



December 2019
SFR-72/19

Annual Report of Nonfinancial Data

Fiscal Year Ended August 31, 2019

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Fiscal Year Ended August 31, 2019

Prepared by
Financial Administration Division

SFR-72/19
December 2019



Jon Niermann, Chairman
Emily Lindley, Commissioner
Bobby Janecka, Commissioner

Toby Baker, Executive Director

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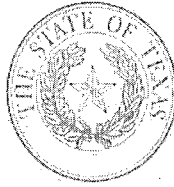
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Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 2019

The Honorable Greg Abbott, Governor
Lisa Collier, First Assistant State Auditor, State Auditor's Office
John McGeady, Assistant Director, Legislative Budget Board

Dear Gov. Abbott, Ms. Collier, and Mr. McGeady:

We are pleased to submit the Texas Commission on Environmental Quality's *Annual Report of Nonfinancial Data* for the year ending on August 31, 2019, in compliance with TEX. GOVT CODE ANN. § 2101.0115 and in accordance with the instructions for completing the Annual Report of Nonfinancial Data.

The accompanying report has not been audited and is considered to be independent of the agency's or institution's *Annual Financial Report*.

If you have any questions, please contact Greg Yturralde, CPA at 512-239-1952.

Sincerely,

A handwritten signature in black ink, appearing to read "Toby Baker", written over a horizontal line.

Toby Baker
Executive Director

SECTION I

TCEQ AGENCY-SPECIFIC

INFORMATION

-UNAUDITED-

SCHEDULE OF SPACE OCCUPIED**Fiscal Year Ended August 31, 2019**

<u>Location</u>	<u>Address</u>	<u>Name of Lessor</u>	<u>Lease No.</u>	<u>Type</u>
STATE OWNED:				
Austin	12100 Park 35 Circle (Bldg. A)			Office
Austin	12124 Park 35 Circle (Bldg. B/C)			Office
Austin	12118 Park 35 Circle (Bldg. D/E)			Office
Houston	5425 Polk Ave, Suite H			Office
El Paso	401 E. Franklin Ave., Suite 560			Office
NON-STATE OWNED:				
Abilene	1977 Industrial Blvd	PAK Harris Enterprises LTD	1110	Office
Amarillo	3918 Canyon Drive	Johnnie Shannon	20116	Office
Austin	12015 Park 35 Circle (Bldg. F)	The Colonnade Office Center	7689	Office
Austin	1700 Hydro Lane	Hart-Hejl Dev	4793	Access RD/Storage
Austin	13107 Dessau Road	Storage Town USA	10460	Storage
Austin	1700 Hydro Lane	Hart-Hejl Joint Venture	70022	Storage
Beaumont	3870 Eastex Frwy., Suite 110	William E Wilson	7089	Office
Beaumont	2615 Calder St	Bar C Ranch	70623	Storage
Brazos Watermaster	209 E Mulberry Street	Michael M Phillips Law Firm, P.C.	20591	Office
Corpus Christi	6300 Ocean Drive, Suite 1200	TX A&M Corpus Christi	85326	Office
Dallas/Fort Worth	2309 Gravel Riverside Tech Center	Riverbend Complex LLC	10462	Office
Eagle Pass	1152 Ferry Street	Tres Pobres Ltd	9058	Office
Harlingen	1804 W. Jefferson	WJA Properties LLC	9867	Office
Sugar Land Lab	12553 W Airport Cr	Griffin Partners Commerce Center, LP	20349	Lab
Houston Boat Storage	5144 Sam Houston Parkway North	Stephen Dennis Fallin	20507	Boat Storage
Laredo	707 Calton Rd.	TRE Ventuno LLC	10626	Office
Lubbock	5012 50th Street, Suite 100	3 Wiggle LLC	10767	Office
Midland	9900 W Interstate 20 Ste 100	KW-AFM Properties LLC	20301	Office/Lab/Storage
San Angelo	622 S. Oakes St.	City of San Angelo	9918	Office
San Angelo	5973 Knickerbocker	Red Bluff Storage	70627	Storage
San Antonio	14250 Judson Road	Naomi LP	1402	Office
Stephenville	580-D Lingleville Rd. Ste D	Rick Hale	1622	Office
Tyler	2916 Teague Drive	Jack F Paul Real Estate LLC	9232	Office
Waco	6801 Sanger Avenue, Suite 2500	Rydell Sanger, LLC	6231	Office
Webster	17041 El Camino Real	Bestour Inc	10780	Office
TOTAL				

-UNAUDITED-

Usable Square Feet	FTEs	Rental Cost Per		Annual Cost
		Square Foot	Month	
165,720	547	N/A - State-Owned Property		
117,762	413	N/A - State-Owned Property		
93,627	269	N/A - State-Owned Property		
41,732	181	N/A - State-Owned Property		
7,124	19	N/A - State-Owned Property		
8,805	22	1.2458	\$ 10,969.55	\$ 131,634.60
7,475	26	0.8040	5,989.78	71,877.36
167,110	655	1.8000	300,798.00	3,609,576.00
10,964	0	0.2921	3,235.89	38,830.68
2,000	0	0.6147	1,229.33	14,751.96
2,000	0	0.6500	1,300.00	15,600.00
15,274	59	1.5708	23,992.91	287,914.92
2,160	0	0.5671	1,225.00	14,700.00
958	1	1.5800	1,513.64	18,163.68
14,420	52	Pro-rated	Pro-rated	66,602.00
26,084	95	0.7892	20,584.62	247,015.44
1,500	3	0.7192	1,078.85	12,946.20
12,109	31	1.2017	14,546.86	174,562.32
14,965	18	1.3719	20,530.60	246,367.20
3,212	0	1.4060	4,516.15	54,193.80
5,971	13	1.7201	10,270.55	123,246.60
6,848	20	1.2920	8,845.33	106,143.96
8,882	20	1.0015	8,895.31	106,743.72
7,946	16	1.0158	8,071.82	96,861.84
660	0	0.2576	170.00	2,040.00
17,020	60	1.9167	32,622.00	391,464.00
2,135	7	1.1170	2,384.43	28,613.16
15,640	49	0.8681	13,232.31	158,787.72
13,225	37	0.8817	13,461.76	161,541.12
1,871	9	1.2866	2,407.35	28,888.20
	<u>2622</u>		<u>\$ 511,872</u>	<u>\$ 6,209,066.48</u>

PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES
For the Fiscal Year Ended August 31, 2019

