

**Material Throughput**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Combustion Units**

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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**MATERIAL DETAIL**

<b>FIN</b> <sup>5</sup>	<b>Fuel/Waste Name</b> <sup>6</sup>	<b>Quantity</b> <sup>7</sup>	<b>Units</b> <sup>8</sup>	<b>Heat Value</b> <sup>9</sup>	<b>% Ash</b> <sup>10</sup>	<b>% Sulfur</b> <sup>11</sup>	<b>Usage Start Date</b> <sup>12</sup>	<b>Usage End Date</b> <sup>13</sup>
GASBOILER	Natural Gas	3,426,610	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
	Fuel Oil Number 5	19,824	Gallons	141,582 Btu/gal	0	0.130	1/1/11	2/3/11
	Fuel Oil Number 5	29,736	Gallons	141,582 Btu/gal	0	0.130	11/17/11	12/31/11
COALBOILER	Coal	2,716,581	Tons	8415 Btu/lb	5.36	0.39	1/1/11	12/31/11
	Oil	673.55	Mgallons	140,117 Btu/gal	0	0.06	1/1/11	12/31/11
LIGBOILER	Lignite	2,340,260	Tons	1.327E+7 Btu/ton	15.4	0.7455	1/1/11	12/31/11
	Natural Gas	195.85	MMscf	1028 Btu/scf	0	0.0006	1/1/11	12/31/11
ENGINE1	Natural Gas	84.239	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
RBLR1	Natural Gas	38.840	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
FLARE1	Methane	23.785	MMscf	1012 Btu/scf	0	0.0006	1/1/11	12/31/11

## ***INSTRUCTIONS: Material Throughput for Combustion Units Form***

Use the **Material Throughput for Combustion Units** form to report fuel usage at all FINs that are combustion units. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each combustion unit where fuel usage is being reported.
6. **Fuel/Waste Name:** The type of fuel or waste burned.
7. **Quantity:** The quantity of fuel or waste burned.
8. **Units:** Specify the units for the quantity of fuel or waste burned.
9. **Heat Value:** The lower heating value of the fuel or waste burned, in British thermal units.
10. **% Ash:** For solid fuels, the concentration of ash produced by the fuel, as a percentage of total weight.
11. **% Sulfur:** Express the concentration of sulfur in the fuel, as a percentage of total weight.
12. **Usage Start Date:** The date when burning the fuel or waste began.
13. **Usage End Date:** The date when burning the fuel or waste stopped.

**Material Throughput**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Storage and Loading Facilities**

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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MATERIAL DETAIL								
FIN <sup>5</sup>	Material Name <sup>6</sup>	Vapor Molecular Weight <sup>7</sup> (pounds/pound-mole)	Density <sup>8</sup> (pounds/gallon)	Monthly Throughput <sup>9</sup> (thousand gallons)	Total Vapor Pressure <sup>10</sup> (psia)	Average Annual Temperature <sup>11</sup> (degrees Fahrenheit)	Usage Start Date <sup>12</sup>	Usage End Date <sup>13</sup>
OILTANK213	Distillate Oil No 2	130.00	0.0002	536.64	0.0089	67.9125	1/1/11	12/31/11
TRUCKLOAD	Gasoline (RVP 6)	69	5.6	128.9733	4.3783	81.579	1/1/11	12/31/11
	Gasoline (RVP 7)	68	5.6	86.9786	5.2	81.579	1/1/11	12/31/11
	Gasoline (RVP 13)	62	5.6	79.8671	9.9	81.579	3/5/11	5/5/11
TANK108016	Acetone	58.08	6.628	70.1715	3.713	67.9125	1/1/11	8/17/11
	Ethyl Acrylate	100.11	7.75	53.8796	0.599	67.9125	8/27/11	12/31/11
ACETANK	Acetone	58.08	6.628	30.25	3.713	67.9125	1/1/11	6/30/11
	Acetone	58.08	6.628	70.1715	3.713	67.9125	7/1/11	8/15/11
	Acetone	58.08	6.628	30.25	3.713	67.9125	8/16/11	12/31/11

## ***INSTRUCTIONS: Material Throughput for Storage and Loading Facilities Form***

Use a **Material Throughput for Storage and Loading Facilities** form to report material usage at all FINs that are storage or loading facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each storage or loading facility where material throughput is being reported.
6. **Material Name:** The material being stored or loaded.
7. **Vapor Molecular Weight:** The material’s vapor molecular weight, in pounds per pound-mole.
8. **Density:** Specify the material’s density, in pounds per gallon.
9. **Monthly Throughput:** Report the material’s monthly throughput, in thousands of gallons. For operations experiencing seasonal variations or peak months, either average the annual throughput over 12 months or report the seasonal usage on separate lines. See ACETANK on the sample form as an example.
10. **Total Vapor Pressure:** The liquid’s true vapor pressure at the average annual storage/loading temperature, in pounds per square inch absolute.
11. **Average Annual Temperature:** The material’s average annual temperature, in degrees Fahrenheit.
12. **Usage Start Date:** The date when storing or loading the material began.
13. **Usage End Date:** The date when storing or loading the material stopped.

