Potential Emissions Detail

Potentials Established on: Friday, January 01, 2010

Report Generated on: Tuesday, February 15, 2011

Potential-to-Emit Summary for GLENVILLE 4C1170

Area: 09

State: West Virginia

Criteria Pollutant	Lb/Hr	Lb/Yr	Ton/Yr
Carbon Monoxide	123.01	410,117.75	205.06
Nitrogen Oxides (NOx)	706.91	2,392,648.14	1,196.32
PM10	4.17	28,294.98	14.15
Sulfur Dioxide	6.20	527.20	0.26
VOC	113.62	120,618.14	60.31

Hazardous Air Pollutants	Lb/Hr	Lb/Yr	Ton/Yr
Acetaldehyde	0.84	5,711.52	2.86
Benzene	0.21	1,427.88	0.71
Ethylbenzene	0.01	79.45	0.04
Formaldehyde	6.25	40,764.86	20.38
Hexane	0.05	327.62	0.16
Toluene	0.10	708.68	0.35
Xylene (mixed Isomers)	0.03	197.10	0.10
Total HAP	7.49	49,217	24.61

Unregulated	Lb/Hr	Lb/Yr	Ton/Yr
Methane	37.60	329,419.62	164.71

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: E01

Unit Name: RECIP ENG/INT COM #01301, Sub Unit: RECIP ENG/INT COM #01301 **Agency ID:** 01301

Description: 2-LEAN

Manufacturer: CLARK TLA-6 **Rating:** 2000 hp **SCC:** 20200252, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	2,580
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	2,000
Operating Hours	8,760

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Acetaldehyde	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.17	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.57	0.00%
Benzene	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.042	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.14	0.00%
Carbon Monoxide	9.36 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	24.15	4.67 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	40.91	0.00%
Ethylbenzene	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0023	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.01	0.00%
Formaldehyde	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	1.20	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	4.06	0.00%
Hexane	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0096	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.03	0.00%
Nitrogen Oxides (NOx)	5.46 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	140.87	2.73 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	239.15	0.00%
PM10	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	0.83	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.83	0.00%
Sulfur Dioxide	4.8 E-04 lb/bhp_hr Eng. Calc. (20 gr S/100scf) @ 8,400 Btu/Hp-hr	1.24	6 E-06 lb/bhp_hr Eng. Calc. (0.25 gr S/100scf) @ 8,400 Btu/Hp-hr	0.05	0.00%
Toluene	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.021	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.07	0.00%
VOC	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.61	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	8.85	0.00%
Xylene (mixed Isomers)	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0058	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.02	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: E02

Unit Name: RECIP ENG/INT COM #01302, Sub Unit: RECIP ENG/INT COM #01302 **Agency ID:** 01302

Description: 2-LEAN

Manufacturer: CLARK TLA-6 **Rating:** 2000 hp **SCC:** 20200252, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	2,580
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	2,000
Operating Hours	8,760

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Acetaldehyde	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.17	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.57	0.00%
Benzene	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.042	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.14	0.00%
Carbon Monoxide	9.36 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	24.15	4.67 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	40.91	0.00%
Ethylbenzene	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0023	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.01	0.00%
Formaldehyde	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	1.20	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	4.06	0.00%
Hexane	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0096	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.03	0.00%
Nitrogen Oxides (NOx)	5.46 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	140.87	2.73 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	239.15	0.00%
PM10	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	0.83	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.83	0.00%
Sulfur Dioxide	4.8 E-04 lb/bhp_hr Eng. Calc. (20 gr S/100scf) @ 8,400 Btu/Hp-hr	1.24	6 E-06 lb/bhp_hr Eng. Calc. (0.25 gr S/100scf) @ 8,400 Btu/Hp-hr	0.05	0.00%
Toluene	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.021	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.07	0.00%
VOC	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.61	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	8.85	0.00%
Xylene (mixed Isomers)	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0058	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.02	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: E05

