



Oregon
Department of
Environmental
Quality

Oregon Greenhouse Gas Reporting Advisory Committee

Example reports submitted to DEQ by fuel distributors

For discussion January 21, 2010

Example report #1: Gasoline bulk plant

The facility's annual report shows total quantity of throughput by fuel type

Example report #2: Gasoline terminal

The facility's annual report shows total quantity of throughput by fuel type and also shows fuel quantities loaded from the rack into tanks and trailers for distribution and marine loading operations.

Report pages:

- FIXTANKS, INTANKS and XTANKS: Fuel throughput
- TRACK: Fuel loaded into tanks and trailers for distribution
- MLOAD: marine loading operations

Tarr

Example #1

Oregon Department of Environmental Quality
Northwest Region Office
2020 SW 4th Avenue, Suite 400
Portland, OR 97201

RE: Air Contaminant Discharge Permit No. 26-3075
Annual Report attachment (for Question 5)

As required by our Contaminant Discharge Permit No. 26-3075, this annual report is being submitted in duplicate for review by the Oregon DEQ. This report includes total volume of bulk products run through the plant in 2007.

Tarr, LLC - Portland
Total Product by Volume 2007

Storage Tank No.	Capacity	Stored Compound(s)	Volume (gal./yr.)
1	8,000 gal.	Low Sulfur Diesel Fuel	167,583
2	8,000 gal.	Unleaded Gasoline	167,883
3	8,000 gal.	VM&P 265 (Naphtha)	21,015
4	8,000 gal.	Solvent 140F (Naphtha)	136,550
5	8,000 gal.	Methyl Isobutyl Ketone (Jan. - Apr.)	7,310
5	8,000 gal.	Isopropyl Alcohol (May - Dec.)	85,507
6	8,000 gal.	n-Butyl Acetate (until 11/15/07)	36,165
6	8,000 gal.	n-Propanol (Dec.)	10,385
7	12,000 gal.	Transformer Oil	35,233
8	12,000 gal.	Ethanol	239,976
9	10,000 gal.	Acetone	261,195
10	10,000 gal.	Toluene	85,396
11	8,000 gal.	Xylene	74,621
12	8,000 gal.	High Sulfur Diesel (Dyed)	315,529
13	8,000 gal.	Methyl Ethyl Ketone	77,531
14	8,000 gal.	Methanol	163,168
15	8,000 gal.	Tolusol WHT (Naphtha)	99,891
16	8,000 gal.	Isopropyl Alcohol	197,463
17	8,000 gal.	Solvent 25 (Naphtha)	52,839
18	8,000 gal.	Solvent 365 (Naphtha)	139,850
19	2,000 gal.	Solvent PM	8,074
20	2,000 gal.	n-Propanol	33,127
21	2,000 gal.	n-Propanol	26,591
22	2,000 gal.	Propylene Glycol	26,330
23	2,000 gal.	Odorless Mineral Spirits	17,225
24	2,000 gal.	Methyl Isobutyl Ketone	13,059

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Portland



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Chevron Products Company Willbridge Distribution Center
 12 Month Rolling Monthly Summary
 EXTANKS

Month	Gasoline RVP 7 Throughput (gallons:month)	Gasoline RVP 7 VOC Emissions (tons:month)	Gasoline RVP 10 Throughput (gallons:month)	Gasoline RVP 10 VOC Emissions (tons:month)	Gasoline RVP 13 Throughput (gallons:month)	Gasoline RVP 13 VOC Emissions (tons:month)	Avgas Throughput (gallons:month)	Avgas VOC Emissions (tons:month)
January 2008	0	0.00	0	0.00	1,890,168	0.93	0	0.00
February 2008	0	0.00	0	0.00	1,620,701	0.87	0	0.00
March 2008	0	0.00	0	0.00	1,998,113.61	0.80	0	0.00
April 2008	0	0.00	1,427,245	0.47	0.00	0.00	0	0.00
May 2008	2,232,872	0.42	0	0.00	0.00	0.00	0	0.00
June 2008	1,760,363	0.46	0	0.00	0.00	0.00	0	0.00
July 2008	1,617,554	0.52	0	0.00	0.00	0.00	0	0.00
August 2008	1,343,770	0.47	0	0.00	0.00	0.00	0	0.00
September 2008	0	0.00	0	0.00	0.00	0.00	0	0.00
October 2008	0	0.00	0	0.00	0	0.00	0	0.00
November 2008	0	0.00	0	0.00	0	0.00	0	0.00
December 2008	0	0.00	0	0.00	0	0.00	0	0.00
Total	6,954,559	1.87	1,427,245	0.47	5,508,983	2.61	0	0.00

EXTANK is 86
 Please see detail sheets for throughput and emissions for each tank.

