

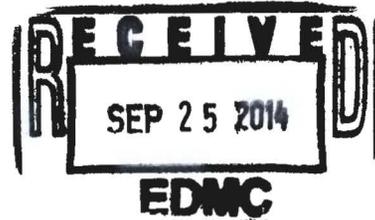
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DOE/RL-2014-03
Revision 0

2013 Hanford Site Toxic Chemical Release Inventory

Emergency Planning and Community Right-to-Know Act,
Section 313



Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-09RL14728

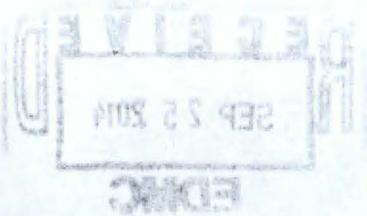


P.O. Box 650
Richland, Washington 99352

2013 Hanford Site Toxic Chemical Release Inventory

Emergency Planning and Community Right-to-Know Act, Section 313

R. H. Anderson
Mission Support Alliance



Date Published
June 2014

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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under Contract DE-AC06-09RL14728



P.O. Box 650
Richland, Washington 99352

APPROVED
By Janis D. Aardal at 7:53 am, Jun 17, 2014

Release Approval

Date

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ABSTRACT

Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, requires all federal facilities to comply with the provisions of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA). EPCRA Section 313 requires facilities that manufacture, process, or otherwise use listed toxic chemicals in quantities exceeding established activity thresholds to report total annual releases and waste management activities of those chemicals. During calendar year 2013, the Hanford Site exceeded activity thresholds for three chemicals; lead, naphthalene, propylene. Accordingly, this report contains information regarding releases and waste management activities of lead, naphthalene, propylene, during calendar year 2013.

EXECUTIVE SUMMARY

Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, requires all federal facilities to comply with the provisions of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA). EPCRA Section 313 requires facilities that manufacture, process, or otherwise use listed toxic chemicals in quantities exceeding established activity thresholds to report total annual releases and waste management activities of those chemicals. The threshold for manufacturing or processing activities is 25,000 pounds. The threshold for chemicals otherwise used is 10,000 pounds. Certain chemicals identified as being persistent and bioaccumulative have lower activity thresholds; either 100 pounds, 10 pounds if highly persistent and bioaccumulative, or 0.1 grams for dioxin and dioxin-like compounds. The Toxics Release Inventory (TRI) report must be submitted to the U.S. Environmental Protection Agency (EPA) and the Washington State Emergency Response Commission (State of Washington Department of Ecology) by July 1 each year and must cover activities that occurred at the facility during the previous calendar year.

During calendar year 2013, the Hanford Site exceeded activity thresholds for three chemicals; lead, Chemical Abstract Services Registry (CAS) Number 7439-92-1, naphthalene, CAS Number 91-20-3, and propylene, CAS Number 115-07-1. Accordingly, a TRI Form R has been prepared for lead, naphthalene, and propylene. Each Form R contains information regarding releases of the chemical to the environment as well as waste management activities that occurred during calendar year 2013. The Form Rs are electronically submitted and certified using EPA's Central Data Exchange. This report contains the validated draft copies of the Form Rs.

This report includes activities conducted on the 100, 200, 300, 400, and 600 areas of the Hanford Site. Activities conducted on property leased to other companies, where the U.S. Department of Energy, Richland Operations Office (DOE-RL) has no business interest in the operations other than ownership of the real estate, are not included. This exemption applies to activities conducted by US Ecology, Inc., Energy Northwest, the Bonneville Power Administration, the National Science Foundation, and other activities conducted on similarly leased lands not under the management of DOE-RL. In addition, the 700 area and 1100 area are not included. Activities performed by Pacific Northwest National Laboratory (PNNL) in the 300 Area are included in the PNNL TRI report, instead of being included in this report.

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Appendix A – Reporting Codes and DefinitionsA-1

DistributionDistr-1

Form R for Lead

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***** Draft Form Only: Do Not Submit to EPA *****

Form Status: Available for Editing

Validation Status: Passed with Possible Errors

1 2 3 4 5 [Additional Info](#)

Form Approved OMB Number: 2025-0009

Page 1 of 5

(IMPORTANT: Read instructions before completing form; type or use fill-and-print form)

Approval Expires:

