14-11-26-08-BL (0811552-26) Liquid	**Sampled: 11/26/08 05:15 Received: 11/26/08 12:30**								
Aluminum	ND	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:45	EPA 200.8	
Copper	ND	2.0	"	"	"	"	"	"	
Iron	ND	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	ND	2.0	"	"	"	"	"	"	

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MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	12/18/08 11:13

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Composite S-B08-1/S-B08-2 (0811552-27) Liquid	**Sampled: 11/26/08 00:00**		**Received: 11/26/08 12:30**						
Aluminum	**960**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:56	EPA 200.8	
Copper	**43**	2.0	"	"	"	"	"	"	
Iron	**1.1**	0.050	mg/L	"	"	"	"	"	
Lead	**5.1**	2.0	µg/L	"	"	"	"	"	
Zinc	**200**	2.0	"	"	"	"	"	"	
Composite S-B09-3/S-B11-4 (0811552-28) Liquid	**Sampled: 11/26/08 00:00**		**Received: 11/26/08 12:30**						
Aluminum	**1400**	50	µg/L	2	B8L0114	12/01/08	12/02/08 21:59	EPA 200.8	
Copper	**44**	2.0	"	"	"	"	"	"	
Iron	**1.6**	0.050	mg/L	"	"	"	"	"	
Lead	**13**	2.0	µg/L	"	"	"	"	"	
Zinc	**240**	2.0	"	"	"	"	"	"	

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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:** 12/18/08 11:13

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-11-26-08 (0811552-01) Liquid	**Sampled: 11/26/08 10:35**		**Received: 11/26/08 12:30**						
Copper	**220**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:04	EPA 200.8	
Zinc	**280**	2.0	"	"	"	"	"	"	
C-B03-2-11-26-08 (0811552-02) Liquid	**Sampled: 11/26/08 10:25**		**Received: 11/26/08 12:30**						
Copper	**490**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:12	EPA 200.8	
Zinc	**340**	2.0	"	"	"	"	"	"	
C-B05-3-11-26-08 (0811552-03) Liquid	**Sampled: 11/26/08 01:18**		**Received: 11/26/08 12:30**						
Copper	**16**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:14	EPA 200.8	
Zinc	**18**	2.0	"	"	"	"	"	"	
C-B05-4-11-26-08 (0811552-04) Liquid	**Sampled: 11/26/08 10:18**		**Received: 11/26/08 12:30**						
Copper	**180**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:17	EPA 200.8	
Zinc	**340**	2.0	"	"	"	"	"	"	
C-B06-5-11-26-08 (0811552-05) Liquid	**Sampled: 11/26/08 10:45**		**Received: 11/26/08 12:30**						
Copper	**36**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:20	EPA 200.8	
Zinc	**39**	2.0	"	"	"	"	"	"	
C-B07-6-11-26-08 (0811552-06) Liquid	**Sampled: 11/26/08 01:05**		**Received: 11/26/08 12:30**						
Copper	**73**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:23	EPA 200.8	
Zinc	**490**	2.0	"	"	"	"	"	"	
C-B07-7-11-26-08 (0811552-07) Liquid	**Sampled: 11/26/08 09:05**		**Received: 11/26/08 12:30**						
Copper	**40**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:25	EPA 200.8	
Zinc	**490**	2.0	"	"	"	"	"	"	

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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:** 12/18/08 11:13

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-14/C-B08-8-11-26-08 (0811552-08) Liquid Sampled: 11/26/08 05:15 Received: 11/26/08 12:30									
Copper	**57**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:28	EPA 200.8	
Zinc	**200**	2.0	"	"	"	"	"	"	
C-B12-9-11-26-08 (0811552-10) Liquid Sampled: 11/26/08 00:38 Received: 11/26/08 12:30									
Copper	**5.8**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:36	EPA 200.8	
Zinc	**18**	2.0	"	"	"	"	"	"	
C-B09-10-11-25-08 (0811552-11) Liquid Sampled: 11/25/08 23:58 Received: 11/26/08 12:30									
Copper	**110**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:39	EPA 200.8	
Zinc	**270**	2.0	"	"	"	"	"	"	
S-B06-12-11-26-08 (0811552-19) Liquid Sampled: 11/26/08 06:05 Received: 11/26/08 12:30									
Copper	**9.3**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:47	EPA 200.8	
Zinc	**47**	2.0	"	"	"	"	"	"	
S-B12-13-11-26-08 (0811552-21) Liquid Sampled: 11/26/08 03:13 Received: 11/26/08 12:30									
Copper	**23**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:56	EPA 200.8	
Zinc	**82**	2.0	"	"	"	"	"	"	
C-B09-10-11-26-08-DUP (0811552-23) Liquid Sampled: 11/26/08 00:03 Received: 11/26/08 12:30									
Copper	**72**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 17:58	EPA 200.8	
Zinc	**230**	2.0	"	"	"	"	"	"	
C-B12-9-11-26-08-BL (0811552-24) Liquid Sampled: 11/26/08 00:38 Received: 11/26/08 12:30									
Copper	ND	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 18:01	EPA 200.8	
Zinc	ND	2.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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:** 12/18/08 11:13

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B12-13-11-26-08-DUP (0811552-25) Liquid Sampled: 11/26/08 03:13 Received: 11/26/08 12:30									
Copper	**14**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 18:09	EPA 200.8	
Zinc	**44**	2.0	"	"	"	"	"	"	
Composite S-B08-1/S-B08-2 (0811552-27) Liquid Sampled: 11/26/08 00:00 Received: 11/26/08 12:30									
Copper	**22**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 18:14	EPA 200.8	
Zinc	**120**	2.0	"	"	"	"	"	"	
Composite S-B09-3/S-B11-4 (0811552-28) Liquid Sampled: 11/26/08 00:00 Received: 11/26/08 12:30									
Copper	**26**	2.0	µg/L	2	B8L0222	12/02/08	12/03/08 18:17	EPA 200.8	
Zinc	**140**	2.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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	12/18/08 11:13

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-11-26-08 (0811552-01) Liquid	**Sampled: 11/26/08 10:35**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**0.36**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 15:08	EPA 8015B	D-40
Surrogate: o-Terphenyl		*63.0 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*63.0 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.65**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*63.0 %*	*60-175*		"	"	*12/09/08 15:08*	"	
C-B03-2-11-26-08 (0811552-02) Liquid	**Sampled: 11/26/08 10:25**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**0.46**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 15:44	EPA 8015B	D-40
Surrogate: o-Terphenyl		*69.0 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*69.0 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.79**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*69.0 %*	*60-175*		"	"	*12/09/08 15:44*	"	
C-B05-3-11-26-08 (0811552-03) Liquid	**Sampled: 11/26/08 01:18**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1609	12/08/08	12/10/08 11:23	EPA 8015B	
Surrogate: o-Terphenyl		*74.0 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*74.0 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.86**	0.050	"	"	"	"	12/16/08 09:36	"	
Surrogate: o-Terphenyl		*74.0 %*	*60-175*		"	"	*12/10/08 11:23*	"	
C-B05-4-11-26-08 (0811552-04) Liquid	**Sampled: 11/26/08 10:18**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**0.62**	0.050	mg/L	1	B8L1609	12/08/08	12/10/08 09:38	EPA 8015B	D-40
Surrogate: o-Terphenyl		*81.5 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*81.5 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.0**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*81.5 %*	*60-175*		"	"	*12/10/08 09:38*	"	

SIERRA ANALYTICAL

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	12/18/08 11:13

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B06-5-11-26-08 (0811552-05) Liquid	**Sampled: 11/26/08 10:45**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 16:55	EPA 8015B	
Surrogate: o-Terphenyl		*73.7 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*73.7 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.35**	0.050	"	"	"	"	12/16/08 09:36	"	
Surrogate: o-Terphenyl		*73.7 %*	*60-175*		"	"	*12/09/08 16:55*	"	
C-B07-6-11-26-08 (0811552-06) Liquid	**Sampled: 11/26/08 01:05**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**1.9**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 18:41	EPA 8015B	D-40
Surrogate: o-Terphenyl		*108 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*108 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**2.9**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*108 %*	*60-175*		"	"	*12/09/08 18:41*	"	
C-B07-7-11-26-08 (0811552-07) Liquid	**Sampled: 11/26/08 09:05**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**0.55**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 19:17	EPA 8015B	D-40
Surrogate: o-Terphenyl		*87.4 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*87.4 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.2**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*87.4 %*	*60-175*		"	"	*12/09/08 19:17*	"	
S-B08-14/C-B08-8-11-26-08 (0811552-08) Liquid	**Sampled: 11/26/08 05:15**	**Received: 11/26/08 12:30**							
Diesel Range Organics (C10-C24)	**1.2**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 18:06	EPA 8015B	D-40
Surrogate: o-Terphenyl		*65.3 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*65.3 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.6**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*65.3 %*	*60-175*		"	"	*12/09/08 18:06*	"	

SIERRA ANALYTICAL

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	12/18/08 11:13

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B12-9-11-26-08 (0811552-10) Liquid	**Sampled: 11/26/08 00:38 Received: 11/26/08 12:30**								
Diesel Range Organics (C10-C24)	**0.44**	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 17:31	EPA 8015B	D-40
Surrogate: o-Terphenyl		*64.7 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*64.7 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.64**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*64.7 %*	*60-175*		"	"	*12/09/08 17:31*	"	
C-B09-10-11-25-08 (0811552-11) Liquid	**Sampled: 11/25/08 23:58 Received: 11/26/08 12:30**								
Diesel Range Organics (C10-C24)	**1.5**	0.050	mg/L	1	B8L1609	12/08/08	12/10/08 10:12	EPA 8015B	D-40
Surrogate: o-Terphenyl		*140 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*140 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**3.0**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*140 %*	*60-175*		"	"	*12/10/08 10:12*	"	
C-B09-10-11-26-08-DUP (0811552-23) Liquid	**Sampled: 11/26/08 00:03 Received: 11/26/08 12:30**								
Diesel Range Organics (C10-C24)	**0.79**	0.050	mg/L	1	B8L1609	12/08/08	12/10/08 10:47	EPA 8015B	D-40
Surrogate: o-Terphenyl		*136 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*136 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**2.4**	0.050	"	"	"	"	12/16/08 09:36	"	D-41
Surrogate: o-Terphenyl		*136 %*	*60-175*		"	"	*12/10/08 10:47*	"	
C-B12-9-11-26-08-BL (0811552-24) Liquid	**Sampled: 11/26/08 00:38 Received: 11/26/08 12:30**								
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1609	12/08/08	12/09/08 14:32	EPA 8015B	
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	ND	0.050	"	"	"	"	12/16/08 09:36	"	
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	*12/09/08 14:32*	"	

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.

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MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA. 92123	Project Manager: Amanda Archenhold	12/18/08 11:13

Metals 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 B8L0113 - EPA 200 Series										
Blank (B8L0113-BLK1)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
Blank (B8L0113-BLK2)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L0113-BS1)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	94.6	50	µg/L	100		94.6	85-115			
Copper	105	2.0	"	100		105	85-115			
Iron	0.926	0.050	mg/L	1.00		92.6	85-115			
Lead	97.5	2.0	µg/L	100		97.5	85-115			
Zinc	101	2.0	"	100		101	85-115			
LCS (B8L0113-BS2)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	98.8	50	µg/L	100		98.8	85-115			
Copper	102	2.0	"	100		102	85-115			
Iron	0.944	0.050	mg/L	1.00		94.4	85-115			
Lead	98.5	2.0	µg/L	100		98.5	85-115			
Zinc	98.2	2.0	"	100		98.2	85-115			
Matrix Spike (B8L0113-MS1)	**Source: 0811408-01**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	529	50	µg/L	100	420	109	70-130			
Copper	162	2.0	"	100	61	101	70-130			
Iron	1.43	0.050	mg/L	1.00	0.51	92.0	70-130			
Lead	103	2.0	µg/L	100	7.4	95.6	70-130			
Zinc	803	2.0	"	100	710	93.0	70-130			

SIERRA ANALYTICAL

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	12/18/08 11:13

Metals 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 B8L0113 - EPA 200 Series										
Matrix Spike (B8L0113-MS2)	**Source: 0811534-02**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	113	50	µg/L	100	17	96.0	70-130			
Copper	240	2.0	"	100	140	100	70-130			
Iron	0.964	0.050	mg/L	1.00	ND	96.4	70-130			
Lead	99.8	2.0	µg/L	100	1.6	98.2	70-130			
Zinc	694	2.0	"	100	590	104	70-130			
Matrix Spike Dup (B8L0113-MSD1)	**Source: 0811408-01**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	362	50	µg/L	100	420	NR	70-130	37.5	20	QM-07
Copper	158	2.0	"	100	61	97.0	70-130	2.50	20	
Iron	1.37	0.050	mg/L	1.00	0.51	86.0	70-130	4.29	20	
Lead	103	2.0	µg/L	100	7.4	95.6	70-130	0.00	20	
Zinc	786	2.0	"	100	710	76.0	70-130	2.14	20	
Matrix Spike Dup (B8L0113-MSD2)	**Source: 0811534-02**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	107	50	µg/L	100	17	90.0	70-130	5.45	20	
Copper	240	2.0	"	100	140	100	70-130	0.00	20	
Iron	0.929	0.050	mg/L	1.00	ND	92.9	70-130	3.70	20	
Lead	97.9	2.0	µg/L	100	1.6	96.3	70-130	1.92	20	
Zinc	694	2.0	"	100	590	104	70-130	0.00	20	
Batch B8L0114 - EPA 200 Series										
Blank (B8L0114-BLK1)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SIERRA ANALYTICAL

