Toxics Reduction Public Summary Report

acility In	formation		
	Company Name	Terra International (Canada) Inc.	
	Facility Name	CF Industries Courtright Nitrogen Complex	
	Facility Physical Address	161 Bickford Line, Courtright, ON, Canada, N0N 1H0	
	Facility Mailing Address	Same as physical address	
	Spatial Coordinates of Facility	381104 Easting; 4735453 Northing	
	Number of Employees	210	
	NPRI ID	2233	
	2 Digit NAICS Code	31-33	e .
	4 Digit NAICS Code	3253	
	6 Digit NAICS Code	325313	
arent Co	mpany Information		
	Parent Company Name	CF Industries Holdings Inc.	
	Address	Suite 400 - 4 Parkway North, Deerfield, IL, USA, 60015-2590	
	Percent Ownership (if available)	100.00%	
acility Co	ontact		
-	Public Contact	Luke Kittmer	
	Position	EH&S Manager	
	Address	161 Bickford Line, Courtright, ON, Canada, N0N 1H0	
	email	LKittmer@cfindustries.com	
	Phone	519-867-2739 x1925	
	Fax	519-867-3173	2
Date of Sur	nmary		
	Reporting Year	2018	
	Summary Date	June 1, 2019	

Toxics Substances Reported

Copper, Cobalt, Sulphuric Acid, Zinc, Nickel, Asbestos, Chromium (VI), Ammonia, Nitrate Ion, Nitric Acid, PM10, PM2.5, CO, NOx, Hexane, Propane, Butane and Pentane

Toxics substances reported in 2017RY that did not meet the reporting threshold in 2018RY:

None

Copy of Certification:

As of June 1, 2019, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

The original version of this report is signed off by:

Highest Ranking Employee: Amanda Pascavage Title: Plant Manager Signature:

Information and Plan Objective				
Substance Name		TS COMPOUNDS)		
CAS #		nber applies to this su	ubstance	
Report Date:	June 1, 2019			
Plan Date:	15-Dec-12			
Plan Objectives and Targets	the use of copper, we will continue environmental regu we will continue	s Courtright Nitrogen the plan was develop to operate in full com llations; and to manage and preve prevention and best	ed with the followin pliance with all app ent releases of copp	g objectives: licable per through current
stance Accounting and Comparison Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes	Deita	Della /0
U - Enters the Process (Raw Materials)	>0 to 1	>10 to 100	>10 to 100	631463%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-5%
Summary of reasons for changes between current year and previous year.	Catalyst changeou	t in 2018		
On-site releases from the facility to air, wa		ell as on and off-sit	e disposal and off	-site recycling ca
be viewed by searching for this facility at n Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken.	calendar year to		sp?lang=en	
n Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox	calendar year to ics reductions ne previous summary of the	a/inrp-npri/default.a	sp?lang=en	
n Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a st	calendar year to ics reductions ne previous summary of the sult of those actions.	a/inrp-npri/default.a	sp?lang=en	

Substance Name	ZINC (AND ITS C			
CAS #		ber applies to this su	ubstance	
Report Date:	June 1, 2019			
Plan Date:	15-Dec-12			
Plan Objectives and Targets	the use of zinc, the we will continue t environmental regu we will continue t	Courtright Nitrogen plan was developed o operate in full com ations; and o manage and preve prevention and best	with the following of pliance with all app ent releases of zinc	bjectives: licable through current
stance Accounting and Comparison	2017	2048	Dalta	Dalta %
Pathways	2017	2018	Delta	Delta %
Units reported U - Enters the Process (Raw Materials)	tonnes >0 to 1	tonnes >10 to 100	>10 to 100	12791%
C - Created	0 10 1	0	#N/A	12791% NA
P - In a product that leaves the process	>0 to 1	>0 to 1	#IN/A >0 to -1	-4%
Summary of reasons for changes between current year and previous year.	Catalyst changeout			
On-site releases from the facility to air, wa be viewed by searching for this facility at I				site recycling o
Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken.		Not Applicable		
Summary of steps taken during the previous o implement the plan and a summary of the tox	ics reductions ne previous summary of the sult of those actions.	Not Applicable Not Applicable Not Applicable		
Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a sisteps and toxics reductions achieved as a resister summary of differences between steps taken	ics reductions ne previous summary of the sult of those actions. and those set out	Not Applicable		

