

## ANNUAL REPORT

### DALLAS LOVE FIELD AIRPORT

November 12, 2009

#### I. INTRODUCTION

On August 14, 2006, the Texas Commission on Environmental Quality (TCEQ) signed and published the final version of the Texas Pollutant Discharge Elimination System (TPDES) Storm Water Multi-Sector General Permit TXR050000. This permit oversees storm water discharges from 30 types of industrial activities, including those involving air transportation. Air transportation facilities that are classified as SIC Code 45 and which have vehicle maintenance shops, equipment cleaning operations, and airport or aircraft deicing/anti-icing operations are regulated under this permitting program. Areas located within a regulated air transportation facility that are directly involved in vehicle maintenance (e.g., vehicle rehabilitation, mechanical repairs, painting, fueling, lubrication, etc.), equipment cleaning activities, and airport or aircraft deicing operations are specified as industrial activities and require permit coverage. The specific requirements for these activities are found under Sector S of the TPDES Multi Sector General Permit.

The Aviation Department and tenants filed NOIs for the TPDES MS General Permit within 90 days of the implementation date. On July 1, 2003, the Aviation Department and its tenants transferred to the current Storm Water Pollution Prevention Plan (SWPPP), dated June 2003. This SWPPP replaced the "Dallas Love Field Airport Storm Water Pollution Plan, City of Dallas, Texas" dated September 1996 for the Aviation Department and their tenants. The 2003 SWPPP meets the TPDES MS General Permit. This version of the SWPPP is also available for review online. (Some tenants may also have individual SWPPPs that are more specific to their industrial activity and are more stringent than this document.)

This permit requires that qualified personnel conduct a "Comprehensive Site Compliance Evaluation" at least once a year.

Objectives of this comprehensive evaluation are as follows:

1. Confirm the accuracy of the description of potential pollutant sources contained in the SWPPP.
2. Determine the effectiveness of the SWPPP.
3. Modify the SWPPP as necessary.
4. Assess compliance with the terms and conditions of the facility's storm water permit.

The Dallas Love Field (DAL) site compliance evaluations were conducted by Dallas Department of Aviation (DOA) Environmental Specialists and Pollution Prevention Team (PPT) members. Dallas Storm Water also accompanied the pollution prevention team on these inspections.

This annual report is required by the permit. It defines the scope and summarizes the Comprehensive Site Compliance Evaluation performed for the 2009 permit year. It is to be retained as part of the SWPPP for at least three years from date of evaluation.

The current SWPPP for DAL was made effective June, 2003. It identified airport operators that have elected to become co-permittees with the DOA to obtain General Permit coverage for storm water discharges associated with industrial activities from their area of operation. It also included an inventory of exposed materials, descriptions of potential pollution sources as well as pollution prevention measures and controls. All airport operators that became co-permittees by the SWPPP effective date and whose employees or subtenants perform industrial activities were included in this Comprehensive Site Compliance Evaluation. Results of this Evaluation are presented as Attachment 1. For the purpose of implementing the SWPPP, the permit year is from January 1 to December 31, and the deicing season from October 1 to March 1, or from the first deicing event if prior to October

#### **TCEQ Airport Inspection**

The TCEQ did not inspect Love Field during this permit term.

#### **Dallas Storm Water Industrial Inspection**

Dallas Storm Water conducted an industrial storm water inspection at Dallas Love Field, that encompassed the Aviation Department and all permitted tenants.

## **II. SCOPE OF THE COMPREHENSIVE SITE COMPLIANCE EVALUATION**

The Comprehensive Site Compliance Evaluation was conducted in each operator's lease or contracted work area(s) as well as applicable DOA work areas and associated storm water structural control facilities. The evaluation process consisted of several parts, including:

1. Verification of owner/operator information
2. Confirmation of the accuracy of potential pollutant sources as reported in the SWPPP
3. Review of operator's recordkeeping practices, and
4. Assessment of compliance with terms and conditions of the permit as reflected by operator compliance with the measures and controls contained in the SWPPP.

Initially, operator/leaseholder information was obtained and recorded. This included the name and telephone number of the operator or operator's representative present during the evaluation, leaseholder or subtenant status, and, if a subtenant, the name of the leaseholder's representative present during the evaluation.

The second component of the evaluation confirmed information regarding potential pollutant sources as currently recorded in the SWPPP. The airport operator's industrial activity summary contained in Appendix I of the SWPPP was reviewed and the operator/leasehold site map was revised, if necessary, to reflect any changes in the occurrence of industrial activities.

The third component related to the operator's recordkeeping practices. Important records, such as the operator's TCEQ permit number, certifications, deicing records (if applicable), completed self-inspection forms, training records, etc, were to be kept in the SWPPP or referenced elsewhere. A discussion was held with the operator/leaseholder emphasizing the importance of retaining these records in an accessible manner.

The fourth component of the evaluation assessed compliance with permit conditions and is related to the inspection process described in Section VI of the DAL SWPPP. As described in the SWPPP, a two-part inspection process has been implemented in response to the general permit requirements. The first part is an annual self-inspection conducted by the operator. Inspection checklists that pertain to specific industrial activities are to be completed by the operator during the self-inspection process. The Comprehensive Site Compliance Evaluation is the second part of the process, and it follows the completion of the operator's self-inspection.