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	12/18/08 11:13

Metals 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 B8L0114 - EPA 200 Series										
Blank (B8L0114-BLK2)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L0114-BS1)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	101	50	µg/L	100		101	85-115			
Copper	103	2.0	"	100		103	85-115			
Iron	0.970	0.050	mg/L	1.00		97.0	85-115			
Lead	99.4	2.0	µg/L	100		99.4	85-115			
Zinc	96.2	2.0	"	100		96.2	85-115			
LCS (B8L0114-BS2)				Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	97.6	50	µg/L	100		97.6	85-115			
Copper	97.6	2.0	"	100		97.6	85-115			
Iron	0.951	0.050	mg/L	1.00		95.1	85-115			
Lead	95.1	2.0	µg/L	100		95.1	85-115			
Zinc	109	2.0	"	100		109	85-115			
Matrix Spike (B8L0114-MS1)	**Source: 0811552-06**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	635	50	µg/L	100	380	255	70-130			QM-07
Copper	312	2.0	"	100	200	112	70-130			
Iron	3.54	0.050	mg/L	1.00	2.4	114	70-130			
Lead	100	2.0	µg/L	100	4.2	95.8	70-130			
Zinc	1380	2.0	"	100	1200	180	70-130			QM-07
Matrix Spike (B8L0114-MS2)	**Source: 0811552-26**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	98.2	50	µg/L	100	ND	98.2	70-130			
Copper	97.5	2.0	"	100	0.58	96.9	70-130			
Iron	0.940	0.050	mg/L	1.00	ND	94.0	70-130			
Lead	94.7	2.0	µg/L	100	ND	94.7	70-130			
Zinc	111	2.0	"	100	ND	111	70-130			

SIERRA ANALYTICAL

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	12/18/08 11:13

Metals 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 B8L0114 - EPA 200 Series										
Matrix Spike Dup (B8L0114-MSD1)	**Source: 0811552-06**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	614	50	µg/L	100	380	234	70-130	3.36	20	QM-07
Copper	310	2.0	"	100	200	110	70-130	0.643	20	
Iron	3.46	0.050	mg/L	1.00	2.4	106	70-130	2.29	20	
Lead	99.6	2.0	µg/L	100	4.2	95.4	70-130	0.401	20	
Zinc	1360	2.0	"	100	1200	160	70-130	1.46	20	QM-07
Matrix Spike Dup (B8L0114-MSD2)	**Source: 0811552-26**			Prepared: 12/01/08 Analyzed: 12/02/08						
Aluminum	97.1	50	µg/L	100	ND	97.1	70-130	1.13	20	
Copper	97.7	2.0	"	100	0.58	97.1	70-130	0.205	20	
Iron	0.941	0.050	mg/L	1.00	ND	94.1	70-130	0.106	20	
Lead	95.4	2.0	µg/L	100	ND	95.4	70-130	0.736	20	
Zinc	112	2.0	"	100	ND	112	70-130	0.897	20	

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MACTEC Engineering & Consulting	Project: San Diego Airport	
9177 Sky Park Court Suite A	Project Number: [none]	**Reported:**
San Diego CA, 92123	Project Manager: Amanda Archenhold	12/18/08 11:13

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 B8L0222 - EPA 200 Series										
Blank (B8L0222-BLK1)				Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
Blank (B8L0222-BLK2)				Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L0222-BS1)				Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	95.7	2.0	µg/L	100		95.7	85-115			
Zinc	106	2.0	"	100		106	85-115			
LCS (B8L0222-BS2)				Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	95.4	2.0	µg/L	100		95.4	85-115			
Zinc	105	2.0	"	100		105	85-115			
Matrix Spike (B8L0222-MS1)	**Source: 0811552-01**			Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	305	2.0	µg/L	100	220	85.0	70-130			
Zinc	377	2.0	"	100	280	97.0	70-130			
Matrix Spike (B8L0222-MS2)	**Source: 0811552-19**			Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	106	2.0	µg/L	100	9.3	96.7	70-130			
Zinc	150	2.0	"	100	47	103	70-130			
Matrix Spike Dup (B8L0222-MSD1)	**Source: 0811552-01**			Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	311	2.0	µg/L	100	220	91.0	70-130	1.95	20	
Zinc	378	2.0	"	100	280	98.0	70-130	0.265	20	
Matrix Spike Dup (B8L0222-MSD2)	**Source: 0811552-19**			Prepared: 12/02/08 Analyzed: 12/03/08						
Copper	105	2.0	µg/L	100	9.3	95.7	70-130	0.948	20	
Zinc	152	2.0	"	100	47	105	70-130	1.32	20	

SIERRA ANALYTICAL

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	12/18/08 11:13

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8L1609 - EPA 3510C Sep Funnel										
Blank (B8L1609-BLK1)				Prepared: 12/08/08 Analyzed: 12/09/08						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L							
Jet-A	ND	0.050	"							
Oil Range Organics (C22-C36)	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0667*		"	*0.100*		*66.7*	*60-175*			
Surrogate: o-Terphenyl	*0.0667*		"	*0.100*		*66.7*	*60-175*			
Surrogate: o-Terphenyl	*0.0667*		"	*0.100*		*66.7*	*60-175*			
LCS (B8L1609-BS1)				Prepared: 12/08/08 Analyzed: 12/09/08						
Diesel Range Organics (C10-C24)	0.485	0.050	mg/L	0.500		97.0	80-120			
Diesel Range Organics (C10-C24)	0.485	0.050	"	0.500		97.0	80-120			
Diesel Range Organics (C10-C24)	0.485	0.050	"	0.500		97.0	80-120			
LCS (B8L1609-BS2)				Prepared: 12/08/08 Analyzed: 12/09/08						
Diesel Range Organics (C10-C24)	0.539	0.050	mg/L	0.500		108	80-120			
Diesel Range Organics (C10-C24)	0.539	0.050	"	0.500		108	80-120			
Diesel Range Organics (C10-C24)	0.539	0.050	"	0.500		108	80-120			
LCS Dup (B8L1609-BSD1)				Prepared: 12/08/08 Analyzed: 12/09/08						
Diesel Range Organics (C10-C24)	0.442	0.050	mg/L	0.500		88.4	80-120	9.28	30	
Diesel Range Organics (C10-C24)	0.442	0.050	"	0.500		88.4	80-120	9.28	30	
Diesel Range Organics (C10-C24)	0.442	0.050	"	0.500		88.4	80-120	9.28	30	

SIERRA ANALYTICAL

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	12/18/08 11:13

Notes and Definitions

D-40	Sample appears to be a mixture of fuel hydrocarbons. Diesel Range Organics (C10-C24) reported.
D-41	Sample appears to be a mixture of fuel hydrocarbons. Oil Range Hydrocarbons (C22-C36) reported.
D-42	Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.
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

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 16 Samples
Project Name: #0811552
Method : EPA 8015B
Investigation: Glycols

Laboratory No: 980322
Report Date: December 5, 2008
Sampling Date: November 26, 2008
Receiving Date: December 5, 2008
Analysis Date: December 5, 2008
Units: mg/L
Dilution Factor: 2
Reported By: LWS

Analytical Results

Sample ID	Sample Description	Propylene Glycol	Ethylene Glycol	Surrogate (1-Butanol)	Surrogate % Recovery
707902-MB	Method Blank	ND	ND	199	99.3%
980322-1	0811552-01	ND	ND	211	106%
980322-2	0811552-02	ND	ND	215	107%
980322-3	0811552-03	ND	ND	221	110%
980322-4	0811552-04	ND	ND	211	105%
980322-5	0811552-05	ND	ND	233	116%
980322-6	0811552-06	ND	ND	218	109%
980322-7	0811552-07	ND	ND	226	113%
980322-8	0811552-09	ND	ND	195	97.6%
980322-9	0811552-10	ND	ND	213	106%
980322-10	0811552-11	ND	ND	235	118%
980322-11	0811552-13	ND	ND	212	106%
980322-12	0811552-15	ND	ND	223	112%
980322-13	0811552-18	ND	ND	213	107%
980322-14	0811552-20	ND	ND	195	97.3%
980322-15	0811552-22	ND	ND	191	95.6%
980322-16	0811552-23	ND	ND	192	96.0%
Practical Quantitation Limits		5.0	5.0	Surrogate Conc. = 200	APR = 50-200%
Sample RLs		**10.0**	**10.0**		

ND: Not detected, or below limit of detection.
RL: Reporting limit, or least amount of analyte quantifiable based on average sample size used and analytical technique employed.
APR: Allowable Percent Recovery

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 16 Samples
Project Name: #0811552
Method Number: EPA 8015B
Investigation: Glycols

QA/QC Batch No: 707902
Laboratory No: 980322
Report Date: December 5, 2008
Sampling Date: November 26, 2008
Receiving Date: December 5, 2008
Analysis Date: December 5, 2008
Units: mg/L
Reported By: LWS

Quality Control/Quality Assurance Calibration Check Report

MRCVS (1)

Parameter	Spiked Concentration	Recovered Concentration	Percent Recovery	Flag	Accuracy Control Limits
Propylene Glycol	50.0	44.9	89.9%	PASS	70-130
Ethylene Glycol	50.0	35.7	71.3%	PASS	70-130

Quality Control/Quality Assurance Spikes Report

LCS/LCSD

Parameter	Spike Conc.	Recovered Concentration		Percent Recovery (%)		RPD (%)	Flag	Accuracy Control Limits	
		LCS	LCSD	LCS	LCSD			RPD	% Recovery
Propylene Glycol	50.0	64.8	64.5	130%	129%	0.53%	PASS	20	70-130
Ethylene Glycol	50.0	55.9	58.4	112%	117%	4.33%	PASS	20	70-130

MRCVS: Mid Range Calibration Verification Standard
LCS: Laboratory Control Spike
LCSD: Laboratory Control Spike Duplicate
RPD: Relative Percent Difference
Flag: "Pass" if within Control Limits; otherwise "Fail"

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

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REPORT

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26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 16 Samples
Project Name: #0811552
Method : EPA 8015B
Investigation: Glycols

Laboratory No: 980322
Report Date: December 5, 2008
Sampling Date: November 26, 2008
Receiving Date: December 5, 2008
Analysis Date: December 5, 2008
Units: mg/L
Dilution Factor: 2
Reported By: LWS

Analytical Results

Sample ID	Sample Description	Propylene Glycol	Ethylene Glycol	Surrogate (1-Butanol)	Surrogate % Recovery
707902-MB	Method Blank	ND	ND	199	99.3%
980322-1	0811552-01	ND	ND	211	106%
980322-2	0811552-02	ND	ND	215	107%
980322-3	0811552-03	ND	ND	221	110%
980322-4	0811552-04	ND	ND	211	105%
980322-5	0811552-05	ND	ND	233	116%
980322-6	0811552-06	ND	ND	218	109%
980322-7	0811552-07	ND	ND	226	113%
980322-8	0811552-09	ND	ND	195	97.6%
980322-9	0811552-10	ND	ND	213	106%
980322-10	0811552-11	ND	ND	235	118%
980322-11	0811552-13	ND	ND	212	106%
980322-12	0811552-15	ND	ND	223	112%
980322-13	0811552-18	ND	ND	213	107%
980322-14	0811552-20	ND	ND	195	97.3%
980322-15	0811552-22	ND	ND	191	95.6%
980322-16	0811552-23	ND	ND	192	96.0%
Practical Quantitation Limits		5.0	5.0	Surrogate Conc. = 200	APR = 50-200%
Sample RLs		**10.0**	**10.0**		

ND: Not detected, or below limit of detection.
RL: Reporting limit, or least amount of analyte quantifiable based on average sample size used and analytical technique employed.
APR: Allowable Percent Recovery

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 16 Samples
Project Name: #0811552
Method Number: EPA 8015B
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QA/QC Batch No: 707902
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Report Date: December 5, 2008
Sampling Date: November 26, 2008
Receiving Date: December 5, 2008
Analysis Date: December 5, 2008
Units: mg/L
Reported By: LWS

Quality Control/Quality Assurance Calibration Check Report

MRCVS (1)

Parameter	Spiked Concentration	Recovered Concentration	Percent Recovery	Flag	Accuracy Control Limits
Propylene Glycol	50.0	44.9	89.9%	PASS	70-130
Ethylene Glycol	50.0	35.7	71.3%	PASS	70-130

Quality Control/Quality Assurance Spikes Report

LCS/LCSD

Parameter	Spike Conc.	Recovered Concentration		Percent Recovery (%)		RPD (%)	Flag	Accuracy Control Limits	
		LCS	LCSD	LCS	LCSD			RPD	% Recovery
Propylene Glycol	50.0	64.8	64.5	130%	129%	0.53%	PASS	20	70-130
Ethylene Glycol	50.0	55.9	58.4	112%	117%	4.33%	PASS	20	70-130

MRCVS: Mid Range Calibration Verification Standard
LCS: Laboratory Control Spike
LCSD: Laboratory Control Spike Duplicate
RPD: Relative Percent Difference
Flag: "Pass" if within Control Limits; otherwise "Fail"

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

Second Storm Event

SIERRA
ANALYTICAL

07 January 2009

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

RE:San Diego Airport

Work Order No.: 0812358

Attached are the results of the analyses for samples received by the laboratory on 12/15/08 12:45.

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.

Sincerely,

Richard K. Forsyth

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.

