

**Registration of Operational Change
TCEQ PBR 106.262, "Facilities (Emission and Distance Limitations)"**

**BULK FUEL TRUCK UNLOADING FACILITY
at the BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas**

**Delek Marketing-Big Sandy, LLC
7102 Commerce Way
Brentwood, TN 37027**

Prepared For:

Texas Commission on Environmental Quality
Attention: Air Permits Review Team
MC 161, P.O. Box 13087
Austin, TX 78711-3087
(512) 239-1200

Prepared By:

Delek Logistics Operating, LLC

Phone: (870) 310-9078

**Jerry Froidl, P.E.
Environmental Specialist**

December 7, 2016

**Texas Commission on Environmental Quality
Registration for Permits by Rule (PBR)
Form PI-7
(Page 1)**

I. Registrant Information		
A. Company or Other Legal Customer Name:		
Delek Marketing - Big Sandy LLC		
B. Company Official Contact Information (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other:)		
Name: Jerry Froidl		
Title: Environmental Specialist		
Mailing Address: 1001 School Street		
City: El Dorado	State: AR	ZIP Code: 71730
Phone: 870-310-9078	Fax: N/A	
E-mail Address: gerald.froidl@deleklogistics.com		
<i>All PBR registration responses will be sent via e-mail unless a hard copy is specifically requested. The company official must initial here if hard copy is requested.</i> _____		
C. Technical Contact Information (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other:)		
Name: Jerry Froidl		
Title: Environmental Specialist		
Company Name: Delek Logistics Operating, LLC		
Mailing Address: 1001 School Street		
City: El Dorado	State: AR	ZIP Code: 71730
Phone: 870-310-9078	Fax: N/A	
E-mail: gerald.froidl@deleklogistics.com		
II. Facility and Site Information		
A. Name and Type of Facility		
Facility Name: Bulk Fuel Truck Unloading Facility		
Type of Facility: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		
For portable units, please provide the serial number of the equipment being authorized below.		
Serial No:	Serial No:	

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II. Facility and Site Information (continued)		
B. Facility Location Information		
Street Address: 2867 County Road 2168		
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).		
City: Caddo Mills	County: Hunt	ZIP Code: 75135
C. TCEQ Core Data Form		
Is the Core Data Form (TCEQ Form Number 10400) attached?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "NO," provide customer reference number (CN) and regulated entity number (RN) below.		
Customer Reference Number (CN): 604084517		
Regulated Entity Number (RN): 100747872		
D. TCEQ Account Identification Number (if known): HV0074Q		
E. PBR number(s) claimed under 30 TAC Chapter 106		
(List all the individual rule number(s) that are being claimed.)		
106. 262	106.	
106.	106.	
106.	106.	
F. Historical Standard Exemption or PBR		
Are you claiming a historical standard exemption or PBR?		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "YES," enter rule number(s) and associated effective date in the spaces provided below.		
Rule Number(s)	Effective Date	

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II. Facility and Site Information (continued)	
G. Previous Standard Exemption or PBR Registration Number	
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "YES," enter previous standard exemption number(s) and PBR registration number(s), and associated effective date in the spaces provided below.	
Standard Exemption and PBR Registration Number(s)	Effective Date
H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s)	Effective Date
56247	September 10, 2003
I. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "YES," enter permit number(s) in the spaces provided below.	
J. Affected Air Preconstruction Permits	
Does the PBR being claimed directly affect any permitted facility?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "YES," enter the permit number(s) in the spaces provided below.	

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II. Facility and Site Information (continued)	
K. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)	
Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> To Be Determined
If the site currently has an existing FOP, enter the permit number: _____	
1. Check the requirements of 30 TAC Chapter 122 that will be triggered if this claim is accepted (<i>check all that apply</i>).	
<input type="checkbox"/> Initial Application for an FOP <input type="checkbox"/> Significant Revision for an SOP <input type="checkbox"/> Minor Revision for an SOP <input type="checkbox"/> Operational Flexibility/Off Permit Notification for an SOP <input type="checkbox"/> Revision for a GOP <input type="checkbox"/> To be Determined <input type="checkbox"/> None	
2. Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. (<i>check all that apply</i>)	
<input type="checkbox"/> SOP <input type="checkbox"/> GOP <input type="checkbox"/> GOP application/revision (submitted or under APD review) <input type="checkbox"/> N/A <input type="checkbox"/> SOP application/revision (submitted or under APD review)	
III. Fee Information (<i>see Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online</i>)	
A. Fee Requirements	
Is a fee required per 30 TAC § 106.50?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "NO," specify the exception (<i>check all that apply</i>)	
1. Registration is solely to establish a federally enforceable emission limit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. Registration is within six months of an initial PBR review, and is addressing deficiencies, administrative changes, or other allowed changes.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. Registration is for a remediation project (30 TAC § 106.533).	<input type="checkbox"/> YES <input type="checkbox"/> NO
B. Fee Amount	
1. A \$100 fee is required if <i>any</i> of the answers in III.B.1 are "YES."	
This business has less than 100 employees.	<input type="checkbox"/> YES <input type="checkbox"/> NO
This business has less than 6 million dollars in annual gross receipts.	<input type="checkbox"/> YES <input type="checkbox"/> NO
This registration is submitted by a governmental entity with a population of less than 10,000.	<input type="checkbox"/> YES <input type="checkbox"/> NO
This registration is submitted by a non-profit organization.	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. A \$450 fee is required for all other registrations.	

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III. Fee Information (see Section VII. for address to send fee or go to www.tceq.texas.gov/epay to pay online) (continued)		
C. Payment Information		
Check/money order/transaction or voucher number:		
Individual or company name on check:		
Fee Amount: \$ 450		
Was fee paid online?		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
IV. Selected Facility Reviews and Voluntary Registrations Only		
<i>Note: If registering any of the PBRs listed in IV.B., or if voluntarily registering any other PBR(s), complete this section, then skip to Section VI. below:</i>		
A. List any PBRs that are being voluntarily registered.		
106.	106.	106.
106.	106.	106.
B. PBR Checklists		
If you are registering any of the following PBRs, did you attach the applicable PBR checklists that shows your facility meets all general and specific requirements? <ul style="list-style-type: none"> • <i>Animal Feeding Operations § 106.161, Livestock Auction Facilities § 106.162, Saw Mills § 106.223, Grain Handling, Storage and Drying § 106.283, Auto Body Refinishing Facilities § 106.436, or Air Curtain Incinerator § 106.496</i> (If "NO" then you must provide all technical information outlined in Section V.)		<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Distances to Property Line and Nearest Off-Property Structure		
Distance from this facility's emission release point to the nearest property line:		feet
Distance from this facility's emission release point to the nearest off-property structure:		feet

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V. Technical Information Including State and Federal Regulatory Requirements		
Place a check next to the appropriate box to indicate what is included in your submittal.		
<i>NOTE: Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.</i>		
A. PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)		
Did you demonstrate that the general requirements in 30 TAC § 106.4 are met?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Did you demonstrate that the individual requirements of the specific PBR are met?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
B. Confidential Information (All pages properly marked "CONFIDENTIAL")	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
C. Process Flow Diagram	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D. Process Description	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
E. Maximum Emissions Data and Calculations	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
<i>Note: If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under 30 TAC Chapter 101, Subchapter H, Division 3, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.</i>		
F. Distance from Property Line and Nearest Off-Property Structure		
Distance from this facility's emission release point to the nearest property line:	136	feet
Distance from this facility's emission release point to the nearest off-property structure:	1500	feet
G. Project Status		
Has the company implemented the project or waiting on a response from TCEQ?	<input checked="" type="checkbox"/> Implemented <input type="checkbox"/> Waiting	
H. Projected Start of Construction and Projected Start of Operation Dates		
Projected Start of Construction (provide date): N/A		
Project Start of Operation (provide date): December 1, 2016		
VI. Delinquent Fees and Penalties		
This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at www.tceq.texas.gov/agency/delin/index.html .		