The inspection checklists are as follows:

- Aircraft, Ground Vehicle, and Equipment Maintenance Areas
- Aircraft, Ground Vehicle, and Equipment Cleaning Areas
- Chemical/Material Storage Areas
- Fueling Activities
- Training Program
- Deicing Activities
- Tenant/Operator Storm Water and Pollution Controls
- DOA Storm Water Structures, Pollution Controls and Sediment Controls
- Wet Weather Visual Inspections
- Dry Weather Evaluations

During the fourth component of the Site Compliance Evaluation, the evaluation team reviewed copies of completed checklists, and a walk-through inspection of the operator's industrial area(s) was performed where adherence to the Best Management Practices (BMPs) was noted. If necessary, a follow-up inspection was scheduled to review actions taken by the operator to resolve SWPPP compliance issues. The evaluation inspections were also conducted for industrial activities performed in DOA work areas and for airport storm water structural controls.

### **III. RESULTS OF THE COMPREHENSIVE SITE COMPLIANCE EVALUATION**

The evaluation process was conducted from October 7, 2009 to November 11, 2009. It included all operators that were permitted in January 2009, and whose employees or subtenants were performing industrial activities at DAL. Attachment 1 of this report contains a summary of the compliance efforts of airport operators to implement measures and controls contained in the SWPPP. The information presented in this report is based on information obtained from the DAL Comprehensive Site Compliance Evaluation process. The compliance report in Attachment 1 lists the operator under evaluation, the date(s) of the evaluation, PPT personnel conducting the evaluation, major observations relating to implementation of the SWPPP and identification of any incidents of noncompliance. It is to be kept for a minimum of three years from the date of evaluation. The major observations that were noted during the evaluation process are described below.

#### **Aircraft, Vehicle, and Equipment Maintenance Areas**

There were no incidents of non-compliance noted for this item during the site inspections at Dallas Love Field. In all instances maintenance activities were located under cover, drip pans were used when needed, spill kits were placed in appropriate locations, daily visual inspections were performed, proper disposal procedures noted for spent rags and wipes, temporary berms around drains were used properly.

#### **Chemical/Material Storage Areas**

There were two cases of non-compliance noted for this item during the facility inspections at Dallas Love Field. Southwest Airlines and Avis rent a car had chemicals stored outdoors without the proper BMP controls in place. In both instances the companies have moved the chemicals under cover and onto secondary containment where applicable. No other inappropriate storage practices were found, and drums were stored indoors or under cover with secondary containment. Dumpsters were kept closed during business, or closed at the end of the business day. Each tenant performs daily visual inspections of their leasehold area.

#### **Spill Control Equipment**

There were no incidents of non-compliance noted for this item during the site inspections at Dallas Love Field. All members of the SWPPP have spill control equipment that is easily accessible, clearly labeled, and used spill containment/clean-up material disposal is in accordance with the SWPPP. Spill response and reporting plans were sufficient.

#### **Aircraft, Vehicle and Equipment Wash Area**

There were no cases of non-compliance recorded during the site evaluation of Dallas Love Field.. All permittees are following the proper procedures and BMPs.

#### **Fueling Activity**

There were no cases of non-compliance recorded during the site evaluation of Dallas Love Field. All fueling BMPs were followed.

## **Training Program**

The following tenant was missing training documentation: Vanguard Car Rental. All other tenants have the necessary training documentation recording the date of training and who attended the training.

## **Aircraft Deicing Activity**

Operators who conduct aircraft and/or runway deicing/anti-icing activities are required to periodically re-evaluate present operating procedures. In this way, alternative practices can be considered for reduction of the overall amount of deicing/anti-icing chemicals used and/or lessening of the environmental impact of the pollutant source.

Often, deicing of aircraft is performed outside of the operator's leasehold. A deicing committee was created to facilitate the development of dry-weather deicing procedures and deicing agent disposal procedures, etc., to be performed at DAL. These procedures are discussed in greater detail in Section V.

The environmental office of the Aviation Department retains the records that have been submitted.

## **Recordkeeping and Documentation**

There were several deficiencies noted in recordkeeping and documentation. The following tenants were missing at least one quarterly checklist: Vitesse, Pinnacle/Delta, Southwest Airlines, Signature Flight Support, Jet Aviation, Vanguard Rent a Car, and Sky Tanking. Retraining will be done on the checklists and emphasis on their importance will be discussed at the annual meeting.

## **Inspection of DOA Storm Water Structural Controls at DAL**

There are several features constructed as part of the airport drainage system that enhance the quality of storm water. The Comprehensive Site Compliance Evaluation included inspection of these structural controls. The existing control measures at Love Field consist of Stormceptors, Outfall Closure Devices, grass-lined ditches and swales that serve to decrease the velocity of storm water runoff.

The storm water structural controls were inspected at Dallas Love Field, and all are functioning properly.