SIERRA ANALYTICAL

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:** 01/07/09 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B03-2-12/15/08	0812358-01	Liquid	12/15/08 10:22	12/15/08 12:45
C-B05-3-12/15/08	0812358-02	Liquid	12/15/08 00:34	12/15/08 12:45
C-B06-5-12/15/08	0812358-03	Liquid	12/15/08 00:56	12/15/08 12:45
C-B07-6-12/15/08	0812358-04	Liquid	12/15/08 00:08	12/15/08 12:45
C-B12-9-12/14/08	0812358-06	Liquid	12/14/08 23:28	12/15/08 12:45
C-B09-10-12/14/08	0812358-07	Liquid	12/14/08 22:50	12/15/08 12:45
C-B05-3-12/15/08-DUP	0812358-12	Liquid	12/15/08 00:34	12/15/08 12:45

SIERRA ANALYTICAL

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	01/07/09 16:09

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B03-2-12/15/08 (0812358-01) Liquid	**Sampled: 12/15/08 10:22**		**Received: 12/15/08 12:45**						
Ammonia as N	**1.74**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**16.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**68.0**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**205**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.120**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.96**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**3.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B05-3-12/15/08 (0812358-02) Liquid	**Sampled: 12/15/08 00:34**		**Received: 12/15/08 12:45**						
Ammonia as N	**0.840**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**33.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**122**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**610**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	**2.00**	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.170**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**7.80**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**11.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B06-5-12/15/08 (0812358-03) Liquid	**Sampled: 12/15/08 00:56**		**Received: 12/15/08 12:45**						
Ammonia as N	**2.16**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**42.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**166**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**342**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.220**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.78**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**19.0**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 01/07/09 16:09

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B07-6-12/15/08 (0812358-04) Liquid	**Sampled: 12/15/08 00:08**	**Received: 12/15/08 12:45**							
Ammonia as N	**1.93**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**38.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**127**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**165**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.250**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.68**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**15.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B12-9-12/14/08 (0812358-06) Liquid	**Sampled: 12/14/08 23:28**	**Received: 12/15/08 12:45**							
Ammonia as N	**0.520**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**8.00**	2.00	"	"	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**28.0**	0.100	"	"	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**31.9**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	ND	0.0500	"	"	"	"	"	EPA 425.1	
pH	**7.65**	0.100	pH Units	"	"	"	"	EPA 150.1	H-01
Total Suspended Solids	**1.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B09-10-12/14/08 (0812358-07) Liquid	**Sampled: 12/14/08 22:50**	**Received: 12/15/08 12:45**							
Ammonia as N	**2.40**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**52.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**234**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**395**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.280**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**7.21**	0.100	pH Units	"	"	"	"	EPA 150.1	H-01
Total Suspended Solids	**8.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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	01/07/09 16:09

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B05-3-12/15/08-DUP (0812358-12) Liquid	**Sampled: 12/15/08 00:34 Received: 12/15/08 12:45**								
Ammonia as N	**0.820**	0.100	mg/L	1	B8L3002	12/15/08	12/15/08 16:00	SM 4500-NH3	
Biochemical Oxygen Demand	**35.0**	10.0	"	5	"	"	12/20/08 16:00	EPA 405.1	
Chemical Oxygen Demand	**128**	0.100	"	1	"	"	12/15/08 16:00	EPA 410.4	
Specific Conductance (EC)	**622**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	**2.10**	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.190**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**7.78**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**10.0**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 01/07/09 16:09

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B03-2-12/15/08 (0812358-01) Liquid	**Sampled: 12/15/08 10:22**		**Received: 12/15/08 12:45**						
Aluminum	**190**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:05	EPA 200.8	
Copper	**190**	2.0	"	"	"	"	"	"	
Iron	**0.24**	0.050	mg/L	"	"	"	"	"	
Lead	**16**	2.0	µg/L	"	"	"	"	"	
Zinc	**210**	2.0	"	"	"	"	"	"	
C-B05-3-12/15/08 (0812358-02) Liquid	**Sampled: 12/15/08 00:34**		**Received: 12/15/08 12:45**						
Aluminum	**980**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:16	EPA 200.8	
Copper	**21**	2.0	"	"	"	"	"	"	
Iron	**0.93**	0.050	mg/L	"	"	"	"	"	
Lead	**7.6**	2.0	µg/L	"	"	"	"	"	
Zinc	**45**	2.0	"	"	"	"	"	"	
C-B06-5-12/15/08 (0812358-03) Liquid	**Sampled: 12/15/08 00:56**		**Received: 12/15/08 12:45**						
Aluminum	**560**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:20	EPA 200.8	
Copper	**380**	2.0	"	"	"	"	"	"	
Iron	**0.61**	0.050	mg/L	"	"	"	"	"	
Lead	**3.0**	2.0	µg/L	"	"	"	"	"	
Zinc	**320**	2.0	"	"	"	"	"	"	
C-B07-6-12/15/08 (0812358-04) Liquid	**Sampled: 12/15/08 00:08**		**Received: 12/15/08 12:45**						
Aluminum	**230**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:24	EPA 200.8	
Copper	**170**	2.0	"	"	"	"	"	"	
Iron	**1.3**	0.050	mg/L	"	"	"	"	"	
Lead	**6.5**	2.0	µg/L	"	"	"	"	"	
Zinc	**510**	2.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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:** 01/07/09 16:09

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B12-9-12/14/08 (0812358-06) Liquid Sampled: 12/14/08 23:28 Received: 12/15/08 12:45									
Aluminum	ND	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:28	EPA 200.8	
Copper	**41**	2.0	"	"	"	"	"	"	
Iron	**0.080**	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	**68**	2.0	"	"	"	"	"	"	
C-B09-10-12/14/08 (0812358-07) Liquid Sampled: 12/14/08 22:50 Received: 12/15/08 12:45									
Aluminum	**780**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:32	EPA 200.8	
Copper	**89**	2.0	"	"	"	"	"	"	
Iron	**1.1**	0.050	mg/L	"	"	"	"	"	
Lead	**5.6**	2.0	µg/L	"	"	"	"	"	
Zinc	**170**	2.0	"	"	"	"	"	"	
C-B05-3-12/15/08-DUP (0812358-12) Liquid Sampled: 12/15/08 00:34 Received: 12/15/08 12:45									
Aluminum	**1100**	50	µg/L	2	B8L2320	12/23/08	12/30/08 15:36	EPA 200.8	
Copper	**20**	2.0	"	"	"	"	"	"	
Iron	**1.1**	0.050	mg/L	"	"	"	"	"	
Lead	**8.0**	2.0	µg/L	"	"	"	"	"	
Zinc	**51**	2.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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:** 01/07/09 16:09

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B03-2-12/15/08 (0812358-01) Liquid	**Sampled: 12/15/08 10:22**	**Received: 12/15/08 12:45**							
Copper	**160**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:15	EPA 200.8	
Zinc	**190**	2.0	"	"	"	"	"	"	
C-B05-3-12/15/08 (0812358-02) Liquid	**Sampled: 12/15/08 00:34**	**Received: 12/15/08 12:45**							
Copper	**15**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:18	EPA 200.8	
Zinc	**10**	2.0	"	"	"	"	"	"	
C-B06-5-12/15/08 (0812358-03) Liquid	**Sampled: 12/15/08 00:56**	**Received: 12/15/08 12:45**							
Copper	**350**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:22	EPA 200.8	
Zinc	**290**	2.0	"	"	"	"	"	"	
C-B07-6-12/15/08 (0812358-04) Liquid	**Sampled: 12/15/08 00:08**	**Received: 12/15/08 12:45**							
Copper	**100**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:26	EPA 200.8	
Zinc	**420**	2.0	"	"	"	"	"	"	
C-B12-9-12/14/08 (0812358-06) Liquid	**Sampled: 12/14/08 23:28**	**Received: 12/15/08 12:45**							
Copper	**37**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:30	EPA 200.8	
Zinc	**63**	2.0	"	"	"	"	"	"	
C-B09-10-12/14/08 (0812358-07) Liquid	**Sampled: 12/14/08 22:50**	**Received: 12/15/08 12:45**							
Copper	**74**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:34	EPA 200.8	
Zinc	**120**	2.0	"	"	"	"	"	"	
C-B05-3-12/15/08-DUP (0812358-12) Liquid	**Sampled: 12/15/08 00:34**	**Received: 12/15/08 12:45**							
Copper	**16**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:38	EPA 200.8	
Zinc	**19**	2.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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	01/07/09 16:09

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B03-2-12/15/08 (0812358-01) Liquid	**Sampled: 12/15/08 10:22**		**Received: 12/15/08 12:45**						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 03:17	EPA 8015B	D-42
Surrogate: o-Terphenyl		*137 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*137 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.48**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*137 %*	*60-175*		"	"	"	"	
C-B05-3-12/15/08 (0812358-02) Liquid	**Sampled: 12/15/08 00:34**		**Received: 12/15/08 12:45**						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 06:44	EPA 8015B	D-42
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.50**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*105 %*	*60-175*		"	"	"	"	
C-B06-5-12/15/08 (0812358-03) Liquid	**Sampled: 12/15/08 00:56**		**Received: 12/15/08 12:45**						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 07:53	EPA 8015B	D-42
Surrogate: o-Terphenyl		*121 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*121 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.7**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*121 %*	*60-175*		"	"	"	"	
C-B07-6-12/15/08 (0812358-04) Liquid	**Sampled: 12/15/08 00:08**		**Received: 12/15/08 12:45**						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 10:10	EPA 8015B	D-42
Surrogate: o-Terphenyl		*149 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*149 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**2.2**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*149 %*	*60-175*		"	"	"	"	

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.

SIERRA ANALYTICAL

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	01/07/09 16:09

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B12-9-12/14/08 (0812358-06) Liquid Sampled: 12/14/08 23:28 Received: 12/15/08 12:45									
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 03:52	EPA 8015B	D-42
Surrogate: o-Terphenyl		*133 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*133 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.9**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*133 %*	*60-175*		"	"	"	"	
C-B09-10-12/14/08 (0812358-07) Liquid Sampled: 12/14/08 22:50 Received: 12/15/08 12:45									
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 09:01	EPA 8015B	D-42
Surrogate: o-Terphenyl		*113 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*113 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.3**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*113 %*	*60-175*		"	"	"	"	
C-B05-3-12/15/08-DUP (0812358-12) Liquid Sampled: 12/15/08 00:34 Received: 12/15/08 12:45									
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L1907	12/18/08	12/20/08 07:18	EPA 8015B	D-42
Surrogate: o-Terphenyl		*109 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*109 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.52**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*109 %*	*60-175*		"	"	"	"	

SIERRA ANALYTICAL

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	01/07/09 16:09

Metals 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 B8L2320 - EPA 200 Series										
Blank (B8L2320-BLK1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
Blank (B8L2320-BLK2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L2320-BS1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	95.7	50	µg/L	100		95.7	85-115			
Copper	90.7	2.0	"	100		90.7	85-115			
Iron	0.858	0.050	mg/L	1.00		85.8	85-115			
Lead	103	2.0	µg/L	100		103	85-115			
Zinc	96.9	2.0	"	100		96.9	85-115			
LCS (B8L2320-BS2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	95.6	50	µg/L	100		95.6	85-115			
Copper	89.4	2.0	"	100		89.4	85-115			
Iron	0.919	0.050	mg/L	1.00		91.9	85-115			
Lead	101	2.0	µg/L	100		101	85-115			
Zinc	95.5	2.0	"	100		95.5	85-115			
Matrix Spike (B8L2320-MS1)	**Source: 0812358-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	296	50	µg/L	100	190	106	70-130			
Copper	281	2.0	"	100	190	91.0	70-130			
Iron	1.18	0.050	mg/L	1.00	0.24	94.0	70-130			
Lead	116	2.0	µg/L	100	16	100	70-130			
Zinc	314	2.0	"	100	210	104	70-130			

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
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SIERRA ANALYTICAL

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:** 01/07/09 16:09

Metals 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 B8L2320 - EPA 200 Series										
Matrix Spike (B8L2320-MS2)	**Source: 0812398-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	78.3	50	µg/L	100	ND	78.3	70-130			
Copper	74.6	2.0	"	100	8.0	66.6	70-130			QM-07
Iron	27.0	0.050	mg/L	1.00	31	NR	70-130			QM-07
Lead	94.1	2.0	µg/L	100	ND	94.1	70-130			
Zinc	71.4	2.0	"	100	8.3	63.1	70-130			QM-07
Matrix Spike Dup (B8L2320-MSD1)	**Source: 0812358-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	298	50	µg/L	100	190	108	70-130	0.673	20	
Copper	270	2.0	"	100	190	80.0	70-130	3.99	20	
Iron	1.17	0.050	mg/L	1.00	0.24	93.0	70-130	0.851	20	
Lead	114	2.0	µg/L	100	16	98.0	70-130	1.74	20	
Zinc	303	2.0	"	100	210	93.0	70-130	3.57	20	
Matrix Spike Dup (B8L2320-MSD2)	**Source: 0812398-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	78.1	50	µg/L	100	ND	78.1	70-130	0.256	20	
Copper	74.1	2.0	"	100	8.0	66.1	70-130	0.672	20	QM-07
Iron	28.1	0.050	mg/L	1.00	31	NR	70-130	3.99	20	QM-07
Lead	96.1	2.0	µg/L	100	ND	96.1	70-130	2.10	20	
Zinc	69.6	2.0	"	100	8.3	61.3	70-130	2.55	20	QM-07

SIERRA ANALYTICAL

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	01/07/09 16:09

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 B8L2322 - EPA 200 Series										
Blank (B8L2322-BLK1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
Blank (B8L2322-BLK2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L2322-BS1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	85.8	2.0	µg/L	100		85.8	85-115			
Zinc	92.4	2.0	"	100		92.4	85-115			
LCS (B8L2322-BS2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	90.2	2.0	µg/L	100		90.2	85-115			
Zinc	96.7	2.0	"	100		96.7	85-115			
Matrix Spike (B8L2322-MS1)	**Source: 0812327-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	86.1	2.0	µg/L	100	3.1	83.0	70-130			
Zinc	87.9	2.0	"	100	4.3	83.6	70-130			
Matrix Spike (B8L2322-MS2)	**Source: 0812371-03**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	111	2.0	µg/L	100	27	84.0	70-130			
Zinc	249	2.0	"	100	170	79.0	70-130			
Matrix Spike Dup (B8L2322-MSD1)	**Source: 0812327-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	86.7	2.0	µg/L	100	3.1	83.6	70-130	0.694	20	
Zinc	88.1	2.0	"	100	4.3	83.8	70-130	0.227	20	
Matrix Spike Dup (B8L2322-MSD2)	**Source: 0812371-03**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	115	2.0	µg/L	100	27	88.0	70-130	3.54	20	
Zinc	249	2.0	"	100	170	79.0	70-130	0.00	20	