Unit Name: RECIP ENG/INT COM #01305, Sub Unit: RECIP ENG/INT COM #01305 **Agency ID:** 01305

Description: 2-LEAN

Manufacturer: CLARK TLA-6 **Rating:** 2000 hp **SCC:** 20200252, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	2,580
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	2,000
Operating Hours	8,760

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Acetaldehyde	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.17	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.57	0.00%
Benzene	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.042	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.14	0.00%
Carbon Monoxide	9.36 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	24.15	4.67 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	40.91	0.00%
Ethylbenzene	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0023	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.01	0.00%
Formaldehyde	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	1.20	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	4.06	0.00%
Hexane	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0096	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.03	0.00%
Nitrogen Oxides (NOx)	5.46 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	140.87	2.73 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	239.15	0.00%
PM10	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	0.83	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.83	0.00%
Sulfur Dioxide	4.8 E-04 lb/bhp_hr Eng. Calc. (20 gr S/100scf) @ 8,400 Btu/Hp-hr	1.24	6 E-06 lb/bhp_hr Eng. Calc. (0.25 gr S/100scf) @ 8,400 Btu/Hp-hr	0.05	0.00%
Toluene	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.021	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.07	0.00%
VOC	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.61	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	8.85	0.00%
Xylene (mixed Isomers)	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0058	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.02	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: E06

Unit Name: RECIP ENG/INT COM #01306, Sub Unit: RECIP ENG/INT COM #01306 **Agency ID:** 01306

Description: 2-LEAN

Manufacturer: CLARK TLA-6 **Rating:** 2000 hp **SCC:** 20200252, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	2,580
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	2,000
Operating Hours	8,760

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Acetaldehyde	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.17	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.57	0.00%
Benzene	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.042	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.14	0.00%
Carbon Monoxide	9.36 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	24.15	4.67 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	40.91	0.00%
Ethylbenzene	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0023	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.01	0.00%
Formaldehyde	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	1.20	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	4.06	0.00%
Hexane	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0096	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.03	0.00%
Nitrogen Oxides (NOx)	5.46 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	140.87	2.73 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	239.15	0.00%
PM10	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	0.83	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.83	0.00%
Sulfur Dioxide	4.8 E-04 lb/bhp_hr Eng. Calc. (20 gr S/100scf) @ 8,400 Btu/Hp-hr	1.24	6 E-06 lb/bhp_hr Eng. Calc. (0.25 gr S/100scf) @ 8,400 Btu/Hp-hr	0.05	0.00%
Toluene	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.021	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.07	0.00%
VOC	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.61	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	8.85	0.00%
Xylene (mixed Isomers)	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0058	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.02	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: E07

Unit Name: RECIP ENG/INT COM #01307, Sub Unit: RECIP ENG/INT COM #01307 **Agency ID:** 01307

Description: 2-LEAN

Manufacturer: CLARK TLA-6 **Rating:** 2000 hp **SCC:** 20200252, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	2,580
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	2,000
Operating Hours	8,760

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Acetaldehyde	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.17	6.52 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.57	0.00%
Benzene	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.042	1.63 E-05 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.14	0.00%
Carbon Monoxide	9.36 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	24.15	4.67 E-03 lb/bhp_hr CGT Test Derv. Emission Factor	40.91	0.00%
Ethylbenzene	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0023	9.07 E-07 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.01	0.00%
Formaldehyde	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	1.20	4.64 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	4.06	0.00%
Hexane	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0096	3.74 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.03	0.00%
Nitrogen Oxides (NOx)	5.46 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	140.87	2.73 E-02 lb/bhp_hr CGT Test Derv. Emission Factor	239.15	0.00%
PM10	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	0.83	3.23 E-04 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.83	0.00%
Sulfur Dioxide	4.8 E-04 lb/bhp_hr Eng. Calc. (20 gr S/100scf) @ 8,400 Btu/Hp-hr	1.24	6 E-06 lb/bhp_hr Eng. Calc. (0.25 gr S/100scf) @ 8,400 Btu/Hp-hr	0.05	0.00%
Toluene	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.021	8.09 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.07	0.00%
VOC	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	2.61	1.01 E-03 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000 @ 8,400 Btu/Hp-hr	8.85	0.00%
Xylene (mixed Isomers)	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.0058	2.25 E-06 lb/bhp_hr AP-42 TBL 3.2-1, 7/2000, @ 8,400 Btu/Hp-hr	0.02	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: ENGINE