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VII. Copies of the Registration		
Processing delays may occur if copies are not sent as noted. Copies must be sent as listed below:		
Who	Where	What
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC 161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals of Form PI-7, Core Data Form, and all attachments. Not required if using ePermits ¹
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7, and Core Data Form. Not required if fee was paid using ePay ² .
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ Web site at www.tceq.texas.gov/publications/gi/gi-002.html or call (512) 239-1250.	Copy of Form PI-7, Core Data Form, and all attachments. Not required if using ePermits ¹ .
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at www.tceq.texas.gov/permitting/air/local_programs.html or call (512) 239-1250	Copy of Form PI-7, Core Data Form, and all attachments

Reset Form

¹ ePermits located at www3.tceq.texas.gov/steers/

² ePay located at www.tceq.texas.gov/epay/



**Texas Commission on Environmental Quality
Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106.4**

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division Web site at: www.tceq.texas.gov/permitting/air/nav/air_pbr.html.

1. 30 TAC § 106.4(a)(1) and (4): Emission limits	
List emissions in tpy for each facility (add additional pages or table if needed):	
• Are the SO ₂ , PM ₁₀ , VOC, or other air contaminant emissions claimed for each facility in this PBR submittal less than 25 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
• Are the NO _x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a PBR cannot be claimed.</i>	
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," skip to Section 2. If "No," continue to the questions below.</i>	
If the site has had no public notice, please answer the following:	
• Are the SO ₂ , PM ₁₀ , VOC, or other emissions claimed for all facilities in this PBR submittal less than 25 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
• Are the NO _x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both questions is "Yes," continue to Section 2.</i>	
<i>If the answer to either question is "No," a PBR cannot be claimed. A permit will be required under Chapter 116.</i>	

**Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106**

2. 30 TAC § 106.4(a)(2): Nonattainment check	
§ Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," please indicate which county by checking the appropriate box to the right.</i>	
(Marginal) - Hardin, Jefferson, and Orange counties:	<input type="checkbox"/> BPA
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	<input type="checkbox"/> HGA
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties	<input type="checkbox"/> DFW
<i>If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.</i>	
• Does this project trigger a nonattainment review?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Does this project trigger a nonattainment review?	
• Is the project's potential to emit (PTE) for emissions of VOC or NO _x increasing by 100 tpy or more? <i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
• Is the site an existing major nonattainment site and are the emissions of VOC or NO _x increasing by 40 tpy or more?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If needed, attach contemporaneous netting calculations per nonattainment guidance.</i>	
Additional information can be found at: www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html and www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcereview.html	
<i>If "Yes," to any of the above, the project is a major source or a major modification and a PBR may not be used. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.</i>	
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
Does this project trigger a review under PSD rules?	
To determine the answer, review the information below:	
• Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
• Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
• Are emissions increasing above significance levels at an existing major site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PSD information can be found at: www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf and www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcereview.html	
<i>If "Yes," to any of the above, a PBR may not be used. A PSD Permit review must be completed to authorize the project. If "No," continue to Section 4.</i>	

**Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106**

4. 30 TAC § 106.4(a)(6): Federal Requirements	
§ Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
• Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
• Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
<i>If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.</i>	
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
• Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.</i>	
<i>List permit number(s):</i>	
6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade	
• Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," answer the question below. If "No," continue to Section 7.</i>	
• Will the proposed facility or group of facilities obtain required allowances for NO _x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	<input type="checkbox"/> YES <input type="checkbox"/> NO

**Permit by Rule Applicability Checklist
Title 30 Texas Administrative Code § 106**

7. Highly Reactive Volatile Organic Compounds (HRVOC) check		
• Is the facility located in Harris County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," skip to the box below.</i>		
• Will the project be constructed after June 1, 2006?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," skip to the box below.</i>		
• Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," complete the information below:</i>		
	lb/hr	tpy
▶ 1,3-butadiene		
▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
▶ alpha-butylene (ethylethylene)		
▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
▶ ethylene		
▶ propylene		
• Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
• Will the project be constructed after June 1, 2006?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
• Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," complete the information below:</i>		
	lb/hr	tpy
▶ ethylene		
▶ propylene		

Save Form

Reset Form

**Title 30 Texas Administrative Code § 106.262
Permit by Rule (PBR) Checklist
Facilities (Emission and Distance Limitations)**

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.262 (30 TAC § 106.262) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at, www.tceq.state.tx.us/nav/permits/air_permits.html.

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: www.TexasEnviroHelp.org

Check the Most Appropriate Answer:						
Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
b1. Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A
b2. Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard perm? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A
c. Is the facility authorized under another section of this chapter or under a standard permit? <i>If "YES," subsection (a)(2) and (3) of this section may be used to qualify the use of other chemicals at the facility.</i>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A
a1. Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
a2. Are new or increased emissions, including fugitives, emitted in a quantity less than five tons per year or in a quantity less than E as determined by using the equation E=L/K? See Table 262 Figures 1 and 2. <i>If "YES," the notification shall include a description of the project, calculations for all emissions being claimed under this PBR:</i>	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
Chemical: Gasoline	L value: 300	D: 1500	K: 24			
a3. Is this checklist attached to a Form PI-7 within ten days following the installation or modification of the facilities? <i>If "YES," the notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, and a description of pollution control equipment, if any..</i>	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
a4. Are one or more of the following chemicals is handled for this registration? (Check all that apply) <i>If "YES," answer the following four questions.</i>	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	N/A
<input type="checkbox"/> acrolein	<input type="checkbox"/> diazomethane	<input type="checkbox"/> hydrogen sulfide	<input type="checkbox"/> ozone			
<input type="checkbox"/> allyl chloride	<input type="checkbox"/> diborane	<input type="checkbox"/> ketene	<input type="checkbox"/> pentaborane			
<input type="checkbox"/> ammonia (anhydrous)	<input type="checkbox"/> diglycidyl ether	<input type="checkbox"/> methylamine	<input type="checkbox"/> perchloromethyl mercaptan			
<input type="checkbox"/> arsine	<input type="checkbox"/> dimethylhydrazine	<input type="checkbox"/> methyl bromide	<input type="checkbox"/> perchloryl fluoride			
<input type="checkbox"/> boron trifluoride	<input type="checkbox"/> ethyleneimine	<input type="checkbox"/> methyl hydrazine	<input type="checkbox"/> phosgene			
<input type="checkbox"/> bromine	<input type="checkbox"/> ethyl mercaptan	<input type="checkbox"/> methyl isocyanate	<input type="checkbox"/> phosphine			
<input type="checkbox"/> carbon disulfide	<input type="checkbox"/> fluorine	<input type="checkbox"/> methyl mercaptan	<input type="checkbox"/> phosphorus trichloride			
<input type="checkbox"/> chlorine	<input type="checkbox"/> formaldehyde (anhydrous)	<input type="checkbox"/> nickel carbonyl	<input type="checkbox"/> selenium			
<input type="checkbox"/> chlorine dioxide	<input type="checkbox"/> hydrogen bromide	<input type="checkbox"/> nitric acid	<input type="checkbox"/> hexafluoride stibine			
<input type="checkbox"/> chlorine trifluoride	<input type="checkbox"/> hydrogen chloride	<input type="checkbox"/> nitric oxide	<input type="checkbox"/> liquefied sulfur dioxide			
<input type="checkbox"/> chloroacetaldehyde	<input type="checkbox"/> hydrogen cyanide	<input type="checkbox"/> nitrogen dioxide	<input type="checkbox"/> sulfur pentafluorid			
<input type="checkbox"/> chloropicrin	<input type="checkbox"/> hydrogen fluoride	<input type="checkbox"/> oxygen difluoride	<input type="checkbox"/> tellurium hexafluoride			
<input type="checkbox"/> chloroprene	<input type="checkbox"/> hydrogen selenide					