SIERRA ANALYTICAL

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	01/07/09 16:09

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8L1907 - EPA 3510C Sep Funnel										
Blank (B8L1907-BLK1)				Prepared: 12/18/08 Analyzed: 12/19/08						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L							
Jet-A	ND	0.050	"							
Oil Range Organics (C22-C36)	ND	0.050	"							
Surrogate: o-Terphenyl	*0.0711*		"	*0.100*		*71.1*	*60-175*			
Surrogate: o-Terphenyl	*0.0711*		"	*0.100*		*71.1*	*60-175*			
Surrogate: o-Terphenyl	*0.0711*		"	*0.100*		*71.1*	*60-175*			
LCS (B8L1907-BS1)				Prepared: 12/18/08 Analyzed: 12/19/08						
Diesel Range Organics (C10-C24)	0.518	0.050	mg/L	0.500		104	80-120			
Diesel Range Organics (C10-C24)	0.518	0.050	"	0.500		104	80-120			
Diesel Range Organics (C10-C24)	0.518	0.050	"	0.500		104	80-120			
LCS (B8L1907-BS2)				Prepared: 12/18/08 Analyzed: 12/19/08						
Diesel Range Organics (C10-C24)	0.525	0.050	mg/L	0.500		105	80-120			
Diesel Range Organics (C10-C24)	0.525	0.050	"	0.500		105	80-120			
Diesel Range Organics (C10-C24)	0.525	0.050	"	0.500		105	80-120			
LCS Dup (B8L1907-BSD1)				Prepared: 12/18/08 Analyzed: 12/19/08						
Diesel Range Organics (C10-C24)	0.525	0.050	mg/L	0.500		105	80-120	1.34	30	
Diesel Range Organics (C10-C24)	0.525	0.050	"	0.500		105	80-120	1.34	30	
Diesel Range Organics (C10-C24)	0.525	0.050	"	0.500		105	80-120	1.34	30	

SIERRA ANALYTICAL

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	01/07/09 16:09

Notes and Definitions

D-42	Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.
H-01	Sample received without sufficient time to complete analysis within recommended holding time.
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

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Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 12 Samples
Project Name: #0812358
Method : EPA 8015B
Investigation: Glycols

REPORT

Laboratory No: 980681
Report Date: December 24, 2008
Sampling Date: December 14-15, 2008
Receiving Date: December 18, 2008
Analysis Date: December 22, 2008
Units: mg/L
Dilution Factor: 2
Reported By: MK

Analytical Results

Sample ID	Sample Description	Propylene Glycol	Ethylene Glycol	Surrogate (1-Butanol)	Surrogate % Recovery
707930-MB	Method Blank	ND	ND	180	90.2%
980681-1	0812358-01	ND	ND	214	107%
980681-2	0812358-02	ND	ND	227	114%
980681-3	0812358-03	ND	ND	226	113%
980681-4	0812358-04	ND	ND	241	121%
980681-5	0812358-05	ND	ND	236	118%
980681-6	0812358-06	ND	ND	210	105%
980681-7	0812358-07	ND	ND	236	118%
980681-8	0812358-08	ND	ND	202	101%
980681-9	0812358-09	ND	ND	209	104%
980681-10	0812358-10	ND	ND	209	104%
980681-11	0812358-11	ND	ND	241	120%
980681-12	0812358-12	ND	ND	193	96.5%
Practical Quantitation Limits		5.0	5.0	Surrogate Conc. = 200	APR = 50-200%
Sample RLs		**10.0**	**10.0**		

ND: Not detected, or below limit of detection.
RL: Reporting limit, or least amount of analyte quantifiable based on average sample size used and analytical technique employed.
APR: Allowable Percent Recovery

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING

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REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 12 Samples
Project Name: #0812358
Method Number: EPA 8015B
Investigation: Glycols

QA/QC Batch No: 707930
Laboratory No: 980681
Report Date: December 24, 2008
Sampling Date: December 14-15, 2008
Receiving Date: December 18, 2008
Analysis Date: December 22, 2008
Units: mg/L
Reported By: MK

Quality Control/Quality Assurance Calibration Check Report

	MRCVS (1)				
Parameter	Spiked Concentration	Recovered Concentration	Percent Recovery	Flag	Accuracy Control Limits
Propylene Glycol	50.0	41.1	82.2%	PASS	70-130
Ethylene Glycol	50.0	37.7	75.4%	PASS	70-130

Quality Control/Quality Assurance Spikes Report

	LCS/LCSD						Accuracy Control Limits	
Parameter	Spike Conc.	Recovered Concentration		Percent Recovery (%)		RPD (%)	Flag	RPD	% Recovery
		LCS	LCSD	LCS	LCSD				
Propylene Glycol	50.0	55.0	57.7	110%	115%	4.79%	PASS	20	70-130
Ethylene Glycol	50.0	44.5	49.3	89%	99%	10.21%	PASS	20	70-130

MRCVS: Mid Range Calibration Verification Standard
LCS: Laboratory Control Spike
LCSD: Laboratory Control Spike Duplicate
RPD: Relative Percent Difference
Flag: "Pass" if within Control Limits; otherwise "Fail"

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 0812358

980681

Comments

SENDING LABORATORY:

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

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

RECEIVING LABORATORY:

Truesdail Laboratories, Inc.
14201 Franklin Ave
Tustin, CA 92780
Phone : (714) 730-6239
Fax: (714) 730-6462

Analysis	Expires	Sampled:	Laboratory ID	Comments
-1 **Sample ID: C-B03-2-12/15/08 (0812358-01)**	**Liquid**	**12/15/08 10:22**	[redacted]	
8015B Glycols A	12/29/08 10:22			Rec'd 12/18/08 s24b 980681
Containers Supplied: Voa Vial (E)	B Voa Vial (F)			
-2 **Sample ID: C-B05-3-12/15/08 (0812358-02)**	**Liquid**	**12/15/08 00:34**	[redacted]	
8015B Glycols	12/29/08 00:34			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			
-3 **Sample ID: C-B06-5-12/15/08 (0812358-03)**	**Liquid**	**12/15/08 00:56**	[redacted]	
8015B Glycols	12/29/08 00:56			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			
-4 **Sample ID: C-B07-6-12/15/08 (0812358-04)**	**Liquid**	**12/15/08 00:08**	[redacted]	
8015B Glycols	12/29/08 00:08			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			
-5 **Sample ID: S-B08-14/C-B08-8-12/15/18 (0812358-05)**	**Liquid**	**12/15/08 10:58**	[redacted]	
8015B Glycols	12/29/08 10:58			
Containers Supplied: Voa Vial (A)	Voa Vial (B)			

For Sample Conditions See Form Attached

Special Instructions :

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

Relinquished By	Date / Time	Received By	Date / Time
(signature)	12-18-08 / 1455	L. Shabumuro (signature)	12/18/08 14-
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Proiect #: 0812358

Analysis	Expires	Sampled:	Laboratory ID	Comments
6 **Sample ID: C-B12-9-12/14/08 (0812358-06)**	**Liquid**	**12/14/08 11:28**	[redacted]	
8015B Glycols	12/28/08 11:28			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			
7 **Sample ID: C-B09-10-12/14/08 (0812358-07)**	**Liquid**	**12/14/08 10:50**	[redacted]	
8015B Glycols	12/28/08 10:50			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			
8 **Sample ID: S-B08-1-12/14/08 (0812358-08)**	**Liquid**	**12/14/08 11:10**	[redacted]	
8015B Glycols	12/28/08 11:10			
Containers Supplied: Voa Vial (A)	Voa Vial (B)			
9 **Sample ID: S-B11-4-12/14/08 (0812358-09)**	**Liquid**	**12/14/08 11:00**	[redacted]	
8015B Glycols	12/28/08 11:00			
Containers Supplied: Voa Vial (A)	Voa Vial (B)			
10 **Sample ID: S-B06-12-12/14/08 (0812358-10)**	**Liquid**	**12/14/08 11:40**	[redacted]	
8015B Glycols	12/28/08 11:40			
Containers Supplied: Voa Vial (A)	Voa Vial (B)			
11 **Sample ID: S-B12-13-12/15/08 (0812358-11)**	**Liquid**	**12/15/08 11:01**	[redacted]	
8015B Glycols	12/29/08 11:01			
Containers Supplied: Voa Vial (A)	Voa Vial (B)			
12 **Sample ID: C-B05-3-12/15/08-DUP (0812358-12)**	**Liquid**	**12/15/08 00:34**	[redacted]	
8015B Glycols	12/29/08 00:34			
Containers Supplied: Voa Vial (E)	Voa Vial (F)			

Special Instructions :

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

[signature] Relinquished By	12-18-08 / 1455 Date / Time	[signature] Received By	12/18/08 14:[illegible] Date / Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

SIERRA ANALYTICAL

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

CHAIN OF CUSTODY RECORD

Date: 12 / 15 / 08 Page: 1 of 6

Lab Work Order No.: 08L3358

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)									Field Point Names / Comments
~~C-B01-1~~				~~STORMWATER~~	~~NONE~~	~~PLASTIC~~	~~2~~	~~X~~												
~~C-B01-1~~				~~STORMWATER~~	~~NONE~~	~~40ml VOA~~	~~2~~		~~X~~											
~~C-B01-1~~				~~STORMWATER~~	~~NONE~~	~~CLR GLASS~~	~~1~~			~~X~~										
~~C-B01-1~~					~~NONE~~		~~1~~				~~X~~									
C-B03-2- 12/15/08	01	12/15/08	10:22A	STORMWATER	NONE	PLASTIC	2	X												
C-B03-2- 12/15/08	[illegible]	12/15/08	10:22A	STORMWATER	NONE	40ml VOA	2		X											
C-B03-2- 12/15/08	[illegible]	12/15/08	10:22A	STORMWATER	NONE	CLR GLASS	1			X										
C-B03-2- 12/15/08	[illegible]	12/15/08	10:22A	STORMWATER	NONE	AMBER GLASS	1				X									
C-B05-3- 12-115-08	02	12/15/08	12:34A	STORMWATER	NONE	PLASTIC	2	X												
C-B05-3- 12-15-08	[illegible]	12/15/08	12:34A	STORMWATER	NONE	40ml VOA	2		X											

1 Sampler Signature: Rachel Davenport (signature)
Printed Name: Rachel Davenport
Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

2 Relinquished By: AMANDA ARCHENHOLD Date: 12/15/08 Received By: TJ F[illegible] Date: 12-15-08
Company: MACTEC Time: 12:45 Company: SIERRA Time: 12:45

3 Relinquished By: TJ F[illegible] Date: 12-15-08 Received By: (signature) Date: 12-15-08
Company: SIERRA Time: 15:35 Company: Sierra Time: 1535

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

Total Number of Containers Submitted to Laboratory

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled Temp (°C) 4.0
☐ Sample Seals ☐ Preservatives Verified By ____
☑ Properly Labelled ☐ Other ____
☑ Appropriate Sample Container ☑ Storage Location [illegible] / REDS

Special Instructions: ~~Please~~
Please analyze per Data Quality objectives / Scopes of Work for this project (on work order).

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

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CHAIN OF CUSTODY RECORD

Date: 12/15/08 Page: 2 of 6

Lab Work Order No.: 08l2358

Client:	MACTEC
Client Address:	9177 SKY PARK COURT
	SAN DIEGO, CA 92123
Client Tel. No.:	(858) 278-3600
Client Fax. No.:	(858) 278-5300
Client Proj. Mgr.:	Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	Field Point Names / Comments
C-B05-3- 12-15-08	[illegible]	12/15/08	12:34A	STORMWATER	NONE	CLR GLASS	1			X		
C-B05-3- 12-15-08	[illegible]	12/15/08	12:34A	STORMWATER	NONE	AMBER GLASS	1				X	
[illegible]					NONE	PLASTIC	2	X				
[illegible]					NONE	40ml VOA	2		X			
[illegible]					NONE	[illegible]	1			X		
[illegible]					NONE	AMBER GLASS	1				X	
C-B06-5- 12-15-08	[illegible]	12/15/08	12:56A	STORMWATER	NONE	PLASTIC	2	X				
C-B06-5- 12-15-08	[illegible]	12/15/08	12:56A	STORMWATER	NONE	40ml VOA	2		X			
C-B06-5- 12-15-08	[illegible]	12/15/08	12:56A	STORMWATER	NONE	CLR GLASS	1			X		
C-B06-5- 12-15-08	[illegible]	12/15/08	12:56A	STORMWATER	NONE	AMBER GLASS	1				X	

1 Sampler Signature: Rachel Davenport
Printed Name: Rachel Davenport
Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

Total Number of Containers Submitted to Laboratory

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

2 Relinquished By:	AMANDA ARCHENHOLD	Date: 12/15/08	Received By:	Date: 12.15.08	
Company:	MACTEC	Time: 12:15	Company:	Time: 17:45	
3 Relinquished By:		Date: 12-15-08	Received By:	Date: 121508	
Company:	SIERRA	Time: 15:35	Company:	Time: 1535	
4 Relinquished By:		Date:	Received By:	Date:	
Company:		Time:	Company:	Time:	

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

Total Number of Containers Received by Laboratory

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (C) [illegible]
☐ Sample Seals ☐ Preservatives - Verified By: ____
☑ Properly Labeled ☐ Other ____
☑ Appropriate Sample Container ☑ Storage Location

Rev: 021104

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

CHAIN OF CUSTODY RECORD

Date: 12/15/08 Page: 3 of 6

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Lab Work Order No.: 0812358

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, ammonia, MBAS, O&G, TPH (jet fuel,motor oil,diesel)	Field Point Names / Comments
C-B07-6-12-15-08	01	12/15/08	12:08A	STORMWATER	NONE	PLASTIC	2	X					
C-B07-6-12-15-08	02	12/15/08	12:08A	STORMWATER	NONE	40ml VOA	2		X				
C-B07-6-12-15-08	03	12/15/08	12:08A	STORMWATER	NONE	CLR GLASS	1			X			
C-B07-6-12-15-08	04	12/15/08	12:08A	STORMWATER	NONE	AMBER GLASS	1				X		
~~C-B07-7-~~				STORMWATER	NONE	~~PLASTIC~~	2	X					
~~C-B07-7-~~				STORMWATER	NONE	~~40ml VOA~~	2		X				
~~C-B07-7-~~					NONE		1			X			
~~C-B07-7-~~					NONE		1				X		
~~S-B08-14/C-B08-8-~~ 12-15-08		12-15-08	10:58A		NONE								
S-B08-14/C-B08-8-12-15-08	05	12-15-08	10:58A	STORMWATER	NONE	40ml VOA	2		X				