Substance Name		S COMPOUNDS E		
CAS #		nber applies to this s		ANDONTE)
Report Date:	June 1, 2019	inter applies to this s	ubstance	
Plan Date:	1-Dec-14			
Than Date.	1-000-14			
Plan Objectives and Targets	the use of nickel, th we will continue environmental regunation we will continue	s Courtright Nitrogen ne plan was develope to operate in full con llations; and to manage and prev n prevention and best	ed with the following npliance with all app ent releases of nick	objectives: licable el through currer
stance Accounting and Comparison Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes	Deita	Deita %
U - Enters the Process (Raw Materials)	>0 to 1	>1 to 10	>1 to 10	30202%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-5%
Summary of reasons for changes between current year and previous year.	Catalyst changeou	t in 2018		
On-site releases from the facility to air, w be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the top achieved as a result of the steps taken.	http://www.ec.gc.ca			-site recycling c
be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the top	http://www.ec.gc.ca calendar year to xics reductions the previous summary of the	a/inrp-npri/default.a		-site recycling o
be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a	http://www.ec.gc.ca calendar year to kics reductions the previous summary of the sult of those actions.	a/inrp-npri/default.a		-site recycling c

	Substance Name	SULPHURIC ACID			
(CAS #	7664-93-9			
F	Report Date:	June 1, 2019			
	Plan Date:	15-Dec-12			
F	Plan Objectives and Targets	sulphuric acid, our	goal is to further min tinuous improvemen	does not intend to re imize the potential fo ts and our commitme	or sulphuric acid
	tance Accounting and Comparison				
	Pathways	2017	2018	Delta	Delta %
	Units reported	tonnes	tonnes		
	U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-14%
	C - Created P - In a product that leaves the process	0	0	#N/A #N/A	NA NA
	Summary of reasons for changes between current year and previous year.	Decrease in purcha	used amount		
Ĺ	On-site releases from the facility to air, wa	ter and land, as w	ell as on and off-sit	e disposal and off-	site recycling ca
t ress in I s iii	On-site releases from the facility to air, wa be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi achieved as a result of the steps taken.	http://www.ec.gc.ca			site recycling ca
t ress in I s iii a s c	be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi	alendar year to cs reductions e previous ummary of the	ı/inrp-npri/default.a		site recycling ca
t ress in I ii ii a s c s s s	be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a s	alendar year to cs reductions e previous ummary of the ult of those actions.	n/inrp-npri/default.a		site recycling c

Substance Name	PM10			
CAS #	No single CAS nun	nber applies to this s	ubstance	
Report Date:	June 1, 2019			
Plan Date:	15-Dec-13			
Plan Objectives and Targets	the creation of part objectives: we will continue environmental regu we will continue	iculate matter, the pl to operate in full cor lations; and to manage and prev	Complex does not i an was developed w npliance with all appl rent releases of partic vention and best ma	ith the followir licable culate matter
stance Accounting and Comparison				
Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-30%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in produc	ction		
On-site releases from the facility to air, be viewed by searching for this facility a				site recycling
Implementing Plan				
Implementing Plan Summary of steps taken during the previou implement the plan and a summary of the to achieved as a result of the steps taken.		Not Applicable		
Summary of steps taken during the previou implement the plan and a summary of the t	oxics reductions the previous a summary of the	Not Applicable Not Applicable		
Summary of steps taken during the previou implement the plan and a summary of the tr achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	oxics reductions I the previous a summary of the result of those actions.			