EPA United States Environmental Protection Agency		FORM R Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.		TRI Facility ID Number 99352SDPRTPOBOX			
WHERE TO SEND COMPLETED FORMS:		1. TRI Data Processing Center P.O. Box 10163 Fairfax, VA 22038 *** Draft Form Only: Do Not Submit to EPA ***		2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)			
This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:		Revision (Enter up to two code(s)) [] []		Withdrawal (Enter up to two code(s)) [] []			
Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.							
Part I. FACILITY IDENTIFICATION INFORMATION							
SECTION 1. REPORTING YEAR : 2013							
SECTION 2. TRADE SECRET INFORMATION							
2.1 Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer questions 2.2; attach substantiation forms) <input checked="" type="checkbox"/> NO (Do not answer 2.2; go to Section 3)			2.2 Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "Yes" in 2.1)				
SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.							
Name and official title of owner/operator or senior management official: Draft Form Only: Do Not Submit to EPA			Signature: Draft Form Only: Do Not Submit to EPA		Date Signed: XX/XX/XXXX		
SECTION 4. FACILITY IDENTIFICATION							
4.1	TRI Facility ID Number 99352SDPRTPOBOX		Facility or Establishment Name U.S. DOE HANFORD SITE				
Street 825 JADWIN AVE			Mailing Address (if different from physical street address) POST OFFICE BOX 550				
City/County/Tribe/State/ZIP Code RICHLAND / Benton / BIA Code: / WA / 99352			City/State/ZIP Code RICHLAND / WA / 99352		Country (Non-US)		
4.2	This report contains information for : (Important; check a or b; check c or d if applicable)		a. <input checked="" type="checkbox"/> An Entire facility	b. <input type="checkbox"/> Part of a facility	c. <input checked="" type="checkbox"/> A Federal facility	d. <input type="checkbox"/> GOCO	
4.3	Technical Contact name	DALE E. JACKSON	Email Address DALE.JACKSON@RL.DOE.GOV		Telephone Number (include area code) 5093768086		
4.4	Public Contact name	DALE E. JACKSON	Email Address DALE.JACKSON@RL.DOE.GOV		Telephone Number (include area code) 5093768086		
4.5	NAICS Code(s) (6 digits)	a. 924110 (Primary)	b.	c.	d.	e.	f.
4.6	Dun and Bradstreet Number(s) (9 digits)						
a. NA							
b.							
SECTION 5. PARENT COMPANY INFORMATION							
5.1	Name of U.S. Parent Company (for TRI Reporting purposes)		US DEPARTMENT OF ENERGY		No U.S. Parent Company (for TRI Reporting purposes) <input type="checkbox"/>		
5.2	Parent Company's Dun & Bradstreet Number		NA <input checked="" type="checkbox"/>				

1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION		TRI Facility ID Number		
		99352SDPRTPOBOX		
		Toxic Chemical, Category, or Generic Name		
		Lead		
SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you are reporting a mixture component in Section 2 below.)				
1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)			
	7439921			
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)			
	Lead			
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.)			
	NA			
SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)				
2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)			
	NA			
SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.)				
3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	
	a. <input type="checkbox"/> Produce b. <input type="checkbox"/> Import			
	If produce or import: c. <input type="checkbox"/> For on-site use/processing d. <input type="checkbox"/> For sale/distribution e. <input type="checkbox"/> As a byproduct f. <input type="checkbox"/> As an impurity	a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input checked="" type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity	a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input checked="" type="checkbox"/> Ancillary or other use	
3.3	Otherwise use the toxic chemical:			
SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR				
4.1	[06] (Enter two-digit code from instruction package.)			
SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE				
		A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (Enter code)	C. Percent from Stormwater
5.1	Fugitive or non-point air emissions	NA []	3.4	E1
5.2	Stack or point air emissions	NA []	0	O
5.3	Discharges to receiving streams or water bodies (Enter one name per box)	NA [X]		
5.3.1	Stream or Water Body Name			
	NA			

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1 2 3 4 5 [Additional Info](#)

<p>EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)</p>	<p>TRI Facility ID Number 99352SDPRTPOBOX</p> <p>Toxic Chemical, Category, or Generic Name Lead</p>
--	---

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE (Continued)

		NA	A. Total Release (pounds/year*) (Enter range code** or estimate)	B. Basis of Estimate (Enter code)
5.4.1	Underground Injection on-site to Class I wells	[X]		
5.4.2	Underground Injection on-site to Class II-V wells	[X]		
5.5	Disposal to land on-site			
5.5.1.A	RCRA subtitle C landfills	[]	1685	O
5.5.1.B	Other landfills	[]	1196720	O
5.5.2	Land treatment/application farming	[X]		
5.5.3.A	RCRA Subtitle C surface impoundments	[X]		
5.5.3.B	Other surface impoundments	[X]		
5.5.4	Other disposal	[]	5680.6	C

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)		NA []					
6.1.1 POTW Name		CITY OF RICHLAND WASTEWATER TREATMENT FACILITY					
POTW Address		555 LACY ROAD					
City	RICHLAND	County	Benton	State	WA	Zip	99352
A. Quantity Transferred to this POTW (pounds/year*) (Enter range code** or estimate)				B. Basis of Estimate (Enter code)			
.1				M2			