Total Number of Containers Submitted to Laboratory

Sampler Signature: Rachel Davenport
Printed Name: Rachel Davenport
Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

1 Relinquished By: AMANDA ARCHENHOLD	Date: 12/15/08	Received By: TJ Firth	Date: 12.15.08	
Company: MACTEC	Time: 12:45	Company: SIERRA	Time: 12:45	
2 Relinquished By: TJ Firth	Date: 12-15-08	Received By:	Date: 12-15-08	
Company: SIERRA	Time: 15:35	Company: SIERRA	Time: 1535	
3 Relinquished By:	Date:	Received By:	Date:	
Company:	Time:	Company:	Time:	

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

Total Number of Containers Received by Laboratory

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

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Condition:
☑ Intact ☑ Chilled / Temp (C) 4.0
☐ Sample Seals ☐ Preservative - Verified By:
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location V105

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

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CHAIN OF CUSTODY RECORD

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Date: 12/15/08 Page: 4 of 6

Lab Work Order No.: 0812358

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Geotracker EDD Info:
Client LOGCODE
Site Global ID
Field Point Names / Comments

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	Field Point Names / Comments
C-B12-9-12-14-08	08	12/14/08	11:28 P	STORMWATER	NONE	PLASTIC	2	X					
C-B12-9-12-14-08	09	12/14/08	11:28 P	STORMWATER	NONE	40ml VOA	2		X				
C-B12-9-12-14-08	10	12/14/08	11:28 P	STORMWATER	NONE	CLR GLASS	1			X			
C-B12-9-12-14-08	11	12/14/08	11:28 P	STORMWATER	NONE	AMBER GLASS	1				X		
C-B09-10-12-14-08	07	12/14/08	10:50 P	STORMWATER	NONE	PLASTIC	2	X					
C-B09-10-12-14-08	08	12/14/08	10:50 P	STORMWATER	NONE	40ml VOA	2		X				
C-B09-10-12-14-08	09	12/14/08	10:50 P	STORMWATER	NONE	CLR GLASS	1			X			
C-B09-10-12-14-08	10	12/14/08	10:50 P	STORMWATER	NONE	AMBER GLASS	1				X		
C-B09-1				STORMWATER	NONE	5 GALL GLASS						X	composite together with S-B08-2 and analyze as 1 sample
S-B08-1-12-14-08	06	12/14/08	11:10 P	STORMWATER	NONE	40ml VOA	2		X				

1 Sampler Signature: Rachel Davenport
Printed Name: Rachel Davenport
Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

2 Relinquished By: AMANDA ARCHENHOLD Date: 12/15/08 Time: 12:45
Company: MACTEC
Received By: TJ Fith Date: 12.15.08 Time: 12:45
Company: SIERRA

3 Relinquished By: TJ Fith Date: 12-15-08 Time: 15:35
Company: SIERRA
Received By: Date: 12-15-08 Time: 1535
Company: Sierra

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

Special Instructions:

Total Number of Containers Submitted to Laboratory

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (C) 4.0
☐ Sample Seals ☐ Preservatives - Verified By:
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Containers ☑ Storage Location R105

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

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CHAIN OF CUSTODY RECORD

Date: 12/16/08 Page: 5 of 6

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Lab Work Order No.: 08C0358

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	ethylene glycol	Total & dissolved Cu and Zn	Field Point Names / Comments
S-B08-2				STORMWATER	NONE	5 GAL GLASS		X			composite together with S-B08-1 and analyze as 1 sample
S-B08-2				STORMWATER	NONE	40ml VOA	2		X		
S-B08-3				STORMWATER	NONE	5 GAL GLASS		X			composite together with S-B11-4 and analyze as 1 sample
S-B08-3					NONE			X			composite together with S-B09-3 and analyze as 1 sample
S-B11-4											
S-B11-4-12-14-08	0809	12/14/08	11:00 P	STORMWATER	NONE	40ml VOA	2		X		
S-B07-6				STORMWATER	NONE	5 GAL GLASS				X	
S-B07-6				STORMWATER	NONE	PLASTIC	1			X	
S-B12-7				STORMWATER	NONE	PLASTIC	1			X	
S-B09-3				STORMWATER	NONE	PLASTIC	1			X	
S-B09-3				STORMWATER	NONE	PLASTIC	1			X	

Geotracker EDD Info:
Client LOGCODE
Site Global ID

1 Sampler Signature: Rachel Davenport
Printed Name: Rachel Davenport

Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

2 Relinquished By: A. ARCHENHOLD Date: 12/15/08 Time: 12:45
Company: MACTEC
Received By: TOFTH Date: 12.15.08 Time: 17:45
Company: SIERRA

3 Relinquished By: TOFTH Date: 12-15-08 Time: 15:35
Company: SIERRA
Received By: Date: 1535
Company:

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

Special Instructions:

Total Number of Containers Submitted to Laboratory

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY – Sample Receipt Conditions:
☑ Intact ☐ Chilled – Temp (°C) 4.0
☐ Sample Seals ☐ Preservative – Verified By
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location R005

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

Rev: 021104

CHAIN OF CUSTODY RECORD

Date: 12/15/08 Page: 6 of 6

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Lab Work Order No.: 08i3569

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.: Amanda Archenhold

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Total & dissolved Cu and Zn	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	O&G, SC, pH, TSS, total (Al, Cu, Fe, Pb, Zn), dissolved (Cu, Zn), BOD, COD, particle size distribution	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS
~~S-B05-10-~~				STORMWATER	NONE	~~PLASTIC~~	1	X						
~~S-B06-11-~~				STORMWATER	NONE	PLASTIC	1	X						
~~S-B06-12~~				STORMWATER	NONE	5 GALL GLASS							X	
S-B06-12- 12-14-08	10	12/14/08	11:40P	STORMWATER	NONE	40ml VOA	2		X					
~~S-B12-13- 12-15-08~~		~~12/15/08~~	~~11:01A~~	STORMWATER	NONE							X		
S-B12-13- 12-15-08	11	12/15/08	11:01A	STORMWATER	NONE	40ml VOA	2		X					
C-B05-3-12-15.06 -DUP	12	12/15/08	12:34A	STORMWATER	NONE	PLASTIC	2							X
C-B05-3-12-1508 -DUP		12/15/08	12:34A	STORMWATER	NONE	40ml VOA	2		X					
C-B05-3-12-15-08 -DUP		12/15/08	12:34A	STORMWATER	NONE	CLR GLASS	1			X				
C-B05-3-12-15.08 -DUP		12/15/08	12:34A	STORMWATER	NONE	AMBER GLASS	1				X			

Total Number of Containers Submitted to Laboratory

1 Sampler Signature: Rachel Davenport
Printed Name: Rachel Davenport
Shipped Via: Sierra Analytical
(Carrier/Waybill No.) N/A

2 Relinquished By: A. ARCHENHOLD Date: 12/15/08 Time: 12:45
Company: MACTEC
Received By: T. Fitch Date: 12.15.08 Time: 12:45
Company: SIERRA

3 Relinquished By: T. Fitch Date: 12-15-08 Time: 15:35
Company: SIERRA
Received By: Date: 12-15-08 Time: 1535
Company:

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

Special Instructions:

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (°C) 4.0
☐ Sample Seals ☐ Preservatives Verified By:
☑ Properly Labeled ☐ Other:
☑ Appropriate Sample Container ☑ Storage Location R105

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

Rev: 021104

Geotracker EDD Info:
Client LOGCODE
Site Global ID
Field Point Names / Comments

SIERRA ANALYTICAL

22 January 2009

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

RE:San Diego Airport

Work Order No.: 0812371

Attached are the results of the analyses for samples received by the laboratory on 12/16/08 13:35.

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.

Sincerely,

Richard K. Forsyth

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.

SIERRA ANALYTICAL

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:** 01/22/09 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-B01-1-12/16/08	0812371-01	Liquid	12/16/08 10:10	12/16/08 13:35
C-B05-4-12/16/08	0812371-02	Liquid	12/16/08 10:19	12/16/08 13:35
C-B07-7-12/16/08	0812371-03	Liquid	12/16/08 10:39	12/16/08 13:35
S-B08-14/C-B08-8-12/16/08	0812371-04	Liquid	12/16/08 04:00	12/16/08 13:35
S-B08-2-12/15/08	0812371-07	Liquid	12/15/08 13:35	12/16/08 13:35
S-B06-12-12/16/08	0812371-10	Liquid	12/16/08 02:05	12/16/08 13:35
S-B12-13-12/16/08	0812371-11	Liquid	12/16/08 01:06	12/16/08 13:35
C-B07-7-12/16/08-BL	0812371-12	Liquid	12/16/08 10:39	12/16/08 13:35
S-B08-14-12/16/08-DUP	0812371-13	Liquid	12/16/08 04:00	12/16/08 13:35
S-B08-1-12/16/08-BL	0812371-14	Liquid	12/16/08 00:29	12/16/08 13:35
S-B08-1/S-B08-2 Composite	0812371-15	Liquid	12/16/08 00:00	12/16/08 13:35
S-B09-3/S-B11-4 Composite	0812371-16	Liquid	12/16/08 00:00	12/16/08 13:35

CASE NARRATIVE

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

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-12/16/08 (0812371-01) Liquid	**Sampled: 12/16/08 10:10**		**Received: 12/16/08 13:35**						
Ammonia as N	**1.64**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**31.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**116**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**300**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.290**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.62**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**10.0**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B05-4-12/16/08 (0812371-02) Liquid	**Sampled: 12/16/08 10:19**		**Received: 12/16/08 13:35**						
Ammonia as N	**1.82**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**55.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**193**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**791**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	**2.00**	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.340**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.48**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**6.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
C-B07-7-12/16/08 (0812371-03) Liquid	**Sampled: 12/16/08 10:39**		**Received: 12/16/08 13:35**						
Ammonia as N	**0.550**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**16.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**54.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**57.8**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.120**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.73**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**7.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

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

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-14/C-B08-8-12/16/08 (0812371-04) Liquid Sampled: 12/16/08 04:00 Received: 12/16/08 13:35									
Ammonia as N	**0.680**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**36.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**61.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**144**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	**0.140**	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.63**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**4.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B06-12-12/16/08 (0812371-10) Liquid Sampled: 12/16/08 02:05 Received: 12/16/08 13:35									
Biochemical Oxygen Demand	**27.0**	10.0	mg/L	5	B8L3002	12/16/08	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**87.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**109**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**8.92**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**2.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B12-13-12/16/08 (0812371-11) Liquid Sampled: 12/16/08 01:06 Received: 12/16/08 13:35									
Biochemical Oxygen Demand	**20.0**	10.0	mg/L	5	B8L3002	12/16/08	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**72.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**176**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**7.59**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**1.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B07-7-12/16/08-BL (0812371-12) Liquid	**Sampled: 12/16/08 10:39 Received: 12/16/08 13:35**								
Ammonia as N	ND	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	ND	2.00	"	"	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**10.0**	0.100	"	"	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**1.77**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
Methylene Blue Active Substances	ND	0.0500	"	"	"	"	"	EPA 425.1	
pH	**6.38**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	ND	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B08-14-12/16/08-DUP (0812371-13) Liquid	**Sampled: 12/16/08 04:00 Received: 12/16/08 13:35**								
Ammonia as N	**0.700**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**39.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**58.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**142**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**6.65**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**4.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B08-1-12/16/08-BL (0812371-14) Liquid	**Sampled: 12/16/08 00:29 Received: 12/16/08 13:35**								
Ammonia as N	ND	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	ND	2.00	"	"	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**7.00**	0.100	"	"	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**1.75**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**6.41**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	ND	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Conventional Chemistry Parameters by APHA/EPA Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-1/S-B08-2 Composite (0812371-15) Liquid Sampled: 12/16/08 00:00 Received: 12/16/08 13:35									
Ammonia as N	**0.940**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**14.8**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**38.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**62.2**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**6.08**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**3.00**	1.00	mg/L	"	"	"	"	EPA 160.2	
S-B09-3/S-B11-4 Composite (0812371-16) Liquid Sampled: 12/16/08 00:00 Received: 12/16/08 13:35									
Ammonia as N	**0.970**	0.100	mg/L	1	B8L3002	12/16/08	12/16/08 15:00	SM 4500-NH3	
Biochemical Oxygen Demand	**19.0**	10.0	"	5	"	"	12/21/08 15:00	EPA 405.1	
Chemical Oxygen Demand	**42.0**	0.100	"	1	"	"	12/16/08 15:00	EPA 410.4	
Specific Conductance (EC)	**72.4**	0.100	µmhos/cm	"	"	"	"	EPA 120.1	
Hexane Extractable Material (HEM)	ND	2.00	mg/L	"	"	"	"	EPA 1664	
pH	**6.38**	0.100	pH Units	"	"	"	"	EPA 150.1	
Total Suspended Solids	**5.00**	1.00	mg/L	"	"	"	"	EPA 160.2	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-12/16/08 (0812371-01) Liquid Sampled: 12/16/08 10:10 Received: 12/16/08 13:35									
Aluminum	**450**	50	µg/L	2	B8L2321	12/23/08	12/30/08 17:28	EPA 200.8	
Copper	**260**	2.0	"	"	"	"	"	"	
Iron	**0.49**	0.050	mg/L	"	"	"	"	"	
Lead	**4.1**	2.0	µg/L	"	"	"	"	"	
Zinc	**290**	2.0	"	"	"	"	"	"	
C-B05-4-12/16/08 (0812371-02) Liquid Sampled: 12/16/08 10:19 Received: 12/16/08 13:35									
Aluminum	**440**	50	µg/L	2	B8L2321	12/23/08	12/30/08 17:32	EPA 200.8	
Copper	**480**	2.0	"	"	"	"	"	"	
Iron	**0.52**	0.050	mg/L	"	"	"	"	"	
Lead	**3.3**	2.0	µg/L	"	"	"	"	"	
Zinc	**530**	2.0	"	"	"	"	"	"	
C-B07-7-12/16/08 (0812371-03) Liquid Sampled: 12/16/08 10:39 Received: 12/16/08 13:35									
Aluminum	**300**	50	µg/L	2	B8L2321	12/23/08	12/30/08 17:36	EPA 200.8	
Copper	**39**	2.0	"	"	"	"	"	"	
Iron	**0.41**	0.050	mg/L	"	"	"	"	"	
Lead	**5.3**	2.0	µg/L	"	"	"	"	"	
Zinc	**200**	2.0	"	"	"	"	"	"	
S-B08-14/C-B08-8-12/16/08 (0812371-04) Liquid Sampled: 12/16/08 04:00 Received: 12/16/08 13:35									
Aluminum	**66**	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**75**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	ND	1.0	µg/L	"	"	"	"	"	
Zinc	**200**	1.0	"	"	"	"	"	"	