#### **IV. SIGNIFICANT REVISIONS TO THE SWPPP**

As a result of the Comprehensive Site Compliance Evaluation performed for the 2009 permit year, revisions were made to the SWPPP to strengthen its pollution prevention objectives and to make it more user friendly to the airport operators. Below are descriptions of the most significant revisions that were made to the DAL SWPPP.

The SWPPP will is now available on line at [http://dallascityhall.com/aviation/lovefield\\_swppp.html](http://dallascityhall.com/aviation/lovefield_swppp.html) and because of this tenants with internet access are no longer be required to maintain a hard copy of this document. Tenants are still responsible for reviewing the SWPPP as it is updated, completing and retaining their appropriate checklists, and retaining other required documentation associated with the SWPPP and making it available for review upon request. To facilitate the record keeping process new notebooks with the appropriate dividers were assigned to each tenant.

Compliance with the TPDES MSGP has increased as a result the changes made to the SWPPP in 2009.

##### **Record of Amendments**

A sheet listing all revisions to the SWPPP was developed to assist co-permittees in keeping track of the changes made throughout the year.

##### **Site-Specific Best Management Practices**

Site-specific BMPs have been developed by some of the airport operators to specifically describe pollution prevention procedures to be used only in the operator's lease area. No new BMPs have been added. Prior to implementation, each airport operator must submit a description of the BMP to the DOA for written approval. Once approval is received, the operator may implement the site-specific BMP in the operator's lease area. The operator can lose the privilege of implementing site-specific BMPs if the operator does not adhere to the approved procedures.

##### **Recordkeeping and Documentation**

The requirement for tenants to complete quarterly visual wet weather monitoring at designated Storm Water Monitoring Locations (SWMLs) has successfully been implemented. Also the revisions to the checklist requirement has proved more efficient and helped to achieve compliance throughout the facilities.

**V. MAJOR OBSERVATIONS RELATING TO SWPPP IMPLEMENTATION**

Overall, implementation of the SWPPP at DAL by industrial operators appears to be successful. The same can be said for the operator self-inspection process and Comprehensive Site Compliance Evaluation, except as noted.

The overall number of discrepancies decreased from previous years. There was no indication that any soil or water contamination occurred as a result of the discrepancies, and the annual sampling report reflected this.

All tenants found to be in compliance during their comprehensive site compliance evaluation have or will submit a certification of compliance for their facility to the Department of Aviation. All tenants found to be in non-compliance during their comprehensive site compliance evaluation have 30 days to correct any issues and submit a certification of compliance to the Department of Aviation.

**CERTIFICATION**

Permit/Registration No. TXR 05V383

I, Steven Peacock, Ph.D. Environmental Manager  
*Typed or printed name* *Title*

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

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign this document and can provide documentation in proof of such authorization upon request.

Signature: Steven Peacock Date: 11-13-09



2009 Wet Weather Monitoring

Wet weather monitoring was conducted on April 17, 2009 at Outfalls 4, 10, 13, 16, 17, and 18. Outfalls 2 and 5 were unable to be sampled on April 17<sup>th</sup> and were sampled during the next wet weather event on May 11, 2009. Sampling was conducted within two hours of rainfall commencement but given the drainage system a first flush sample was still able to be collected. Visual monitoring was also conducted. The results of the laboratory analysis for metals indicate no evidence of pollutants in these samples. The levels identified in the Barium and Manganese sampling result primarily from background levels in the attendant soils. The levels from Zinc are usually associated with galvanized fences and guardrails. Some zinc is also present in the soils of surrounding areas. For more information on wet weather monitoring see the table below or the attached laboratory analysis from Xenco Laboratories.

**Dallas Love Field  
Annual Storm Water Results – 2009**

Pollutant	Recordable Level	Daily Maximum Concentration (mg/L)	OF-2	OF-4	OF-5	OF-10	Pollutant Exceeded
Arsenic	0.010	0.3	BRL	BRL	BRL	BRL	NO
Barium	0.010	4.0	0.011	0.011	0.011	0.090	NO
Cadmium	0.005	0.2	BRL	BRL	BRL	BRL	NO
Chromium	0.005	5.0	BRL	BRL	BRL	0.023	NO
Copper	0.010	2.0	BRL	BRL	BRL	BRL	NO
Lead	0.012	1.5	BRL	BRL	BRL	0.020	NO
Manganese	0.010	3.0	BRL	0.029	BRL	0.318	NO
Mercury	0.0001	0.01	BRL	BRL	BRL	BRL	NO
Nickel	0.010	3.0	BRL	BRL	BRL	0.012	NO
Selenium	0.010	0.2	BRL	BRL	BRL	BRL	NO
Silver	0.004	0.2	BRL	BRL	BRL	BRL	NO
Zinc	0.010	6.0	0.161	0.033	BRL	0.045	NO