Substance Name	PM2.5			
CAS #	No single CAS nun	nber applies to this s	ubstance	
Report Date:	June 1, 2019			
Plan Date:	15-Dec-13			
Plan Objectives and Targets	the creation of part objectives: we will continue environmental regu we will continue	iculate matter, the p to operate in full cor ilations; and to manage and prev	n Complex does not i lan was developed w npliance with all appl vent releases of partic vention and best ma	ith the followir licable culate matter
stance Accounting and Comparison				
Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-30%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in produc			
On-site releases from the facility to air, w be viewed by searching for this facility a				site recycline
Implementing Plan	t http://www.ec.gc.ca	a/inrp-npri/default.a		
	s calendar year to	a/inrp-npri/default.a		
Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to	s calendar year to oxics reductions the previous			
Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	s calendar year to oxics reductions the previous summary of the esult of those actions.	Not Applicable		

Quile at a result of the second				
Substance Name	CO			
CAS #	630-08-0			
Report Date:	June 1, 2019			
Plan Date:	15-Dec-13			
Plan Objectives and Targets	the creation of carb objectives: • we will continue to environmental regu • we will continue to	s Courtright Nitrogen ion monoxide, the pla o operate in full comp lations; and o manage and prever d future pollution prev	an was developed w liance with all applic nt releases of carbor	ith the following cable n monoxide
stance Accounting and Comparison				
Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>100 to 1000	>100 to 1000	> -1 to -10	-6%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between				
current year and previous year.	Decrease in produc			
current year and previous year. On-site releases from the facility to air, v be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous	vater and land, as we t http://www.ec.gc.ca	ell as on and off-sit a/inrp-npri/default.a		-site recycling
current year and previous year. On-site releases from the facility to air, v be viewed by searching for this facility and Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken.	vater and land, as we t http://www.ec.gc.ca s calendar year to pxics reductions	ell as on and off-sit		site recycling
current year and previous year. On-site releases from the facility to air, v be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to	vater and land, as we t http://www.ec.gc.ca s calendar year to oxics reductions the previous summary of the	ell as on and off-sit a/inrp-npri/default.a		site recycling
current year and previous year. On-site releases from the facility to air, v be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	vater and land, as we t http://www.ec.gc.ca s calendar year to oxics reductions the previous summary of the esult of those actions.	ell as on and off-sit a/inrp-npri/default.a Not Applicable		-site recycling

Substance Name	NOx			
Substance Name CAS #				
	11104-93-1			
Report Date:	June 1, 2019			
Plan Date:	15-Dec-13			
Plan Objectives and Targets	the creation of nitro objectives: we will continue environmental regu we will continue	gen oxides, the plan to operate in full con lations; and to manage and prev	Complex does not ir was developed with pliance with all appli ent releases of nitrog vention and best mar	the following cable jen oxides
stance Accounting and Comparison		0040	Dalta	Dalta 0/
Pathways Units reported	2017	2018	Delta	Delta %
U - Enters the Process (Raw Materials)	tonnes 0	tonnes 0	#N/A	NIA
C - Created	>100 to 1000	>100 to 1000	> -10 to -100	NA -11%
P - In a product that leaves the process	0	0	#N/A	-11% NA
Summary of reasons for changes between current year and previous year.	Decrease in produc			ite ve evelier
On-site releases from the facility to air, we be viewed by searching for this facility at Implementing Plan				site recyclinę
be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox	http://www.ec.gc.ca			
be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous	http://www.ec.gc.ca calendar year to ics reductions he previous summary of the	ı/inrp-npri/default.a		
be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during th calendar year that impacted the toxic, and a s	http://www.ec.gc.ca calendar year to ics reductions he previous summary of the sult of those actions.	/inrp-npri/default.a		

