ANNUAL REPORT

DALLAS LOVE FIELD AIRPORT

April 27, 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 2008 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 March 16, 2009 to April 15, 2009. It included all operators that were permitted in January 2008, 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 two occurrences of non-compliance noted for this item during the facility inspections at Dallas Love Field. There was evidence of previous spills as a result of leaking equipment that had not been properly cleaned up in Gulfstream's leased area. Associated Air Center's leased area had evidence of spills as a result of an overflowing oil filter crusher that had not been cleaned up properly. In both instances the companies have implemented new BMPs to prevent these incidents from happening again. No other inappropriate practices were noted. In all other 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 two cases of non-compliance noted for this item during the site inspections at Dallas Love Field. The following tenants failed to maintain easily accessible and clearly labeled spill kits: Sky Tanking and Vanguard Rent a Car. In both instances the companies have labeled their spill kits and ensured their accessibility. In all other instances spill control equipment was accessible, and disposal of used spill containment/clean-up materials was in accordance with the SWPPP. Spill response and reporting plans were sufficient.

Aircraft, Vehicle and Equipment Wash Area

There were two cases of non-compliance recorded during the site inspections at Dallas Love Field regarding vehicle wash areas. Vanguard Car Rental and Southwest Airlines failed to use best management practices for vehicle washing, in that vehicles leaving the wash bays were allowed to

drip outside of the contained areas. In both instances the companies have instituted BMPs to prevent future non compliance. All other permitees 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 tenants are missing training documentation: Vitesse, Vanguard Car Rental, Avis Rent A Car, and Hertz. 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.

There were a few instances throughout the year of deicing fluid not being cleaned up properly after deicing activity was completed. The environmental office of the Aviation Department retains the records that have been submitted. In all instances the tenants did not perform their weekly deicing checklist as necessary. Retraining will be conducted and emphasis on the importance of this checklist will be discussed at the annual meeting.

Recordkeeping and Documentation

There were several deficiencies noted in recordkeeping and documentation. The following tenants were missing at least one quarterly checklist: Avis Rent a Car, Landmark Aviation, and American Airlines. All tenants failed to complete at least one quarterly visual wet weather inspection. Retraining will be conducted on this checklist and emphasis on the importance of this checklist 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 primarily of 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. Six new Outfall Closure Gate Devices and four Stormceptors have been installed and will act as structural controls at Dallas Love Field.

IV. SIGNIFICANT REVISIONS TO THE SWPPP

As a result of the Comprehensive Site Compliance Evaluation performed for the 2008 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 now be available on line at http://dallascityhall.com/aviation/lovefield_swppp.html and because of this the tenants with internet access will no longer be required to maintain a hard copy of this document. Tenants will still be responsible for reviewing this document as it is updated, completing and retaining their appropriate checklists, 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 will be assigned to each tenant.

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 been implemented. Also the checklist requirements have been revised to accommodate new more efficient and streamlined checklists.

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 already 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
properly gather and evaluate the information su persons who manage the system, or those perso	stem designed to assure that qualified personnel bmitted. Based on my inquiry of the person or ns directly responsible for gathering the best of my knowledge and belief, true, accurate, penalties for submitting false information.
I further certify that I am authorized under 30 T this document and can provide documentation in	exas Administrative Code §305.44 to sign
	Date: 4/28/2009

Wet Weather Monitoring

Wet weather monitoring was conducted on May 14, 2008 at Outfalls 1, 4, 5, 11, 15, 16, 18, and In-Flow 1. Sampling was conducted within one hour of rainfall commencement. 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 copper are also soil related and those 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 – 2008

Pollutant	Recordable Level	Daily Maximum Concentration (mg/L)	IF-1	OF-1	OF-4	OF-5	Pollutant Exceeded
Arsenic	0.010	0.3	BRL	BRL	BRL	BRL	NO
Barium	0.010	4.0	0.018	0.027	BRL	BRL	NO
Cadmium	0.005	0.2	BRL	BRL	BRL	BRL	NO
Chromium	0.005	5.0	BRL	0.006	BRL	BRL	NO
Copper	0.010	2.0	BRL	0.014	BRL	BRL	NO
Lead	0.012	1.5	BRL	0.015	BRL	BRL	NO
Manganese	0.010	3.0	0.059	0.053	BRL	BRL	NO
Mercury	0.0001	0.01	BRL	BRL	BRL	BRL	NO
Nickel	0.010	3.0	BRL	BRL	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	0.069	0.136	0.012	BRL	NO