BRL = Below Recordable Level

Pollutant	Recordable Level	Daily Maximum Concentration (mg/L)	OF-13	OF-16	OF-17	OF-18	Pollutant Exceeded
Arsenic	0.010	0.3	BRL	BRL	BRL	BRL	NO
Barium	0.010	4.0	0.024	0.022	0.034	0.021	NO
Cadmium	0.005	0.2	BRL	BRL	BRL	BRL	NO
Chromium	0.005	5.0	BRL	BRL	BRL	BRL	NO
Copper	0.010	2.0	BRL	BRL	BRL	BRL	NO
Lead	0.012	1.5	BRL	BRL	BRL	0.015	NO
Manganese	0.010	3.0	0.031	0.027	BRL	0.079	NO
Mercury	0.0001	0.01	BRL	BRL	BRL	BRL	NO
Nickel	0.010	3.0	BRL	0.013	BRL	BRL	NO
Selenium	0.010	0.2	BRL	BRL	BRL	BRL	NO
Silver	0.004	0.2	BRL	BRL	BRL	BRL	NO
Zinc	0.010	6.0	0.063	0.053	0.013	0.047	NO

**HAZARDOUS METALS - INLAND WATERS**

STW / TXR05 V383 / CO

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME** City of Dallas  
**ADDRESS** 8008 Cedar Springs Rd LB 16  
 Dallas TX 75235

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
**DISCHARGE MONITORING REPORT (DMR)**  
 (2-16) TXR05V383  
 PERMIT NUMBER  
 (17-19) N/A  
 DISCHARGE NUMBER

**NOTE: Enter your authorization number in the underlined space in the upper right hand corner of this page. Example: STW/ TXR05J102/ CO**

**FACILITY LOCATION**  
 Dallas Love Field

**MONITORING PERIOD**  
 YEAR MO DAY YEAR MO DAY  
 2009 01 01 2009 12 31  
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

Only if required, mail to: TCEQ (MC 213)  
 P.O. Box 13087  
 Austin, TX 78711-3087

PARAMETER (32-37)	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (38-45)			MAXIMUM (54-61)	UNITS	NO. EX (92-93)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	UNITS					
Arsenic	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	0	1/Year	Grab
Barium	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.3 Daily Max	0	0	1/Year	Grab
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.090	0	0	1/Year	Grab
Cadmium	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	4.0 Daily Max	0	0	1/Year	Grab
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	0	1/Year	Grab
Chromium	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	0.2 Daily Max	0	0	1/Year	Grab
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.023	0	0	1/Year	Grab
Copper	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	5.0 Daily Max	0	0	1/Year	Grab
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	BRL	0	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	2.0 Daily Max	0	0	1/Year	Grab
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	mg/l	0	0	1/Year	Grab

CERTIFY UNDER PENALTY OF LAW THAT THE DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED BASED ON AN INQUIRY OF THE PERSON OR PERSONS WHO DAMAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION. THE INFORMATION SUBMITTED IS COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. TRUE ACCURATE AND COMPLETE THE NAME, TITLE AND SIGNATURE OF THE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT AND THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

*Steven S. Peacock*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 214-670-6654  
 AREA CODE NUMBER YEAR MO DAY  
 2009 04 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
**BRL = Below Recordable Limits**

EPA Form 3320-1 (3-99) (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED) PAGE 1 OF 3

HAZARDOUS METALS - INLAND WATERS

STW / TXR05 V383 / CO

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
 NAME **City of Dallas**  
 ADDRESS **8008 Cedar Springs Rd LB 16**  
**Dallas TX 75235**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)  
 (2-16) **TXR05V383**  
 PERMIT NUMBER  
 (17-19) **N/A**  
 DISCHARGE NUMBER

NOTE: Enter your authorization number in the underlined space in the upper right hand corner of this page. Example: STW/ TXR05102/ CO


FACILITY LOCATION  
**Dallas Love Field**

MONITORING PERIOD  
 YEAR MO DAY  
 2009 01 01  
 (20-21) (22-23) (24-25)  
 YEAR MO DAY  
 2009 12 31  
 (26-27) (28-29) (30-31)

Only if required, mail to: TCEQ (MC 213)  
 P.O. Box 13087  
 Austin, TX 78711-3087

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Lead	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	1/Year	Grab	
	SAMPLE REQUIREMENT	*****	*****	*****	*****	1.5 Daily Max	0	1/Year	Grab	
Manganese	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.318	0	1/Year	Grab	
	SAMPLE REQUIREMENT	*****	*****	*****	*****	3.0 Daily Max	0	1/Year	Grab	
Mercury	SAMPLE MEASUREMENT	*****	*****	*****	*****	BRL	0	1/Year	Grab	
	SAMPLE REQUIREMENT	*****	*****	*****	*****	0.01 Daily Max	0	1/Year	Grab	
Nickel	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.013	0	1/Year	Grab	
	SAMPLE REQUIREMENT	*****	*****	*****	*****	3.0 Daily Max	0	1/Year	Grab	
Selenium	SAMPLE MEASUREMENT	*****	*****	*****	*****	BRL	0	1/Year	Grab	
	SAMPLE REQUIREMENT	*****	*****	*****	*****	0.2 Daily Max	0	1/Year	Grab	