Title 30 Texas Administrative Code § 106.262
Permit by Rule (PBR) Checklist
Facilities (Emission and Distance Limitations)

Check the Most Appropriate Answer:		
Are all facilities are located at least 300 feet from the nearest property line and 600 feet from any off-plant receptor?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Are the cumulative amount of any of the following chemicals resulting from one or more authorizations under this section (but not including permit authorizations) less than or equal to 500 pounds on the plant property?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Are all listed chemicals handled only in unheated containers operated in compliance with the United States Department of Transportation regulation (49 Code of Federal Regulation, Parts 171-178)?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Are any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
a5. Are there any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
a6. Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

D (feet)	K	
100	326	E=maximum allowable hourly emission, and never to exceed 6 pounds per hour.
200	200	
300	139	
400	104	
600	65	
700	54	
800	46	K=value from the table on this page. (interpolate intermediate values)
900	39	
1,000	34	
2,000	14	D=distance to the nearest off-plant receptor
3,000 or more	8	

Table 262
Limit Values (L) for use with Exemptions from Permitting § 106.262

The values are not to be interpreted as acceptable health affects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for new Construction or Modification).

Compound	Limit (L) Milligrams Per Cubic Meter
Acetone	590.
Acetaldehyde	9.
Acetone	4.
Acetonitrile	34.
Acetylene	2662.
N-Amyl Acetate	2.7
Sec-Amyl Acetate	1.1
Benzene	3.
Beryllium and Compounds	0.0005
Boron Trifluoride, as HF	0.5
Butyl Alcohol,	76.
Butyl Acrylate	19.
Butyl Chromate	0.01
Butyl Glycidyl Ether	30.
Butyl Mercaptain	0.3
Butyraldehyde	1.4
Butyric Acid	1.8
Butyronitrile	22.
Carbon Tetrachloride	12.
Chloroform	10.
Chlorophenol	0.2
Chloroprene	3.6
Chromic Acid	0.01
Chromium Metal, Chromium II and III Compounds	0.1
Chromium VI Compounds	0.01
Coal Tar Pitch Volatiles	0.1
Creosote	0.1
Cresol	0.5
Cumene	50.
Dicyclopentadiene	3.1
Diethylaminoethanol	5.5
Diisobutyl Ketone	63.9

Table 262
Limit Values (L) for use with Exemptions from Permitting § 106.262

The values are not to be interpreted as acceptable health affects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for new Construction or Modification).

Compound	Limit (L) Milligrams Per Cubic Meter
Dimethyl Aniline	6.4
Dioxane	3.6
Dipropylamine	8.4
Ethyl Acrylate	0.5
Ethylene Dibromide	0.38
Ethylene Glycol	26.
Ethylene Glycol Dinitrate	0.1
Ethylidene 2-norbornene, 5	7.
Ethyl Mercaptan	0.08
Ethyl Sulfide	1.6
Glycolonitrile	5.
Halothane	16.
Heptane	350.
Hexanediamine, 1, 6	0.32
Hydrogen Chloride	1.
Hydrogen Fluoride	0.5
Hydrogen Sulfide	1.1
Isoamyl Acetate	133.
Isoamyl Alcohol	15.
Isobutyronitrile	22.
Kepone	0.001
Kerosene	100.
Malononitrile	8.
Mesityl Oxide	40.

Save Form

Reset Form

Table 262
Limit Values (L) for use with Exemptions from Permitting § 106.262

The values are not to be interpreted as acceptable health affects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for new Construction or Modification).

Compound	Limit (L) Milligrams Per Cubic Meter
Methyl Acrylate	5.8
Methyl Amyl Ketone	9.4
Methyl-T-Butyl Ether	45.
Methyl Butyl Ketone	4.
Methyl Disulfide	2.2
Methylenebis (2-chloroaniline) (MOCA)	0.003
Methylene Chloride	26.
Methyl Isoamyl Ketone	5.6
Methyl Mercaptan	0.2
Merthyl Methacrylate	34.
Methyl Propyl Ketone	530.
Methyl Sulfide	0.3
Mineral Spirits	350.
Naphtha	350.
Nickel, Inorganic Compounds	0.015
Nitroglycerine	0.1
Nitropropane	5.
Octane	350.
Parathion	0.05
Pentane	350.
Perchloroethylene	33.5
Petroleum Ether	350.
Phenyl Mercaptan	0.4
Propionitrile	14.

Table 262
Limit Values (L) for use with Exemptions from Permitting § 106.262

The values are not to be interpreted as acceptable health affects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for new Construction or Modification).

Compound	Limit (L) Milligrams Per Cubic Meter
Propyl Acetate	62.6
Propylene Oxide	20.
Propyl Mercaptan	0.23
Silica-amorphous-precipitated, silica gel	4.
Silicon Carbide	4.
Stoddard Solvent	350.
Styrene	21.
Succiononitrile	20.
Tolidin	0.02
Trichloroethylene	135.
Trinethylamine	0.1
Valeric Acid	0.34
Vinyl Acetate	15.
Vinyl Chloride	2.

Note: The time weighted average (TWA) threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide (1997 Edition) shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date: December 7, 2016	Permit No.:	Regulated Entity No.: 100747872
Area Name: Bulk Fuel Truck Unloading Facility		Customer Reference No.: 604084517

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA

1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
(A) EPN	(B) FIN	(C) Name		(A) Pound Per Hour	(B) TPY
GREENFUG	GREENFUG	Fugitive	VOC	0.0035	0.0154
GREENUNLD	GREENUNLD	Unloading	VOC	0.5919	2.5926

EPN = Emission Point Number
 FIN = Facility Identification Number

TCEQ - 10153 (Revised 04/08) Table 1(a)

This form is for use by sources subject to air quality permit requirements and may be revised periodically. (APDG 5178 v5)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date: December 7, 2016	Permit No.:	Regulated Entity No.: 100747872
Area Name: Bulk Fuel Truck Unloading Facility		Customer Reference No.: 604084517

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS								
1. Emission Point			4. UTM Coordinates of Emission Point			Source								
(A) EPN	(B) FIN	(C) NAME	Zone	East (Meters)	North (Meters)	5. Building Height (Ft.)	6. Height Above Ground (Ft.)	7. Stack Exit Data			8. Fugitives			
								(A) Diameter (Ft.)	(B) Velocity (FPS)	(C) Temperature (°F)	(A) Length (Ft.)	(B) Width (Ft.)	(C) Axis Degrees	
GREENFUG	GREENFUG	Fugitive	14	761270	3658505		8					30	20	0
GREENUNLD	GREENUNLD	Unloading	14	761270	3658505		12					2	2	0

EPN = Emission Point Number
 FIN = Facility Identification Number

Reset Form

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TCEQ - 10153 (Revised 04/08) Table 1(a)
 This form is for use by sources subject to air quality permit requirements and may be revised periodically. (APDG 5178 v5)

CALCULATIONS--PROCESS PARAMETERS

Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas

Operating Start Date: 12/1/2016

Facility: BULK FUEL TRUCK UNLOADING FACILITY

Customer Number (CN): CN604084517

Regulated Entity Number (RN): RN100747872

Current Maximum Gasoline Throughput: 14,979,600 Barrels / Year

Current Maximum Diesel Fuel Throughput: Unlimited Barrels / Year

Maximum Volume Gasoline Via Truck Unloading: 312,000 Barrels / Year

Maximum Volume Diesel Fuel Via Truck Unloading: Unlimited Barrels / Year

Maximum Tank Truck Volume: 9,200 Gallons / Truck

Typical Tank Truck Volume: 8,400 Gallons / Truck

Maximum Benzene Concentration in Fuel: 1.80%

Limit Value (L) for Gasoline: 300.0 mg/m³; Delek Unleaded Gasoline SDS

Limit Value (L) for Benzene: 0.5 mg/m³; Delek Unleaded Gasoline SDS

Limit Value (L) for Benzene: 3.0 mg/m³; 30 TAC 106.262

Distance (D): 1,500 Feet

K: 24

PROCESS DESCRIPTION

Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas

The purpose of the Bulk Fuel Truck Unloading Facility is to provide a temporary means for unloading products refined at affiliated Delek Marketing (DKL) refineries for storage in the existing tanks at the Greenville Pump Station. During the temporary operation, it will unload up to the following quantities of fuel:

- 312000 barrels of gasoline per year received via tank truck.
- Unlimited barrels of diesel fuel per year received via tank truck.