BRL = Below Recordable Level

Pollutant	Recordable Level	Daily Maximum Concentration (mg/L)	OF-11	OF-15	OF-16	OF-18	Pollutant Exceeded
Arsenic	0.010	0.3	BRL	BRL	BRL	BRL	NO
Barium	0.010	4.0	BRL	0.026	0.018	0.022	NO
Cadmium	0.005	0.2	BRL	BRL	BRL	BRL	NO
Chromium	0.005	5.0	BRL	BRL	BRL	0.005	NO
Copper	0.010	2.0	BRL	0.011	0.016	BRL	NO
Lead	0.012	1.5	BRL	BRL	BRL	BRL	NO
Manganese	0.010	3.0	0.015	0.067	0.025	0.076	NO
Mercury	0.0001	0.01	BRL	0.0001	BRL	BRL	NO
Nickel	0.010	3.0	BRL	BRL	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	0.058	0.055	0.077	0.065	NO

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EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Outfall 3 had an exceedance in the level of Arsenic, it will be re-sampled during the next qualifying rain event.

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Approved OMB No. 2040-004

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of this page. Example: STW/ TXR05/1902/CO	right h	N TXE	e: STV	ice in	ed spa	of this page. Example: STW/ TXR05 1402/ CO	<u>오</u> =	(17-19)			(2-16)		6 Dallas Tx	8008 Cedar Springs Rd. STE 16 Dallas Tx	8008 Cedar Sp	ADDRESS
NOTE: Enter your authorization number in the	numi	ization	uthori	our a	nter y	OTE: E		T (DMR)	G REPOR	UNITORIN	DISCHARGE MONITORING REPOR	DISCH			of Dallas	NAME City of Dallas
•	/C0		V413	R05_\	STW / TXR05 V413	STV		YSTEM (MBDs	S NOITANIM	CHARGE EL	LLUTANT DIS	WATERS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NEDGES)	- INLAND	PERMITTEE NAME/ADDRESS (Include Facility Namuel Octation if Different) NATIONA NATIONA	NAME/ADDRESS (PERMITTEE
															11 12 1 1 1 2	

Outfall 3 had an exceedance in the level of Arsenic, it will be re-sampled during the next qualifying rain event.

EPA Form 3320-1 (3-99)

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

Form Approved AB No. 2040-004

Analytical Report 303833

for

Dallas Aviation

Project Manager: Sam Peacock

Annual Storm Water
DAL

20-MAY-08



9701 Harry Hines Blvd, Dallas, TX 75220 Ph:(214) 902-0300 Fax:(214) 351-9139

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



20-MAY-08

Project Manager: Sam Peacock

Dallas Aviation

8008 Cedar Springs Rd. LB16

Dallas, TX 75235

Reference: XENCO Report No: 303833

Annual Storm Water 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 303833. 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. 303833 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 303833 Dallas Aviation, Dallas, TX