CERTIFY UNDER PENALTY OF LAW THAT THE DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO IDENTIFIED THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR THE INFORMATION. I AM NOT PROVIDING INFORMATION TO THE BEST OF MY KNOWLEDGE AND BELIEVE THE INFORMATION IS TRUE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES AND COMPLETE FINE INFORMATION INCLUDING THE POSSIBILITY OF THE AND IMPROVEMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  


TELEPHONE **214-670-6654**  
 AREA CODE NUMBER YEAR MO DAY  
**2009 04 27**

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
**Rpl. & Ralaw Recountable 1 Inths**  
 EPA Form 3320-1 (3-99)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

# HAZARDOUS METALS - INLAND WATERS

STW / TXR05 V383 / CO

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**City of Dallas**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

NAME  
**City of Dallas**

TXR05V383  
 PERMIT NUMBER

(17-19)  
 N/A  
 DISCHARGE NUMBER

ADDRESS  
**8008 Cedar Springs Rd LB 16  
 Dallas TX 75235**

(2-16)  
 YEAR MO DAY  
 2009 01 01  
 (20-21) (22-23) (24-25)

Only if required, mail to: TCEQ (MC 213)  
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FACILITY LOCATION  
**Dallas Love Field**

MONITORING PERIOD  
 YEAR MO DAY  
 2009 12 31  
 (26-27) (28-29) (30-31)

PARAMETER (32-37)	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (36-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
Silver	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	*****	0	1/Year	Grab
Zinc	SAMPLE MEASUREMENT REQUIREMENT	*****	*****	*****	*****	*****	*****	0	1/Year	Grab
	SAMPLE REQUIREMENT	*****	*****	*****	*****	*****	*****	0	1/Year	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**Steven S. Peacock, Ph.D.  
 Environmental Manager**

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  


TELEPHONE  
**214-670-6654**

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
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CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION REPORTED HEREON. I AM AWARE THAT THERE ARE SEVERAL FEDERAL, STATE, AND LOCAL REGULATIONS THAT APPLY TO THIS INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

DATE  
**2009 04 27**

# Analytical Report 332344

for

**City of Dallas-Aviation**

**Project Manager: Sam Peacock**

--

**DAL**

**18-MAY-09**



**9701 Harry Hines Blvd, Dallas, TX 75220**

**Ph:(214) 902-0300 Fax:(214) 351-9139**

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



18-MAY-09

Project Manager: **Sam Peacock**  
**City of Dallas-Aviation**  
8008 Ceder Springs Rd. LB16  
Dallas, TX 75235

Reference: XENCO Report No: **332344**

--  
Project Address: --

**Sam Peacock:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 332344. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 332344 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Carlos Castro**

Managing Director, Texas

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.  
Certified and approved by numerous States and Agencies.  
A Small Business and Minority Status Company that delivers SERVICE and QUALITY  
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America*



## CASE NARRATIVE

*Client Name: City of Dallas-Aviation*

*Project Name: --*

*Project ID: DAL*  
*Work Order Number: 332344*

*Report Date: 18-MAY-09*  
*Date Received: 05/11/2009*

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**Sample receipt non conformances and Comments:**

*None*

---

**Sample receipt Non Conformances and Comments per Sample:**

*None*



# Certificate of Analysis Summary 332344

## City of Dallas-Aviation, Dallas, TX

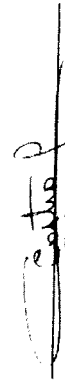
Project Id: DAL  
 Contact: Sam Peacock  
 Project Location: --

Date Received in Lab: Mon May-11-09 01:50 pm  
 Report Date: 18-MAY-09  
 Project Manager: Monica Tobar

Analysis Requested		Lab Id:	332344-001	332344-002
Field Id:	Depth:	OF-2	OF-5	
Matrix:	Matrix:	WATER	WATER	
Sampled:	Sampled:	May-11-09 10:35	May-11-09 10:42	
Extracted:	Extracted:	May-14-09 08:00	May-14-09 08:00	
Analyzed:	Analyzed:	May-14-09 12:20	May-14-09 12:21	
Units/RL:	Units/RL:	mg/L RL	mg/L RL	
Mercury		BRL 0.0001	BRL 0.0001	
<b>Metals per ICP by EPA 200.7</b>				
Arsenic		May-13-09 06:00	May-13-09 06:00	
Barium		May-14-09 11:52	May-14-09 11:54	
Cadmium		mg/L RL	mg/L RL	
Chromium		BRL 0.010	BRL 0.010	
Copper		0.011 0.010	0.011 0.010	
Lead		BRL 0.005	BRL 0.005	
Manganese		BRL 0.005	BRL 0.005	
Nickel		BRL 0.010	BRL 0.010	
Selenium		BRL 0.012	BRL 0.012	
Silver		BRL 0.010	BRL 0.010	
Zinc		BRL 0.010	BRL 0.010	
		BRL 0.010	BRL 0.010	
		0.161 0.010	0.161 0.010	

This analytical report, and the entire data package is representative, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty in the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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 Carlos Castro  
 Laboratory Manager





# Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

\* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

**Project Name: --**

Work Order #: 332344

Analyst: DAT

Lab Batch ID: 758909

Sample: 529931-1-BKS

Date Prepared: 05/14/2009

Batch #: 1

Project ID: DAL

Date Analyzed: 05/14/2009

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0001	0.0050	0.0051	102	0.005	0.0051	102	0	75-125	20	

Analyst: DAT

Lab Batch ID: 758916

Sample: 529848-1-BKS

Date Prepared: 05/13/2009

Batch #: 1

Date Analyzed: 05/14/2009

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.04	104	1	1.05	105	1	75-125	20	
Barium	<0.010	1.00	1.01	101	1	1.02	102	1	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	1.04	104	1	75-125	20	
Chromium	<0.005	1.00	1.08	108	1	1.09	109	1	75-125	20	
Copper	<0.010	1.00	1.04	104	1	1.07	107	3	75-125	20	
Lead	<0.012	1.00	1.03	103	1	1.05	105	2	75-125	20	
Manganese	<0.010	1.00	0.957	96	1	0.993	99	4	75-125	20	
Nickel	<0.010	1.00	1.08	108	1	1.08	108	0	75-125	20	
Selenium	<0.010	1.00	1.04	104	1	1.05	105	1	75-125	20	
Silver	<0.004	1.00	1.02	102	1	1.05	105	3	75-125	20	
Zinc	<0.010	1.00	1.02	102	1	1.03	103	1	75-125	20	

Relative Percent Difference RPD =  $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] =  $100 * (C)/(B)$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/(E)$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MSD Recoveries



Project Name: -

Work Order #: 332344

Lab Batch ID: 758909

Date Analyzed: 05/14/2009

Reporting Units: mg/L

Project ID: DAL

QC- Sample ID: 332077-002 S

Date Prepared: 05/14/2009

Batch #: 1 Matrix: Water

Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	0.0001	0.0050	98	0.0050	0.0050	98	0	75-125	20	

Lab Batch ID: 758916

Date Analyzed: 05/14/2009

Reporting Units: mg/L

QC- Sample ID: 332048-001 S

Date Prepared: 05/13/2009

Batch #: 1 Matrix: Water

Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<b>Metals per ICP by EPA 200.7</b>										
Arsenic	<0.010	1.05	105	1.00	1.05	105	0	75-125	20	
Barium	0.014	1.04	103	1.00	1.05	104	1	75-125	20	
Cadmium	<0.005	1.06	106	1.00	1.06	106	0	75-125	20	
Chromium	<0.005	1.08	108	1.00	1.09	109	1	75-125	20	
Copper	<0.010	1.07	107	1.00	1.09	109	2	75-125	20	
Lead	<0.012	1.04	104	1.00	1.04	104	0	75-125	20	
Manganese	<0.010	1.05	105	1.00	1.03	103	2	75-125	20	
Nickel	<0.010	1.07	107	1.00	1.08	108	1	75-125	20	
Selenium	<0.010	1.04	104	1.00	1.04	104	0	75-125	20	
Silver	<0.004	1.04	104	1.00	1.06	106	2	75-125	20	
Zinc	<0.010	1.03	103	1.00	1.03	103	0	75-125	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQ = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E





### Prelogin / Nonconformance Report - Sample Log-In

Client: City of Dallas  
 Date/Time: 05/11/09  
 Lab ID #: 330344  
 Initials: AM

#### Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No
2. Shipping container in good condition?	<u>Yes</u>	No	None
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>
4. Chain of Custody present?	<u>Yes</u>	No	
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No	
6. Any missing / extra samples?	Yes	<u>No</u>	
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No	
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No	
9. Container labels legible and intact?	<u>Yes</u>	No	
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No	
11. Samples in proper container / bottle?	<u>Yes</u>	No	
12. Samples properly preserved?	<u>Yes</u>	No	N/A
13. Sample container intact?	<u>Yes</u>	No	
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	
15. All samples received within sufficient hold time?	<u>Yes</u>	No	
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>
18. Cooler 1 No. _____ Cooler 2 No. _____ Cooler 3 No. _____ Cooler 4 No. _____ Cooler 5 No. _____	lbs <u>3</u> °C _____	lbs _____ °C _____	lbs _____ °C _____

#### Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- Check all that apply:
- Client understands and would like to proceed with analysis
  - Cooling process had begun shortly after sampling event

# Analytical Report 330460

for

**Dallas Aviation**

**Project Manager: Sam Peacock**

**Dallas Love Field**

--

**23-APR-09**



**9701 Harry Hines Blvd, Dallas, TX 75220**

**Ph:(214) 902-0300 Fax:(214) 351-9139**

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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23-APR-09

Project Manager: **Sam Peacock**  
**Dallas Aviation**  
8008 Cedar Springs Rd. LB16  
Dallas, TX 75235

Reference: XENCO Report No: **330460**  
**Dallas Love Field**  
Project Address: --

**Sam Peacock :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 330460. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 330460 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

---

**Carlos Castro**

Managing Director, Texas

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# Certificate of Analysis Summary 330460