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E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B06-12-12/16/08 (0812371-10) Liquid	**Sampled: 12/16/08 02:05**		**Received: 12/16/08 13:35**						
Aluminum	**40**	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**18**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	ND	1.0	µg/L	"	"	"	"	"	
Zinc	**55**	1.0	"	"	"	"	"	"	
S-B12-13-12/16/08 (0812371-11) Liquid	**Sampled: 12/16/08 01:06**		**Received: 12/16/08 13:35**						
Aluminum	ND	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**20**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	ND	1.0	µg/L	"	"	"	"	"	
Zinc	**35**	1.0	"	"	"	"	"	"	
C-B07-7-12/16/08-BL (0812371-12) Liquid	**Sampled: 12/16/08 10:39**		**Received: 12/16/08 13:35**						
Aluminum	ND	50	µg/L	2	B8L2321	12/23/08	12/30/08 17:40	EPA 200.8	
Copper	ND	2.0	"	"	"	"	"	"	
Iron	ND	0.050	mg/L	"	"	"	"	"	
Lead	ND	2.0	µg/L	"	"	"	"	"	
Zinc	ND	2.0	"	"	"	"	"	"	
S-B08-14-12/16/08-DUP (0812371-13) Liquid	**Sampled: 12/16/08 04:00**		**Received: 12/16/08 13:35**						
Aluminum	**70**	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**80**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	ND	1.0	µg/L	"	"	"	"	"	
Zinc	**190**	1.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Metals by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-1-12/16/08-BL (0812371-14) Liquid Sampled: 12/16/08 00:29 Received: 12/16/08 13:35									
Aluminum	ND	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	ND	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	ND	1.0	µg/L	"	"	"	"	"	
Zinc	ND	1.0	"	"	"	"	"	"	
S-B08-1/S-B08-2 Composite (0812371-15) Liquid Sampled: 12/16/08 00:00 Received: 12/16/08 13:35									
Aluminum	**620**	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**30**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	**3.8**	1.0	µg/L	"	"	"	"	"	
Zinc	**150**	1.0	"	"	"	"	"	"	
S-B09-3/S-B11-4 Composite (0812371-16) Liquid Sampled: 12/16/08 00:00 Received: 12/16/08 13:35									
Aluminum	**1100**	25	µg/L	1	B9A2227	12/23/08	12/30/08 18:09	EPA 200.8	
Copper	**35**	1.0	"	"	"	"	"	"	
Iron	ND	0.025	mg/L	"	"	"	"	"	
Lead	**10**	1.0	µg/L	"	"	"	"	"	
Zinc	**220**	1.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-12/16/08 (0812371-01) Liquid	**Sampled: 12/16/08 10:10**		**Received: 12/16/08 13:35**						
Copper	**240**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:42	EPA 200.8	
Zinc	**270**	2.0	"	"	"	"	"	"	
C-B05-4-12/16/08 (0812371-02) Liquid	**Sampled: 12/16/08 10:19**		**Received: 12/16/08 13:35**						
Copper	**440**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 18:46	EPA 200.8	
Zinc	**490**	2.0	"	"	"	"	"	"	
C-B07-7-12/16/08 (0812371-03) Liquid	**Sampled: 12/16/08 10:39**		**Received: 12/16/08 13:35**						
Copper	**27**	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 19:05	EPA 200.8	
Zinc	**170**	2.0	"	"	"	"	"	"	
S-B08-14/C-B08-8-12/16/08 (0812371-04) Liquid	**Sampled: 12/16/08 04:00**		**Received: 12/16/08 13:35**						
Copper	**21**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**140**	1.0	"	"	"	"	"	"	
S-B06-12-12/16/08 (0812371-10) Liquid	**Sampled: 12/16/08 02:05**		**Received: 12/16/08 13:35**						
Copper	**11**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**23**	1.0	"	"	"	"	"	"	
S-B12-13-12/16/08 (0812371-11) Liquid	**Sampled: 12/16/08 01:06**		**Received: 12/16/08 13:35**						
Copper	**14**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**20**	1.0	"	"	"	"	"	"	
C-B07-7-12/16/08-BL (0812371-12) Liquid	**Sampled: 12/16/08 10:39**		**Received: 12/16/08 13:35**						
Copper	ND	2.0	µg/L	2	B8L2322	12/23/08	12/30/08 19:17	EPA 200.8	
Zinc	ND	2.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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	01/22/09 15:39

Metals (Dissolved) by EPA 200 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-B08-14-12/16/08-DUP (0812371-13) Liquid	**Sampled: 12/16/08 04:00**		**Received: 12/16/08 13:35**						
Copper	**20**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**140**	1.0	"	"	"	"	"	"	
S-B08-1/S-B08-2 Composite (0812371-15) Liquid	**Sampled: 12/16/08 00:00**		**Received: 12/16/08 13:35**						
Copper	**16**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**100**	1.0	"	"	"	"	"	"	
S-B09-3/S-B11-4 Composite (0812371-16) Liquid	**Sampled: 12/16/08 00:00**		**Received: 12/16/08 13:35**						
Copper	**19**	1.0	µg/L	1	B9A2226	12/23/08	12/30/08 19:30	EPA 200.8	
Zinc	**160**	1.0	"	"	"	"	"	"	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B01-1-12/16/08 (0812371-01) Liquid	**Sampled: 12/16/08 10:10**	**Received: 12/16/08 13:35**							
Diesel Range Organics (C10-C24)	**1.1**	0.050	mg/L	1	B8L3025	12/29/08	12/29/08 18:22	EPA 8015B	D-40
Surrogate: o-Terphenyl		*146 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*146 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**1.3**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*146 %*	*60-175*		"	"	"	"	
C-B05-4-12/16/08 (0812371-02) Liquid	**Sampled: 12/16/08 10:19**	**Received: 12/16/08 13:35**							
Diesel Range Organics (C10-C24)	**1.4**	0.050	mg/L	1	B8L3025	12/29/08	12/29/08 18:58	EPA 8015B	D-40
Surrogate: o-Terphenyl		*158 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*158 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**2.5**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*158 %*	*60-175*		"	"	"	"	
C-B07-7-12/16/08 (0812371-03) Liquid	**Sampled: 12/16/08 10:39**	**Received: 12/16/08 13:35**							
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L3025	12/29/08	12/29/08 19:34	EPA 8015B	D-42
Surrogate: o-Terphenyl		*106 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*106 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.90**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*106 %*	*60-175*		"	"	"	"	
S-B08-14/C-B08-8-12/16/08 (0812371-04) Liquid	**Sampled: 12/16/08 04:00**	**Received: 12/16/08 13:35**							
Diesel Range Organics (C10-C24)	**0.52**	0.050	mg/L	1	B8L3025	12/29/08	12/29/08 20:09	EPA 8015B	D-40
Surrogate: o-Terphenyl		*135 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*135 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.92**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*135 %*	*60-175*		"	"	"	"	

SIERRA ANALYTICAL

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	01/22/09 15:39

Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-B07-7-12/16/08-BL (0812371-12) Liquid	**Sampled: 12/16/08 10:39**	**Received: 12/16/08 13:35**							
Diesel Range Organics (C10-C24)	ND	0.050	mg/L	1	B8L3025	12/29/08	12/29/08 20:45	EPA 8015B	D-42
Surrogate: o-Terphenyl		*126 %*	*60-175*		"	"	"	"	
Jet-A	ND	0.050	"	"	"	"	"	"	D-42
Surrogate: o-Terphenyl		*126 %*	*60-175*		"	"	"	"	
Oil Range Organics (C22-C36)	**0.19**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*126 %*	*60-175*		"	"	"	"	

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.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
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E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

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	01/22/09 15:39

Metals 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 B8L2321 - EPA 200 Series										
Blank (B8L2321-BLK1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	ND	50	µg/L							
Copper	ND	2.0	"							
Iron	ND	0.050	mg/L							
Lead	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L2321-BS1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	89.6	50	µg/L	100		89.6	85-115			
Copper	92.1	2.0	"	100		92.1	85-115			
Iron	0.865	0.050	mg/L	1.00		86.5	85-115			
Lead	107	2.0	µg/L	100		107	85-115			
Zinc	98.0	2.0	"	100		98.0	85-115			
Matrix Spike (B8L2321-MS1)	**Source: 0812467-17**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	87.2	50	µg/L	100	ND	87.2	70-130			
Copper	103	2.0	"	100	19	84.0	70-130			
Iron	0.807	0.050	mg/L	1.00	ND	80.7	70-130			
Lead	95.3	2.0	µg/L	100	ND	95.3	70-130			
Zinc	123	2.0	"	100	42	81.0	70-130			
Matrix Spike Dup (B8L2321-MSD1)	**Source: 0812467-17**			Prepared: 12/23/08 Analyzed: 12/30/08						
Aluminum	87.8	50	µg/L	100	ND	87.8	70-130	0.686	20	
Copper	103	2.0	"	100	19	84.0	70-130	0.00	20	
Iron	0.820	0.050	mg/L	1.00	ND	82.0	70-130	1.60	20	
Lead	96.4	2.0	µg/L	100	ND	96.4	70-130	1.15	20	
Zinc	125	2.0	"	100	42	83.0	70-130	1.61	20	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

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 B8L2322 - EPA 200 Series										
Blank (B8L2322-BLK1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
Blank (B8L2322-BLK2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	ND	2.0	µg/L							
Zinc	ND	2.0	"							
LCS (B8L2322-BS1)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	85.8	2.0	µg/L	100		85.8	85-115			
Zinc	92.4	2.0	"	100		92.4	85-115			
LCS (B8L2322-BS2)				Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	90.2	2.0	µg/L	100		90.2	85-115			
Zinc	96.7	2.0	"	100		96.7	85-115			
Matrix Spike (B8L2322-MS1)	**Source: 0812327-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	86.1	2.0	µg/L	100	3.1	83.0	70-130			
Zinc	87.9	2.0	"	100	4.3	83.6	70-130			
Matrix Spike (B8L2322-MS2)	**Source: 0812371-03**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	111	2.0	µg/L	100	27	84.0	70-130			
Zinc	249	2.0	"	100	170	79.0	70-130			
Matrix Spike Dup (B8L2322-MSD1)	**Source: 0812327-01**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	86.7	2.0	µg/L	100	3.1	83.6	70-130	0.694	20	
Zinc	88.1	2.0	"	100	4.3	83.8	70-130	0.227	20	
Matrix Spike Dup (B8L2322-MSD2)	**Source: 0812371-03**			Prepared: 12/23/08 Analyzed: 12/30/08						
Copper	115	2.0	µg/L	100	27	88.0	70-130	3.54	20	
Zinc	249	2.0	"	100	170	79.0	70-130	0.00	20	

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SIERRA ANALYTICAL

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:** 01/22/09 15:39

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8L3025 - EPA 3510C Sep Funnel										
Blank (B8L3025-BLK1)				Prepared & Analyzed: 12/29/08						
Diesel Range Organics (C10-C24)	ND	0.050	mg/L							D-42
Jet-A	ND	0.050	"							
Oil Range Organics (C22-C36)	ND	0.050	"							
Surrogate: o-Terphenyl	*0.148*		"	*0.100*		*148*	*60-175*			
Surrogate: o-Terphenyl	*0.148*		"	*0.100*		*148*	*60-175*			
Surrogate: o-Terphenyl	*0.148*		"	*0.100*		*148*	*60-175*			
LCS (B8L3025-BS1)				Prepared & Analyzed: 12/29/08						
Diesel Range Organics (C10-C24)	0.504	0.050	mg/L	0.500		101	80-120			
Diesel Range Organics (C10-C24)	0.504	0.050	"	0.500		101	80-120			
Diesel Range Organics (C10-C24)	0.504	0.050	"	0.500		101	80-120			
LCS (B8L3025-BS2)				Prepared & Analyzed: 12/29/08						
Diesel Range Organics (C10-C24)	0.563	0.050	mg/L	0.500		113	80-120			
Diesel Range Organics (C10-C24)	0.563	0.050	"	0.500		113	80-120			
Diesel Range Organics (C10-C24)	0.563	0.050	"	0.500		113	80-120			
LCS Dup (B8L3025-BSD1)				Prepared & Analyzed: 12/29/08						
Diesel Range Organics (C10-C24)	0.539	0.050	mg/L	0.500		108	80-120	6.71	30	
Diesel Range Organics (C10-C24)	0.539	0.050	"	0.500		108	80-120	6.71	30	
Diesel Range Organics (C10-C24)	0.539	0.050	"	0.500		108	80-120	6.71	30	

SIERRA ANALYTICAL

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:** 01/22/09 15:39

Notes and Definitions

D-40	Sample appears to be a mixture of fuel hydrocarbons. Diesel Range Organics (C10-C24) reported.
D-42	Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.
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

PTS Laboratories, Inc.