	Information and Plan Objective Substance Name	n-hexane			
	CAS #	110-54-3			
	Report Date:	June 1, 2019			
	Plan Date:	15-Dec-13			
		While CF Industries	s Courtright Nitrogen xane, the plan was d		
	Plan Objectives and Targets	 we will continue to environmental regu we will continue to 	o operate in full com	pliance with all appl nt releases of n-he	icable kane through
	stance Accounting and Comparison	1			
	Pathways	2017	2018	Delta	Delta %
	Units reported	tonnes	tonnes		
	U - Enters the Process (Raw Materials)	0	0	#N/A	NA
	C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
	P - In a product that leaves the process	0	0	#N/A	NA
	Summary of reasons for changes between current year and previous year.	Decrease in natura	0 0		
	, ,	ater and land, as we	ell as on and off-si		f-site recycling ca
ess in	current year and previous year. On-site releases from the facility to air, wa be viewed by searching for this facility at h	ater and land, as we http://www.ec.gc.ca calendar year to	ell as on and off-si		f-site recycling ca
ess in	current year and previous year. On-site releases from the facility to air, wa be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi	atter and land, as we http://www.ec.gc.ca calendar year to ics reductions he previous ummary of the	ell as on and off-si a/inrp-npri/default.a		f-site recycling ca
ess in	current year and previous year. On-site releases from the facility to air, wa be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi achieved as a result of the steps taken. Summary of additional actions taken during th calendar year that impacted the toxic, and a s	atter and land, as we http://www.ec.gc.ca calendar year to ics reductions he previous ummary of the ult of those actions.	ell as on and off-sir a/inrp-npri/default.a		f-site recycling ca

	Information and Plan Objective				
	Substance Name	propane			
	CAS #	74-98-6			
ſ	Report Date:	June 1, 2019			
	Plan Date:	15-Dec-13			
	Plan Objectives and Targets	the creation of prop • we will continue to environmental regu • we will continue to	Courtright Nitrogen ane, the plan was de operate in full comp lations; and manage and preven prevention and best	eveloped with the fo pliance with all appli nt releases of propa	Ilowing objectives: cable ne through current
s Sub:	stance Accounting and Comparison				
	Pathways	2017	2018	Delta	Delta %
	Units reported	tonnes	tonnes		
	U - Enters the Process (Raw Materials)	0	0	#N/A	NA
L	C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
	P - In a product that leaves the process	0	0	#N/A	NA
	Summary of reasons for changes between current year and previous year.	Decrease in natura	gas usage		
	On-site releases from the facility to air, wa be viewed by searching for this facility at I Implementing Plan				-site recycling car
ess in	be viewed by searching for this facility at l	nttp://www.ec.gc.ca			-site recycling car
ress in	be viewed by searching for this facility at l Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox	nttp://www.ec.gc.ca calendar year to ics reductions ne previous cummary of the	/inrp-npri/default.a		-site recycling car
ress in	be viewed by searching for this facility at l Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during th calendar year that impacted the toxic, and a s	nttp://www.ec.gc.ca calendar year to ics reductions ne previous summary of the sult of those actions.	/inrp-npri/default.a		-site recycling car

Substance Name	BUTANE AND ALI	ITS ISOMERS		
CAS #	106-97-8			
Report Date:	June 1, 2019			
Plan Date:	15-Dec-13			
Plan Objectives and Targets	the creation of but • we will continue t environmental reg • we will continue t	s Courtright Nitroger ane, the plan was de o operate in full com ulations; and o manage and preve n prevention and bes	veloped with the fol pliance with all appl ent releases of butar	lowing objective licable ne through curre
stance Accounting and Comparison				
Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	#N/A	NA
	Decrease in natura	ممدونا وجم ال		
Summary of reasons for changes between current year and previous year. On-site releases from the facility to air, w be viewed by searching for this facility at		ell as on and off-si		f-site recycling
current year and previous year. On-site releases from the facility to air, w	vater and land, as w t http://www.ec.gc.c s calendar year to	ell as on and off-si		f-site recycling
current year and previous year. On-site releases from the facility to air, w be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to	vater and land, as w t http://www.ec.gc.c s calendar year to pxics reductions the previous summary of the	ell as on and off-si a/inrp-npri/default.a		f-site recycling
current year and previous year. On-site releases from the facility to air, w be viewed by searching for this facility at Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	vater and land, as w t http://www.ec.gc.c s calendar year to oxics reductions the previous summary of the esult of those actions.	ell as on and off-si a/inrp-npri/default.a		f-site recycling