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)								TRI Facility ID Number	
								99352SDPRTPOBOX	
								Toxic Chemical, Category, or Generic Name	
								Lead	
6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS								NA <input type="checkbox"/>	
6.2.0 Off-Site EPA Identification Number (RCRA ID No.)						AZ0000337360			
Off-Site Location Name:						VEOLIA ES TECHNICAL SOLUTIONS LLC			
Off-Site Address:						5736 WEST JEFFERSON STREET			
City	PHOENIX	County	Maricopa	State	AZ	Zip	85043	Country (Non-US)	
Is location under control of reporting facility or parent company?						[] Yes <input checked="" type="checkbox"/> No			
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1. 40696.1			1. O		1. M24				
6.2.1 Off-Site EPA Identification Number (RCRA ID No.)						UTD981552177			
Off-Site Location Name:						CLEAN HARBORS ARAGONITE LLC			
Off-Site Address:						11600 NORTH APTUS ROAD			
City	GRANTSVILLE	County	Tooele	State	UT	Zip	84029	Country (Non-US)	
Is location under control of reporting facility or parent company?						[] Yes <input checked="" type="checkbox"/> No			
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1. 40.5			1. O		1. M99				
2. .004			2. O		2. M94				
6.2.2 Off-Site EPA Identification Number (RCRA ID No.)						TND982109142			
Off-Site Location Name:						DIVERSIFIED SCIENTIFIC SERVICE S INC (DSSI)			
Off-Site Address:						657 GALLAHER ROAD			
City	KINGSTON	County	Roane	State	TN	Zip	37763	Country (Non-US)	
Is location under control of reporting facility or parent company?						[] Yes <input checked="" type="checkbox"/> No			
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1. .001			1. O		1. M41				
2. .003			2. O		2. M99				
6.2.3 Off-Site EPA Identification Number (RCRA ID No.)						NA			
Off-Site Location Name:						NAPA AUTO PARTS			
Off-Site Address:						910 N. 20TH AVE.			
City	PASCO	County	Franklin	State	WA	Zip	99301	Country (Non-US)	
Is location under control of reporting facility or parent company?						[] Yes <input checked="" type="checkbox"/> No			
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1. 24974.6			1. O		1. M24				
6.2.4 Off-Site EPA Identification Number (RCRA ID No.)						WAR000010355			
Off-Site Location Name:						PERMA-FIX NORTHWEST RICHLAND INC			
Off-Site Address:						2025 BATTELLE BOULEVARD			
City	RICHLAND	County	Benton	State	WA	Zip	99354	Country (Non-US)	

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Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1 . 2773.3		1 . O		1 . M99					
2 . 1067.1		2 . O		2 . M41					
6.2.5 Off-Site EPA Identification Number (RCRA ID No.)				WAD991281767					
Off-Site Location Name:				BURLINGTON ENVIRONMENTAL LLC					
Off-Site Address:				20245 77TH AVENUE SOUTH					
City	KENT	County	King	State	WA	Zip	98032	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1 . 391.7		1 . O		1 . M94					
2 . 160.4		2 . O		2 . M41					
6.2.6 Off-Site EPA Identification Number (RCRA ID No.)				UTD991301748					
Off-Site Location Name:				CLEAN HARBORS GRASSY MOUNTAIN LLC					
Off-Site Address:				3 MILE EAST 7 MILE NORTH EXIT 41 OF HIGHWAY 80					
City	Grantsville	County	Tooele	State	UT	Zip	84029	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1 . 3.1		1 . O		1 . M94					
6.2.7 Off-Site EPA Identification Number (RCRA ID No.)				ARD069748192					
Off-Site Location Name:				CLEAN HARBORS EL DORADO LLC					
Off-Site Address:				309 AMERICAN CIRCLE					
City	EL DORADO	County	Union	State	AR	Zip	71730	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1 . .003		1 . O		1 . M99					
6.2.8 Off-Site EPA Identification Number (RCRA ID No.)				TND982086969					
Off-Site Location Name:				TOXCO INC.					
Off-Site Address:				109 FLINT ROAD					
City	OAK RIDGE	County	Anderson	State	TN	Zip	37830	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1 . 5023.4		1 . O		1 . M99					
6.2.9 Off-Site EPA Identification Number (RCRA ID No.)				TNR000005397					
Off-Site Location Name:				MATERIALS & ENERGY CORP					
Off-Site Address:				E.TENNESSEE TECH.PK 2010 HWY.58 BLDG.K-1005					
City	OAK RIDGE	County	Roane	State	TN	Zip	37830	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes [X] No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					

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1. .005	1. 0	1. M99
SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY		
[] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.		
a. General Waste Stream (Enter code)	b. Waste Treatment Method(s) Sequence (Enter 3- or 4-character code(s))	c. Waste Treatment Efficiency (Enter 2 character code)
7A.1a	7A.1b	7A.1c
W	2 : H123 3 : H075 4 : H121 5 : H083 6 : H129 7 : H082 8 : H122	E5
7A.2a	7A.2b	7A.2c
S	2 : H111	E6

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1 2 3 4 5 [Additional Info](#)