Project Name: Annual Storm Water

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

Date Received in Lab: Wed May-14-08 11:20 am

Report Date: 20-MAY-08

0.005 0.010 0.012 0.010 0.010 0.010 0.010	## BRL 005 BRL 0.005 ## 0.016 0.010 0.011 0.010 ### BRL 0.012 BRL 0.012 ### BRL 0.010 0.067 0.010 ### BRL 0.010 BRL 0.010 ### BRL 0.010 BRL 0.010	BRL 0.005 BRL 0.005 0.016 0.010 0.011 0.010 BRL 0.012 BRL 0.012 BRL 0.015 0.010 BRL 0.010 BRL 0.010 BRL 0.010	BRL 0.005 BRL 0.005	BRL 005 BRL 0.005 0.016 0.010 0.011 0.010 BRI 0.012 BRL 0.012 0.025 0.010 0.067 0.010	BRL 005 BRL 0.005 0.016 0.010 0.011 0.010 BRI 0.012 BRL 0.012	m BRL 005 BRL 0010 0.011 0.011	m BRL 005 BRL 0.010 0.011	BRL .005 BRL		BRL 0.005	0.018 0.010 0.026	BRL 0.010 BRL	RL mg/L RL	May-19-08 12:31 May-19-08 12:32	May-16-08 09:04 May-16-08 09:04		mg/L RL	May-16-08 12:39 May-16-08 12:40	May-16-08 10:09 May-16-08 10:09	May-14-08 08:10 May-14-08 08:17	WATER WATER	Depth: N'A N/A	-	303833-001 303833-002
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0.015 0.053 BRL BRL BRI	0.015 0.053 BRL BRL	0.015 0.053 BRL	0.015 0.053	0.015	0.015	0.0		0.014	0.006	5 BRL 0.005	0 0.027 0.010	0 BRL 0.010	RL mg/L RL	May-19-08 12:34	May-16-08 09:04	BRL 0.0001]	May-16-08 12:43	May-16-08 10:09	May-14-08 08:30	WATER	V/N	0F-1	303833-004
BRL 0.010 BRL 0.010	BRL 0.010	BRL 0.010	RRI 0.010		BRL 0.010	BRL 0.012	BRL 0.010	Dal 0.000		BRL 0.005	BRL 0.010	BRL 0.010	mg/L RL	May-19-08 12:39	May-16-08 09:04	BRL 0.0001	mg/L RL	May-16-08 12:44	May-16-08 10:09	May-14-08 08:40	WATER	N/A	0F-5	303833-005
	1			1	BRL 0.010	BRL 0.012	BRIL 0.010	1		ĺ	-	BRL 0.010	mg/L RL	May-19-08 12:40	May-16-08 09:04	BRL 0.0001	mg/L RL	May-16-08 12:46	May-16-08 10:09	May-14-08 08:43	WATER	N/A	0F-4	303833-006

This analytical report, and the entire data package it represents, has been made for your evaluative and confidential use. This interpretations and results expressed throughout this analytical report represent the tree judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use, of the data bareby presented. Our liability is limited to the amount involved for this work order unless otherwise agreed to in writing.

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Carlos Castro Laboratory Manager



Certificate of Analysis Summary 303833

Dallas Aviation, Dallas, TX

Project Name: Annual Storm Water

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

Date Received in Lab: Wed May-14-08 11:20 am

Report Date: 20-MAY-08

Project Manager: Monica Tobar

Silver Nickel Barium Selenium Manganese Copper Lead Chromium Cadmium Arsenic Mercury, Total Metals per ICP by EPA 200.7 Mercury, Total by EPA 245.1 Analysis Requested Extracted: Extracted: Analyzed: Units/RL: Analyzed: Units/RL: Sampled: Field Id: Matrix: Depth: Lab Id: May-19-08 12:41 May-16-08 09:04 May-16-08 12:47 May-14-08 08:50 May-16-08 10:09 mg/L 303833-007 0.059 WATER BRL BRL BRL BRL 0.018 0.010 BRL 0.010 BRL 0.010 BRL 0.0001 I-W. N/A 0.010 0.010 0.005 0.012 0.005 0.004 0.010 0.010 RI. æ May-19-08 12:43 May-16-08 09:04 May-16-08 12:52 May-16-08 10:09 May-14-08 09:00 mg/L RL BRL 0.010 303833-008 0.065 0.010 0.076 0.010 0.005 0.005 0.022 0.010 BRL 0.004 BRL 0.012 BRL 0.0001 WATER BRL 0.010 BRL 0.005 0F-18 BRL 0.010 N/A 5

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

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Laboratory Manager Carlos Castro

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.
- ${f J}$ The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
- 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.
- * Outside XENCO'S scope of NELAC Accreditation