Information associated with and emissions from the Bulk Fuel Truck Unloading Facility are highlighted with a yellow background to distinguish from information related to the adjacent facility.

The Bulk Fuel Truck Unloading Facility will be located immediately adjacent to the existing DKL Greenville Pump Station that is authorized via Permit Number 56247 as Regulated Entity RN100747872. That facility is authorized for the following throughput:

- 14979600 barrels of gasoline per year throughput.
- Unlimited barrels of diesel fuel per year throughput.

Petroleum products handled at the facility include various grades of gasoline, diesel fuel, and corrosion inhibitors for associated pipeline transport operations. Currently authorized emission rates for the Bulk Fuel Truck Unloading Facility are shown in this submittal to clearly indicate total emission rates are below respective Permit By Rule limits.

REGULATORY APPLICABILITY

**Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas**

The Bulk Fuel Truck Unloading Facility qualifies for authorization via Permit By Rule (PBR) 106.262, 'Facilities (Emissions and Distance Limitations.' It is not subject to any federal New Source Performance Standards (NSPS, 40 CFR 60) or National Emissions Standards for Hazardous Air Pollutants (NESHAP).

The Bulk Fuel Truck Unloading Facility does not have any alternate operating scenarios or Maintenance, Startup and Shutdown emissions.

The DKL Greenville Pump Station is an existing facility authorized via PBR Registration 56247 for the bulk storage of petroleum products in aboveground tanks, with the receipt and delivery of products being done via pipeline.

PROCESS FLOW DIAGRAM

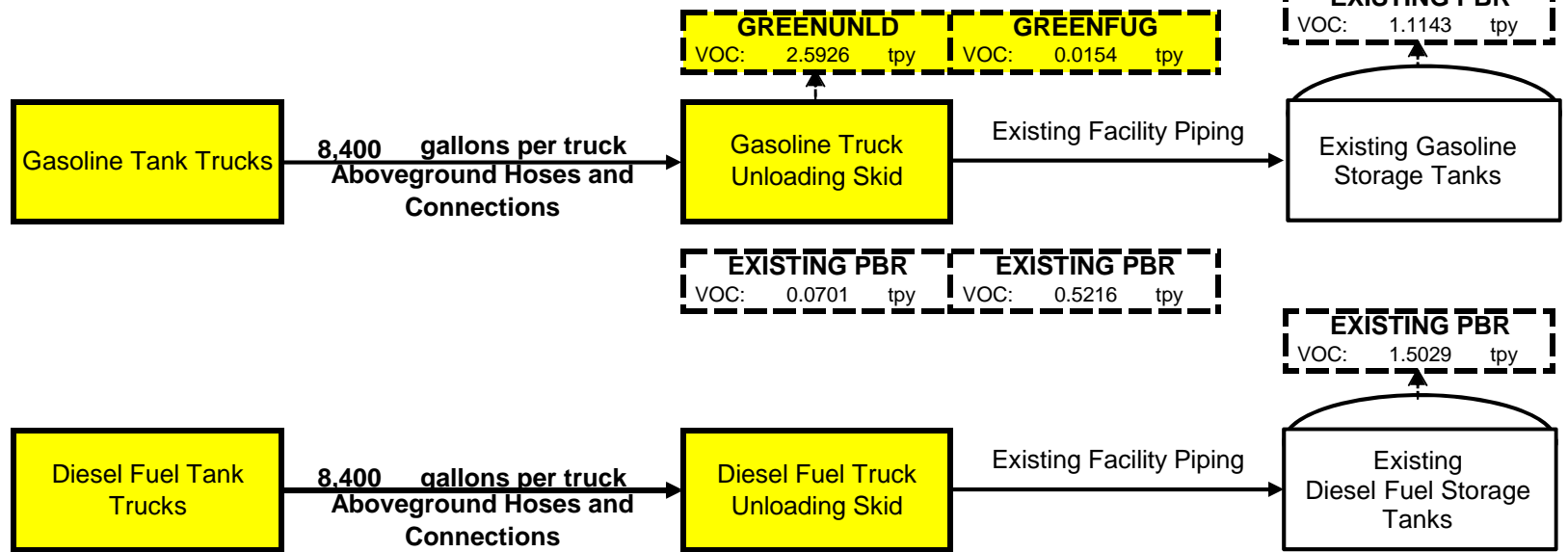
Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas

TOTAL
VOC: 24.9184 tpy
EXISTING PBR
VOC: 22.3104 tpy
NEW
VOC: 2.6080 tpy

Throughput Implemented by this Operational Change

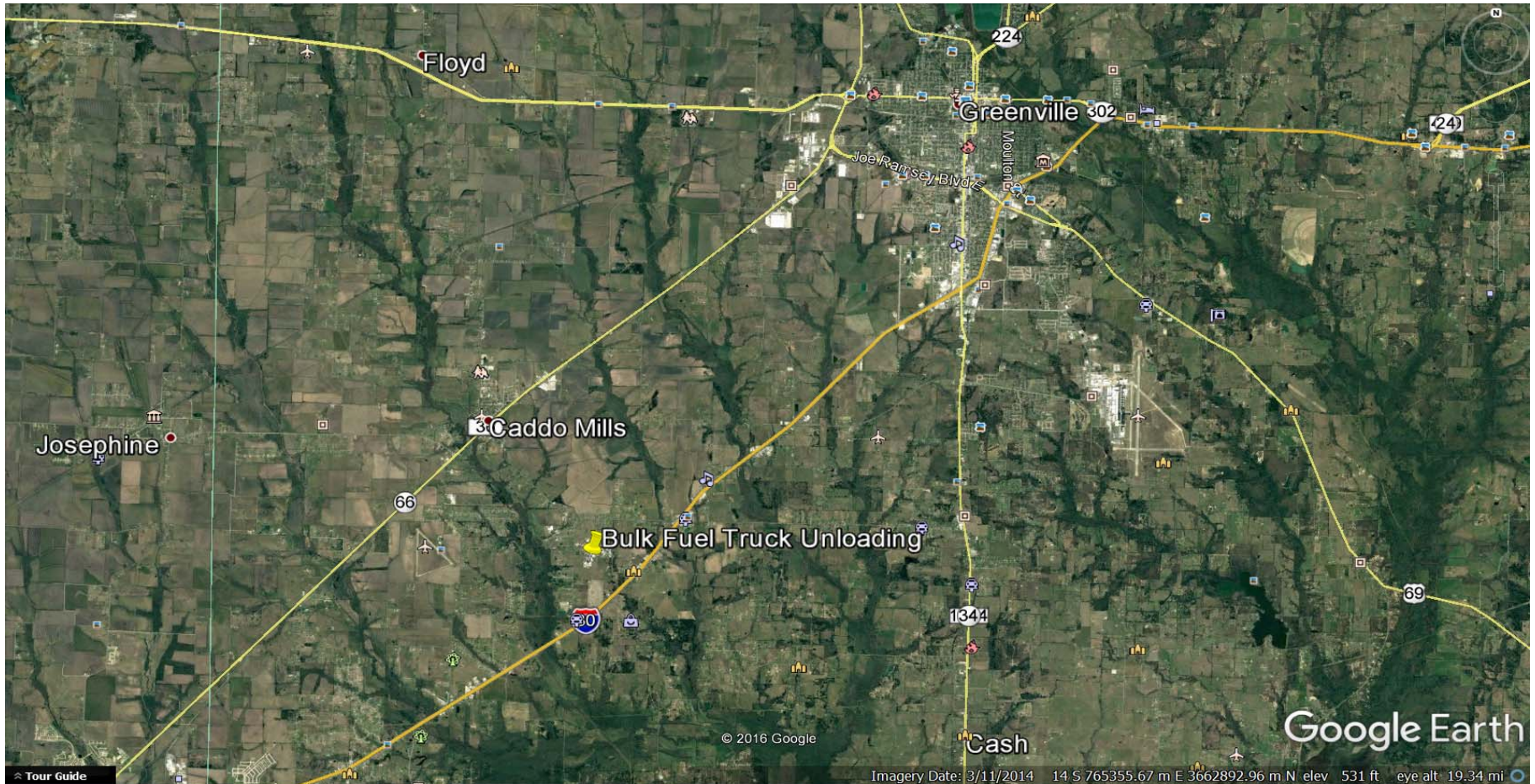
Maximum Facility Gasoline Throughput:	14,979,600 barrels per year
Maximum Facility Diesel Fuel Throughput:	Unlimited barrels per year
Maximum Gasoline Tank Truck Unloading:	312,000 barrels per year