Substance Name	Pentane and its is	omers			
CAS #	109-66-0				
Report Date:	June 1, 2019				
Plan Date:	15-Dec-13				
Plan Objectives and Targets	the creation of per • we will continue the environmental reg • we will continue the	 While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of pentane, the plan was developed with the following objective we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of pentane through curre and future pollution prevention and best management practices. 			
stance Accounting and Comparison					
Pathways	2017	2018	Delta	Delta %	
Units reported	tonnes	tonnes			
U - Enters the Process (Raw Materials)	0	0	#N/A	NA	
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%	
P - In a product that leaves the process	0	0	#N/A	NA	
Summary of reasons for changes between					
current year and previous year.	Decrease in natura	0 0			
current year and previous year. On-site releases from the facility to air, v be viewed by searching for this facility a Implementing Plan	water and land, as w	vell as on and off-sit		site recycling	
On-site releases from the facility to air, v be viewed by searching for this facility a	water and land, as w t http://www.ec.gc.c s calendar year to	vell as on and off-sit		f-site recycling	
On-site releases from the facility to air, w be viewed by searching for this facility a Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to	water and land, as w t http://www.ec.gc.c s calendar year to oxics reductions the previous a summary of the	/ell as on and off-sit a/inrp-npri/default.a		f-site recycling	
On-site releases from the facility to air, w be viewed by searching for this facility a Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	water and land, as w t http://www.ec.gc.c s calendar year to oxics reductions the previous a summary of the esult of those actions.	vell as on and off-sit a/inrp-npri/default.a		-site recycling	

Substance Name	Ammonia				
CAS #	7664-41-7				
Report Date:	June 1, 2019				
Plan Date:	15-Dec-13				
Plan Objectives and Targets	the use or creation objectives: • we will continue to environmental regu • we will continue to	 While CF Industries Courtright Nitrogen Complex does not intend to reduce the use or creation of ammonia, the plan was developed with the following objectives: we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of ammonia through current and future pollution prevention and best management practices. 			
stance Accounting and Comparison					
Pathways	2017	2018	Delta	Delta %	
Units reported	tonnes	tonnes			
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>1 to 10	29%	
	>100,000 to	>100,000 to			
C - Created	1,000,000	1,000,000	>-10,000 to -100,000	-10%	
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	>-10,000 to -100,000	-13%	
current year and previous year.	water brought on s	ite	I Change in effluent load	0.	
current year and previous year. On-site releases from the facility to air, y be viewed by searching for this facility a Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to	water brought on s water and land, as w at http://www.ec.gc.ca s calendar year to	ite rell as on and off-	site disposal and off-s	0.	
Summary of reasons for changes between current year and previous year. On-site releases from the facility to air, y be viewed by searching for this facility a Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a steps and toxics reductions achieved as a r	water brought on s water and land, as w at http://www.ec.gc.ca s calendar year to oxics reductions g the previous a summary of the result of those actions.	ite rell as on and off- a/inrp-npri/default	site disposal and off-s	0.	
current year and previous year. On-site releases from the facility to air, year be viewed by searching for this facility a Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the to achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and a	water brought on s water and land, as w at http://www.ec.gc.ca s calendar year to oxics reductions g the previous a summary of the result of those actions.	ite rell as on and off- a/inrp-npri/default Not Applicable	site disposal and off-s	0.	