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Fax (281) 589-0695 (214) 351-9139 (210) 509-3335 (305) 620-2033 (305) 6449-5477	Phone (181) 589-0692 (214) 902 0300 (216) 509-3334 (813) 620-2000 (305) 823-8500 (377) 449-8800	11381 Meadowglen Lane Suite L Houston, Tx 77082-2647 9701 Harry Hines Blvd , Dallas, TX 75220 5332 Blackberry Drive, Suite 104, San Antonio, TX 78238 2505 N. Falkenburg Rd., Tampa, FL 33619 5757 NW 158th St, Miami Lakes, FL 33014 5017 Financial Dr., Morcross, GA 30071
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BS / BSD Recoveries

Project Name: Annual Storm Water

Work Order #: 303833

Analyst: DAT

Lab Batch ID: 722822

Sample: 509137-1-BKS

Date Prepared: 05/16/2008

Batch #: 1

Project ID: DAL Date Analyzed: 05/16/2008

Matrix: Water

Sample: 509133-1-BKS Blank Spike Blank Spike Blank Spike Dup. RPD Limits Limits Limits Spike Spike Spike Spike Spike Spike Dup. RPD Limits Limits Spike Dup. RPD Limits Limits Spike Dup. RPD Limits Limits Spike Spike Spike Spike Spike Spike Spike Spike Spike Dup. RPD Limits Limits Spike Dup. RPD Limits Spike Spi	East Datch 1D: /2305/	I sh Batak In. Tagas	Analyst: DAT		increary, rotal	Mercury Total	Analytes			Mercury, Total by EPA 245.1		Onto: mg/c	Thite mod
Blank Spike Blank Spike Spike Spike Spike Spike Spike Added Spike Dup. RPD Limits L	Sample: 509133-1-B								•	oy EPA 245.1			
PIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	KS		7		<0.0001		3	[Δ]	Sample Result	Blank			
PIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	Batch	ate Prepare			0.0050	[0]	₫		Added	Spike		BLANI	
PIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	#: 1	d: 05/16/200	071171000	0.00.0	9700 0	C	Kesult	opine.	Chillip	Riank		K/BLANK	
ank Bik. Spk liteate %R % % % %R %RPD Limits Limits Limits 14 175-125 20 Date Analyzed: 05/19/2008		ã		7,4	3	(D)	%R	эріке	DIMIN	DI.		SPIKE / F	
ank Blk. Spk Limits Limits HERE Hicate '%R '%' '%R' '%R' '%R' PD 11 [F] [G] 4 75-125 20 Date Analyzed: 05/19/2008				0.003	2002	E		Added	Spike	<u> </u>	7 A. 1 A. 1	NANKS	
ontrol Jimits 4RPD				0.0048		Result [F]	Duplicate	Spike	Blank		INE DOF	ומיות שעום	
ontrol Jimits 4RPD		Date Ar		96		ত্র	%R	Dup.	Blk. Spk		TALE		
ontrol Jimits 4RPD	Matrix V	iglyzed: 04		4		į	*	RPD			RECOVE		TATACLUS: A
ontrol Jimits 4RPD	7/13/2008	9000/101/3	10	75-125		No.	4%	I imite	Control		RY STUI		V atCI
Flagg			0.2	30		, N.	Summa Summa	T in the	Control		γ		
							Flag	1					

Matrix: Water

Units: mg/L		RIANI	(RI ANK C	1/ 2/10°				Matrix: Water	Vater		
Metals per ICP by EPA 200 7	Rlank	Caller	SHE DUPLICATE RECOVERY STUDY		CAMA	TINE DUPI	JCATE I	TECOVE.	RY STUD	Y	
	Sample Result	> 5	Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
llytes		B	C	Ð	围	Duplicate Result [F]	ନ୍ତ %	%	%R	%RPD	ď
Arsenic	<0.010	1.00	101				3				
Barium	^0.010	3	101	101	-	1.02	102	_	75-125	20	
Cadmium	20 005		1.01	Ī		1.01	161	0	75-125	20	
Chromium	0.000	3.1	1.01	101	_	1.03	103	2	75-125	30	
	0.000	1.00	1.03	103	_	2	102	-	75 125	;	
coppe	<0.010	1.00	0.978	ç,	-	000		-	C71-C/	20	
Lead	<0.012	8	105	2	. -	0.996	100	2	75-125	20	
Manganese	0100	S	1.05	5	-	1.06	106	_	75-125	20	
Nickel		1.98	0.950	95		0.963	96	-	75-125	20	
Colonium	0.010	1.00	1.02	102	-	1.03	103	_	351 35		
Scientifili	<0.010	1.00	101		-		3	-	/3-123	20	
Silver	<0 000	100	1.01	3	-	1.04	104	w	75-125	20	
Zinc	6,000	1.00	0.982	98	_	1.00	100	2	75-125	20	
	0.010	1.00	1.02	102		1.03	103	-	75 176	3	
										0.7	