Extank
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Chevron Products Company Willbridge Distribution Center
12 Month Rolling Monthly Summary
INTANKS

Month	Gasoline RVP 7 Throughput (gallons/month)	Gasoline RVP 7 VOC Emissions (tons/month)	Gasoline RVP 10 Throughput (gallons/month)	Gasoline RVP 10 VOC Emissions (tons/month)	Gasoline RVP 13 Throughput (gallons/month)	Gasoline RVP 13 VOC Emissions (tons/month)	Ethanol Throughput (gallons/month)	Ethanol VOC Emissions (tons/month)
January 2008	0	0.00	0	0.00	45,109,344	1.42	3,096,744	0.02
February 2008	0	0.00	0	0.00	38,664,229	1.48	2,125,284	0.02
March 2008	0	0.00	0	0.00	44,479,002	1.57	1,047,144	0.02
April 2008	0	0.00	34,061,579	1.07	0	0.00	1,814,197	0.02
May 2008	35,317,732	0.54	4,379,844	0.54	0	0.00	3,547,698	0.03
June 2008	27,843,967	0.57	21,169,806	0.60	0	0.00	2,501,994	0.03
July 2008	25,585,132	0.60	14,208,936	0.62	0	0.00	2,691,990	0.03
August 2008	34,678,622	0.60	8,831,718	0.61	0	0.00	2,534,028	0.03
September 2008	12,709,032	0.55	8,268,330	0.57	27,622,476	1.87	2,877,966	0.03
October 2008	0	0.00	0	0.00	43,090,601	1.68	3,673,950	0.02
November 2008	0	0.00	0	0.00	39,674,334	1.52	2,431,556	0.02
December 2008	0	0.00	0	0.00	42,897,708	1.42	1,761,085	0.02
Total	136,134,485	2.85	90,920,213	4.02	281,537,695	10.96	30,103,636	0.28

INTANKS includes tanks 1, 3, 45, 47, 51, 60 and 62.
Please see detail sheets for throughput and emissions for each tank.

INTANKS
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Chevron Products Company Willbridge Distribution Center
 12 Month Rolling Monthly Summary
 FIXTANKS

Month	Diesel Throughput (gallons/month)	Diesel VOC Emissions (tons/month)	Jet A Throughput (gallons/month)	Jet A VOC Emissions (tons/month)
January 2008	2,642,220	0.02	458,472	0.01
February 2008	3,649,748	0.03	0	0.00
March 2008	4,915,512	0.05	833,616	0.01
April 2008	2,515,212	0.03	335,832	0.01
May 2008	3,556,980	0.05	0	0.00
June 2008	1,832,124	0.04	437,556	0.01
July 2008	2,419,536	0.03	401,249	0.02
August 2008	1,935,360	0.03	440,790	0.02
September 2008	1,416,282	0.02	0	0.00
October 2008	1,912,302	0.02	0	0.00
November 2008	1,723,344	0.01	0	0.00
December 2008	1,660,050	0.01	495,936	0.01
Total	30,178,670	0.35	3,403,451	0.08

FIXTANKS includes tanks 59, 64 and 75
 Please see detail sheets for throughput and emissions for each tank.

Fix-tank
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Chevron Products Company Willbridge Distribution Center
12 Month Rolling Summary
Emission Unit: TRACK

Compound	Vapor Pressure (psia)	Molecular Weight (lb/lb-mole)	Average Temperature (deg R)	VOC Loading Loss ⁽¹⁾ (lb/10 ³ gal)
Diesel Fuel	0.0074	130	520	0.0231
Jet Fuel	0.0085	130	520	0.0265

Saturation Factor: 1 (Submerged loading in a dedicated vapor balance service)