Substance Name	Nitrate Ion				
CAS #	No single CAS num	nber applies to this s	ubstance		
Report Date:	June 1, 2019				
Plan Date:	15-Dec-13				
Plan Objectives and Targets	the use or creation objectives: we will continue environmental regu we will continue	While CF Industries Courtright Nitrogen Complex does not intend to reduce the use or creation of nitrate ion, the plan was developed with the following objectives: we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of nitrate ion through current and future pollution prevention and best management practices.			
stance Accounting and Comparison					
Pathways	2017	2018	Delta	Delta %	
Units reported	tonnes	tonnes		//	
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	5%	
C - Created	>10,000 to 100,000	>10,000 to 100,000		100/	
		>10,000 to 100,000	> -1000 to $-10,000$	-12%	
P - In a product that leaves the process Summary of reasons for changes between	>10,000 to 100,000 n Decrease in AN pro	>10,000 to 100,000	 > -1000 to -10,000 > -1000 to -10,000 in effluent loading of 	-12% -12% process wate	
P - In a product that leaves the process Summary of reasons for changes between current year and previous year. On-site releases from the facility to air be viewed by searching for this facility	>10,000 to 100,000 n Decrease in AN pro brought on site r, water and land, as w	>10,000 to 100,000 oduction and Change ell as on and off-sit	> -1000 to -10,000	-12% process wate	
P - In a product that leaves the process Summary of reasons for changes between current year and previous year. On-site releases from the facility to air	>10,000 to 100,000 n Decrease in AN probrought on site r, water and land, as we r at http://www.ec.gc.ca bus calendar year to	>10,000 to 100,000 oduction and Change ell as on and off-sit	> -1000 to -10,000	-12% process wate	
P - In a product that leaves the process Summary of reasons for changes between current year and previous year. On-site releases from the facility to air be viewed by searching for this facility Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the	>10,000 to 100,000 n Decrease in AN probrought on site r, water and land, as we r at http://www.ec.gc.ca bus calendar year to toxics reductions ng the previous d a summary of the	>10,000 to 100,000 oduction and Change ell as on and off-sit a/inrp-npri/default.a	> -1000 to -10,000	-12% process wate	
P - In a product that leaves the process Summary of reasons for changes between current year and previous year. On-site releases from the facility to air be viewed by searching for this facility Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the achieved as a result of the steps taken. Summary of additional actions taken during calendar year that impacted the toxic, and	>10,000 to 100,000 n Decrease in AN probrought on site c, water and land, as were at http://www.ec.gc.ca ous calendar year to toxics reductions n to toxics reductions n the previous a summary of the a result of those actions.	>10,000 to 100,000 oduction and Change ell as on and off-sit a/inrp-npri/default.a	> -1000 to -10,000	-12% process wate	

C	ormation and Plan Objective	Nitric Acid			
	AS #	7697-37-2			
-	port Date:	June 1, 2019			
	an Date:	15-Dec-13			
Fid	III Date.	10-Dec-13			
Pla	an Objectives and Targets	 While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of nitric acid, the plan was developed with the following objectives: we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of nitric acid through current and future pollution prevention and best management practices. 			
	nce Accounting and Comparison				
	thways	2017	2018	Delta	Delta %
	its reported	tonnes	tonnes		
U -	Enters the Process (Raw Materials)	0	0	#N/A	NA
C -	Created	>10,000 to 100,000	>10,000 to 100,000	>-10,000 to -100,000	-17%
P -	In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	> -1000 to -10,000	-12%
cur	mmary of reasons for changes between rrent year and previous year. n-site releases from the facility to air, wa		•	Decrease in nitric acid	
in Im Sur	viewed by searching for this facility at h plementing Plan mmary of steps taken during the previous of plement the plan and a summary of the toxi	alendar year to	n/inrp-npri/default.a	nsp?lang=en	
ach Sui	mmary of additional actions taken during the	e previous	Not Applicable		
ste	ps and toxics reductions achieved as a resimmary of differences between steps taken	ult of those actions.	Not Applicable		
	the plan.				

	CF Indust	ries Courtright	Nitrogen Comp	lex	
	Toxics R	eduction Public	Summary Repor	rt	
Substance Information a	nd Plan Obiective				
Substance Na		ASBESTOS (TOTAL)		
CAS #		1332-21-4			
Report Date:		June 1, 2019			
Plan Date:		15-Dec-12			
Plan Objectiv	es and Targets	 we will continue environmental regulation 	loped with the followi to operate in full com lations; and our ongoing program	pliance with all ap	
Toxics Substance Accou	inting and Comparison	2017	204.9	Dalta	Datta %
Pathways Units reported		tonnes	2018 tonnes	Delta	Delta %
	Process (Raw Materials)	0	0	#N/A	NA
C - Created	Tocess (Itaw Materials)	0	0	#N/A	NA
• • • • • • • •	t that leaves the process	0	0	#N/A	NA
Summary of r current year a	easons for changes between and previous year. ases from the facility to air, wa		ities approximately th	ne same	
be viewed b <u>ب</u> Progress in <u>Implementin</u>	y searching for this facility at H g Plan	nttp://www.ec.gc.ca	a/inrp-npri/default.as	sp?lang=en	
implement the	teps taken during the previous of plan and a summary of the toxi result of the steps taken.		Not Applicable		
calendar year	additional actions taken during th that impacted the toxic, and a s ics reductions achieved as a res	ummary of the	Not Applicable		
Summary of c in the plan.	lifferences between steps taken	and those set out	Not Applicable		