Emission Point: G2

Unit Name: RECIP ENG/GEN #013G2, Sub Unit: RECIP ENG/GEN #013G2 **Agency ID:** 013G2

Description: 4-RICH

Manufacturer: WAUKESHA VGFH24GL **Rating:** 530 hp **SCC:** 20200253, **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Brake Horsepower	583
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Brake Horsepower	530
Operating Hours	500

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Carbon Monoxide	3.854 E-03 lb/bhp_hr Manufacturer Data	2.25	3.854 E-03 lb/bhp_hr Manufacturer Data	0.51	0.00%
Formaldehyde	4.47 E-04 lb/bhp_hr AP-42 TBL 3.2-3, 7/00 @ 7,720 Btu/Hp-hr	0.26	4.47 E-04 lb/bhp_hr AP-42 TBL 3.2-3, 7/00 @ 7,720 Btu/Hp-hr	0.06	0.00%
Nitrogen Oxides (NOx)	4.405 E-03 lb/bhp_hr Manufacturer Data	2.57	4.405 E-03 lb/bhp_hr Manufacturer Data	0.58	0.00%
PM10	5.9 E-07 lb/bhp_hr AP-42 Table 3.2-2, PM10 (Filterable), 7/00 @ 7,720 Btu/Hp-hr	0.0003	5.9 E-07 lb/bhp_hr AP-42 Table 3.2-2, PM10 (Filterable), 7/00 @ 7,720 Btu/Hp-hr	0.0001	0.00%
Sulfur Dioxide	6 E-06 lb/bhp_hr Eng. Calc (20 gr S/100scf)	0.0035	6 E-06 lb/bhp_hr Eng. Calc (0.25 gr S/100scf)	0.001	0.00%
VOC	1.651 E-03 lb/bhp_hr Manufacturer Data	0.96	1.651 E-03 lb/bhp_hr Manufacturer Data	0.22	0.00%

Emission Point: E01

Unit Name: WASTEWATER EVAPORATOR #1, Sub Unit: WASTEWATER EVAPORATOR #1_WE1 **Agency ID:** WE1

Description: WASTEWATER EVAPORATOR

Manufacturer: COMPANY FABRICATED (N/R) **Rating:** 900 gal/hr **SCC:** , **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Operating Hours	1.000
Rated Capacity	900

Unit Potential Production Basis for Year

Parameter	Value
Operating Hours	1,111
Rated Capacity	900

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
VOC	3.3 E-06 lb/gal Basement Wastewater Analysis	0.0030	3.3 E-06 lb/gal Basement Wastewater Analysis	0.002	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: FLARE CONTROL DEVICE

Emission Point: FL1

Unit Name: MERCAPTAN TANK FLARE, Sub Unit: MERCAPTAN TANK FLARE_FLLP1 **Agency ID:** FLLP1

Description: FLARE 95 % METHANETHIOL ABATEMENT

Manufacturer: JOHN ZINK (N/R) **Rating:** .06 mmBtu/hr **SCC:** , **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
MMBTU per Hour	0.06000
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
MMBTU per Hour	0.06000
Operating Hours	200