	L	K	E (lb/hr)	New
Gasoline E = L/K =	300.0	/ 24	= 12.5000	0.5954
Benzene E = L/K =	3.0	/ 24	= 0.1250	0.0024
Benzene E = L/K =	0.5	/ 24	= 0.0208	0.0024



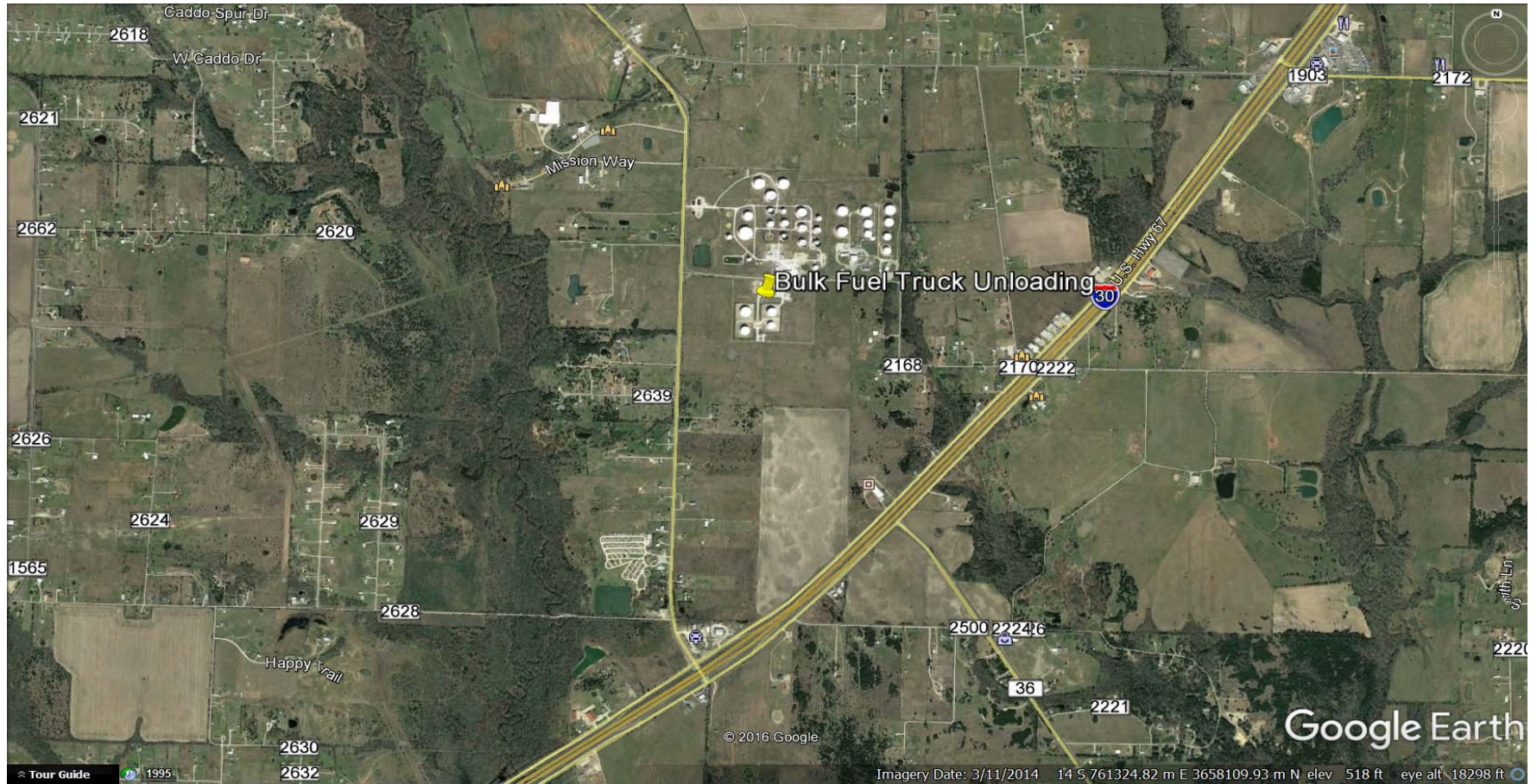
FACILITY LOCATION--RELATION TO NEAREST CITY--AREA MAP

Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas



FACILITY LOCATION--RELATION TO NEAREST ROAD--AREA MAP

Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas



CALCULATIONS--EMISSIONS SUMMARY

Delek Marketing-Big Sandy, LLC
 BULK FUEL TRUCK UNLOADING FACILITY
 Caddo Mills, Hunt, Texas

Emission Source	FIN	EPN	CIN	NO _x		CO		PM ₁₀		VOC		SO ₂	
				lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	pph	tpy
Facility Connections	EXISTING PBR	EXISTING PBR	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0160	0.0701	0.00	0.00
Meter Proving & Tank Cleaning	EXISTING PBR	EXISTING PBR	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1191	0.5216	0.00	0.00
Gasoline Storage Tanks	EXISTING PBR	EXISTING PBR	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.3611	19.1015	0.00	0.00
Diesel Fuel Storage Tanks	EXISTING PBR	EXISTING PBR	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3431	1.5029	0.00	0.00
Roof Landings/MSS	EXISTING PBR	EXISTING PBR	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2544	1.1143	0.00	0.00
Fugitives from New Piping	GREENFUG	GREENFUG	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0035	0.0154	0.00	0.00
Truck Loading During Tank Cleaning	GREENUNLD	GREENUNLD	N/A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5919	2.5926	0.00	0.00
Total:				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.6891	24.9184	0.00	0.00

CALCULATIONS--HAZARDOUS AIR POLLUTANTS EMISSIONS SUMMARY

Delek Marketing-Big Sandy, LLC
BULK FUEL TRUCK UNLOADING FACILITY
Caddo Mills, Hunt, Texas