**Material Throughput**  
TCEQ Emissions Inventory Year 11

**SAMPLE FORM**

**Printing, Painting, and  
Degreasing Facilities**

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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MATERIAL DETAIL								
FIN <sup>5</sup>	Material Name <sup>6</sup>	Quantity <sup>7</sup>	Units <sup>8</sup>	Density <sup>9</sup> (pounds/gallon)	% Weight of Solvents <sup>10</sup>	% Weight of Solids <sup>11</sup>	Usage Start Date <sup>12</sup>	Usage End Date <sup>13</sup>
PAINTBTH16	Basecoat	676.38	Gallons	11.78	5.62	56.59	1/1/11	12/31/11
	Glaze	2030.39	Gallons	9.23	11.02	30.53	1/1/11	12/31/11
	Texture	197.81	Gallons	15.45	2.24	94.13	1/1/11	12/31/11
	Topcoat	46.08	Gallons	8.51	8.84	33.09	1/1/11	12/31/11
PRINTSTA3C	Ink	753.1	Gallons	7.84	13.94	38.73	1/1/11	12/31/11
SOLV2	Solvent	1346.91	Gallons	0.94	100	0	1/1/11	12/31/11

## ***INSTRUCTIONS: Material Throughput for Printing, Painting, and Degreasing Facilities Form***

Use a **Material Throughput for Printing, Painting, and Degreasing Facilities** form to report material usage at all FINs that are printing, surface coating or degreasing facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each printing, painting, or degreasing facility where material usage is being reported.
6. **Material Name:** The material used.
7. **Quantity:** Report the quantity of material used.
8. **Units:** Specify the units for the quantity of material used.
9. **Density:** The material's density, in pounds per gallon.
10. **% Weight of Solvents:** Express the concentration of solvents in the material, as a percentage of total weight.
11. **% Weight of Solids:** The concentration of solids in the material, as a percentage of total weight.
12. **Usage Start Date:** The date when material usage began.
13. **Usage End Date:** The date when material usage ended.

# SAMPLE FORM

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MATERIAL DETAIL				
FIN <sup>5</sup>	Material Name <sup>6</sup>	Contaminant Code <sup>7</sup>	Inlet Concentration <sup>8</sup> (ppm)	Outlet Concentration <sup>9</sup> (ppm)
POND1	Toluene	52490	6.50	2.10
	Xylene	52510	8.59	4.18
	Benzene	52420	2.10	0.18
	Hexane	56660	1.20	0.006
	Crude Oil	59001	4.90	4.0
	Maleic Acid	51200	3.18	1.01
	Paraffins	59330	0.25	0.18
	Ethyl Benzene	52450	0.98	0.63
	VOC mixture	50001	18.0	12.03
	Butadiene	55150	0.76	0.021

## ***INSTRUCTIONS: Material Throughput for Wastewater Facilities Form***

Use a **Material Throughput for Wastewater Facilities** form to report chemical usage or throughput at all FINs that are wastewater facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each wastewater facility where material throughput is being reported.
6. **Material Name:** The material being treated.
7. **Contaminant Code:** The material's contaminant code. A list of contaminant codes is available in Appendix I.
8. **Inlet Concentration:** Specify the influent material's concentration, in parts per million. This is the material entering the wastewater facility.
9. **Outlet Concentration:** The effluent material's concentration, in parts per million. This is the material leaving the wastewater facility after treatment.



## ***INSTRUCTIONS: Material Throughput for Oil Field Storage Tanks Form***

Use a **Material Throughput for Oil Field Storage Tanks** form to report the material throughput at all FINs that are oilfield storage tanks. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each oilfield storage tank where material throughput is being reported.
6. **Product Stored:** Characterize whether the stored material is oil or condensate. Condensate is a liquid hydrocarbon with an API gravity greater than 40° API at 60°F (and a specific gravity less than 0.8251).
7. **Stock-Tank API Gravity:** The liquid’s API gravity, in degrees API. The API gravity is the weight per unit volume of hydrocarbon liquids as measured by a system recommended by the American Petroleum Institute (API):
$$API\ gravity = \frac{141.5}{Specific\ Gravity} \times 131.5$$
8. **Last Stage Separator Pressure:** Indicate the pressure of the separator, in pounds per square inch gauge. This is the pressure of the final separator before the storage tank.
9. **Annual Throughput:** Report the material’s annual throughput, in barrels of product per year.
10. **VOC Fraction of Stock-Tank Gas:** The weight fraction of VOC in the gas, as a percentage.
11. **Gas/Oil Ratio (GOR):** Calculate the gas/oil ratio of the hydrocarbon product, in standard cubic feet of gas per barrel of oil.

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# SAMPLE FORM

**Feed and Product Operations**

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

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	FEED DATA			PRODUCT DATA		
FIN <sup>5</sup>	Feed Name <sup>6</sup>	Quantity <sup>7</sup>	Units <sup>8</sup>	Product Name <sup>9</sup>	Quantity <sup>10</sup>	Units <sup>11</sup>
MOLD1	Blue #031 Resin (34% by weight styrene)	15,933	Pounds			
MOLD1	Red #145 Resin (37% by weight styrene)	67,840	Pounds			
GELCOAT1	Blue #997 Gelcoat (32% by weight styrene, 8% by weight methyl methacrylate)	25,243	Pounds			
GELCOAT1	Red #890 Gelcoat (41% by weight styrene, 11% by weight methyl methacrylate)	89,570	Pounds			

## ***INSTRUCTIONS: Material Throughput for Feed and Product Operations Form***

Use a **Material Throughput for Feed and Product Operations** form to report material usage at all FINs that are not combustion units; oilfield storage tanks; printing, painting, or degreasing facilities; storage or loading facilities; or wastewater facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
5. **FIN:** Indicate the FIN for each feed or product operation where material throughput is being reported.
6. **Feed Name:** The material used.
7. **Quantity:** Report the quantity of material used.
8. **Units:** Specify the units for the quantity of material used.
9. **Product Name:** The material produced.
10. **Quantity:** The quantity of material produced.
11. **Units:** Designate the units for the material produced.