



National Pollutant Release Inventory (NPRI) and



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SWIM » 2016 » Virox Technologies Inc. » Virox Oakville » Report Preview

Report Preview

Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	29/05/2017 9:10 AM

Company and Facility Details

Company Name:	Virox Technologies Inc.
Business Number:	891115628
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 2770 Coventry Road City, Province/Territory, Postal Code: Oakville Ontario L6H6R1 Country: Canada
Facility Name:	Virox Oakville
NAICS Code:	325610
NPRI ID:	11799
Physical Address:	Address Line 1: 2770 Coventry Road City, Province/Territory, Postal Code: Oakville Ontario L6H6R1 Country: Canada Latitude: 43.50990 Longitude: -79.68110 UTM Zone: 17 UTM Easting: 606608 UTM Northing: 4818285

Contacts Details

Contact Type	Technical Contact, Contractor Contact, Person who prepared the report
Name:	Mark Cotter
Position:	Principal
Telephone:	4164718774
Email:	mcotter@cotterassociates.ca
Independent contractor/consultant company name:	Cotter Associates Ltd.
Contact Type	Certifying Official, Highest Ranking Employee, Public Contact, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Babak Givehchi
Position:	Vice President

Telephone:

9058130110

Email:

babak@virox.com

General Information

Number of employees:

40

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene:

None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):

Wood preservation using creosote: No

Is this the first time the facility is reporting to the NPRI (under current or past ownership):

No

Is the facility controlled by another Canadian company or companies:

No

Did the facility report under other environmental regulations or permits:

No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):

No

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 22	Phosphorus (total)	N/A	N/A	0.0720	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - 22	Phosphorus (total)	Yes	Yes		No

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
NA - 22	Phosphorus (total)	No	No	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
NA - 22	Phosphorus (total)	Yes	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 22	Phosphorus (total)		As a formulation component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 22	Phosphorus (total)	Use	43.779 tonnes	Yes
NA - 22	Phosphorus (total)	Creation	0.0 tonnes	No
NA - 22	Phosphorus (total)	Contained in Product	43.708 tonnes	Yes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
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CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
NA - 22	Phosphorus (total)					No

On-site Releases - Total

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
NA - 22	Phosphorus (total)	No significant change (i.e. < 10%) or no change	There was no release of the substance. There is no option here to say NOT APPLICABLE (since it is not the first year of reporting this substance). This option pops up and must be answered even though the previous entry on Facility Releases was checked as NO - there are no on-site releases. This needs to be fixed in the programming - it has been this illogical for many years.

Disposals - Off-site Transfers (excluding Tailings and Waste Rock)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 22	Phosphorus (total)	Municipal Sewage Treatment Plant	O - Engineering Estimates		0.072 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - Total

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
NA - 22	Phosphorus (total)	0.072 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - By Facilities

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 22	Phosphorus (total)	Municipal Sewage Treatment Plant	Halton Region Municipal Sewage Treatment Plant	1511 Bronte Rd., Oakville, ON, Canada	0.072 tonnes
NA - 22	Phosphorus (total)	Municipal Sewage Treatment Plant	Halton Region Municipal Sewage Treatment Plant	1511 Bronte Rd., Oakville, ON, Canada	

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 22	Phosphorus (total)	0.072 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
NA - 22	Phosphorus (total)	Production residues	Changes in production levels	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 22	Phosphorus (total)		No significant change (i.e. < 10%) or no change	Again, the Heading here is Recycling and one has to pick a reason for changes in the quantity recycled. There was no recycling of the substance. There is no option here to say NOT APPLICABLE (since it is not the first year of reporting this substance). This option pops up and must be answered even though the previous entry on Facility Recycling was checked as NO - there is no recycling of this substance. This needs to be fixed in the programming - it has been this illogical for many years.

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 22	Phosphorus (total)	No	Enters the facility (Use)	43.779 tonnes	41.835 tonnes	2015	1.944	4.65
NA - 22	Phosphorus (total)	No	Creation	0.0 tonnes	0.0 tonnes	2015	0.0	
NA - 22	Phosphorus (total)	No	Contained in Product	43.708 tonnes	41.779 tonnes	2015	1.929	4.62

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 22	Phosphorus (total)	Increase in production levels	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 22	Phosphorus (total)	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 22	Phosphorus (total)	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 22	Phosphorus (total)	No	Total Off-site transfer for treatment Prior to Final Disposal	0.072 tonnes	0.057 tonnes	2015	0.015	26.32
NA - 22	Phosphorus (total)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
NA - 22	Phosphorus (total)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 22	Phosphorus (total)	Other	Marginal reduction in amount discharged to sewer from waste treatment system.

Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

Did the facility complete any pollution prevention activities in the current NPRI reporting year

Yes

Pollution Prevention Activities

Category	Activity	Name and description of the other activity
Equipment or Process Modifications		
Good Operating Practice or Training		
Inventory Management or Purchasing Techniques		
Materials or feedstock substitution		
On-site Re-use, Recycling, or Recovery		
Other Pollution Prevention Activities		
Product Design or Reformulation	Changed product specifications	
Spill or Leak Prevention Activities		

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 22	Phosphorus (total)	Reduction in the use of phosphorus.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 22	Phosphorus (total)	6285 kg	5	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 22	Phosphorus (total)	No quantity target	No timeline target	

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
NA - 22	Phosphorus (total)	Changed product specifications	none	none	none	none

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
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Progress on TRA Plan - Reductions due to Options Implemented - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 22	Phosphorus (total)	Changed product specifications	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
NA - 22	Phosphorus (total)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 22	Phosphorus (total)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 22	Phosphorus (total)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
NA - 22	Phosphorus (total)	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence _____

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Virox Technologies Inc.

Certifying Official (or authorized delegate)

Babak Givehchi

Report Submitted by

Babak Givehchi

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 29/05/2017, I, Babak Givehchi, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN

Substance Name

NA - 22

Phosphorus (total)

Company Name

Virox Technologies Inc.

Highest Ranking Employee

Babak Givehchi

Report Submitted by

Babak Givehchi

Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	29/05/2017	Virox Oakville	Ontario	Oakville	NPRI,ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.11.4


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