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)		TRI Facility ID Number 99352SDPRTPOBOX			
		Toxic Chemical, Category, or Generic Name Lead			
SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES <input checked="" type="checkbox"/> NA - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category. Energy Recovery Methods [Enter 3-character code(s)]					
SECTION 7C. ON-SITE RECYCLING PROCESSES <input checked="" type="checkbox"/> NA - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category. Recycling Methods [Enter 3-character code(s)]					
SECTION 8. DISPOSAL OR OTHER RELEASES, SOURCE REDUCTION, AND RECYCLING ACTIVITIES					
		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	5360	1685	2000	2000
8.1b	Total other on-site disposal or other releases	4827	5684	5000	5000
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	0	0	0	0
8.1d	Total other off-site disposal or other releases	23906.8	9459.616	10000	10000
8.2	Quantity used for energy recovery on-site	NA	NA	NA	NA
8.3	Quantity used for energy recovery off-site	NA	NA	NA	NA
8.4	Quantity recycled on-site	NA	NA	NA	NA
8.5	Quantity recycled off-site	58288.1	65670.7	60000	60000
8.6	Quantity treated on-site	NA	NA	NA	NA
8.7	Quantity treated off-site	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	1196720			
8.9	Production ratio or activity index	0.67			
8.10	Did your facility engage in any newly implemented source reduction activities for this chemical during the reporting year? If so, complete the following section; if not, check NA.	NA <input checked="" type="checkbox"/>			
	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			
8.10.1	NA				

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

1 2 3 4 5 [Additional Info](#)

TRI Facility ID Number
99352SDPRTPOBOX
Toxic Chemical, Category, or Generic Name
Lead

Additional optional information on source reduction, recycling, or pollution control activities.

Miscellaneous, additional, or optional information regarding the Form R submission
A significant amount of the toxic chemical that was reported as "released" represents the amount of the toxic chemical that was cleaned up from the environment and placed into an EPA-approved landfill. The values reported are conservative and overestimate the actual amount of the toxic chemical disposed.

Form R for Naphthalene

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***** Draft Form Only: Do Not Submit to EPA *****

Form Status: Available for Editing
Validation Status: Not Validated

1 2 3 4 5 [Additional Info](#)

Form Approved OMB Number: 2025-0009

Page 1 of 5

(IMPORTANT: Read instructions before completing form; type or use fill-and-print form)

Approval Expires:

EPA United States Environmental Protection Agency		FORM R Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.		TRI Facility ID Number 99352SDPRTPOBOX	
WHERE TO SEND COMPLETED FORMS:		1. TRI Data Processing Center P.O. Box 10163 Fairfax, VA 22038 *** Draft Form Only: Do Not Submit to EPA ***		2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)	
This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:		Revision (Enter up to two code(s)) [] []		Withdrawal (Enter up to two code(s)) [] []	
Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.					
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SECTION 1. REPORTING YEAR: 2013					
SECTION 2. TRADE SECRET INFORMATION					
2.1 Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer questions 2.2; attach substantiation forms) <input checked="" type="checkbox"/> NO (Do not answer 2.2; go to Section 3)			2.2 Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "Yes" in 2.1)		
SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.					
Name and official title of owner/operator or senior management official: Draft Form Only: Do Not Submit to EPA		Signature: Draft Form Only: Do Not Submit to EPA		Date Signed: XX/XX/XXXX	
SECTION 4. FACILITY IDENTIFICATION					
4.1		TRI Facility ID Number		99352SDPRTPOBOX	
Facility or Establishment Name U.S. DOE HANFORD SITE					
Street 825 JADWIN AVE			Mailing Address (if different from physical street address) POST OFFICE BOX 550		
City/County/Tribe/State/ZIP Code RICHLAND /Benton /BIA Code: /WA /99352			City/State/ZIP Code RICHLAND /WA /99352		Country (Non-US)
4.2 This report contains information for : (Important: check a or b; check c or d if applicable)		a. <input checked="" type="checkbox"/> An Entire facility		b. <input type="checkbox"/> Part of a facility	
		c. <input checked="" type="checkbox"/> A Federal facility		d. <input type="checkbox"/> GOCO	
4.3 Technical Contact name		DALE E. JACKSON		Email Address DALE.JACKSON@RL.DOE.GOV	
				Telephone Number (include area code) 5093768086	
4.4 Public Contact name		DALE E. JACKSON		Email Address DALE.JACKSON@RL.DOE.GOV	
				Telephone Number (include area code) 5093768086	
4.5 NAICS Code(s) (6 digits)		a. 924110 (Primary)		h. c. d. e. f.	
4.6		Dun and Bradstreet Number(s) (9 digits)			
		a. NA			
		b.			
SECTION 5. PARENT COMPANY INFORMATION					
5.1 Name of U.S. Parent Company (for TRI Reporting purposes)		US DEPARTMENT OF ENERGY			No U.S. Parent Company (for TRI Reporting purposes) <input type="checkbox"/>
5.2 Parent Company's Dun & Bradstreet Number		NA <input checked="" type="checkbox"/>			