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
360 TRAINING COM INC	\$ 925.00	EDUCATIONAL/TRAINING SERVICES
ABACUS TECHNICAL SERVICES	119,790.00	INFORMATION TECHNOLOGY SERVICES
ACADEMY ASSOCIATION INC	1,393.00	EDUCATIONAL/TRAINING SERVICES
AD ENVIRONMENTAL SERVICES LLC	38,749.75	ARCHITECTURAL/ENGINEERING SERV
AECOM TECHNICAL SERVICES	3,660,794.86	ARCHITECTURAL/ENGINEERING SERV
AGILENT TECHNOLOGIES	12,312.00	EDUCATIONAL/TRAINING SERVICES
AIR & WASTE MANAGEMENT ASSOCIATION	830.00	EDUCATIONAL/TRAINING SERVICES
ALLIED CONSULTANTS INC	108,320.00	INFORMATION TECHNOLOGY SERVICES
AMBONARE INC	12,123.00	INFORMATION TECHNOLOGY SERVICES
AMERICAN SOCIETY FOR QUALITY	189.00	EDUCATIONAL/TRAINING SERVICES
AMERICAN SOCIETY OF CIVIL ENGINEERS	1,595.00	EDUCATIONAL/TRAINING SERVICES
ANTEA USA INC	4,434,129.65	ARCHITECTURAL/ENGINEERING SERV
APPLIED GEOGRAPHICS INC	980.00	OTHER PROFESSIONAL SERVICES
APTIM ENVIRONMENTAL & INFRASTRUCTURE INC	2,341,005.28	ARCHITECTURAL/ENGINEERING SERV
AQS INC	3,500.00	OTHER PROFESSIONAL SERVICES
ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS	1,032.00	EDUCATIONAL/TRAINING SERVICES
ASTM INTERNATIONAL	10,000.00	EDUCATIONAL/TRAINING SERVICES
ATC GROUP SERVICES LLC	514,895.67	ARCHITECTURAL/ENGINEERING SERV
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC	318,414.17	OTHER PROFESSIONAL SERVICES
AUSTIN COMMUNITY COLLEGE CONTINUING EDUCATION	1,192.00	EDUCATIONAL/TRAINING SERVICES
BANSAR TECHNOLOGIES INC	15,520.00	INFORMATION TECHNOLOGY SERVICES
BRAUN INTERTEC CORPORATION	813,747.55	OTHER PROFESSIONAL SERVICES
C&JMP INC	63,620.00	EDUCATIONAL/TRAINING SERVICES
CARAHSOFT TECHNOLOGY CORPORATION	36,312.50	EDUCATIONAL/TRAINING SERVICES
CDM SMITH INC	397,675.88	OTHER PROFESSIONAL SERVICES
CERTIFIED STAFFING SOLUTIONS	3,000.00	EDUCATIONAL/TRAINING SERVICES
CITY OF AUSTIN	427,039.04	OTHER PROFESSIONAL SERVICES
CITY OF DALLAS	518,408.36	OTHER PROFESSIONAL SERVICES
CITY OF EL PASO	220,832.31	OTHER PROFESSIONAL SERVICES
CITY OF FORT WORTH	472,564.64	OTHER PROFESSIONAL SERVICES
CITY OF HOUSTON	986,035.67	OTHER PROFESSIONAL SERVICES
CITY OF SAN ANTONIO	167,205.46	OTHER PROFESSIONAL SERVICES
CLEAN HARBORS ENVIRONMENTAL SERVICES INC	2,232.10	OTHER PROFESSIONAL SERVICES
COALFIRE SYSTEMS INC	4,400.00	OTHER PROFESSIONAL SERVICES
COLLEGE OF THE MAINLAND	39,728.00	EDUCATIONAL/TRAINING SERVICES
COMMUNICATION BY HAND	119.48	OTHER PROFESSIONAL SERVICES
CONVERGEONE INC	32,216.26	OTHER PROFESSIONAL SERVICES
CPE DEPOT	245.00	EDUCATIONAL/TRAINING SERVICES
D & H UNITED FUELING SOLUTIONS	81,527.24	OTHER PROFESSIONAL SERVICES
DALE CARNEGIE & ASSOCIATES INC	349.00	EDUCATIONAL/TRAINING SERVICES
DANIEL B STEPHENS & ASSOCIATES INC	1,713,757.95	ARCHITECTURAL/ENGINEERING SERV
DEER OAKS EAP SERVICES LLC	36,697.76	OTHER PROFESSIONAL SERVICES
DIGICERT INC	948.00	INFORMATION TECHNOLOGY SERVICES
DOUBLEHORN COMMUNICATIONS LLC	480.60	INFORMATION TECHNOLOGY SERVICES
DRIESSEN WATER INC	1,375,034.70	OTHER PROFESSIONAL SERVICES
DWH SEA TURTLE EARLY RESTORATION NPS PAIS	150,000.00	OTHER PROFESSIONAL SERVICES
EA ENGINEERING SCIENCE AND TECHNOLOGY	520,133.13	ARCHITECTURAL/ENGINEERING SERV
EAGLE PASS ISD	16,000.00	OTHER PROFESSIONAL SERVICES
EASTERN RESEARCH GROUP INC	163,192.37	OTHER PROFESSIONAL SERVICES
EE&G	1,589,098.35	OTHER PROFESSIONAL SERVICES
EMERALD ENVIRONMENTAL SERVICES LTD	533,866.17	OTHER PROFESSIONAL SERVICES
EMPLOYEES GROUP INSURANCE FUND	142,800.00	OTHER PROFESSIONAL SERVICES
ENFOLD SYSTEMS INC	81,430.00	INFORMATION TECHNOLOGY SERVICES
ENFOTECH AND CONSULTING INC	50,689.00	INFORMATION TECHNOLOGY SERVICES
ENPROTEC INC/HIBBS AND TODD INC	810,143.21	ARCHITECTURAL/ENGINEERING SERV
ENSAFE INC	1,265,769.89	OTHER PROFESSIONAL SERVICES
ENTERPRISE TRAINING SOLUTIONS INC	13,560.00	EDUCATIONAL/TRAINING SERVICES
ENVIRONMENTAL RESEARCH & EDUCATION FOUNDATION	173.00	EDUCATIONAL/TRAINING SERVICES
ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC	3,657.24	EDUCATIONAL/TRAINING SERVICES

PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES
For the Fiscal Year Ended August 31, 2019