Dallas Aviation, Dallas, TX

Project Id: --  
 Contact: Sam Peacock  
 Project Location: --

Date Received in Lab: Fri Apr-17-09 03:35 pm  
 Report Date: 23-APR-09


Project Name: Dallas Love Field

Project Manager: Monica Tobar

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	330460-001	330460-002	330460-003	330460-004	330460-005	330460-006
<b>Mercury by EPA 245.1</b>						OF4 WATER Apr-17-09 10:35	OF18 WATER Apr-17-09 10:45	OF17 WATER Apr-17-09 11:00	OF16 WATER Apr-17-09 11:14	OF10 WATER Apr-17-09 11:38	OF13 WATER Apr-17-09 12:16
	Extracted:	Apr-21-09 06:40	Apr-21-09 06:40	Apr-21-09 06:40	Apr-21-09 06:40	BRL 0.0001	BRL 0.0001	BRL 0.0001	BRL 0.0001	BRL 0.0001	BRL 0.0001
	Analyzed:	Apr-21-09 10:43	Apr-21-09 10:45	Apr-21-09 10:46	Apr-21-09 10:48	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Units/RL:	BRL 0.0001	BRL 0.0001	BRL 0.0001	BRL 0.0001	RL	RL	RL	RL	RL	RL
<b>Metals per ICP by EPA 200.7</b>											
	Extracted:	Apr-21-09 07:15	Apr-21-09 07:15	Apr-21-09 07:15	Apr-21-09 07:15	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010
	Analyzed:	Apr-21-09 14:41	Apr-21-09 14:42	Apr-21-09 14:43	Apr-21-09 14:48	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
	Units/RL:	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	RL	RL	RL	RL	RL	RL
Arsenic						BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010
Barium						0.011 0.010	0.021 0.010	0.034 0.010	0.022 0.010	0.090 0.010	0.024 0.010
Cadmium						BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Chromium						BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005	BRL 0.005
Copper						BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010
Lead						BRL 0.012	0.015 0.012	BRL 0.012	BRL 0.012	BRL 0.010	BRL 0.010
Manganese						0.029 0.010	0.079 0.010	BRL 0.010	0.027 0.010	0.020 0.012	BRL 0.012
Nickel						BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	0.318 0.010	BRL 0.010
Selenium						BRL 0.010	BRL 0.010	BRL 0.010	BRL 0.010	0.012 0.010	BRL 0.010
Silver						BRL 0.004	BRL 0.004	BRL 0.004	BRL 0.004	BRL 0.010	BRL 0.010
Zinc						0.033 0.010	0.047 0.010	0.013 0.010	0.053 0.010	BRL 0.004	BRL 0.004
										0.045 0.010	0.063 0.010

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 Carlos Castro  
 Laboratory Manager





# Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL and above the SQL.
  - U** Analyte was not detected.
  - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  - K** Sample analyzed outside of recommended hold time.
  - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Outside XENCO's scope of NELAC Accreditation.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



# BS / BSD Recoveries



Project Name: Dallas Love Field

Work Order #: 330460

Analyst: DAT

Lab Batch ID: 756411

Sample: 528556-1-BKS

Date Prepared: 04/21/2009

Batch #: 1

Project ID: --

Date Analyzed: 04/21/2009

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0001	0.0050	0.0050	100	0.005	0.0049	98	2	75-125	20	

Date Analyzed: 04/21/2009

Matrix: Water

Date Prepared: 04/21/2009

Batch #: 1

Sample: 528556-1-BKS

Analyst: DAT

Lab Batch ID: 756534

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.010	1.00	1.04	104	1	1.07	107	3	75-125	20	
Barium	<0.010	1.00	1.04	104	1	1.04	104	0	75-125	20	
Cadmium	<0.005	1.00	1.05	105	1	1.06	106	1	75-125	20	
Chromium	<0.005	1.00	1.09	109	1	1.08	108	1	75-125	20	
Copper	<0.010	1.00	1.08	108	1	1.07	107	1	75-125	20	
Lead	<0.012	1.00	1.06	106	1	1.06	106	0	75-125	20	
Manganese	<0.010	1.00	1.04	104	1	1.04	104	0	75-125	20	
Nickel	<0.010	1.00	1.11	111	1	1.11	111	0	75-125	20	
Selenium	<0.010	1.00	1.01	101	1	1.03	103	2	75-125	20	
Silver	<0.004	1.00	1.07	107	1	1.07	107	0	75-125	20	
Zinc	<0.010	1.00	1.04	104	1	1.06	106	2	75-125	20	

Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Blank Spike Recovery [D] = 100\*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]

All results are based on MDL and Validated for QC Purposes



# Form 3 - Metals / MSD Recoveries



Project Name: Dallas Love Field

Work Order #: 330460

Lab Batch ID: 756411

Date Analyzed: 04/21/2009

Reporting Units: mg/L

Project ID: --

QC-Sample ID: 330090-001 S

Batch #: 1 Matrix: Water

Date Prepared: 04/21/2009 Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.0001	0.0050	0.0046	92	0.0050	0.0047	94	2	75-125	20	