8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

January 05, 2009

Nick Forsyth
Sierra Analytical Laboratories, Inc.
26052 Merit Circle, Suite 105
Laguna Hills, CA 92653

Re: PTS File No: 381157
0812371

Dear Mr. Forsyth:

Please find enclosed report for Physical Properties analyses conducted upon fluids received from your 0812371 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2504.

Sincerely,
PTS Laboratories, Inc.

Rachel Spitz
Project Manager

Encl.

PTS Laboratories

Project Name: N/A
Project Number: 0812371

PTS File No: 381157
Client: Sierra Analytical Labs, Inc.

TEST PROGRAM

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis ASTM D4464M					Notes
		Plugs:	Grab					
Rcvd. 12/29/08								
S-B06-12-12/16/08 (0812371-10)	N/A	N/A	X					
TOTALS:	cores	1	1					

Laboratory Test Program Notes

PTS Laboratories, Inc.

Sierra Analytical Labs, Inc.
PTS File No: 381157

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D4464M)

ROJECT NAME: N/A
ROJECT NO: 0812371

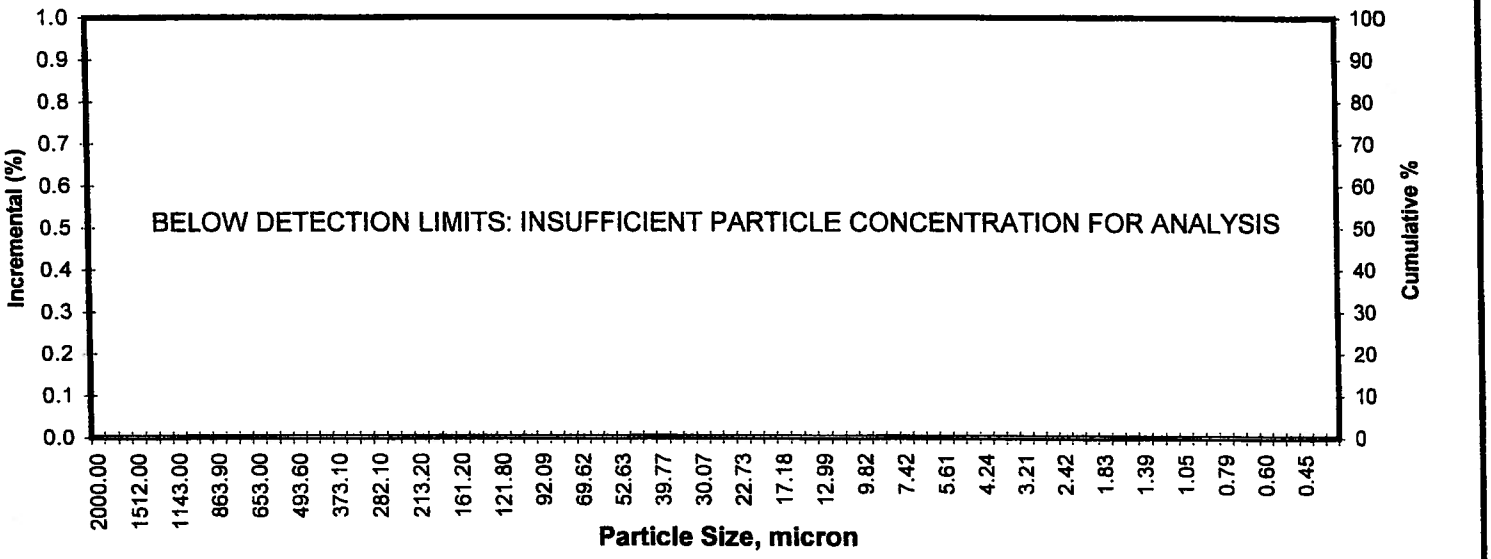
Sample ID	Matrix	Median Grain Size, micron (1)	CUMULATIVE PERCENT GREATER THAN Distribution percent, microns									
			5%	10%	16%	25%	40%	50%	60%	75%	84%	90%	95%
S-B06-12-12/16/08 (0812371-10)	Aqueous	N/A	BELOW DETECTION LIMITS: INSUFFICIENT CONCENTRATION FOR ANALYSIS										

(1) Based on Trask Median

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client:	Sierra Analytical Labs, Inc.	**PTS File No:**	381157
Project:	N/A	**Sample ID:**	S-B06-12-12/16/08 (0812371-10)
Project No:	0812371	**Matrix:**	Aqueous



Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent
2000.00	0.00	0.0
1822.00	0.00	0.0
1660.00	0.00	0.0
1512.00	0.00	0.0
1377.00	0.00	0.0
1255.00	0.00	0.0
1143.00	0.00	0.0
1041.00	0.00	0.0
948.20	0.00	0.0
863.90	0.00	0.0
786.90	0.00	0.0
716.90	0.00	0.0
653.00	0.00	0.0
594.90	0.00	0.0
541.90	0.00	0.0
493.60	0.00	0.0
449.70	0.00	0.0
409.60	0.00	0.0
373.10	0.00	0.0
339.80	0.00	0.0
309.60	0.00	0.0
282.10	0.00	0.0
256.80	0.00	0.0
234.10	0.00	0.0
213.20	0.00	0.0
194.20	0.00	0.0
176.80	0.00	0.0
161.20	0.00	0.0
146.80	0.00	0.0
133.70	0.00	0.0
121.80	0.00	0.0
111.00	0.00	0.0
101.10	0.00	0.0
92.09	0.00	0.0
83.90	0.00	0.0
76.43	0.00	0.0
69.62	0.00	0.0
63.41	0.00	0.0
57.77	0.00	0.0

Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent
52.63	0.00	0.0
47.93	0.00	0.0
43.66	0.00	0.0
39.77	0.00	0.0
36.24	0.00	0.0
33.00	0.00	0.0
30.07	0.00	0.0
27.38	0.00	0.0
24.95	0.00	0.0
22.73	0.00	0.0
20.70	0.00	0.0
18.86	0.00	0.0
17.18	0.00	0.0
15.65	0.00	0.0
14.26	0.00	0.0
12.99	0.00	0.0
11.83	0.00	0.0
10.78	0.00	0.0
9.82	0.00	0.0
8.94	0.00	0.0
8.15	0.00	0.0
7.42	0.00	0.0
6.76	0.00	0.0
6.16	0.00	0.0
5.61	0.00	0.0
5.11	0.00	0.0
4.66	0.00	0.0
4.24	0.00	0.0
3.86	0.00	0.0
3.52	0.00	0.0
3.21	0.00	0.0
2.92	0.00	0.0
2.66	0.00	0.0
2.42	0.00	0.0
2.21	0.00	0.0
2.01	0.00	0.0
1.83	0.00	0.0
1.67	0.00	0.0
1.52	0.00	0.0

Particle Diameter, micron	Particle Distribution	
	Incremental percent	Cumulative percent
1.385	0.000	0.0
1.261	0.000	0.0
1.149	0.000	0.0
1.047	0.000	0.0
0.953	0.000	0.0
0.869	0.000	0.0
0.791	0.000	0.0
0.721	0.000	0.0
0.657	0.000	0.0
0.598	0.000	0.0
0.545	0.000	0.0
0.496	0.000	0.0
0.452	0.000	0.0
0.412	0.000	0.0
0.375	0.000	0.0
TOTALS:	**0.00**	**0.0**

Measure	Trask	Inman
Median, mm	N/A	N/A
Median, micron	N/A	N/A
Mean, mm	N/A	N/A
Mean, micron	N/A	N/A
Sorting	N/A	N/A
Skewness	N/A	N/A
Kurtosis	N/A	N/A

Distribution percent	Cumulative Percent greater than Particle Size	
	Micron	Millimeters
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
#REF!	N/A	N/A
0	N/A	N/A

Phone: (562) 907-3607
Fax: (562) 907-3611

SIERRA ANALYTICAL

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 0812371

#381157

Comments

SENDING LABORATORY:

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

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

RECEIVING LABORATORY:

PTS Laboratories
8100 Secura Way
Santa Fe Springs, CA 90670
Phone : (562) 907-3607
Fax: (562) 907-3610

Analysis	Expires	Sampled:	Laboratory ID	Comments
Sample ID: S-B06-12-12/16/08 (0812371-10) Liquid		**12/16/08 02:05**		
Full Particle Sizing	06/14/09 02:05			

Containers Supplied:
1L Amber (C)

Special Instructions :

☒ Intact ☐ Sample Seals
☐ Properly Labeled ☒ Chilled TEMP (°C) 5.2°C
☒ Appropriate Container ☐ Preservatives - Verified By _____

Relinquished By	Date / Time 12/29/08 / 10:27	Received By PTS	Date / Time 12.29.08 1027
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

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Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 4 Samples
Project Name: #0812371
Method : EPA 8015B
Investigation: Glycols

Laboratory No: 980680
Report Date: December 24, 2008
Sampling Date: December 16, 2008
Receiving Date: December 18, 2008
Analysis Date: December 22, 2008
Units: mg/L
Dilution Factor: 2
Reported By: MK

Analytical Results

Sample ID	Sample Description	Propylene Glycol	Ethylene Glycol	Surrogate (1-Butanol)	Surrogate % Recovery
707930-MB	Method Blank	ND	ND	180	90.2%
980680-1	0812371-01	ND	ND	177	89%
980680-2	0812371-02	ND	ND	189	94%
980680-3	0812371-03	ND	ND	183	91%
980680-4	0812371-07	ND	ND	194	97%
Practical Quantitation Limits		5.0	5.0	Surrogate Conc. = 200	APR = 50-200%
Sample RLs		**10.0**	**10.0**		

ND: Not detected, or below limit of detection.
RL: Reporting limit, or least amount of analyte quantifiable based on average sample size used and analytical technique employed.
APR: Allowable Percent Recovery

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

TRUESDAIL LABORATORIES, INC.

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REPORT

Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite #105
Laguna Hills, CA 92653

Attention: Nick Forsyth
Sample: Liquid / 4 Samples
Project Name: #0812371
Method Number: EPA 8015B
Investigation: Glycols

QA/QC Batch No: 707930
Laboratory No: 980680
Report Date: December 24, 2008
Sampling Date: December 16, 2008
Receiving Date: December 18, 2008
Analysis Date: December 22, 2008
Units: mg/L
Reported By: MK

Quality Control/Quality Assurance Calibration Check Report

	MRCVS (1)				
Parameter	Spiked Concentration	Recovered Concentration	Percent Recovery	Flag	Accuracy Control Limits
Propylene Glycol	50.0	41.1	82.2%	PASS	70-130
Ethylene Glycol	50.0	37.7	75.4%	PASS	70-130

Quality Control/Quality Assurance Spikes Report

	LCS/LCSD							
Parameter	Spike Conc.	Recovered Concentration		Percent Recovery (%)		RPD (%)	Flag	Accuracy Control Limits
		LCS	LCSD	LCS	LCSD			RPD / % Recovery
Propylene Glycol	50.0	55.0	57.7	110%	115%	4.79%	PASS	20 / 70-130
Ethylene Glycol	50.0	44.5	49.3	89%	99%	10.21%	PASS	20 / 70-130

MRCVS: Mid Range Calibration Verification Standard
LCS: Laboratory Control Spike
LCSD: Laboratory Control Spike Duplicate
RPD: Relative Percent Difference
Flag: "Pass" if within Control Limits; otherwise "Fail"

Rossina Tomova, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

SIERRA ANALYTICAL

SUBCONTRACT ORDER

Sierra Analytical Labs, Inc.

Sierra Project #: 0812371

980680

Comments

SENDING LABORATORY:

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

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

RECEIVING LABORATORY:

Truesdail Laboratories, Inc.
14201 Franklin Ave
Tustin, CA 92780
Phone : (714) 730-6239
Fax: (714) 730-6462

Analysis	Expires	Sampled:	Laboratory ID	Comments
-1 **Sample ID: C-B01-1-12/16/08 (0812371-01)**	**Liquid**	**12/16/08 10:10**	[redacted]	Rec'd 12/18/08 s24b 980680
8015B Glycols A,B	12/30/08 10:10			
Containers Supplied: Voa Vial (C) Voa Vial (D)				
-2 **Sample ID: C-B05-4-12/16/08 (0812371-02)**	**Liquid**	**12/16/08 10:19**	[redacted]	
8015B Glycols	12/30/08 10:19			
Containers Supplied: Voa Vial (C) Voa Vial (D)				
-3 **Sample ID: C-B07-7-12/16/08 (0812371-03)**	**Liquid**	**12/16/08 10:39**	[redacted]	
8015B Glycols	12/30/08 10:39			
Containers Supplied: Voa Vial (C) Voa Vial (D)				
-4 **Sample ID: S-B08-2-12/15/08 (0812371-07)**	**Liquid**	**12/15/08 13:35**	[redacted]	
8015B Glycols	12/29/08 13:35			
Containers Supplied: Voa Vial (A) Voa Vial (B)				

Per Sample Conditions See Form Attached

Special Instructions :

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

Relinquished By	12-18-08 / 1455 Date / Time	L. Shelleeeine Received By	12/18/08 Date / Time
Relinquished By	Date / Time	Received By	Date / Time
Relinquished By	Date / Time	Received By	Date / Time

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

CHAIN OF CUSTODY RECORD

Date: ____/____/____ Page: 3 of 7

Lab Work Order No.: 0901037

Client:	MACTEC
Client Address:	9177 SKY PARK COURT
	SAN DIEGO, CA 92123
Client Tel. No.:	(858) 278-3600
Client Fax. No.:	(858) 278-5300
Client Proj. Mgr.:	

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, ammonia, MBAS, O&G, TPH (jet fuel,motor oil,diesel)	Field Point Names / Comments
~~C-B07-6~~				STORMWATER	NONE	PLASTIC	2	X					
~~C-B07-6~~				STORMWATER	NONE	40ml VOA	2		X				
~~C-B07-6~~				STORMWATER	NONE	CLR GLASS	1			X			
~~C-B07-6~~				STORMWATER	NONE	AMBER GLASS	1				X		
C-B07-7- 12-16-08	03	12/16/08	10:39	STORMWATER	NONE	PLASTIC	2	X					
C-B07-7- 12-16-08	↓	12/16/08	10:39	STORMWATER	NONE	40ml VOA	2		X				
C-B07-7- 12-16-08		12/16/08	10:39	STORMWATER	NONE	CLR GLASS	1			X			
C-B07-7- 12-16-08		12/16/08	10:39	STORMWATER	NONE	AMBER GLASS	1				X		
S-B08-14/C-B08-8- 12-16-08	04	12/16/08	04:00	STORMWATER	NONE	5 GALL GLASS						X	
~~S-B08-14/C-B08-8-~~				STORMWATER	NONE	~~40ml VOA~~	~~2~~		~~X~~				

Geotracker EDD Info:

Client LOGCODE

Site Global ID

1 Sampler Signature:

Printed Name:

Shipped Via:

(Carrier/Waybill No.)