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
ENVIRONMENTAL TEAM RESOURCES LLC	\$ 12,350.00	EDUCATIONAL/TRAINING SERVICES
EXECUTIVE INFORMATION SYSTEMS LLC	6,468.00	EDUCATIONAL/TRAINING SERVICES
EXECUTIVE SELF-DEFENSE AND FITNESS LLC	794.15	EDUCATIONAL/TRAINING SERVICES
FLIR COMMERCIAL SYSTEMS INC	5,985.00	EDUCATIONAL/TRAINING SERVICES
FORESTER MEDIA	79.00	EDUCATIONAL/TRAINING SERVICES
GALTON CUNNINGHAM & BOURGEOIS PLLC	1,360.00	OTHER PROFESSIONAL SERVICES
GALVESTON COUNTY HEALTH DISTRICT	85,022.13	OTHER PROFESSIONAL SERVICES
GEOSTRATA ENVIRONMENTAL CONSULTANTS INC	512,146.64	OTHER PROFESSIONAL SERVICES
GLADYS PORTER ZOO	450,000.00	OTHER PROFESSIONAL SERVICES
GOVERNMENT PROCUREMENT SERVICES	1,650.00	EDUCATIONAL/TRAINING SERVICES
GRIMES & ASSOCIATES CONSULTING ENGINEERS	181,007.61	OTHER PROFESSIONAL SERVICES
GROUNDWATER SERVICES INC	4,995.00	EDUCATIONAL/TRAINING SERVICES
HALL CONSULTING INC	200.00	EDUCATIONAL/TRAINING SERVICES
HOLLERBACH & ASSOCIATES INC	600.00	OTHER PROFESSIONAL SERVICES
HOME TEAM SERVICES LLC DBA GLOBAL NETWATCH	3,024.82	INFORMATION TECHNOLOGY SERVICES
INCONTROL TECHNOLOGIES INC	942,567.82	OTHER PROFESSIONAL SERVICES
INTERA INCORPORATED	342,012.72	OTHER PROFESSIONAL SERVICES
JET SOFTWARE SOLUTIONS INC	465,802.12	INFORMATION TECHNOLOGY SERVICES
KFORCE INC	83,475.00	INFORMATION TECHNOLOGY SERVICES
KLEINFELDER INC	28,634.68	OTHER PROFESSIONAL SERVICES
KLEINSCHMIDT ASSOCIATES	12,680.00	EDUCATIONAL/TRAINING SERVICES
LABWORKS LLC	12,500.00	EDUCATIONAL/TRAINING SERVICES
LEAK SURVEYS INC	65,289.75	OTHER PROFESSIONAL SERVICES
LEARNING TREE INTERNATIONAL USA INC	62,576.92	EDUCATIONAL/TRAINING SERVICES
LEE CONSULTING GROUP INC	850.00	EDUCATIONAL/TRAINING SERVICES
LEITA HART-FANTA CPA	600.00	EDUCATIONAL/TRAINING SERVICES
LINEBARGER GOGGAN BLAIR SAMPSON LLP	123,521.12	FINANCIAL AND ACCOUNTING SERV
LION TECHNOLOGY INC	1,424.00	EDUCATIONAL/TRAINING SERVICES
LOBLOLLY CONSULTING LLC	80,068.00	INFORMATION TECHNOLOGY SERVICES
MACSTAT CONSULTING LTD	8,000.00	EDUCATIONAL/TRAINING SERVICES
MCLANE GROUP	651,082.96	INFORMATION TECHNOLOGY SERVICES
METEOSTAR A DIVISION OF OTT HYDROMET CORP	153,149.00	OTHER PROFESSIONAL SERVICES
MICHAEL ALLEY	4,500.00	EDUCATIONAL/TRAINING SERVICES
MICROASSIST INC	75,944.00	EDUCATIONAL/TRAINING SERVICES
MIDWEST GEOSCIENCES GROUP	670.00	EDUCATIONAL/TRAINING SERVICES
MONTROSE AIR QUALITY SERVICES LLC	18,145.00	OTHER PROFESSIONAL SERVICES
MYERS AND STAUFFER LC	3,043.90	OTHER PROFESSIONAL SERVICES
N.A. GALVETON BAY FOUNDATION	12,314.47	OTHER PROFESSIONAL SERVICES
N.A. TEXAS A&M UNIVERSITY-GALVESTON	92,140.07	OTHER PROFESSIONAL SERVICES
NATIONAL ECONOMIC RESEARCH ASSOCIATES INC	327,525.00	OTHER PROFESSIONAL SERVICES
NATIONAL PARK SERVICE	17,634.85	OTHER PROFESSIONAL SERVICES
NATIVE PRAIRIES ASSOCIATION OF TEXAS	14,000.00	OTHER PROFESSIONAL SERVICES
NEIL S GRIGG	11,462.03	OTHER PROFESSIONAL SERVICES
NEW HORIZONS COMPUTER LEARNING CENTER OF AUSTIN	96,203.33	EDUCATIONAL/TRAINING SERVICES
NF CONSULTING SERVICES	515,623.96	INFORMATION TECHNOLOGY SERVICES
NORTHWEST ENVIRONMENTAL TRAINING CENTER	13,900.00	EDUCATIONAL/TRAINING SERVICES
OI CORPORATION	2,345.00	EDUCATIONAL/TRAINING SERVICES
ONLINE CONSULTING INC DBA ONLC TRAINING CENTERS	8,760.30	EDUCATIONAL/TRAINING SERVICES
ORACLE AMERICA INC	15,648.39	EDUCATIONAL/TRAINING SERVICES
ORSAT L L C	588,570.00	OTHER PROFESSIONAL SERVICES
PACOTECH INC	3,220,313.71	OTHER PROFESSIONAL SERVICES
PARSON TRANSPORTATION GROUP	171,780.63	OTHER PROFESSIONAL SERVICES
PAVEMENT PRODUCTIONS ATX LLC	80,000.00	OTHER PROFESSIONAL SERVICES
PLURALSIGHT LLC	3,474.00	EDUCATIONAL/TRAINING SERVICES
PRIMER-E	2,000.00	EDUCATIONAL/TRAINING SERVICES
PROGRESSIVE ENVIRONMENTAL SERVICES INC	817,820.50	OTHER PROFESSIONAL SERVICES
Q SAFETY CONSULTANTS LLC	3,000.00	EDUCATIONAL/TRAINING SERVICES
QUANTUM ENVIRONMENTAL CONSULTANTS INC	41,255.57	OTHER PROFESSIONAL SERVICES
RAMBOLL ENVIRON US CORPORATION	694,567.08	OTHER PROFESSIONAL SERVICES

PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES
For the Fiscal Year Ended August 31, 2019

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
RANGER ENVIRONMENTAL SERVICES INC	\$ 1,080,630.90	ARCHITECTURAL/ENGINEERING SERV
RED RIVER CONSULTING SERVICES LLC	26,250.00	INFORMATION TECHNOLOGY SERVICES
REDVECTOR COM LLC	1,587.25	EDUCATIONAL/TRAINING SERVICES
ROBERT M LEWIS	2,382.00	EDUCATIONAL/TRAINING SERVICES
SAP AMERICA INC	11,520.00	EDUCATIONAL/TRAINING SERVICES
SCHLUMBERGER TECHNOLOGY CORPORATION	4,800.00	EDUCATIONAL/TRAINING SERVICES
SEA TURTLE, INC	103,139.75	OTHER PROFESSIONAL SERVICES
SHEPHERD TECHNICAL SERVICES	109,079.00	OTHER PROFESSIONAL SERVICES
SHI GOVERNMENT SOLUTIONS INC	30,294.00	EDUCATIONAL/TRAINING SERVICES
SIMS & ASSOCIATES WEST INC	92,760.00	OTHER PROFESSIONAL SERVICES
SKILLSOFT CORPORATION	102,029.61	EDUCATIONAL/TRAINING SERVICES
SLA ENVIRONMENTAL SERVICES LTD	22,272.62	OTHER PROFESSIONAL SERVICES
SOUTHERN ENVIROMENTAL ENFORCEMENT NETWORK INC	6,374.93	EDUCATIONAL/TRAINING SERVICES
STATE AUDITOR'S OFFICE	132,721.89	FINANCIAL AND ACCOUNTING SERV
STATE BAR OF TEXAS	1,240.00	EDUCATIONAL/TRAINING SERVICES
STORMWATER ONE LLC	149.00	EDUCATIONAL/TRAINING SERVICES
SUNCOAST LEARNING SYSTEMS INC	235.00	EDUCATIONAL/TRAINING SERVICES
TALON LPE LTD	1,943,134.11	ARCHITECTURAL/ENGINEERING SERV
TECHNICAL MONITORING SERVICES INC	191,640.00	OTHER PROFESSIONAL SERVICES
TERRACON CONSULTANTS INC	574,543.82	OTHER PROFESSIONAL SERVICES
TEXAS A&M AGRILIFE RESEARCH	1,953.28	OTHER PROFESSIONAL SERVICES
TEXAS A&M ENGINEERING EXTENSION SERVICE	260,800.00	EDUCATIONAL/TRAINING SERVICES
TEXAS AWWA	25,000.00	OTHER PROFESSIONAL SERVICES
TEXAS COMPTRROLLER OF PUBLIC ACCOUNTS	9,534.00	OTHER PROFESSIONAL SERVICES
TEXAS DEPARTMENT OF PUBLIC SAFETY	1,140.00	OTHER PROFESSIONAL SERVICES
TEXAS DEPT OF INFORMATION RESOURCES	18,130,269.84	COMPUTER SERVICES-STATEWIDE TECH. CENTER
TEXAS PARKS & WILDLIFE DEPARTMENT	225,000.00	OTHER PROFESSIONAL SERVICES
TEXAS PRECISION MONITORING LLC	213,600.00	OTHER PROFESSIONAL SERVICES
TEXAS RURAL WATER ASSOCIATION	1,765,029.31	OTHER PROFESSIONAL SERVICES
TEXAS SAFEKEEPING TRUST	23,783.42	FINANCIAL AND ACCOUNTING SERVICES
TEXAS WATER UTILITIES ASSOCIATION	480.95	EDUCATIONAL/TRAINING SERVICES
TEXAS WORKFORCE COMMISSION	36,670.00	EDUCATIONAL/TRAINING SERVICES
THE NATURE OF CONSERVANCY	4,547,927.00	OTHER PROFESSIONAL SERVICES
THE NELAC INSTITUTE	3,265.00	EDUCATIONAL/TRAINING SERVICES
THE SANBORN MAP COMPANY INC	54,539.44	ARCHITECTURAL/ENGINEERING SERV
TIBH INDUSTRIES INC - TEMPS	13,130.04	INFORMATION TECHNOLOGY SERVICES
TLI SOLUTIONS INC	41,650.50	OTHER PROFESSIONAL SERVICES
TRINITY CONSULTANTS INC	248.00	EDUCATIONAL/TRAINING SERVICES
TURTLE ISLAND RESTORATION NETWORK	45,641.78	OTHER PROFESSIONAL SERVICES
TXC TEXAS CREATIVE LTD	1,774.50	INFORMATION TECHNOLOGY SERVICES
U S ENVIRONMENTAL PROTECTION AGENCY	833,574.71	ARCHITECTURAL/ENGINEERING SERV
UNITED STATES GEOLOGICAL SURVEY	774,749.88	OTHER PROFESSIONAL SERVICES
UNIVERSITY OF NEBRASKA	20,000.00	OTHER PROFESSIONAL SERVICES
UNIVERSITY OF TEXAS AT AUSTIN	49,350.00	EDUCATIONAL/TRAINING SERVICES
UNIVERSITY OF TEXAS HEALTH SERVICES	717,556.00	OTHER PROFESSIONAL SERVICES
USDA-NFC-FMMI COD COLLECTIONS	200,000.00	OTHER PROFESSIONAL SERVICES
UT AT AUSTIN-MASTER CONCENTRIATION	243,745.07	OTHER PROFESSIONAL SERVICES
UT HEALTH CENTER AT TYLER	22,879.00	MEDICAL SERVICES
UTAH STATE UNIVERSITY	125.00	EDUCATIONAL/TRAINING SERVICES
UXO PRO INC	29,671.25	OTHER PROFESSIONAL SERVICES
VELOCITEACH PROJECT MANAGEMENT LLC	449.00	EDUCATIONAL/TRAINING SERVICES
WEST TEXAS A AND M UNIVERSITY	82,864.66	INFORMATION TECHNOLOGY SERVICES
WESTON SOLUTIONS INC	2,764,795.72	OTHER PROFESSIONAL SERVICES
WILKINS GROUP INC	33,328.92	INFORMATION TECHNOLOGY SERVICES
WOOD ENVIRONMENT AND INFRASTRUCTURE SOLUTIONS INC	1,000,830.36	ARCHITECTURAL/ENGINEERING SERV
WRITING BY DESIGN INC DBA TEXAS SNAKES & MORE	500.00	EDUCATIONAL/TRAINING SERVICES
X8ENVIRONMENTAL INC	882,450.16	ARCHITECTURAL/ENGINEERING SERV
TOTAL PROFESSIONAL AND CONSULTING FEES	\$ 72,980,029.14	