1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION		TRI Facility ID Number		
		99352SDPRTPOBOX		
		Toxic Chemical, Category, or Generic Name		
		Naphthalene		
SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you are reporting a mixture component in Section 2 below.)				
1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)			
	91203			
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)			
	Naphthalene			
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.)			
	NA			
SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)				
2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)			
	NA			
SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.)				
3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	
	a. <input checked="" type="checkbox"/> Produce b. <input type="checkbox"/> Import			
	If produce or import: c. <input type="checkbox"/> For on-site use/processing d. <input type="checkbox"/> For sale/distribution e. <input checked="" type="checkbox"/> As a byproduct f. <input type="checkbox"/> As an impurity	a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity	a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input checked="" type="checkbox"/> Ancillary or other use	
3.3	Otherwise use the toxic chemical:			
SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR				
4.1	[05] (Enter two-digit code from instruction package.)			
SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE				
		A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (Enter code)	C. Percent from Stormwater
5.1	Fugitive or non-point air emissions	NA []	0	O
5.2	Stack or point air emissions	NA []	0	O
5.3	Discharges to receiving streams or water bodies (Enter one name per box)	NA [X]		
5.3.1	Stream or Water Body Name			
	NA			

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1 2 3 4 5 [Additional Info](#)

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)		TRI Facility ID Number		
		99352SDPRTPOBOX		
		Toxic Chemical, Category, or Generic Name		
		Naphthalene		
SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE (Continued)				
		NA	A. Total Release (pounds/year*) (Enter range code** or estimate)	B. Basis of Estimate (Enter code)
5.4.1	Underground Injection on-site to Class I wells	[X]		
5.4.2	Underground Injection on-site to Class II-V wells	[X]		
5.5 Disposal to land on-site				
5.5.1.A	RCRA subtitle C landfills	[]	0	O
5.5.1.B	Other landfills	[]	496857	O
5.5.2	Land treatment/application farming	[X]		
5.5.3A	RCRA Subtitle C surface impoundments	[X]		
5.5.3B	Other surface impoundments	[X]		
5.5.4	Other disposal	[X]		
SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS				
6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)		NA [X]		

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds

1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)							TRI Facility ID Number		
							99352SDPRTPOBOX		
							Toxic Chemical, Category, or Generic Name		
							Naphthalene		
6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS							NA <input type="checkbox"/>		
6.2.1 Off-Site EPA Identification Number (RCRA ID No.)				UTD981552177					
Off-Site Location Name:				CLEAN HARBORS ARAGONITE LLC					
Off-Site Address:				11600 NORTH APTUS ROAD					
City	GRANTSVILLE	County	Tooele	State	UT	Zip	84029	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes <input checked="" type="checkbox"/> No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1..77			1. O		1.				
6.2.2 Off-Site EPA Identification Number (RCRA ID No.)				TND982109142					
Off-Site Location Name:				DIVERSIFIED SCIENTIFIC SERVICE S INC (DSSI)					
Off-Site Address:				657 GALLAHER ROAD					
City	KINGSTON	County	Roane	State	TN	Zip	37763	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes <input checked="" type="checkbox"/> No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1..01			1. O		1.				
6.2.3 Off-Site EPA Identification Number (RCRA ID No.)				WAR000010355					
Off-Site Location Name:				PERMA-FIX NORTHWEST RICHLAND INC					
Off-Site Address:				2025 BATTELLE BOULEVARD					
City	RICHLAND	County	Benton	State	WA	Zip	99354	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes <input checked="" type="checkbox"/> No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1..19			1. O		1. M99				
6.2.4 Off-Site EPA Identification Number (RCRA ID No.)				WAD020257945					
Off-Site Location Name:				BURLINGTON ENVIRONMENTAL LLC					
Off-Site Address:				1701 EAST ALEXANDER AVENUE					
City	TACOMA	County	Pierce	State	WA	Zip	984214106	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes <input checked="" type="checkbox"/> No		
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)				
1..23			1. O		1. M94				
6.2.5 Off-Site EPA Identification Number (RCRA ID No.)				WAD991281767					
Off-Site Location Name:				BURLINGTON ENVIRONMENTAL LLC					
Off-Site Address:				20245 77TH AVENUE SOUTH					
City	KENT	County	King	State	WA	Zip	98032	Country (Non-US)	
Is location under control of reporting facility or parent company?							[] Yes <input checked="" type="checkbox"/> No		
A. Total Transfer (pounds/year*)			B. Basis of Estimate		C. Type of Waste Treatment/Disposal/				