Lab Batch ID: 756534

QC-Sample ID: 330402-001 S

Batch #: 1 Matrix: Water

Date Prepared: 04/21/2009 Analyst: DAT

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.010	1.00	1.06	106	1.00	1.04	104	2	75-125	20	
<0.010	1.00	1.03	103	1.00	1.04	104	1	75-125	20	
<0.005	1.00	1.05	105	1.00	1.06	106	1	75-125	20	
<0.005	1.00	1.08	108	1.00	1.08	108	0	75-125	20	
<0.010	1.00	1.07	107	1.00	1.10	110	3	75-125	20	
<0.012	1.00	1.07	107	1.00	1.06	106	1	75-125	20	
0.015	1.00	1.04	103	1.00	1.05	104	1	75-125	20	
<0.010	1.00	1.10	110	1.00	1.11	111	1	75-125	20	
<0.010	1.00	1.02	102	1.00	1.02	102	0	75-125	20	
<0.004	1.00	1.05	105	1.00	1.08	108	3	75-125	20	
0.020	1.00	1.04	102	1.00	1.07	105	3	75-125	20	

## Metals per ICP by EPA 200.7

### Analytes

Arsenic  
Barium  
Cadmium  
Chromium  
Copper  
Lead  
Manganese  
Nickel  
Selenium  
Silver  
Zinc

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



4141 Greenbriar Drive, StaRford, TX 77477 281-589-0892  
 5332 Blackberry Drive, San Antonio, TX 78238 210-508-3334  
 9701 Harry Hines Blvd, Dallas, TX 75220 214-962-0300

**ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**  
 12600 West 1-20 East, Odessa, TX 79765 432-563-1800  
 842 Garwood, Corpus Christi, TX 78408 361-894-0371

Page of

Company City: Dallas  
 Department: Aviation  
 Project ID: 214-170-16654  
 Phone: 214-170-16654  
 Fax to: Steven Peacock  
 Project Name/Location: Dallas Love Field  
 Previously done at XENCO:

Proj State: AL, CO, FL, GA, LA, MS, NC, NJ, NM, OK, PA, SC, TN, TX, UT, Other  
 Proj. Manager (PM): Steven Peacock  
 e-mail to PM: Steven.Peacock@halsbachhall.com

Invoice to:  Accounting  Inc. Invoice with Report  Invoice must have a P.O. or Bill to:  
 Quote/Pricing: P.O. No:  Call for P.O.  
 Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp (NPD&S) DW

GAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:  
 Special DLs (GW DW GAPP MDLs RIs See Lab PM Included Call PM.)  
 LPST No.:  Dry Basis

Sampler Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Sample ID	Sampling Date	Time	Depth ft. in.	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
OE 4	4/17/09	10:15					1			
OE 18	"	10:45					1			
OE 17	"	11:00					1			
OE 16	"	11:14					1			
OE 10	"	11:38					1			
OE 13	"	12:14					1			
Retinquished by (Initials and Sign) _____ Date & Time _____										
Retinquished to (Initials and Sign) _____ Date & Time _____										
Lab: <u>Steven Peacock</u>										

Lab Only:  
 TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.  
 It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.  
 Serial #: 232880  
330460-D

VOCs BTEX-MTBE OXYG ETOH VOHS	8260 8021 602 624 524 TCLP/SPLP ( )
PAHs	8270 8270-SIM 8310
TPH:	TX1005 8015B 8015Mod 8015DRO 8015GRO 8015ORO
SVOCs	8270 8270-SIM 625 TCLP/SPLP ( )
Metals:	RCRA (4, 8, 11) Pb TCLP/SPLP ( ) Other:
Metals Method:	6010 6020 200.8 7470/245.1 7471
NORM Ra	226 228 Uranium
Asbestos	PLM PCM
Pesticides	8081 608 TCLP/SPLP ( )
Herbicides	8151615 TCLP/SPLP ( )
PCBS	8082 608
TAT	ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d
Addn:	PAH above mg/L W, mg/Kg S Highest Hit
Hold Samples	(Surcharges will apply and are pre-approved)
Sample Clean-ups	are pre-approved as needed
Remarks	
Addn:	
Date	
Rcv by:	
From:	

Total Containers per COC: \_\_\_\_\_ Cooler Temp: 8.2 C  
 Upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be hold 30 days after final report is e-mailed unless hereby requested. Rush Charges are pre-approved.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Ascic Acid/NaOH (A), ZnAcet/NaOH (Z), (Cool.<4C) (C), None (NA), See Label (L), Other (O)  
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipe (W), Other \_\_\_\_\_  
 Matrix: Air (A), Product (P), Solid(S), Water (W)  
 Committed to Excellence in Service and Quality since 1989  
 www.xenco.com



### Prelogin / Nonconformance Report - Sample Log-In

Client: Dallas Department of Avoto!  
 Date/Time: 04/11/09  
 Lab ID #: 330460  
 Initials: AM

### Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	<u>N/A</u>	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>82</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

### Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Regarding: No metals requested on coc.

Corrective Action Taken: Client needs 12 metals

Check all that apply:  Client understands and would like to proceed with analysis  
 Cooling process had begun shortly after sampling event