Chemical	Potential Emissions in Lb/Hour: Emission Factor Reference	Lb.	Potential Emissions in Ton/Year: Emission Factor Reference	TPY	Control
Carbon Monoxide	3.7 E-01 lb/mmbtu AP-42 Tbl 13.5-1 (1/95) CO factor.	0.022	3.7 E-01 lb/mmbtu AP-42 Tbl 13.5-1 (1/95) CO factor.	0.002	0.00%
Nitrogen Oxides (NOx)	6.8 E-02 lb/mmbtu AP-42 Tbl 13.5-1 (1/95)	0.0041	6.8 E-02 lb/mmbtu AP-42 Tbl 13.5-1 (1/95)	0.0004	0.00%
PM10	1.86 E-03 lb/mmbtu AP-42 Tbl 1.4-2 (filterable) (7/98)	0.0001	1.86 E-03 lb/mmbtu AP-42 Tbl 1.4-2 (filterable) (7/98)	0.0000	0.00%
Sulfur Dioxide	5.7 E-02 lb/mmbtu Calc.: 20 gr S/100scf	0.0034	7.1 E-04 lb/mmbtu Calc.: 0.25 gr S/100scf	0.0000	0.00%
VOC	1.4 E-02 lb/mmbtu Tbl 13.5-1 (1/95) 10% of THC	0.0008	1.4 E-02 lb/mmbtu Tbl 13.5-1 (1/95) 10% of THC	0.0001	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: FUGITIVE

Emission Point: FUG

Unit Name: FUGITIVE EMISSIONS, Sub Unit: FUGITIVE EMISSIONS_BLOWDOWNS **Agency ID:** FUG_BD

Description: VOC EMISSIONS FROM BLOWDOWNS

Manufacturer: (N/R) **Rating:** 0 0 **SCC:** , **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Operating Hours	8,760

Potential Emissions in Lb/Hour

Chemical	Emission Rate Reference	Lb.
VOC	3.6 E-01 lb/hr Transient Emissions; Blowdowns, Starts, etc.	0.36

Potential Emissions in Ton/Year

Emission Rate Reference	TPY	Control
3.6 E-01 lb/hr Transient Emissions; Blowdowns, Starts, etc.	1.58	0.00%

Unit Name: FUGITIVE EMISSIONS, Sub Unit: FUGITIVE EMISSIONS_EQ LK GAS **Agency ID:** FUG_ELG

Description: VOC EMISSIONS FROM EQUIPMENT LEAKS

Manufacturer: (N/R) **Rating:** 0 0 **SCC:** , **Regulatory Status:** SIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Count Compressor Seals	17
Count Connectors	879
Count OEL	5.000
Count Pressure Relief Valves	8.000
Count Valves	251
Emission Factor per Compressor Seal	2.137
Emission Factor per Connector	0.00079
Emission Factor per OEL	0.06045
Emission Factor per Pressure Relief Valve	0.03346
Emission Factor per Valve	0.00468
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Count Compressor Seals	17
Count Connectors	879
Count OEL	5.000
Count Pressure Relief Valves	8.000
Count Valves	251
Emission Factor per Compressor Seal	2.137
Emission Factor per Connector	0.00079
Emission Factor per OEL	0.06045
Emission Factor per Pressure Relief Valve	0.03346
Emission Factor per Valve	0.00468
Operating Hours	8,760

Potential Emissions in Lb/Hour

Chemical	Lb.
Methane	37.60
VOC	1.16

Potential Emissions in Ton/Year

TPY	Control
164.71	0.00%
5.09	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: A02

Unit Name: PIPELINE LIQUIDS TANK, Sub Unit: PIPELINE LIQUIDS TANK_A02 **Agency ID:** A02

Description: PIPELINE LIQUIDS, HORIZONTAL, ABOVE GROUND

Manufacturer: (N/R) **Rating:** 6000 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Overall tank paint solar absorptance	0.54000
Tank diameter	8.000
Maximum liquid height in tank	16
Tank shell height	16
Working loss product factor	1.000
Length of tank	16
Atmospheric pressure	15
Monthly net throughput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Overall tank paint solar absorptance	0.54000
Tank diameter	8.000
Maximum liquid height in tank	16
Tank shell height	16
Working loss product factor	1.000
Length of tank	16
Atmospheric pressure	15
Monthly net throughput	6,000