Total Number of Containers Submitted to Laboratory

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

2 Relinquished By: K. H. Date: 12/16 Time: 1400 Company: MACTEC

Received By: Date: 12-16-08 Time: 1400 Company: Sierra

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

Total Number of Containers Received by Laboratory

3 Relinquished By: Date: Time: Company:

Received By: Date: Time: Company:

4 Relinquished By: Date: Time: Company:

Received By: Date: Time: Company:

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (°C) 4.0
☐ Sample Seals ☐ Preservatives Verified By:
☑ Properly Labelled ☐ Other:
☑ Appropriate Sample Container ☑ Storage Location: R-103

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

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SIERRA ANALYTICAL

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CHAIN OF CUSTODY RECORD

Date: 12/16/08 Page: 1 of 7

Lab Work Order No.: 0901631

Client:	MACTEC
Client Address:	9177 SKY PARK COURT SAN DIEGO, CA 92123
Client Tel. No.:	(858) 278-3600
Client Fax. No.:	(858) 278-5300
Client Proj. Mgr.:	

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)
C-B01-1- 12-16-08	01	12/16/08	10:10	STORMWATER	NONE	PLASTIC	2	X			
C-B01-1- 12-16-08		12/16/08	10:10	STORMWATER	NONE	40ml VOA	2		X		
C-B01-1- 12-16-08		12/16/08	10:10	STORMWATER	NONE	CLR GLASS	1			X	
C-B01-1-12-16-08	↓	12/16/08	10:10	STORMWATER	NONE	AMBER GLASS	1				X
~~C-B02-2-~~				~~STORMWATER~~	~~NONE~~	~~PLASTIC~~	~~2~~	~~X~~			
~~C-B02-2-~~				~~STORMWATER~~	~~NONE~~	~~40ml VOA~~	~~2~~		~~X~~		
~~C-B02-2-~~				~~STORMWATER~~	~~NONE~~	~~CLR GLASS~~	~~1~~			~~X~~	
~~C-B03-2-~~				~~STORMWATER~~	~~NONE~~	~~AMBER GLASS~~	~~1~~				~~X~~
~~C-B03-3-~~				~~STORMWATER~~	~~NONE~~	~~PLASTIC~~	~~2~~	~~X~~			
~~C-B05-2-~~				~~STORMWATER~~	~~NONE~~	~~40ml VOA~~	~~2~~		~~X~~		

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Field Point Names / Comments

1 Sampler Signature: | Printed Name: | Shipped Via: | (Carrier/Waybill No.)

Total Number of Containers Submitted to Laboratory

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

2 Relinquished By:	Date: 12/16	Received By:	Date: 12-16-08
Company: MACTEC	Time: 1400	Company: SCS/A	Time: 1400
3 Relinquished By:	Date:	Received By:	Date:
Company:	Time:	Company:	Time:
4 Relinquished By:	Date:	Received By:	Date:
Company:	Time:	Company:	Time:

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

Total Number of Containers Received by Laboratory

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (C) 4.0
☐ Sample Seals ☐ Preservatives - Verified By
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location 123

Rev: 021104

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

CHAIN OF CUSTODY RECORD

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Date: ____/____/____ Page: 2 of 7

Lab Work Order No.: _____

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.:

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)
~~C-B05-3-~~				STORMWATER	NONE	CLR GLASS	1			X	
~~C-B05-3-~~				STORMWATER	NONE	AMBER GLASS	1				X
C-B05-4- 12-16-08	02	12/16/08	10:19	STORMWATER	NONE	PLASTIC	2	X			
C-B05-4- 12-16-08		12/16/08	10:19	STORMWATER	NONE	40ml VOA	2		X		
C-B05-4- 12-16-08		12/16/08	10:19	STORMWATER	NONE	CLR GLASS	1			X	
C-B05-4- 12-16-08		12/16/08	10:19	STORMWATER	NONE	AMBER GLASS	1				X
~~C-B06-5~~				STORMWATER	NONE	PLASTIC	2	X			
~~C-B06-5~~				STORMWATER	NONE	40mlVOA	2		X		
~~C-B06-5-~~				STORMWATER	NONE	CLR GLASS	1			X	
~~C-B06-5-~~				STORMWATER	NONE	AMBER GLASS	1				X

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Field Point Names / Comments

1 Sampler Signature:
Printed Name:
Shipped Via:
(Carrier/Waybill No.)

Total Number of Containers Submitted to Laboratory

2 Relinquished By: [signature] Date: 12/16 Time: 1400
Company: MACTEC
Received By: [signature] Date: 12-16-08 Time: 1400
Company: Stetson

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

Total Number of Containers Received by Laboratory

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

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

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

Special Instructions:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (°C) 4.0
☐ Sample Seals ☐ Preservatives - Verified By:
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location 013

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

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FAX: 949 • 348 • 9115
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CHAIN OF CUSTODY RECORD

Date: ____/____/____ Page: 4 of 7

Lab Work Order No.: 0812371

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.:

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOC, COD, ammonia, MBAS	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	Field Point Names / Comments
C-B12-9-				STORMWATER	NONE	PLASTIC	2	X					
C-B12-9-					NONE	40ml VOA	2		X				
C-B12-9-				STORMWATER	NONE	CLR GLASS	1			X			
C-B12-9-				STORMWATER	NONE	AMBER GLASS	1				X		
C-B09-10-				STORMWATER	NONE	PLASTIC	2	X					
C-B09-10-				STORMWATER	NONE	40ml VOA	2		X				
C-B09-10-				STORMWATER	NONE	CLR GLASS	1			X			
C-B09-10-				STORMWATER	NONE	AMBER GLASS	1				X		
S-B08-1- 12-16-08	04	12/16/08	00:29	STORMWATER	NONE	5 GALL GLASS						X	composite together with S-B08-2 and analyze as 1 sample
C-B08-1-				STORMWATER	NONE	40ml VOA	2		X				

Geotracker EDD Info:
Client LOGCODE
Site Global ID

1 Sampler Signature:
Printed Name:
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: [signature] Date: 12/16 Time: 1400
Company: MACTEC
Received By: [signature] Date: 12-16-08 Time: 1400
Company: Stead

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

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

Special Instructions:

Total Number of Containers Submitted to Laboratory

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (°C) 4.0
☐ Sample Seals ☐ Preservatives - Verified By
☑ Properly Labelled ☐ Other
☑ Appropriate Sample Container ☑ Storage Location 013

Rev: 021104

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

CHAIN OF CUSTODY RECORD

Date: ___/___/___ Page: 5 of 7

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

Lab Work Order No.: 0812371

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.:

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	ethylene glycol	Total & dissolved Cu and Zn	Geotracker EDD Info: / Client LOGCODE / Site Global ID / Field Point Names / Comments
S-B08-2- 12-16-08	06	12/16/08	00:21	STORMWATER	NONE	5 GALL GLASS		X			composite together with S-B08-1 and analyze as 1 sample
S-B08-2- 12-15-08	07	12/15/08	13:35	STORMWATER	NONE	40ml VOA	2		X		
S-B09-3- 12-16-08	08	12/16/08	02:35	STORMWATER	NONE	5 GALL GLASS		X			composite together with S-B11-4 and analyze as 1 sample
S-B11-4- 12-16-08	09	12/16/08	00:42	STORMWATER	NONE	5 GALL GLASS		X			composite together with S-B09-3 and analyze as 1 sample
S-B11-4				STORMWATER	NONE	40ml VOA	2		X		
S-B05-5				STORMWATER	NONE	5 GALL GLASS				X	
S-B07-6				STORMWATER	NONE	PLASTIC	1			X	
S-B12-7				STORMWATER	NONE	PLASTIC	1			X	
S-B08-8				STORMWATER	NONE	PLASTIC	1			X	
S-B09-9				STORMWATER	NONE	PLASTIC	1			X	

Total Number of Containers Submitted to Laboratory

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

1 Sampler Signature:
Printed Name:
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: T- H Date: 12/16 Time: 1400
Company: MACTEC
Received By: Steve D Date: 12-16-08 Time: 1400
Company:

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

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

Special Instructions:

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

Total Number of Containers Received by Laboratory

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☑ Intact ☑ Chilled - Temp (°C): 4.6
☐ Sample Seals ☐ Preservatives - Verified By:
☑ Properly Labelled ☐ Other:
☑ Appropriate Sample Containers ☑ Storage Location: VOC3

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

Rev: 021104

SIERRA ANALYTICAL

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

CHAIN OF CUSTODY RECORD

Date: ____/____/____ Page: 6 of 7

Lab Work Order No.: 0812371

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.:

Client Project ID: SAN DIEGO AIRPORT

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

Analyses Requested

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Total & dissolved Cu and Zn	ethylene glycol	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, SC, tot(Al,Cu,Fe,Pb,Zn), diss(Cu,Zn) BOD, COD, O&G	O&G, SC, pH, TSS, total (Al, Cu, Fe, Pb, Zn), dissolved (Cu, Zn), BOD, COD, particle size distribution	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS
~~S-B06-10~~				STORMWATER	NONE	PLASTIC	1	X						
~~S-B06-11~~				STORMWATER	NONE	PLASTIC	1	X						
S-B06-12- 12-16-08	10	12/16/08	0905	STORMWATER	NONE	5 GALL GLASS							X	
~~S-B06-12~~				STORMWATER	NONE	40ml VOA	3		X					
S-B12-13- 12-16-08	11	12/16/08	0906	STORMWATER	NONE	5 GALL GLASS						X		
~~S-B12-13~~				STORMWATER	NONE	40ml VOA	2		X					
~~C~~ -DUP				STORMWATER	NONE	PLASTIC	2						X	
~~C~~ -DUP				STORMWATER	NONE	40ml VOA	2		X					
~~C~~ -DUP				STORMWATER	NONE	5LR GLASS	1			X				
~~C~~ -DUP				STORMWATER	NONE	AMBER GLASS	1				X			

Geotracker EDD Info:
Client LOGCODE
Site Global ID
Field Point Names / Comments

1 Sampler Signature:
Printed Name:
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: [signature] Date: 12/16 Time: 1400
Company: MACTEC
Received By: [signature] Date: 12/16/08 Time: 1400
Company: Sierra

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

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

Special Instructions:

Total Number of Containers Submitted to Laboratory

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

Total Number of Containers Received by Laboratory

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

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☒ Intact ☒ Chilled - Temp (°C) 4.6
☐ Sample Seals ☐ Preservatives - Verified By:
☒ Properly Labelled ☐ Other
☒ Appropriate Sample Containers ☒ Storage Location V103

Rev: 021104

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

CHAIN OF CUSTODY RECORD

Date: ___/___/___ Page: 7 of 7

Lab Work Order No.: 0810321

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

Client: MACTEC
Client Address: 9177 SKY PARK COURT
SAN DIEGO, CA 92123
Client Tel. No.: (858) 278-3600
Client Fax. No.: (858) 278-5300
Client Proj. Mgr.:

Client Project ID: SAN DIEGO AIRPORT

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

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, ammonia, MBAS	oil and grease (O&G)	TPH (jet fuel, diesel, motor oil)	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), diss(Cu,Zn), BOD, COD, oil & grease	pH, TSS, Specific Conductance, (SC) tot(Al,Cu,Fe, Pb,Zn), BOD, COD, oil & grease	Field Point Names / Comments
C-B07-7 – 12-16-08-BL	12	12/16/08	10:39	STORMWATER	NONE	PLASTIC	2	X					
C-B07-7-12-16-08-BL	1	12/16/08	10:39	STORMWATER	NONE	CLR GLASS	1		X				
C-B07-7-12-16-08-BL	↓	12/16/08	10:39	STORMWATER	NONE	AMBER GLASS	1			X			
S-B08-14-12-16-08DUP	13	12/16/08	04:00	STORMWATER	NONE	5 GALL GLASS					X		
S-B08-1-12-16-08-BL	14	12/16/08	00:29	STORMWATER	NONE	5 GALL GLASS						X	
S-B08-1/S-B08-2 Composite 15													
S-B07-3/S-B11-4 Composite 16													

Total Number of Containers Submitted to Laboratory

Total Number of Containers Received by Laboratory

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

1 Sampler Signature:
Printed Name:
Shipped Via:
(Carrier/Waybill No.)

2 Relinquished By: [signature] Date: 12-16 Time: 1400
Company: MACTEC
Received By: [signature] Date: 12-16-08 Time: 1400
Company: SIERRA

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

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

Special Instructions:

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses 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.

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
☒ Intact
☐ Sample Seals
☒ Properly Labelled
☒ Appropriate Sample Container
☒ Chilled - Temp (°C) 4.0
☐ Preservatives Verified By:
☐ Other
☒ Storage Location VR03

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

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