Relative Percent Difference RPD = 200*|(D-F)/(D+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 - MS / MSD Recoveries

Project Name: Annual Storm Water

Work Order #: 303833

Lab Batch ID: 722822

Date Analyzed: 05/16/2008

Reporting Units: mg/L

Project ID: DAL

QC- Sample ID: 303774-001 S

Date Prepared: 05/16/2008

Matrix: Water

Analyst: Batch #: DAT

Date Analyzed: 05/19/2008 Lab Batch ID: 723057 Mercury, Total Mercury, Total by EPA 245.1 Analytes QC- Sample ID: 303715-001 S **Date Prepared:** 05/16/2008 < 0.0001 Sample Result [A] Parent 0.0050Spike Added [B] Spiked Sample
Result Sample
G [C] %R
[D] MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY 0.0047 94 Batch #: 0.0050Spike Added [E] Duplicate Spiked Sample Result [F] 0.0047 Matrix: Water Spiked Dup. %R [G] 94 RPD 0 Control
Limits
%R 75-125 Control
Limits
%RPD 20 Flag

Analyst:

DAT

Reporting Units: mg/L				An	Analyst:	DAT					
Metals per ICD by EDA 2002	Parent	3	A LKLX SPIK	E/MAT	RIX SPII	MAIRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	OVERY	STUDY		
Analytes	Sample Result	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R	₽ . (6	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Argenic		3		_	E		G			į	
LIOUIN	<0.010	20	1 03	3	3						
Barium	0.062	3	1.02	102	1.00	1.02	102	0	75-125	25	
Cadmium		1.00	1.98	8	1.00	1.06	<u>1</u>	0	75-125	25	
Chromium	C00.00	1.00	0.991	8	1.00	1.02	102	ω	75-125	×	
	<0.005	1.00	1.03	103	- 00	103	103	,		;	
Copper	<0.010	- 26	1 03	103			3	6	75-125	25	
Lead	70012		1.05	5	1.6	1.05	105	2	75-125	25	
Manganese	210.012	3.5	1.00	100	1.00	1.01	101	-	75-125	25	
Nickel	<0.010	1.00	1.05	105	1.00	1.07	107	ر ارد	351 37	*	
MICRE	<0.010	3	0000	3];	,	73-123	23	
Selenium	0100>	3 8	0.555	8	1.90	1.01	101		75-125	25	
Silver	0.010	3.	1.04	<u>2</u>	1.00	1.05	105	-	75-125	7,	
	<0.004	 8	1.03	103	3	1 07				ļ.	
Zinc	<0.010	3	3		1.00	1.07	107	4	75-125	25	
			1.00	٤	1.00	1.04	104	4	75-125	25	

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

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

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



Prelogin/Nonconformance Report- Sariple Log-In

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Sample Receipt Cherklist

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	\ \\\\ \\\\	ON	1 6 3 人	VOC samples have zero headspace?	614
	CAM)	ON	55人	Subcontract of sample(s)?	
	1	ON	(\$1)	Semples received within sufficient that	
		ON		Sufficient sample amount for indicated test(s)?	91#
		oN	TEXT	Sample container Intact?	SIA
	A/N	ON	(\$3D)	Samples properly preserved?	71#
		ON	(\$3)	Samples in proper container/ bottle?	£1#
		0N	SUR	Sample matrix properties agree with Chain of Custody?	21#
		oN	32	Container label(s) legible and intact?	
		ON	(S.17)	Chain of Custody agrees with sample label(s)?	01#
		ON	(56)	Chain of Custody signed when relinquished/ received?	6#
		(ON)	等从	Any missing/extra samples?	8#
		ON	(SER)	Sample Instructions complete of Chain of Custody?	L#
		ON	(Sel)	Chain of Custody present?	9#
	1	ON	SEA	Custody Seals intact on sample bottles/ container?	S#
	A/N	οN	(5:72)	Custody Seals intact on shipping containst cooler?	* #
Blue/Water	A/N	ON	Si V	Samples neceived on ice?	€#
	AnoN	No	(SE,J)	Shipping container in good condition?	۲#
o. La	A/N	ON	SEA	Temperature of container/ cooler?	1#