Chemical	Potential Emissions in Lb/Hour: EPA Tanks Equations Procedures Lb.	Potential Emissions in Ton/Year: EPA Tanks Equations Procedures TPY	Control
Pipeline Liquid (vp 0.5)	3.79	0.06	0.00%

Emission Point: A04

Unit Name: PIPELINE LIQUIDS TANK, Sub Unit: PIPELINE LIQUIDS TANK_A04 **Agency ID:** A04

Description: PIPELINE LIQUIDS, HORIZONTAL, ABOVE GROUND

Manufacturer: (N/R) **Rating:** 6000 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Overall tank paint solar absorptance	0.54000
Tank diameter	8.000
Maximum liquid height in tank	16
Tank shell height	16
Working loss product factor	1.000
Length of tank	16
Atmospheric pressure	15
Monthly net throughput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Overall tank paint solar absorptance	0.54000
Tank diameter	8.000
Maximum liquid height in tank	16
Tank shell height	16
Working loss product factor	1.000
Length of tank	16
Atmospheric pressure	15
Monthly net throughput	6,000

Chemical	Potential Emissions in Lb/Hour: EPA Tanks Equations Procedures Lb.	Potential Emissions in Ton/Year: EPA Tanks Equations Procedures TPY	Control
Pipeline Liquid (vp 0.5)	3.79	0.06	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: B02

Unit Name: LUBE OIL TANK, Sub Unit: LUBE OIL TANK_B02 **Agency ID:** B02

Description: OIL, LUBRICATING, HORIZONTAL, BELOW GROUND

Manufacturer: (N/R) **Rating:** 2865 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	1.000
Tank Thruput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	8,760
Tank Thruput	16,000

Potential Emissions in Lb/Hour		Potential Emissions in Ton/Year	
Chemical	**Lb.**	**TPY**	**Control**
Oils, Misc: Lubricating	0.0	0.0	0.00%

Emission Point: B03

Unit Name: LUBE OIL TANK, Sub Unit: LUBE OIL TANK_B03 **Agency ID:** B03

Description: OIL, LUBRICATING, HORIZONTAL, BELOW GROUND

Manufacturer: (N/R) **Rating:** 2865 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	1.000
Tank Thruput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	8,760
Tank Thruput	16,000

Potential Emissions in Lb/Hour		Potential Emissions in Ton/Year	
Chemical	**Lb.**	**TPY**	**Control**
Oils, Misc: Lubricating	0.0	0.0	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: B04

Unit Name: LUBE OIL TANK, Sub Unit: LUBE OIL TANK_B04 **Agency ID:** B04

Description: OIL, LUBRICATING, HORIZONTAL, BELOW GROUND

Manufacturer: COMPANY FABRICATED (N/R) **Rating:** 2865 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	1.000
Tank Thruput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	8,760
Tank Thruput	16,000

Chemical	Potential Emissions in Lb/Hour Lb.	Potential Emissions in Ton/Year TPY	Control
Oils, Misc: Lubricating	0.0	0.0	0.00%

Emission Point: B05

Unit Name: USED OIL TANK, Sub Unit: USED OIL TANK_B05 **Agency ID:** B05

Description: OILS, USED, HORIZONTAL, BELOW GROUND

Manufacturer: (N/R) **Rating:** 2255 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank diameter	4.000
Working loss product factor	1.000
Length of tank	24
Monthly net throughput	2,255

Unit Potential Production Basis for Year

Parameter	Value
Tank diameter	4.000
Working loss product factor	1.000
Length of tank	24
Monthly net throughput	15,000

Chemical	Potential Emissions in Lb/Hour EPA Tanks Equations Procedures Lb.	Potential Emissions in Ton/Year EPA Tanks Equations Procedures TPY	Control
Oils, Misc: Lubricating	0.0000	0.0000	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: B06