PROFESSIONAL/CONSULTING FEES AND LEGAL SERVICE FEES
For the Fiscal Year Ended August 31, 2019

<u>PAYEE</u>	<u>AMOUNT</u>	<u>PURPOSE</u>
LEGAL SERVICE FEES		
STATE OFFICE OF ADMINISTRATIVE HEARINGS	\$ 258,010.49	OTHER PROFESSIONAL SERVICES
SOMACH SIMMONS & DUNN	5,012,607.65	LEGAL SERVICES
TOTAL LEGAL SERVICE FEES	\$ 5,270,618.14	
TOTAL PROFESSIONAL/CONSULTING AND LEGAL SERVICES		
FEES REPORTED ON ANNUAL FINANCIAL REPORT	\$ 78,250,647.28	

SCHEDULE OF ITEMIZED PURCHASES (PROPRIETARY PURCHASES)**Fiscal Year Ended August 31, 2019**

Vendor Name	Amount	Purpose	Justification
SUMTOTAL SYSTEMS INC	\$ 74,976.45	Software maintenance and support renewal - Pathlore	This is a proprietary software that is a closed source software therefore, no other vendor can provide the maintenance and support for it.
TELEDYNE INSTRUMENTS INC	\$ 63,205.00	Parts for instruments	The Original Equipment Manufacturer (OEM) parts are required to insure the proper fit and function of the existing equipment. Incorrect parts may cause a loss of data from equipment malfunction. Use of non Teledyne parts on Teledyne equipment invalidates the warranty.
FACILITY INTERIORS INC	\$ 6,875.35	Modular Furniture Parts	No other manufacture of modular furniture is interchangeable or compatible with Haworth.
OTT HYDRO CORP	\$ 24,079.00	Sutron Dataloggers	Currently, the Sutron 8080 Data Logger with the LEADS ambient monitoring software is the only commercially available off-the-shelf device that complies with all of TCEQ's specifications and has "plug and play" capability to interface with TCEQ's LEADS data acquisition system and TCEQ's air monitoring instruments/equipment.
ENTECH INSTRUMENTS	\$ 52,373.40	AutoSampler	Compatibility of listed equipment with existing equipment has already been tested within the Canister laboratory and meets the service requirements for the Air Laboratories testing programs.

SCHEDULE OF ITEMIZED PURCHASES (PROPRIETARY PURCHASES)**Fiscal Year Ended August 31, 2019**

<u>Vendor Name</u>	<u>Amount</u>	<u>Purpose</u>	<u>Justification</u>
REGENTS OF THE UNIVERSITY OF COLORADO	\$ 13,160.00	RiverWare License	The U.S. and Mexico agreed to use Riverware as the modeling platform to look at management scenarios. WAD staff would be unable to provide meaningful input to TCEQ management on treaty related issues without the ability to use the Riverware software. There is no other software on the market that has the same capabilities as Riverware or could be used to process model scenarios developed in the Riverware environment.
ENTECH INSTRUMENTS	\$ 45,810.50	Canister cleaning system	The data generated by this equipment are required to meet certain acceptance criteria in order to satisfy deliverables documented in an EPA-approved QAPP as part of a grant that TCEQ receives from EPA. These parts are the only guaranteed parts to meet the necessary OEM specifications
REGENTS OF THE UNIVERSITY OF COLORADO	\$ 13,160.00	RiverWare License	The U.S. and Mexico agreed to use Riverware as the modeling platform to look at management scenarios. WAD staff would be unable to provide meaningful input to TCEQ management on treaty related issues without the ability to use the Riverware software. There are is no other software on the market that has the same capabilities as Riverware or could be used to process model scenarios developed in the Riverware environment.

SCHEDULE OF ITEMIZED PURCHASES (PROPRIETARY PURCHASES)**Fiscal Year Ended August 31, 2019**

<u>Vendor Name</u>	<u>Amount</u>	<u>Purpose</u>	<u>Justification</u>
ENTECH INSTRUMENTS	\$ 45,810.50	Canister cleaning system	The data generated by this equipment are required to meet certain acceptance criteria in order to satisfy deliverables documented in an EPA-approved QAPP as part of a grant that TCEQ receives from EPA. These parts are the only guaranteed parts to meet the necessary OEM specifications
JEH-EAS INC D/B/A	\$ 101,625.00	Microfiche/Microfilm Reader - ScanPro i9300 All-In-One Blipped film	Staff and public need ability to read, view, scan, and convert our microfilmed records; the ScanPro is the only reader in production that can read blips (used for locating files within a microfilm roll). This vendor (Stars Information Solutions) is the exclusive reseller of this manufacturer for sales and service in Texas.
FACILITY INTERIORS INC	\$ 39,780.02	Modular furniture pieces and parts for reconfiguration of modular furniture at the Houston Regional Office	No other manufacture of modular furniture is interchangeable or compatible with Haworth.