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(Enter range code** or estimate)		(Enter code)		Recycling/Energy Recovery (Enter code)					
1. 1.93		1. O		1. M94					
6.2.6 Off-Site EPA Identification Number (RCRA ID No.)				TNR000005397					
Off-Site Location Name:				MATERIALS & ENERGY CORP					
Off-Site Address:				E.TENNESSEE TECH.PK 2010 HWY.58 BLDG.K-1005					
City	OAK RIDGE	County	Roane	State	TN	Zip	37830	Country (Non-US)	
Is location under control of reporting facility or parent company?						[] Yes [X] No			
A. Total Transfer (pounds/year*) (Enter range code** or estimate)		B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)					
1. .39		1. O		1. M99					
SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY									
[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.									
a. General Waste Stream (Enter code)	b. Waste Treatment Method(s) Sequence (Enter 3- or 4-character code(s))				c. Waste Treatment Efficiency (Enter 2 character code)				

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*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pou

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number
	99352SDPRTPOBOX
	Toxic Chemical, Category, or Generic Name
	Naphthalene

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES
 NA - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.
 Energy Recovery Methods [Enter 3-character code(s)]

SECTION 7C. ON-SITE RECYCLING PROCESSES
 NA - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.
 Recycling Methods [Enter 3-character code(s)]

SECTION 8. DISPOSAL OR OTHER RELEASES, SOURCE REDUCTION, AND RECYCLING ACTIVITIES

	Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1				
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	0	0	0
8.1b	Total other on-site disposal or other releases	0	0	0
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA
8.1d	Total other off-site disposal or other releases	10.7	2.74	3
8.2	Quantity used for energy recovery on-site	NA	NA	NA
8.3	Quantity used for energy recovery off-site	0	NA	0
8.4	Quantity recycled on-site	NA	NA	NA
8.5	Quantity recycled off-site	NA	NA	NA
8.6	Quantity treated on-site	NA	NA	NA
8.7	Quantity treated off-site	1.6	NA	1
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	496857		
8.9	Production ratio or activity index	0.66		
8.10	Did your facility engage in any newly implemented source reduction activities for this chemical during the reporting year? If so, complete the following section; if not, check NA.	NA [X]		
	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))		
8.10.1	NA			

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

[1](#) [2](#) [3](#) [4](#) [5](#) [Additional Info](#)

TRI Facility ID Number
99352SDPRTPOBOX
Toxic Chemical, Category, or Generic Name
Naphthalene

Additional optional information on source reduction, recycling, or pollution control activities.
A significant amount of the toxic chemical that was reported as "released" represents the amount of the toxic chemical that was cleaned up from the environment and placed into an EPA-approved landfill. The values reported are conservative and overestimate the actual amount of the toxic chemical disposed.

Miscellaneous, additional, or optional information regarding the Form R submission

Form R for Propylene

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***** Draft Form Only: Do Not Submit to EPA *****

Form Status: Available for Editing

Validation Status: Passed with Possible Errors

1 2 3 4 5 Additional Info

(IMPORTANT: Read instructions before completing form; type or use fill-and-print form)

Form Approved OMB Number: 2025-0009

Approval Expires:

Page 1 of 5

EPA United States Environmental Protection Agency		FORM R Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.		TRI Facility ID Number 99352SDPRTPOBOX	
WHERE TO SEND COMPLETED FORMS:		1. TRI Data Processing Center P.O. Box 10163 Fairfax, VA 22038 *** Draft Form Only: Do Not Submit to EPA ***		2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)	
This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:		Revision (Enter up to two code(s)) [][]		Withdrawal (Enter up to two code(s)) [][]	
Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.					
Part I. FACILITY IDENTIFICATION INFORMATION					
SECTION 1. REPORTING YEAR : 2013					
SECTION 2. TRADE SECRET INFORMATION					
2.1 Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer questions 2.2; attach substantiation forms) <input checked="" type="checkbox"/> NO (Do not answer 2.2; go to Section 3)			2.2 Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "Yes" in 2.1)		
SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)					
I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.					
Name and official title of owner/operator or senior management official: Draft Form Only: Do Not Submit to EPA			Signature: Draft Form Only: Do Not Submit to EPA		Date Signed: XX/XX/XXXX
SECTION 4. FACILITY IDENTIFICATION					
4.1		TRI Facility ID Number		99352SDPRTPOBOX	
Facility or Establishment Name U.S. DOE HANFORD SITE					
Street 825 JADWIN AVE			Mailing Address (if different from physical street address) POST OFFICE BOX 550		
City/County/Tribe/State/ZIP Code RICHLAND / Benton / BIA Code: / WA / 99352			City/State/ZIP Code RICHLAND / WA / 99352		Country (Non-US)
4.2 This report contains information for : (Important: check a or b; check c or d if applicable)		a. <input checked="" type="checkbox"/> An Entire facility		b. <input type="checkbox"/> Part of a facility	
		c. <input checked="" type="checkbox"/> A Federal facility		d. <input type="checkbox"/> GOCO	
4.3 Technical Contact name		DALE E. JACKSON		Email Address DALE.JACKSON@RL.DOE.GOV	
				Telephone Number (include area code) 5093768086	
4.4 Public Contact name		DALE E. JACKSON		Email Address DALE.JACKSON@RL.DOE.GOV	
				Telephone Number (include area code) 5093768086	
4.5 NAICS Code(s) (6 digits)		a. 924110 (Primary)		b. c. d. e. f.	
4.6		Dun and Bradstreet Number(s) (9 digits)			
		a. NA			
		b.			
SECTION 5. PARENT COMPANY INFORMATION					
5.1 Name of U.S. Parent Company (for TRI Reporting purposes)		US DEPARTMENT OF ENERGY			No U.S. Parent Company (for TRI Reporting purposes) <input type="checkbox"/>
5.2 Parent Company's Dun & Bradstreet Number		NA <input checked="" type="checkbox"/>			