Emission Source	FIN	EPN	Weight % CIN	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total Hexane	MTBE	Iso-Octane	Cumene	Total HAPS
				1.80%	1.40%	7.00%	7.00%	4.00%	7.00%	6.00%	0.50%	
				tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
Facility Connections	EXISTING PBR	EXISTING PBR	N/A	0.0007	0.0006	0.0026	0.0027	0.0014	0.0025	0.0021	0.0002	0.0080
Meter Proving & Tank Cleaning	EXISTING PBR	EXISTING PBR	N/A	0.0047	0.0030	0.0148	0.0143	0.0096	0.0329	0.0116	0.0010	0.0464
Gasoline Storage Tanks	EXISTING PBR	EXISTING PBR	N/A	0.1540	0.0265	0.2576	0.1209	0.2962	1.3996	0.1708	0.0028	0.8552
Diesel Fuel Storage Tanks	EXISTING PBR	EXISTING PBR	N/A	0.7501	0.0694	0.4319	0.2482	0.6080	0.0000	0.0000	0.0163	2.1076
Roof Landings/MSS	EXISTING PBR	EXISTING PBR	N/A	0.0201	0.0156	0.0780	0.0780	0.0446	0.0780	0.0669	0.0056	0.2363
Fugitives from New Piping	GREENFUG	GREENFUG	N/A	6.32E-05	4.92E-05	2.46E-04	2.46E-04	1.40E-04	2.46E-04	2.11E-04	1.76E-05	0.0007
Truck Loading During Tank Cleaning	GREENUNLD	GREENUNLD	N/A	0.0107	0.0083	0.0414	0.0414	0.0237	0.0414	0.0355	0.0030	0.1255
Total:				0.9403	0.1234	0.8266	0.5058	0.9836	1.5547	0.2871	0.0289	3.3797

$$\text{Benzene Hourly Emission Rate} = ((6.32E-05 + 0.0107) * 2000) / 8760 = 0.0024$$

CALCULATIONS--FUGITIVE EMISSIONS

Delek Marketing-Big Sandy, LLC
 BULK FUEL TRUCK UNLOADING FACILITY
 Caddo Mills, Hunt, Texas

FACILITY WIDE EQUIPMENT FUGITIVE EMISSIONS					
SOURCE	NUMBER	FACTOR (LB/HR)	EMISSIONS (LB/HR)	EMISSIONS (LB/YR)	EMISSIONS (TPY)
VALVES	16	0.000095	0.0015	13.32	0.0067
CONNECTIONS	44	0.000018	0.0008	6.94	0.0035
PUMP SEALS	1	0.0012	0.0012	10.51	0.0053
TOTAL:			0.0035	30.77	0.0154

Notes:

Number of sources from actual count.

Emission factors were obtained from the EPA document *Protocol for Equipment Leak Emission Estimates* (EPA-453/R-95-017), Table 2-3, Marketing Terminal Average Emission Factors.

☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆ GHS CLASSIFICATION ☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆

Hazard class	Hazard Category	Hazard Statement
Flammable	Category 1	H224
Aspiration hazard	Category 1	H304
Carcinogenicity	Category 1B	H350
Reproductive toxicity	Category 2	H361
Mutagenicity,	Category 1B	H340
Acute toxicity, inhalation	Category 4	H332
Specific target organ toxicity (Single exposure)	Category 3	H336
Skin corrosion/irritation	Category 2	H315
Eye damage/irritation	Category 2B	H319
Chronic hazards to the aquatic environment	Category 2	H411

Other Hazards Not Otherwise Classified: Static Accumulator - Static accumulating flammable material can become electro statically charged even in bonded and grounded equipment. Sparks may ignite material.

☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆ LABEL ELEMENTS ☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆

Symbols:



Signal Word: Danger

Physical Hazard Statements:

H224 Extremely flammable liquid and vapor

Health Hazard Statements:

- H304 May be fatal if swallowed and enters airways.
- H350 May cause cancer.
- H340 May cause genetic defects.
- H332 Harmful if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H315 Causes skin irritation.
- H319 May cause eye damage/irritation
- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness

Environmental Hazard Statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

- P201: Obtain special instructions before use.
- P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P261: Avoid breathing dust/ fume/ gas/ mist/vapors/ spray.
- P280: Wear protective gloves/ protective clothing/eye protection/ face protection.

Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P331: Do NOT induce vomiting.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/containers to an approved waste management company.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% vol
Gasoline	8006-61-9	100
including:		
Benzene	71-43-2	<4.4
Toluene	108-88-3	4.5-13.5
Xylenes (mixed isomers)	1330-20-7	4.5-12.6
Cyclohexane	110-82-7	0-0.9
Ethylbenzene	100-41-4	0-2.7
n-Hexane	110-54-3	0-4.5
1,2,4-Trimethylbenzene	95-63-6	0-2.7
Naphthalene	91-20-3	0-0.9
Cumene	98-82-8	0-0.9

Section 4 - First Aid Measures

Inhalation: Move to fresh air. If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available. **Seek medical attention.**

Eye Contact: Flush with water for 15 minutes. Contact doctor for additional advice.

Skin Contact: If on skin or hair remove any contaminated clothing and wash with soap and water, launder or dry-clean clothing before reuse.

Ingestion: Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. Seek medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section Ref. (1, 4)

Section 5 - Fire-Fighting Measures

Flash Point: -45 F

Flash Point Method: TCC

Autoignition Temperature: > 536 F

LEL: 1.4 %

UEL: 7.6 %

Emergency Response Guide: Guide No. 128

Flammability Classification: Flammable Liquid Class 1B

Extinguishing Media: Dry chemical, CO₂, foam, water. Water may not be effective. Water fog can be used to cool containers. Water may splash and spread flaming liquid. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. The use of self-contained breathing apparatus and protective clothing is recommended for fire fighters. Avoid inhalation of vapors.

Unusual Fire or Explosion Hazards: Highly volatile material. Keep away from heat, sources of ignition and strong oxidizers. This material can react violently with oxidizing agents.

Hazardous Combustion Products: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion

Special Fire-Fighting Procedures: Vapors can readily form explosive mixtures with air. Heavier than air vapors can flow along surfaces to ignition sources and flash back. Use self-contained breathing apparatus in enclosed areas. For massive fires, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Always stay away from tanks engulfed in fire.

NFPA Rating	
H	1
F	3
R	0

Section Ref. (1, 4, 9)

Section 6 - Accidental Release Measures

**“FOR CHEMICAL EMERGENCY” Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC – Day or Night 800-424-9300**

Spill /Leak Procedures: Danger, Flammable, eliminate all ignition sources. Equipment used in spill cleanup must be grounded to prevent sparking. Prevent entry into waterways, sewers, and confined areas.

Small Spills: Take up with an absorbent material and place in containers, seal tightly for proper disposal.

Large Spills: Isolate the hazard area at least 150 feet in all directions and restrict entry to unnecessary personnel. Shut off source of leak only if it can be done so safely or dike and contain the spill. Wear appropriate respirator and protective clothing. Water fog may be useful in suppressing vapor cloud contain run-off. Remove with vacuum trucks. Soak up residue with sand or other suitable material, place in containers for proper disposal. Flush with water and disposal of flushing solutions as above. Local, state and federal disposal regulations must be followed.

Regulatory Requirements: Recovered non-usable material is regulated by the US EPA as a hazardous waste due to its ignitibility characteristics (D001) and its benzene content (D018).

Section Ref. (4)

Section 7 - Handling and Storage

Handling Precautions: Do not get in eyes, on skin or on clothing. Do not breathe vapors, mists or fumes. Wear protective equipment described in section 8 if exposure conditions warrant. Use only with adequate ventilation.

Storage Requirements: Keep away from open flame, high temperatures, sparks, pilot lights, static electricity, and other sources of ignition. Store locked up in well ventilated area. Store in tightly closed containers. Bond and ground containers during transfer of gasoline.