Not Applicable

Description of amendments to the plan.

Substance Name	CHROMIUM (VI) CO	MPOUNDS			
CAS #	No single CAS nun	nber applies to this su	bstance		
Report Date:	June 1, 2019				
Plan Date:	15-Dec-12				
Plan Objectives and Targets	 Plan Objectives While CF Industries Courtright Nitrogen Complex does not intend to reduce the use of hexavalent chromium, the plan was developed with the following objectives: we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of hexavalent chromium through current and future pollution prevention and best management practices. 				
stance Accounting and Comparison					
Pathways	2017	2018	Delta	Delta %	
Units reported	tonnes	kg			
U - Enters the Process (Raw Materials)	0	>100 to 1000	#N/A	NA	
C - Created	0	0	#N/A	NA	
P - In a product that leaves the process	0	0	#N/A	NA	
Summary of reasons for changes between current year and previous year.	Catalyst changeout	t im 2010			
On-site releases from the facility to air, wa be viewed by searching for this facility at l	ater and land, as w	ell as on and off-site		f-site recycling o	
On-site releases from the facility to air, wa	ater and land, as w	ell as on and off-site		f-site recycling o	
On-site releases from the facility to air, wa be viewed by searching for this facility at l	ater and land, as w http://www.ec.gc.ca calendar year to	ell as on and off-site		f-site recycling o	
On-site releases from the facility to air, wa be viewed by searching for this facility at I Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox	ater and land, as w http://www.ec.gc.ca calendar year to ics reductions ne previous summary of the	ell as on and off-site a/inrp-npri/default.as		f-site recycling o	
On-site releases from the facility to air, we be viewed by searching for this facility at I Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a s	ater and land, as w http://www.ec.gc.ca calendar year to ics reductions ne previous summary of the sult of those actions.	ell as on and off-site a/inrp-npri/default.as Not Applicable		f-site recycling (

Information and Plan Objective					
Substance Name	COBALT (AND ITS C	COMPOUNDS)			
CAS #	1332-21-4				
Report Date:	June 1, 2019				
Plan Date:	27-Nov-17				
Plan Objectives and Targets	While CF Industries Courtright Nitrogen Complex does not intend to reduce the creation of cobalt, the plan was developed with the following objectives: we will continue to operate in full compliance with all applicable environmental regulations; and we will continue to manage and prevent releases of nitric acid through current and future pollution prevention and best management practices.				
stance Accounting and Comparison Pathways	2017	2018	Delte	Delta %	
Units reported			Delta	Deita %	
U - Enters the Process (Raw Materials)	kg >0 to 1	kg >0 to 1	>0 to -1	-4%	
C - Created	0 10 1	0	#N/A	-4 78 NA	
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to -1	-4%	
Summary of reasons for changes between current year and previous year.	Decrease in natura	l gas usage			
On-site releases from the facility to air, wa				-site recycling c	
On-site releases from the facility to air, we be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi achieved as a result of the steps taken.	http://www.ec.gc.ca			-site recycling c	
be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi	http://www.ec.gc.ca calendar year to ics reductions ne previous summary of the	a/inrp-npri/default.a		-site recycling c	
be viewed by searching for this facility at h Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the toxi achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a s	http://www.ec.gc.ca calendar year to ics reductions ne previous summary of the sult of those actions.	a/inrp-npri/default.a		-site recycling c	