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1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION		TRI Facility ID Number			
		99352SDPRTPOBOX			
		Toxic Chemical, Category, or Generic Name			
		Propylene			
SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you are reporting a mixture component in Section 2 below.)					
1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)				
	115071				
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)				
	Propylene				
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.)				
	NA				
SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)					
2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)				
	NA				
SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.)					
3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
	a. <input type="checkbox"/> Produce b. <input type="checkbox"/> Import				
	If produce or import: c. <input type="checkbox"/> For on-site use/processing d. <input type="checkbox"/> For sale/distribution e. <input type="checkbox"/> As a byproduct f. <input type="checkbox"/> As an impurity		a. <input type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity		a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input checked="" type="checkbox"/> Ancillary or other use
SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR					
4.1	[04] (Enter two-digit code from instruction package.)				
SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE					
			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (Enter code)	C. Percent from Stormwater
5.1	Fugitive or non-point air emissions	NA <input type="checkbox"/>	50	E1	
5.2	Stack or point air emissions	NA <input checked="" type="checkbox"/>			
5.3	Discharges to receiving streams or water bodies (Enter one name per box)	NA <input checked="" type="checkbox"/>			
	Stream or Water Body Name				
5.3.1	NA				

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 po

1 2 3 4 5 [Additional Info](#)

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)		TRI Facility ID Number		
		99352SDPRTPOBOX		
		Toxic Chemical, Category, or Generic Name		
		Propylene		
SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE (Continued)				
		NA	A. Total Release (pounds/year*) (Enter range code** or estimate)	B. Basis of Estimate (Enter code)
5.4.1	Underground Injection on-site to Class I wells	[X]		
5.4.2	Underground Injection on-site to Class II-V wells	[X]		
5.5	Disposal to land on-site			
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
5.5.3.A	RCRA Subtitle C surface impoundments	[X]		
5.5.3.B	Other surface impoundments	[X]		
5.5.4	Other disposal	[X]		
SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS				
6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)		NA [X]		

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pound

1 2 3 4 5 Additional Info

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)						TRI Facility ID Number 99352SDPRTPOBOX	
						Toxic Chemical, Category, or Generic Name Propylene	
6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS						NA <input checked="" type="checkbox"/>	
6.2.1 Off-Site EPA Identification Number (RCRA ID No.)							
Off-Site Location Name:						NA	
Off-Site Address:							
City		County		State		Zip	
Is location under control of reporting facility or parent company?						<input type="checkbox"/> Yes <input type="checkbox"/> No	
A. Total Transfer (pounds/year*) (Enter range code** or estimate)			B. Basis of Estimate (Enter code)		C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)		
SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY							
<input checked="" type="checkbox"/> Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.							
a. General Waste Stream (Enter code)		b. Waste Treatment Method(s) Sequence (Enter 3- or 4-character code(s))			c. Waste Treatment Efficiency (Enter 2 character code)		

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)		TRI Facility ID Number			
		99352SDPRTPOBOX			
		Toxic Chemical, Category, or Generic Name			
		Propylene			
SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES					
[X] NA - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.					
Energy Recovery Methods [Enter 3-character code(s)]					
SECTION 7C. ON-SITE RECYCLING PROCESSES					
[X] NA - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.					
Recycling Methods [Enter 3-character code(s)]					
SECTION 8. DISPOSAL OR OTHER RELEASES, SOURCE REDUCTION, AND RECYCLING ACTIVITIES					
		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	50	50	50	50
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	NA	NA	NA	NA
8.2	Quantity used for energy recovery on-site	NA	NA	NA	NA
8.3	Quantity used for energy recovery off-site	NA	NA	NA	NA
8.4	Quantity recycled on-site	NA	NA	NA	NA
8.5	Quantity recycled off-site	NA	NA	NA	NA
8.6	Quantity treated on-site	NA	NA	NA	NA
8.7	Quantity treated off-site	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			NA	
8.9	Production ratio or activity index			1	
8.10	Did your facility engage in any newly implemented source reduction activities for this chemical during the reporting year? If so, complete the following section; if not, check NA.			NA [X]	
	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			
8.10.1	NA				

EPA Form 9350-1 (Rev.) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

[1](#) [2](#) [3](#) [4](#) [5](#) [Additional Info](#)

TRI Facility ID Number
99352SDPRTPOBOX
Toxic Chemical, Category, or Generic Name
Propylene

Additional optional information on source reduction, recycling, or pollution control activities.