HUB STRATEGIC PLAN PROGRESS REPORT
For the Year Ended August 31, 2019

Goal = Strategic Plan HUB Goal Actual = % Spent with HUBs from HUB Report	TCEQ Actual % for FY 2018	TCEQ Actual % for FY 2019	CPA Goal for FY 2019
Heavy Construction other than building contracts	N/A	N/A	N/A
Building construction, including general contractors and operative builders contracts	N/A	N/A	N/A
Special trade construction contracts	N/A	N/A	N/A
Professional services contracts	15.45%	8.27%	23.7%
Other services contracts	44.19%	40.43%	26.0%
Commodities contracts	38.09%	48.07%	21.1%

Prepared by: Claribel Diaz

Printed Name: Claribel Diaz

Phone Number: (512) 239-1293

Approved: K Kelly Linden

Printed Name: Kelly Keel Linden, OAS Deputy Director

Phone Number: (512) 239- 3607

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (582)

-UNAUDITED-

APPROPRIATION ITEM TRANSFER SCHEDULE
Fiscal Year Ended August 31, 2019

Item of Appropriation (Strategies)

	<u>Transfers In</u>	<u>Transfers Out</u>	<u>Net Transfers</u>
A. Goal: Assessment, Planning and Permitting			
Strategies:			
A.1.1. 13034 Air Quality Assessment and Planning	\$ 1,785,803.82	\$ (2,626,011.92)	\$ (840,208.10)
A.1.2. 13035 Water Assessment and Planning	3,555,670.46	(384,743.30)	3,170,927.16
A.1.3. 13036 Waste Assessment and Planning	0.00	(292,240.96)	(292,240.96)
A.2.1. 13031 Air Quality Permitting	214,696.37	0.00	214,696.37
A.2.2. 13032 Water Resource Permitting	132,589.00	(1,183,135.71)	(1,050,546.71)
A.2.3. 13033 Waste Management and Permitting	23,501.50	(84,487.50)	(60,986.00)
A.2.4. 13043 Occupational Licensing	0.00	0.00	0.00
A.3.1. 13038 Radioactive Materials Mgmt	0.00	(319,842.34)	(319,842.34)
Total Goal A: Assessment, Planning and Permitting	<u>\$ 5,712,261.15</u>	<u>\$ (4,890,461.73)</u>	<u>\$ 821,799.42</u>
B. Goal: Drinking Water			
Strategies:			
B.1.1. 13039 Safe Drinking Water	\$ 69,743.25	\$ (1,118,607.92)	\$ (1,048,864.67)
Total Goal B: Drinking Water	<u>\$ 69,743.25</u>	<u>\$ (1,118,607.92)</u>	<u>\$ (1,048,864.67)</u>
C. Goal: Enforcement and Compliance Support			
Strategies:			
C.1.1. 13041 Field Inspections and Complaints	\$ 2,393,663.09	\$ (770,340.34)	\$ 1,623,322.75
C.1.2. 13042 Enforcement and Compliance Support	294,700.25	(1,049,487.49)	(754,787.24)
C.1.3. 13037 Pollution Prevention Recycling	281,228.00	(77,232.76)	203,995.24
Total Goal C: Enforcement and Compliance Support	<u>\$ 2,969,591.34</u>	<u>\$ (1,897,060.59)</u>	<u>\$ 1,072,530.75</u>
D. Goal: Pollution Cleanup			
Strategies:			
D.1.1. 13044 Storage Tank Admin & Cleanup	\$ 459.00	\$ (459.00)	\$ 0.00
D.1.2. 13046 Hazardous Materials Cleanup	26,747.00	(133,352.00)	(106,605.00)
Total Goal D: Pollution Cleanup	<u>\$ 27,206.00</u>	<u>\$ (133,811.00)</u>	<u>\$ (106,605.00)</u>
E. Goal: River Compact Commissions			
Strategies:			
E.1.1. 13050 Canadian River Compact	\$ 0.00	\$ (2,759.36)	\$ (2,759.36)
E.1.2. 13051 Pecos River Compact	0.00	(17,126.31)	(17,126.31)
E.1.3. 13052 Red River Compact	0.00	(7,107.80)	(7,107.80)
E.1.4. 13053 Rio Grande River Compact	39,415.67	0.00	39,415.67
E.1.5. 13054 Sabine River Compact	0.00	(12,422.20)	(12,422.20)
Total Goal E: River Compact Commission	<u>\$ 39,415.67</u>	<u>\$ (39,415.67)</u>	<u>\$ 0.00</u>
F. Goal: Indirect Administration			
Strategies:			
F.1.1. 13800 Central Administration	\$ 1,438,898.87	\$ (4,165,596.00)	\$ (2,726,697.13)
F.1.2. 13801 Information Resources	1,870,653.10	(611,151.01)	1,259,502.09
F.1.3. 13802 Other Support Services	832,515.00	(104,180.46)	728,334.54
Total Goal F: Indirect Administration	<u>\$ 4,142,066.97</u>	<u>\$ (4,880,927.47)</u>	<u>\$ (738,860.50)</u>
Net Appropriation Item Transfers	<u>\$ 12,960,284.38</u>	<u>\$ (12,960,284.38)</u>	<u>\$ 0.00</u>

* This schedule does not include Benefit Replacement Pay, Rider Reduction, Salary Increase or Longevity Transfers.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (582)

-UNAUDITED-

SCHEDULE OF VEHICLES PURCHASED
Fiscal Year Ended August 31, 2019

Make	Model	Quantity	Purchase Price	Type of Use	Fuel Efficiency In Average Miles per Gallon City/Highway
Dodge	Journey	1	\$ 22,225.45	Central Administration	19/25
Ford	Taurus	1	20,583.00	Central Administration	18/27
Ford	Escape	1	18,697.56	Field Investigation	23/30
Chevrolet	Silverado	1	24,960.00	Field Investigation	18/24
Dodge	Ram 1500 Truck	1	21,654.00	Field Investigation	21/26
Ford	Escape	1	18,697.56	Central Administration	23/30
Dodge	Caravan	1	21,812.35	Central Administration	17/25
Chevrolet	Suburban	1	49,021.00	Field Investigation	16/23
Chevrolet	FS Crew	1	27,257.00	Field Investigation	18/24
Chevrolet	FS Crew	1	24,768.00	Field Investigation	18/24
Chevrolet	FS Crew	1	24,768.00	Field Investigation	18/24
Chevrolet	FS Crew	1	24,768.00	Field Investigation	18/24
Chevrolet	FS Crew	1	24,768.00	Field Investigation	18/24
Chevrolet	Silverado	1	24,768.00	Field Investigation	18/24
Chevrolet	Crew	1	42,198.72	Field Investigation	N/A
Chevrolet	Crew	1	42,198.72	Field Investigation	N/A
Chevrolet	Silverado	1	42,198.72	Field Investigation	N/A
Chevrolet	Silverado	1	27,893.00	Field Investigation	18/24
Chevrolet	Silverado	1	27,893.00	Field Investigation	18/24
Ford	Fusion Hybrid	1	23,794.00	Central Administration	43/41
Ford	Fusion Hybrid	1	23,794.00	Central Administration	43/41
Dodge	Ram 1500 Truck	1	27,747.59	Field Investigation	21/26
Nissan	Frontier	1	26,417.00	Field Investigation	19/23
Chevrolet	Silverado, XCAB	1	21,904.00	Field Investigation	18/24
Chevrolet	Silverado	1	23,490.00	Field Investigation	18/24
Chevrolet	Silverado	1	28,452.60	Field Investigation	18/24
Chevrolet	Silverado	1	28,452.60	Field Investigation	18/24
Chevrolet	Traverse FS V6 AWD	1	26,057.00	Field Investigation	20/26
Chevrolet	Silverado	1	28,870.60	Field Investigation	18/24
Chevrolet	Silverado	1	25,877.60	Field Investigation	18/24
Chevrolet	Silverado FS crew	1	26,797.00	Field Investigation	18/24
Chevrolet	Traverse FS V6	1	23,979.00	Field Investigation	20/26
Nissan	Frontier	1	22,488.00	Field Investigation	19/23
Ford	Escape	1	19,509.00	Field Investigation	23/30
Chevrolet	Silverado	1	28,800.60	Field Investigation	18/24
Chevrolet	Colorado	1	24,888.00	Field Investigation	18/24
Chevrolet	FS Crew	1	25,979.00	Field Investigation	18/24
Chevrolet	FS Crew	1	25,979.00	Field Investigation	18/24
Chevrolet	FS Crew	1	25,979.00	Field Investigation	18/24
Chevrolet	Silverado	1	20,922.00	Field Investigation	18/24
Chevrolet	Silverado	1	23,490.00	Field Investigation	18/24
Chevrolet	Colorado	1	23,490.00	Field Investigation	22/30
Chevrolet	Silverado	1	25,979.00	Field Investigation	18/24
Chevrolet	Silverado	1	23,589.00	Field Investigation	18/24
Chevrolet	Silverado	1	23,589.00	Field Investigation	18/24
Chevrolet	Crew	1	29,902.00	Field Investigation	18/24
Chevrolet	Crew	1	29,902.00	Field Investigation	18/24
Chevrolet	Traverse V6 AWD	1	26,746.00	Field Investigation	20/26
Chevrolet	Traverse V6 AWD	1	26,746.00	Field Investigation	20/26

-UNAUDITED-

INDIRECT COST SCHEDULE
Fiscal Year Ended August 31, 2019

The Indirect Cost Schedule will be completed by January 31, 2020 when the FY19 Statewide Cost Allocation Plan is available.