Advice on protection against fire and explosion: Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initiated fire or explosion during transfer, storage or handling, include but are not limited to these examples:

- (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators.
- (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such gasoline or naphtha).
- (3) Storage tank level floats must be effectively bonded. For more information on precautions to prevent static-initiated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents (2008).

Section 8 - Exposure Controls / Personal Protection

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Gasoline			300 ppm	500 ppm			
Benzene	1 ppm	5 ppm	0.5 ppm	2.5 ppm	0.1 ppm	1.0 ppm	500 ppm
Toluene	200 ppm	300 ppm	50 ppm		100 ppm	150 ppm	500 ppm
Xylenes (mixed isomers)	100 ppm		100 ppm	150 ppm	100 ppm	150 ppm	900 ppm
Cyclohexane	300 ppm		300 ppm		300 ppm		1300 ppm
Ethyl benzene	100 ppm		100 ppm	125 ppm	100 ppm	125 ppm	800 ppm
n-Hexane	500 ppm		50 ppm		50 ppm		1100 ppm
Trimethylbenzene	N. D.		25 ppm		25 ppm		N. D.
Naphthalene	10 ppm		10 ppm	15 ppm	10 ppm	15 ppm	250 ppm
Cumene	50 ppm		50 ppm		50 ppm		900 ppm

(TWA)-Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.
(STEL)-Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless time limit is specified.

Engineering Controls

Ventilation: Local exhaust ventilation should be used. Provide explosion proof ventilation to meet TLV requirements in enclosed work areas.

Protective Clothing/Equipment

Contaminated Equipment: Launder or dry-clean contaminated clothing before reuse.

Gloves: Use chemical resistant gloves to prevent skin contact.

Goggles: Wear chemical goggles if eye contact is likely.

Respiratory: Use organic vapor cartridge respirators for exposures over TLV up to 1000 ppm. Use fresh air or self-contained breathing equipment for unknown or high concentrations.

Employees engaged in handling operations involving benzene must be provided with, and required to wear and use, a *half-mask* filter-type respirator for dusts, mists, and fumes. A respirator affording higher levels of protection than this respirator may be substituted.

Airborne Concentration or Condition of Use	Required Respirator
< or = 10 ppm (parts per million)	Half-mask air-purifying respirator with organic vapor cartridge.
< or = 50 ppm	(1) Full-facepiece respirator with organic vapor cartridges; or (2) Full-facepiece gas mask with chin-style canisters*.
< or = 100 ppm	Full-facepiece powered air-purifying respirator with organic vapor canister*.
< or = 1,000 ppm	Supplied-air respirator with full facepiece in positive-pressure mode.
> 1,000 ppm or unknown concentration	(1) Self-contained breathing apparatus with full facepiece in positive-pressure mode; or (2) Full-facepiece positive-pressure supplied-air respirator with auxiliary self-contained air supply.
Escape	(1) Any organic vapor gas mask; or (2) Any self-contained breathing apparatus with full facepiece.
Firefighting	Full-facepiece self-contained breathing apparatus in positive-pressure mode.
* Canisters must have a minimum service life of four (4) hours when tested at 150 ppm benzene, at a flow rate of 64 liters per minute (LPM), 25°C, and 85% relative humidity for non-powered air-purifying respirators. The flow rate shall be 115 LPM and 170 LPM, respectively, for tight-fitting and loose-fitting powered air-purifying respirators.	

Section Ref. (1, 2, 3)

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear and light yellow with characteristic light hydrocarbon odor.

Odor Threshold: No Data

Vapor Pressure: 8.5 – 15.0 psi @ 100 F

Vapor Density (Air=1): 3 - 4

Formula Weight: No Data

Specific Gravity (H₂O=1, at 4 °C): 0.70 – 0.77

pH: No Data

Water Solubility: Negligible

Other Solubilities: No Data

Boiling Point: 80 – 430° F

Freezing/Melting Point: NA

Viscosity: No Data

Refractive Index: No Data

Surface Tension: No Data

% Volatile: 100%

Evaporation Rate: >1 (Butyl Acetate = 1)

Section 10 - Stability and Reactivity

Stability: This Material is Stable.

Polymerization: Hazardous Polymerization will not occur.

Chemical Incompatibilities: Keep away from Oxidizing agents.

Conditions to Avoid: Keep away from open flame, high temperatures, and other sources of ignition.

Hazardous Decomposition Products: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion

Section 11- Toxicological Information

General information May be fatal if swallowed and enters airways. Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion may cause irritation and malaise. Swallowing or vomiting of the liquid may result in aspiration into the lungs.

Inhalation Vapors may cause drowsiness and dizziness.

Skin contact Causes skin irritation.

Eye contact direct contact with eyes may cause temporary irritation.

Symptoms Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause eye irritation on direct contact. Narcosis. Unconsciousness. Behavioral changes. Decrease in motor functions. Cyanosis (blue tissue condition, nails, lips, and/or skin). Jaundice. Proteinuria. Liver enlargement. Conjunctivitis. Corneal damage. Defatting of the skin. Rash. Edema.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Irritating to skin.

Product Species Test Results

Gasoline; Low boiling naphtha - unspecified (CAS 86290-81-5)

LD50 Rabbit *Dermal Acute* > 3,75 g/kg

LD50 Rat *Inhalation* > 20000 mg/kg, 4 hours

LD50 Rat *Oral* > 5 ml/kg

Skin corrosion/irritation Causes skin irritation.

For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 4.8/8.0.

Serious eye damage/irritation direct contact with eyes may cause temporary irritation.

The Draize eye irritation mean score in rabbits for a 24-hour exposure was: 0/110.

Respiratory sensitization Not classified.

Skin sensitization Not classified. The results of a skin sensitization study in guinea pigs were negative.

Germ cell Mutagenicity May cause genetic defects. In in-vitro experiments, neither benzene, toluene nor Xylene changed the number of sister-Chromatid exchanges (SCEs) or the number of chromosomal aberrations in human lymphocytes. However, toluene and xylene caused a significant cell growth inhibition which was not observed with benzene in the same concentrations. In in-vivo experiments,

toluene changed the number of sister-chromatid exchanges (SCEs) in human lymphocytes.

Toluene may cause heritable genetic damage.

Carcinogenicity May cause cancer. Contains benzene, a classified IARC 1 chemical (Known Human Carcinogen). Also contains ethyl benzene, which is classified as an IARC 2B chemical (Possibly Carcinogenic to Humans).

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Gasoline; Low boiling naphtha - unspecified (CAS 86290-81-5) 2B possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging the unborn child. Suspected of damaging fertility. Benzene, xylene and toluene have demonstrated animal effects of reproductive toxicity. Animal studies of benzene have shown testicular effects, alterations in reproductive cycles, chromosomal aberrations and embryo/feto toxicity. Ethanol has demonstrated human effects of reproductive toxicity. May damage fertility or the unborn child. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Avoid exposure to women during early pregnancy. Avoid contact during pregnancy/while nursing.

US Export Gasolines - All Grades (Refer to Synonyms for Product Name) SDS EU

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Specific target organ toxicity -single exposure- May cause drowsiness or dizziness.

Specific target organ toxicity -repeated exposure - Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Other information Symptoms may be delayed

Gasoline

Acute Oral Effects: LD₅₀ (rat) = 0.5 to 5 g/kgs

As little as 10-15 g may be lethal in children.