Miscellaneous, additional, or optional information regarding the Form R submission
No comment.

APPENDIX A:
REPORTING CODES AND DEFINITIONS

Section 4. Maximum Amount of the Toxic Chemical On-Site at Any Time During the Calendar Year

Code	Range (pounds)
01	0 - 99
02	100 - 999
03	1,000 - 9,999
04	10,000 - 99,999
05	100,000 - 999,999
06	1,000,000 - 9,999,999
07	10,000,000 - 49,999,999
08	50,000,000 - 99,999,999
09	100,000,000 - 499,999,999
10	500,000,000 - 999,999,999
11	1 billion - over 1 billion

Section 5. Quantity of the Toxic Chemical Entering Each Environmental Medium Onsite and Section 6. Transfers of the Toxic Chemical in Wastes to Off-Site Locations

Releases of Less Than 1,000 Pounds

Code	Range (pounds)
A	1 - 10
B	11 - 499
C	500 - 999

Basis of Estimate Codes

Code	Description
M1	Estimate is based on continuous monitoring data or measurements for the EPCRA Section 313 chemical as transferred to an off-site facility.
M2	Estimate is based on periodic or random monitoring data or measurements for the EPCRA Section 313 chemical as transferred to an off-site facility.
C	Estimate is based on mass balance calculations, such as calculation of the amount of the EPCRA Section 313 chemical in waste streams entering and leaving process equipment.
E1	Estimate is based on published emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors).
E2	Estimate is based on site-specific emission factors, such as those relating release quantity to through-put or equipment type (e.g., air emission factors).
O	Estimate is based on other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgment.

Section 6. Transfers of the Toxic Chemical in Wastes to Off-Site Locations

Types of Waste Disposal/Treatment/Energy Recovery/Recycling

Code	Description
M10	Storage Only
M20	Solvents/Organics Recovery
M24	Metals Recovery
M26	Other Reuse or Recovery
M28	Acid Regeneration
M40	Solidification/Stabilization
M41	Solidification/Stabilization-Metals and Metal Category Compounds only

M50	Incineration/Thermal Treatment
M54	Incineration/Insignificant Fuel Value
M56	Energy Recovery
M61	Wastewater Treatment (Excluding POTW)
M62	Wastewater Treatment (Excluding POTW) - Metals and Metal Category Compounds only
M64	Other Landfills
M65	RCRA Subtitle C Landfills
M66	Subtitle C Surface Impoundment
M67	Other Surface Impoundments
M69	Other Waste Treatment
M73	Land Treatment
M79	Other Land Disposal
M81	Underground Injection to Class I Wells
M82	Underground Injection to Class II-V Wells
M90	Other Off-Site Management
M92	Transfer to Waste Broker - Energy Recovery
M93	Transfer to Waste Broker - Recycling
M94	Transfer to Waste Broker - Disposal
M95	Transfer to Waste Broker - Waste Treatment
M99	Unknown

Section 7A. On-Site Waste Treatment Methods and Efficiency

Types of General Waste Streams

Code	Description
A	Gaseous (gases, vapors, airborne particulates)
W	Wastewater (aqueous waste)
L	Liquid waste streams (non-aqueous waste)
S	Solid waste streams (including sludges and slurries)

Waste Treatment Efficiency Range Codes

Code	Description
E1	Greater than 99.9999 %
E2	Greater than 99.99%, but less than 99.9999 %
E3	Greater than 99%, but less than 99.99 %
E4	Greater than 95%, but less than 99 %
E5	Greater than 50%, but less than 95 %
E6	Equal or greater than 0%, but less than or equal to 50%

Waste Treatment Methods- Air Emissions Treatment

Code	Description
A01	Flare
A02	Condenser
A03	Scrubber
A04	Absorber
A05	Electrostatic Precipitator
A06	Mechanical separation
A07	Other Air Emission Treatment

Waste Treatment Methods- Chemical Treatment

Code	Description
H040	Incineration – thermal destruction other than use as a fuel
H071	Chemical reduction with or without precipitation
H073	Cyanide destruction with or without precipitation
H075	Chemical oxidation
H076	Wet air oxidation
H077	Other chemical precipitation with or without pre-treatment

Waste Treatment Methods- Biological Treatment

Code	Description
H081	Biological treatment with or without precipitation

Waste Treatment Methods- Physical Treatment

Code	Description
H082	Adsorption
H083	Air or steam stripping
H101	Sludge treatment and/or dewatering
H103	Absorption
H111	Stabilization or chemical fixation prior to disposal
H112	Macro-encapsulation prior to disposal
H121	Neutralization
H122	Evaporation
H123	Settling or clarification
H124	Phase separation
H129	Other treatment

DISTRIBUTION

All offsite/onsite distribution will be made electronically unless otherwise noted.

Offsite Recipients (submitted electronically using EPA's Central Data Exchange)

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State of Washington, Department of Ecology

Onsite Recipients

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