-UNAUDITED-

Alternative Fuel Vehicle Progress Report Fiscal Year Ended August 31, 2019

Beginning in fiscal year 2010, a new annual reporting requirement was established pursuant to House Bill 432, 81st Legislature, Regular Session that changed Texas Government Code Section 2158.005. State agencies that operate a fleet of more than 15 motor vehicles, excluding law enforcement and emergency vehicles, must report their progress towards achieving at least 50% of their eligible motor vehicles using compressed natural gas, liquefied natural gas, liquefied petroleum gas, methanol or methanol/gasoline blends of 85 percent or greater, ethanol or ethanol/gasoline blends of 85 percent or greater, biodiesel or biodiesel/diesel blends of 20 percent or greater, or electricity, including electricity to power a plug-in hybrid motor vehicle.

The TCEQ fleet consisted of 401 motor vehicles, of which 169, or 42%, are considered alternative fuel vehicles. The total eligible motor vehicles subject to the statute is 22, of which 17, or 77%, are considered alternative fuel vehicles, thereby exceeding the requirement of this statute. All motor vehicles are purchased and there were no leases or recent alternative fuel conversion on any of the TCEQ's vehicles.

The agency's Liquefied Petroleum Gas (LPG) usage has decreased due to a limited number of facilities that repair outdated LPG converted vehicles and the agency's decision to replace the outdated LPG vehicles by purchasing newer, fuel efficient vehicles. The E85 and Biodiesel fuels vehicles are continually being introduced into the agency's fleet whenever practical. The agency currently has 4, or 18% of 22 eligible vehicles that are considered hybrids.

The agency is below the required 50% of alternative fuel vehicles due to a realignment of assignments of regional vehicles and lack of alternative fuel vehicles available on the Term Contracts. However, the agency closely monitors our purchases to meet the requirement by purchasing new vehicles which accept alternative fuels, even for those vehicles not under the statute. Lack of alternative fuel locations remains a concern for the agency. Currently, there are only a few vendors who dispense E85 fuel and accepting the Voyager Fleet Card.

Schedule of Fuel Consumption – Total Motor Vehicle Fleet Fiscal Years Ended 2018 and 2019

FY2018	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Gas/Diesel	19,485	17,837	17,000	13,029	13,459	15,249	18,626	20,017	20,549	20,301	17,525	18,759
LPG/E85	11	35	0	27	14	16	15	0	43	42	33	0
Total Fuel	19,495	17,872	17,000	13,056	13,472	15,265	18,641	20,017	20,592	20,343	17,558	18,759
Total Miles	248,579	278,654	234,514	170,975	192,112	215,909	248,772	254,891	302,774	270,262	243,572	212,513
Avg. MPG	13	16	14	13	14	14	13	13	15	13	12	11
FY2019	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Gas/Diesel	15,263	17,825	17,613	12,276	14,140	16,434	19,425	18,996	18,268	18,258	17,850	18,698
LPG/E85	27	20	43	0	17	0	9	0	0	0	16	0
Total Fuel	15,290	17,845	17,656	12,276	14,157	16,434	19,434	18,996	18,268	18,258	17,866	18,698
Total Miles	260,545	280,587	259,622	203,111	228,079	270,777	304,011	305,222	291,608	295,294	294,947	327,505
Avg. MPG	17	16	15	17	16	16	16	16	16	16	17	17

-UNAUDITED-

**VEHICLES ELIGIBLE FOR ALTERNATIVE FUEL REPORTING REQUIREMENT
FISCAL YEAR ENDED AUGUST 31, 2019**

Physical Location	Alternative Fuel			Year	Make	Model	Asset #	Vehicle Class	Acquisition Date	Tier	Bin
	Fuel Type	Capable									
EL PASO	Unleaded for Gas Hybrid	Yes		2009	FORD	ESCAPE HYBRID	046577	707 - SPORTS UTILITY VEHICLES	12/9/2008	2	3
TYLER	Unleaded for Gas Hybrid	Yes		2009	FORD	ESCAPE HYBRID	046573	707 - SPORTS UTILITY VEHICLES	1/14/2009	2	3
ABILENE	Unleaded	No		2011	FORD	FOCUS	049520	701 - PASSENGER CARS	7/27/2010	2	3
TCEQ	Unleaded for Gas Hybrid	Yes		2018	FORD	FUSION HYBRID	057770	701 - PASSENGER CARS	7/19/2018	2	3
TCEQ	Unleaded for Gas Hybrid	Yes		2018	FORD	FUSION HYBRID	057771	701 - PASSENGER CARS	8/2/2018	2	3
TCEQ	Unleaded	Yes		2018	FORD	TAURUS	056505	701 - PASSENGER CARS	1/8/2018	2	3
TCEQ	Unleaded	Yes		2016	FORD	TAURUS	054811	701 - PASSENGER CARS	2/3/2016	2	4
TCEQ	Unleaded	Yes		2016	FORD	TAURUS	054812	701 - PASSENGER CARS	2/3/2016	2	4
CORPUS CHRISTI	Unleaded	Yes		2017	FORD	EXPEDITION	055944	707 - SPORTS UTILITY VEHICLES	5/22/2017	2	4
CORPUS CHRISTI	Unleaded	Yes		2017	FORD	EXPEDITION	056572	707 - SPORTS UTILITY VEHICLES	5/22/2017	2	4
TCEQ	Unleaded	Yes		2018	DODG	CARAVAN	056802	716 - MINI-VANS	12/19/2017	2	4
TCEQ	Unleaded	Yes		2018	DODG	JOURNEY	056504	707 - SPORTS UTILITY VEHICLES	11/8/2017	2	4
HOUSTON	Unleaded	No		2018	FORD	ESCAPE	056772	707 - SPORTS UTILITY VEHICLES	11/3/2017	2	4
TCEQ	Unleaded	Yes		2019	CHEV	IMPALA	057970	701 - PASSENGER CARS	5/24/2019	2	4
DFW	Unleaded	Yes		2019	DODG	CARAVAN	058894	716 - MINI-VANS	6/17/2019	2	4
TCEQ	Unleaded	Yes		2019	DODG	JOURNEY	058983	707 - SPORTS UTILITY VEHICLES	6/25/2019	2	4
TCEQ	Unleaded	Yes		2019	DODG	JOURNEY	058984	707 - SPORTS UTILITY VEHICLES	6/25/2019	2	4
AMARILLO	Unleaded	Yes		2008	CHEV	UPLANDER	046556	716 - MINI-VANS	8/18/2008	2	5
BEAUMONT	Unleaded	No		2010	DODG	CARAVAN	048446	716 - MINI-VANS	11/17/2009	2	5
TCEQ	Unleaded	Yes		2016	CHEV	IMPALA	054628	701 - PASSENGER CARS	7/15/2015	2	5
SAN ANTONIO	Unleaded	No		2016	FORD	TAURUS	054942	701 - PASSENGER CARS	6/2/2016	2	5
CORPUS CHRISTI	Unleaded	No		2015	FORD	ESCAPE	054584	707 - SPORTS UTILITY VEHICLES	5/27/2015	2	6
WACO	Unleaded	Yes		2019	FORD	TRANSIT LR-150	058907	708 - CARGO AND PASSENGER VANS 708	9/12/2019	2	8

SECTION II

STATEWIDE INFORMATION

REPORTABLE BY TCEQ

Analysis of Alternative Fuel Usage Reported by Agencies Fiscal Year Ended August 31, 2019

Beginning in fiscal year 2010, a new requirement was established pursuant to House Bill 432, 81st Legislature, Regular Session that changed Texas Government Code Section 2158.005. This requirement states that the Texas Commission on Environmental Quality shall collect reasonable information needed to determine the air quality benefits from use of compressed natural gas, liquefied natural gas, liquefied petroleum gas, methanol or methanol/gasoline blends of 85 percent or greater, ethanol or ethanol/gasoline blends of 85 percent or greater, biodiesel or biodiesel/diesel blends of 20 percent or greater, or electricity, including electricity to power a plug-in hybrid motor vehicle, at affected agencies.