Eye effects-Man 500 ppm/1H Moderate irritation effects

Archives of Environmental Health. (Heldref Publications, 4000 Albemarle St., N.W., Washington, DC 20016) V.1- 1960-AEHLAU 1, 548, 60

Eye effects-Human 140 ppm/8H Mild irritation effects

Inhalation-Man TCLo: 900 ppm/1H: Eye effects, Central nervous system effects, pulmonary system effects
Journal of Industrial Hygiene and Toxicology. (Baltimore, MD/New York, NY) V.18-31, 1936-49. For publisher information, see AEHLAUJHTAB 25, 225, 43

Parenteral-Man TDLo: 53 mg/kg

Journal of Toxicology, Clinical Toxicology. (Marcel Dekker, POB 11305, Church St. Station, New York, NY 10249) V.19- 1982-JTCTDW 21, 409, 83/84

Inhalation-Rat LC50: 300 g/m³/5M

Inhalation-Mouse LC50: 300 g/m³/5M

Inhalation-Guinea Pig, adult LC50: 300 g/m³/5M

National Technical Information Service. (Springfield, VA 22161) (Formerly U.S. Clearinghouse for Scientific and Technical Information)NTIS** PB158-508

Inhalation-Mammal LCLo: 30,000 ppm/5M

Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und Pharmakologie. (Berlin, Germany) V.110-253, 1925-66. For publisher information, see NSAPCCAEPPEAE 138, 65, 28

Section Ref. (5, 10)

Section 12 - Ecological Information

Aquatic Toxicity: 90 ppm/24hr/juvenile American shad/TL_m/fresh water; 91 mg/1/24hr/juvenile American shad/TL_m/salt water.

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.

Fouling to shoreline. May be dangerous if it enters water intakes.

Notify local health and wildlife officials. Notify operators of nearby water intakes.

Section Ref. (10)

Section 13 - Disposal Considerations

Disposal: Local, state and federal disposal regulations must be followed.

Disposal Regulatory Requirements: Recovered non-usable material is regulated by the US EPA as a hazardous waste due to its ignitibility characteristics (D001) and its benzene content (D018).

“Empty” Container Warning: “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous.

Container Cleaning and Disposal: DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description information.

DOT Shipping Name: Gasoline

DOT Hazard Class: 3

DOT ID No.: UN1203

DOT Packing Group: II

Hazard Label: Flammable Liquid

Section 15 - Regulatory Information

EPA Regulations

RCRA Hazardous Waste Number: D001

RCRA Hazardous Waste Classification (40 CFR 261): D018

CERCLA Reportable Quantity (RQ) (40 CFR 302.4):

Compound	CAS Number	RQ
Benzene	71-43-2	10
Toluene	108-88-3	1000
Xylenes (mixed isomers)	1330-20-7	100
Cyclohexane	110-82-7	1000
Ethyl benzene	100-41-4	1000
Hexane	110-54-3	5000
1,2,4-Trimethylbenzene	95-63-6	NE
Naphthalene	91-20-3	100
Cumene	98-82-8	5000

NE- Not Established

SARA 311/312 Codes (40 CFR 370 / 29 CFR 1910.1200):

Fire	YES
Pressure	NO
Reactivity	NO
Immediate (acute)	YES
Delayed (chronic)	YES

SARA Toxic Chemical (40 CFR 372) Section 313:

Compound	CAS Number	Concentration %
Benzene	71-43-2	<4.4
Toluene	108-88-3	4.5-13.5
Xylenes (mixed isomers)	1330-20-7	4.5-12.6
Cyclohexane	110-82-7	0-0.9
Ethyl benzene	100-41-4	0-2.7
Hexane	110-54-3	0-4.5
1,2,4-Trimethylbenzene	95-63-6	0-2.7
Naphthalene	91-20-3	0-0.9
Cumene	98-82-8	0-0.9

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

TSCA (40 CFR 710): This product or its components are listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

State Regulations: The following chemicals are specifically listed by individual states, for details on each states regulatory requirements you should contact the appropriate agency in that state.

Compound	CAS Number	States
Ethanol	64-71-5	CA, FL, TX, PA
Benzene	71-43-2	CA, CA65, FL, MA, NY, NJ, TX, IL, IL ₁ , PA
Toluene	108-88-3	CA, CA65, FL, MA, NY, NJ, TX, IL, IL ₁ , PA
Xylenes (mixed isomers)	1330-20-7	CA, FL, MA, NY, NJ, TX, IL ₁ , PA
Cyclohexane	110-82-7	CA, FL, MA, NY, NJ, TX, IL ₁ , PA
Ethyl benzene	100-41-4	CA, FL, MA, NY, NJ, TX, IL, PA
Hexane	110-54-3	CA, FL, MA, NY, NJ, TX, PA
Trimethylbenzene	95-63-6	MA, NJ, TX, PA
Naphthalene	91-20-3	CA, CA65, FL, MA, NY, NJ, TX, IL, IL ₁ , PA
Cumene	98-82-8	CA, FL, MA, NY, NJ, TX, , IL ₁ , PA

- CA - CALIFORNIA DIRECTOR'S LIST OF HAZARDOUS SUBSTANCE
- CA65 - CALIFORNIA PROPOSITION 65 CARCINOGENS OR REPRODUCTIVE TOXINS
- FL - FL TOXIC SUBSTANCES IN THE WORKPLACE
- MA - MASSACHUSETTS "TOXIC CHEMICALS" LIST
- NY - NEW YORK HAZARDOUS SUBSTANCE BULK STORAGE LIST
- NJ - NEW JERSEY RIGHT TO KNOW HAZARDOUS SUBSTANCE
- TX - TEXAS AIR CONTAMINANTS WITH HEALTH EFFECTS SCREENING LEVEL
- IL - ILLINOIS (WATER) PRIORITY POLLUTANTS
- IL₁ - ILLINOIS HAZARDOUS WASTE
- PA - PENNSYLVANIA HAZARDOUS SUBSTANCE LIST

Section Ref. (6)

SECTION 16 - Other Information

Prepared By: Lion Oil Control Lab

Revision Notes:

06/07/13 Updated with GHS data.
04/13/11 Edited Section 1 Synonyms.

FIRST AID

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.

Storage:

Store in a well-ventilated place. Keep containers tightly closed.

Disposal:

Dispose of contents/containers to an approved waste management company.

FIRE CONTROL

Use water spray or fog, chemical foam, dry powder or carbon dioxide.

**Reference and research:**

- (1) The International Chemical Safety Card - <http://www.cdc.gov/niosh/ipcs/icstart.html>
- (2) NIOSH Pocket Guide to Chemical Hazards - <http://www.cdc.gov/niosh/npg/>
- (3) 2007 Guide to Occupational Exposure Values – Compiled by ACGIH
- (4) 2004 Emergency Response Guidebook - <http://hazmat.dot.gov/pubs/erg/unidnum.htm>
- (5) Sax’s Dangerous Properties of Industrial Materials, 9th Edition; Edited by Richard J. Lewis, Sr.; Version 1.6; Copyright © 1997 by John Wiley & Sons, Inc.
- (6) Touchstone Environmental, Inc.; Chemcheck Handbook (educational resource)
- (7) Hawley’s Condensed Chemical Dictionary, 13th Edition; Edited by Richard J. Lewis, Sr.; Version 1.1 Copyright© 1997 by John Wiley & Sons, Inc.
- (8) Environmental Contaminant Reference Databook; VOLUMES I, II and III; by Jan. C. Prager; Version 2.0; Copyright © 1997 by John Wiley & Sons, Inc.
- (9) Fire Protection Guide to Hazardous Materials, Twelfth Edition; National Fire Protection Association (NFPA 325) Guide to Hazardous Chemical Properties of Flammable Liquids, Gases, and Volatile Solids. 1994 edition.
- (10) Hazardous Materials Handbook; Richard P. Pohanish and Stanley A. Greene, Version 1.3 Copyright© 1997 by Richard P. Pohanish and Stanley A. Greene