Month	Supreme Unleaded (gallons/month)	Unleaded Regular (gallons/month)	Mid-grade Unleaded (gallons/month)	Av Gas (gallons/month)	Diesel Fuel (gallons/month)	Jet Fuel (gallons/month)	VOC Emissions ⁽²⁾ (tons/month)
January 2008	2,808,966	22,616,554	651,286	59,835	1,973,157	302,792	1.54
February 2008	2,815,954	22,221,978	623,377	38,456	2,223,794	335,456	1.52
March 2008	2,727,568	22,827,601	584,785	24,368	2,397,396	339,806	1.54
April 2008	2,736,629	23,438,865	547,321	37,669	1,596,979	370,096	1.58
May 2008	2,735,414	23,669,705	532,273	36,609	1,710,330	276,548	1.60
June 2008	2,481,903	21,733,367	448,873	22,169	2,035,182	228,987	1.47
July 2008	2,801,035	23,460,394	503,166	40,797	1,934,133	258,289	1.59
August 2008	2,950,023	23,932,276	518,862	55,877	1,855,379	224,251	1.63
September 2008	2,818,478	22,471,413	466,599	54,453	1,573,664	176,442	1.53
October 2008	2,794,202	22,990,338	440,890	28,076	2,051,711	147,038	1.56
November 2008	2,746,576	21,429,968	466,308	68,265	1,415,010	127,580	1.47
December 2008	2,660,526	19,951,991	475,767	34,600	2,148,836	98,990	1.37

Totals	Supreme Unleaded (gallons)	Unleaded Regular (gallons)	Mid-grade Unleaded (gallons)	Av Gas (gallons)	Diesel Fuel (gallons)	Jet Fuel (gallons)	VOC Emissions (tons)
	33,077,274	270,744,450	6,259,507	501,174	22,915,571	2,886,275	18.40

Notes:
 (1) Calculated rate = (12.46) x (Saturation factor) x (Vapor Pressure (psia)) x (Molecular Weight (lb/lb-mole)) / (Temperature (deg R))
 (2) For products other than gasoline: Calculated emissions rate = (Throughput (gallons/month)) x (Loading Loss Emission Factor (lb/10³ gallon)) x (1 - control efficiency) [%] / 100) x (ton/2000 lb)
 For gasoline: Calculated track rack emissions rate = ((Throughput (gallons/month)) x (Gasoline emission factor (lb/10³ gallon) x (ton/2000 lbs)), plus
 Calculated track rack fugitive emissions rate = (Throughput (gallons/month)) x (10.79 x 10⁻² lbs/10³ gallon) x (ton/2000 lbs)

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Chevron Products Company Willbridge Distribution Center
12 Month Rolling Summary
Emission Unit: MLOAD

Month	Supreme Unleaded (gallons/month)	Unleaded Regular (gallons/month)	Avgas (gallons/month)	Diesel Fuel (gallons/month)	Jet Fuel (gallons/month)	Ethanol (gallons/month)	VGO (gallons/month)	Naphtha (gallons/month)	Cutback Asphalt (gallons/month)	Paving Asphalt (gallons/month)	Industrial Asphalt (gallons/month)	VOC Emissions ⁽¹⁾ (tons/month)
January 2008	2,379,468	5,871,516	0	0	885,528	0	0	0	0	0	0	0.05
February 2008	1,010,211	1,572,380	0	1,019,421	2,925,240	0	0	0	0	0	0	0.07
March 2008	1,153,536	1,606,836	0	1,022,322	1,011,528	0	0	0	0	0	0	0.02
April 2008	848,610	5,533,450	0	422,688	1,011,314	0	0	0	0	0	0	0.05
May 2008	2,426,676	9,582,728	0	838,278	1,879,584	0	0	0	0	0	0	0.13
June 2008	1,772,232	8,065,638	0	1,009,470	1,977,570	0	0	0	0	0	0	0.11
July 2008	2,120,454	7,571,172	0	0	1,018,752	0	0	0	0	0	0	0.10
August 2008	2,494,580	9,522,930	0	0	2,049,012	0	0	0	0	0	0	0.13
September 2008	1,338,330	12,786,984	0	0	3,029,922	0	1,037,232	0	0	0	0	2.17
October 2008	2,364,042	5,582,766	0	0	2,036,748	0	0	0	0	0	0	0.09
November 2008	1,488,312	3,928,974	0	0	1,012,200	0	0	0	0	0	0	0.06
December 2008	2,462,292	1,604,082	0	0	1,022,028	0	0	0	0	0	0	0.08

Totals:	Supreme Unleaded (gallons)	Unleaded Regular (gallons)	Avgas (gallons)	Diesel Fuel (gallons)	Jet Fuel (gallons)	Ethanol (gallons)	VGO (gallons)	Naphtha (gallons)	Cutback Asphalt (gallons)	Paving Asphalt (gallons)	Industrial Asphalt (gallons)	VOC Emissions (tons)
	25,159,176	79,239,476	0	4,312,182	18,959,346	0	0	1,037,232	0	0	0	3.08

Notes:

(1) Emissions are calculated using the formula and emission factors stated in condition 50 of Permit No. 26-2027.

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