The following analysis is based on vehicle data reported by impacted agencies in the Texas Fleet System maintained by the Comptroller of Public Accounts. This data is required to be reported by state agencies that operate a fleet of more than 15 motor vehicles, excluding law enforcement and emergency vehicles. Many agencies are not required to report data because their vehicles do not fall within the requirements of the statute. The TCEQ extracted the vehicle information from the Texas Fleet System to prepare this analysis and to reflect data reported by impacted agencies.

Benefits Derived From Alternative Fuels

Air quality benefits are not automatically achieved by switching from the use of gasoline or diesel to a different form of hydrocarbon fuel. Federal emission certification is fuel neutral in the sense that the same set of standards must be met regardless of the type of fuel that powers the vehicle. Provided below is a short summary of the Federal Tier 2 emission standards (<https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-new-motor-vehicles-tier>) for light-duty passenger vehicles that began entering the fleet during the 2004 model year:

- They are based on a 0.07 grams per mile (gpm) full useful life (120,000 mile) fleet average nitrogen oxides (NO_x) standard;
- Vehicles are assigned to various "bins" with Bin 5 considered the "average bin" because it's useful life NO_x standard is 0.07 grams/mile; and
- Manufacturer sales must average out to Bin 5 or better.

Table 1-Federal Tier 2 120,000 Mile Useful Life Emission Standards (gpm)

Tier 2 Bin	NO_x	NMOG*	CO
1	0.00	0.000	0.0
2	0.02	0.010	2.1
3	0.03	0.055	2.1
4	0.04	0.070	2.1
5	0.07	0.090	4.2
6	0.10	0.090	4.2
7	0.15	0.090	4.2
8	0.20	0.125	4.2

*Non-methane organic gases, which are VOC plus ethane (or total hydrocarbons minus methane).

The "engine out" emissions of NO_x, volatile organic compounds (VOC), and carbon monoxide (CO) from different fuels can vary, but no modern vehicle powered by any type of hydrocarbon fuel (gasoline, diesel, natural gas, etc.) is able to meet these very tight standards without an operable form of exhaust after-treatment, such as a catalytic converter. Excluding vehicles powered solely by electricity or hydrogen, the tailpipe NO_x, VOC, and CO emissions of modern vehicles depend more on the efficiency of the exhaust after-treatment than on the type of fuel used by the engine. Provided below is a summary obtained from the United States (U.S.) Environmental Protection Agency's (EPA's) Green Vehicle Guide data files that provides a breakdown of the 1,358 Federally certified light-duty passenger vehicles for the 2019 model year by fuel type and Tier 2 bin (<http://fueleconomy.gov/feg/download.shtml>). Tier 3 emission standards are being phased-in from 2017 through 2025, and have been converted to their Tier 2 equivalent categories here.

Table 2- 2019 Model Year by Type and Tier 2 Bin

Tier 2 Bin	Diesel Fuel	Electricity/ Gasoline	Electricity Only	Ethanol/ Gasoline	Gasoline Only	Hydrogen	All Fuel Types
Bin 1			37			4	41
Bin 2		19			214		233
Bin 3		5		10	468		483
Bin 4	11	8		32	433		484
Bin 5	18			1	98		117
Total	29	32	37	43	1,213	4	1,358

In order to obtain additional air quality benefit, it must be demonstrated that any new vehicle purchases/replacements that were going to come from Bin 5 are from Bins 1-4 instead. For 2019 and other recent model years, there are no production vehicles available powered by compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG), methanol, or methanol/gasoline blends.

Benefits are calculated by estimating how much less the Bins 1-4 vehicles emitted during the 2019 fiscal year than if they had been certified to Bin 5. The difference in emission rates by model year between Bins 1-4 versus Bin 5 is multiplied by the reported miles traveled during the 2019 fiscal year for the specific vehicle. Table 3, 4 and 5 on the following pages summarize the number of Tier 2 vehicles by bin number reported by multiple state agencies. Separate tables are provided that summarize both annual and average work day benefits of NO_x, VOC, and CO for the 2019 fiscal year. An annual total of 250 working days per year was assumed for this analysis. Benefits were not estimated for the following situations:

- Vehicles certified to Tier 2 Bins 5 or higher;
- Vehicles for which the Tier 2 bin category was not reported in the database; and
- Vehicles for which no mileage was either accumulated or reported during the 2019 fiscal year.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (582)
 -UNAUDITED-

Table 6, 7 and 8 are giving samples of the NO_x, VOC, and CO calculations for the Bins 2, 3, and 4 vehicles in the TCEQ fleet.

Table 3 - Number of 2004-and-Newer Vehicles by Tier 2 Bin Reported by State Agency for the 2019 Fiscal Year

Agency Code	Agency Name	1	2	3	4	5	6	7	8	N/A	Total
302	Attorney General	0	0	2	56	3	0	1	2	58	122
303	Texas Facilities Commission	0	0	0	1	0	2	0	0	13	16
304	Comptroller of Public Accounts	0	0	0	0	0	0	0	1	0	1
305	General Land Office	0	0	0	7	6	0	4	0	13	30
401	Texas Military Department	0	0	0	0	0	0	30	0	5	35
405	Department of Public Safety	0	0	3	185	79	0	15	4	3	289
455	Texas Railroad Commission	0	0	0	0	2	0	0	2	3	7
529	Health and Human Services Commission	0	0	8	9	24	0	0	0	92	133
537	Department of State Health Services	0	0	1	3	21	0	0	3	48	76
538	Department of Assistive and Rehabilitative Services	0	0	0	0	0	0	0	0	0	0
539	Department of Aging and Disability	0	0	0	0	0	0	0	0	0	0
551	Department of Agriculture	0	0	4	57	114	3	0	0	27	205
580	Texas Water Development Board	0	0	0	20	19	0	0	0	3	42
582	Texas Commission on Environmental Quality	0	2	3	9	9	0	0	0	0	23
592	Texas State Soil and Water Conservation Board	0	0	0	17	0	0	0	0	10	27
601	Texas Department of Transportation	0	3	35	178	121	0	0	88	204	629
608	Texas Department of Motor Vehicles	0	0	2	10	0	0	0	0	0	12
644	Texas Juvenile Justice Department	0	0	0	0	0	0	0	0	153	153
696	Texas Department of Criminal Justice	0	0	54	5	161	53	25	8	131	437
802	Texas Parks and Wildlife	0	0	0	0	0	0	0	41	28	69
808	Texas Historical Commission	0	1	3	1	18	0	0	45	1	69
	Grand Total	0	6	115	558	577	58	75	194	792	2,375

Table 4-2019 Fiscal Year Annual Benefits Summary (pounds per pollutant)