Documentation	eonformance	Nonc

Среск віі граг Арріу:	Cilent understands and would like to	
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	5 .	
Corrective Action Taken:		
		P.
Regarding:		
Contact;	Contacted by:	Date/Time:

Conciones		
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Blackberry Drive, San Antonio, Tx 78238 210-509-3334 בייטיושיוםו שיואד, Stallorg, 1X //4/7 281-589-0692 ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ 12600 West I-20 East, Odessa, Tx 79765 432-563-1800

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Cont. Size: 40z (4), 80z (8), 32oz (32), 40ml VOA (Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2		4	Relinquished by (Initials and Sign) Date		5 1 5		80-41	80-47	0F-5 5-14-08 8:40	OF-1 5-14-08 8:30	104-11	CF-15 80-41-5	01.7 6 2-14-08 6:10	Sample ID Sa	Sampler Name Si	LES NO.:	r-Contract CLP AFCEE NAVY [LS (GW DW QAPP MDLs RLs	ogram: USI DHY-CLEAN		Bill to:	to: Steven.	e-mail to PM	AL, C	Previously done a	.1
Tedlar Bag	Una		AZ:\\ 80-	& Time Relinquished to			←		\$.	×	 X 	× -	× -	× ×	Depth ft' In" m Matrix Composite Grab # Containers Container Size	Signature	☐ Dry Basis	DOE DOD USACE OTHER: See Lab PM Included Call PM)	Land-Fill Waste-Disp NPDES DW	P.O No: Call for P.O	leport ☐ Invoice must have a P.O	allascityhall.com	Som Peacock	Proj. Manager (PM)	Project ID	padment 2146
J (B), Wipe (W), Other Coot,<4C)	108 DI		+	(Initials and Sign)										TE	VOCs BTEX-M1 8260 8021 602 PAHs 8270 82 TPH: TX1005 80	624 70-SI 15B 8	5: M 015	24 TCLP/ 8310 5Mod 801	SPL	OHs P()		80150	DRO	lit is typically 5-7	TAT: ASAP	SCI Lab Only:
(Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O) Cont. Type: Glass Amb (A), Glass Clear (C).	Paid. Samples will Dequested. Rush Cl	otherwise agreed o	Date & Time Total Containers per COC			2									Metals RCRA (4 Metals Method: 6 NORM Ra 226 2 Asbestos I Pesticides 8081 6 Herbicides 81516	, 8, 11 010 28 PLM 508 1	O I 602 Ura F	20 200.8 anium PCM P\SPLP (74)	LP (()) Othe 5.1 7			and 1	8h 3d 5d 7d	
	Paru. Samples will be hold 30 days after final report is e-mailed unless hereby requested. Rush Charges are pre-approved.	upon signings this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until	per COC: Cooler Temp:			~								Z 3 X 3	*12 annua *Chack f heces: AT ASAP 5h 1	1/ 1/ 20	a	dd 19	1 50	d 7d	l 10d			Working days for level III and IV data.	10d 21d Sandard TAT is project	2/2022
Plastic (P) Other (O)	e-mailed unless hereby	d Conditions unless al Property of XENCO until	0, 17, idu	10	9	8	7	6	5		3			H S	ddn: PAH above old Samples (Sun ample Clean-up	charg	es v		and a	are pre		oved)	Remarks	data.		raye

Matrix: Air (A), Product (P), Solid(S), Water (W)

Committed to Excellence in Service and Quality since 1989 Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Other (O)

www.xenco.com