Unit Name: WATER TANK, Sub Unit: WATER TANK_B06 **Agency ID:** B06

Description: WASTEWATER, HORIZONTAL, BELOW GROUND

Manufacturer: (N/R) **Rating:** 10000 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank diameter	8.000
Working loss product factor	1.000
Length of tank	26
Monthly net throughput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank diameter	8.000
Working loss product factor	1.000
Length of tank	26
Monthly net throughput	260,000

Chemical	Potential Emissions in Lb/Hour: EPA Tanks Equations Procedures Lb.	Potential Emissions in Ton/Year: EPA Tanks Equations Procedures TPY	Control
Oils, Misc: Lubricating	0.0000	0.0000	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: C02

Unit Name: GLYCOL TANK, Sub Unit: GLYCOL TANK_C01 **Agency ID:** C01

Description: GLYCOL TANK, ABOVEGROUND

Manufacturer: (N/R) **Rating:** 2865 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	1.000
Tank Thruput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	8,760
Tank Thruput	16,000

Chemical	Potential Emissions in Lb/Hour Lb.	Potential Emissions in Ton/Year TPY	Control
Oils, Misc: Lubricating	0.0	0.0	0.00%

Unit Name: GLYCOL/WATER MIXTURE TANK, Sub Unit: GLYCOL/WATER MIXTURE TANK_C02 **Agency ID:** C02

Description: GLYCOL/WATER MIXTURE TANK, ABOVEGROUND

Manufacturer: (N/R) **Rating:** 2865 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	1.000
Tank Thruput	3,000

Unit Potential Production Basis for Year

Parameter	Value
Tank Diameter	4.000
Tank Shell Height	32
Operating Hours	8,760
Tank Thruput	16,000

Chemical	Potential Emissions in Lb/Hour Lb.	Potential Emissions in Ton/Year TPY	Control
Oils, Misc: Lubricating	0.0	0.0	0.00%

Potential Emissions Detail for GLENVILLE 4C1170

Potentials Established on: January 1, 2010 | Report Generated on: February 15, 2011

Area: 09 **State:** West Virginia

Equipment Category: TANK

Emission Point: FL1

Unit Name: MERCAPTAN TANK, Sub Unit: MERCAPTAN TANK_A05 **Agency ID:** A05

Description: MERCAPTAN ODORANT, HORIZONTAL, ABOVE GROUND

Manufacturer: (N/R) **Rating:** 300 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Operating Hours	200

Chemical	Potential Emissions in Lb/Hour: Emission Rate Reference	Lb.	Potential Emissions in Ton/Year: Emission Rate Reference	TPY	Control
Methanethiol	7.7 E+00 lb/hr Throughput filling loss at 12 psig	7.55	7.7 E+00 lb/hr Throughput filling loss at 12 psig	0.75	2.00%
Sulfur Dioxide	0.0 E+00 lb/hr Sulfur Dioxide mercaptan combustion	0.0	0.0 E+00 lb/hr Sulfur Dioxide mercaptan combustion	0.0	0.00%

Unit Name: MERCAPTAN TANK, Sub Unit: MERCAPTAN TANK_B01 **Agency ID:** B01

Description: MERCAPTAN ODORANT, HORIZONTAL, BELOW GROUND

Manufacturer: (N/R) **Rating:** 5500 gallon **SCC:** 40301099, **Regulatory Status:** INSIGNIFICANT

Unit Potential Production Basis for Hours

Parameter	Value
Operating Hours	1.000

Unit Potential Production Basis for Year

Parameter	Value
Operating Hours	200

Chemical	Potential Emissions in Lb/Hour: Emission Rate Reference	Lb.	Potential Emissions in Ton/Year: Emission Rate Reference	TPY	Control
Methanethiol	8.467 E+01 lb/hr Throughput filling loss at 12 psig	82.98	8.467 E+01 lb/hr Throughput filling loss at 12 psig	8.30	2.00%
Sulfur Dioxide	0.0 E+00 lb/hr SO2 combustion products from mercaptan	0.0	0.0 E+00 lb/hr SO2 combustion products from mercaptan	0.0	0.00%