Agency Code	Agency Name	Bins 2, 3 and 4 Vehicles - Number	Bins 2, 3 and 4 Vehicles - Annual Miles	Annual Benefits (pounds) - NOx	Annual Benefits (pounds) - VOC	Annual Benefits (pounds) - CO
302	Attorney General	58	412,538	28.85	15.22	788.27
303	Texas Facilities Commission	1	0	0.00	0.00	0.00
304	Comptroller of Public Accounts	0	0	0.00	0.00	0.00
305	General Land Office	7	29,778	2.27	1.11	72.97
401	Texas Military Department	0	0	0.00	0.00	0.00
405	Department of Public Safety	188	1,865,547	144.50	73.67	4,184.06
455	Texas Railroad Commission	0	0	0.00	0.00	0.00
529	Health and Human Services Commission	17	97,512	15.20	9.84	362.00
537	Department of State Health Services	4	29,476	4.47	2.65	113.73
538	Department of Assistive and Rehabilitative Services	0	0	0.00	0.00	0.00
539	Department of Aging and Disability	0	0	0.00	0.00	0.00
551	Department of Agriculture	61	983,762	73.47	37.49	2,214.35
580	Texas Water Development Board	20	195,415	17.32	8.86	476.02
582	Texas Commission on Environmental Quality	14	173,078	13.81	11.44	296.10
592	Texas State Soil and Water Conservation Board	17	153,245	16.92	8.69	494.19
601	Texas Department of Transportation	216	453,393	40.80	23.75	1,090.67
608	Texas Department of Motor Vehicles	12	152,888	12.16	7.38	312.15
644	Texas Juvenile Justice Department	0	0	0.00	0.00	0.00
696	Texas Department of Criminal Justice	59	516,676	90.24	59.00	1,893.08
802	Texas Parks and Wildlife	0	0	0.00	0.00	0.00
808	Texas Historical Commission	5	3,715	0.50	0.37	10.38
	Grand Total	679	5,067,023	460.51	259.47	12,307.97

Table 5-2019 Fiscal Year Average Workday Benefits Summary (pounds per pollutant based on 250 work days per year)

Agency Code	Agency Name	Average Workday Benefits (pounds) - NOx	Average Workday Benefits (pounds) - VOC	Average Workday Benefits (pounds) - CO
302	Attorney General	0.12	0.06	3.15
303	Texas Facilities Commission	0.00	0.00	0.00
304	Comptroller of Public Accounts	0.00	0.00	0.00
305	General Land Office	0.01	0.00	0.29
401	Texas Military Department	0.00	0.00	0.00
405	Department of Public Safety	0.58	0.29	16.74
455	Texas Railroad Commission	0.00	0.00	0.00
529	Health and Human Services Commission	0.06	0.04	1.45
537	Department of State Health Services	0.02	0.01	0.45
538	Department of Assistive and Rehabilitative Services	0.00	0.00	0.00
539	Department of Aging and Disability	0.00	0.00	0.00
551	Department of Agriculture	0.29	0.15	8.86
580	Texas Water Development Board	0.07	0.04	1.90
582	Texas Commission on Environmental Quality	0.06	0.05	1.18
592	Texas State Soil and Water Conservation Board	0.07	0.03	1.98
601	Texas Department of Transportation	0.16	0.09	4.36
608	Texas Department of Motor Vehicles	0.05	0.03	1.25
644	Texas Juvenile Justice Department	0.00	0.00	0.00
696	Texas Department of Criminal Justice	0.36	0.24	7.57
802	Texas Parks and Wildlife	0.00	0.00	0.00
808	Texas Historical Commission	0.00	0.00	0.04
	Grand Total	1.85	1.03	49.22

Table 6-Sample NOx Benefit Calculations for the 2019 Fiscal Year from TCEQ Bins 2, 3, and 4 Vehicles

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2019 Mileage	Bin 5 NOx Rate (gpm)	Vehicle NOx Rate (gpm)	NOx Difference (gpm)	NOx Benefit (grams)
2018	FORD	FUSION HYBRID	2	22,097	0.0547	0.0156	0.0391	864
2018	FORD	FUSION HYBRID	2	24,807	0.0547	0.0156	0.0391	969
2009	FORD	ESCAPE HYBRID	3	5,027	0.1528	0.0655	0.0873	439
2009	FORD	ESCAPE HYBRID	3	11,225	0.1528	0.0655	0.0873	980
2011	FORD	FOCUS	3	9,229	0.1285	0.0551	0.0734	678
2018	FORD	TAURUS	4	18,538	0.0547	0.0313	0.0234	435
2018	DODG	CARAVAN	4	17,503	0.0547	0.0313	0.0234	410
2018	DODG	JOURNEY	4	24,281	0.0547	0.0313	0.0234	569
2018	FORD	ESCAPE	4	7,716	0.0547	0.0313	0.0234	181
2019	CHEV	IMPALA	4	3,715	0.0545	0.0312	0.0234	87
2019	DODG	CARAVAN	4	833	0.0545	0.0312	0.0234	19
2019	DODG	JOURNEY	4	4,448	0.0545	0.0312	0.0234	104
2019	DODG	JOURNEY	4	1,803	0.0545	0.0312	0.0234	42
2016	CHEV	IMPALA	4	21,856	0.0521	0.0298	0.0223	488

Table 7-Sample VOC Benefit Calculations for the 2019 Fiscal Year from TCEQ Bins 2, 3, and 4 Vehicles

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2019 Mileage	Bin 5 VOC Rate (gpm)	Vehicle VOC Rate (gpm)	VOC Difference (gpm)	VOC Benefit (grams)
2018	FORD	FUSION HYBRID	2	22,097	0.0583	0.0065	0.0518	1,146
2018	FORD	FUSION HYBRID	2	24,807	0.0583	0.0065	0.0518	1,286
2009	FORD	ESCAPE HYBRID	3	5,027	0.1648	0.1007	0.0641	322
2009	FORD	ESCAPE HYBRID	3	11,225	0.1648	0.1007	0.0641	720
2011	FORD	FOCUS	3	9,229	0.1136	0.0694	0.0442	408
2018	FORD	TAURUS	4	18,538	0.0583	0.0454	0.0130	240
2018	DODG	CARAVAN	4	17,503	0.0583	0.0454	0.0130	227
2018	DODG	JOURNEY	4	24,281	0.0583	0.0454	0.0130	315
2018	FORD	ESCAPE	4	7,716	0.0583	0.0454	0.0130	100
2019	CHEV	IMPALA	4	3,715	0.0576	0.0448	0.0128	48
2019	DODG	CARAVAN	4	833	0.0576	0.0448	0.0128	11
2019	DODG	JOURNEY	4	4,448	0.0576	0.0448	0.0128	57
2019	DODG	JOURNEY	4	1,803	0.0576	0.0448	0.0128	23
2016	CHEV	IMPALA	4	21,856	0.0591	0.0460	0.0131	287

Table 8-Sample CO Benefit Calculations for the 2019 Fiscal Year from TCEQ Bins 2, 3 and 4 Vehicles

Model Year	Vehicle Make	Vehicle Model	Tier 2 Bin	FY 2019 Mileage	Bin 5 CO Rate (gpm)	Vehicle CO Rate (gpm)	CO Difference (gpm)	CO Benefit (grams)
2018	FORD	FUSION HYBRID	2	22,097	1.2366	0.6183	0.6183	13,662
2018	FORD	FUSION HYBRID	2	24,807	1.2366	0.6183	0.6183	15,338
2009	FORD	ESCAPE HYBRID	3	5,027	3.6933	1.8466	1.8466	9,283
2009	FORD	ESCAPE HYBRID	3	11,225	3.6933	1.8466	1.8466	20,728
2011	FORD	FOCUS	3	9,229	2.9779	1.4889	1.4889	13,741
2018	FORD	TAURUS	4	18,538	1.2366	0.6183	0.6183	11,462
2018	DODG	CARAVAN	4	17,503	1.2366	0.6183	0.6183	10,822
2018	DODG	JOURNEY	4	24,281	1.2366	0.6183	0.6183	15,013
2018	FORD	ESCAPE	4	7,716	1.2366	0.6183	0.6183	4,771
2019	CHEV	IMPALA	4	3,715	1.2311	0.6156	0.6156	2,287
2019	DODG	CARAVAN	4	833	1.2311	0.6156	0.6156	513
2019	DODG	JOURNEY	4	4,448	1.2311	0.6156	0.6156	2,738
2019	DODG	JOURNEY	4	1,803	1.2311	0.6156	0.6156	1,110
2016	CHEV	IMPALA	4	21,856	1.1751	0.5875	0.5875	12,841

