



# National Pollutant Release Inventory (NPRI) and



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## Report Preview

### Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	30/05/2017 4:03 PM

### Company and Facility Details

Company Name:	Viasystems Toronto, Inc.
Business Number:	122456379
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 8150 Sheppard Avenue East City, Province/Territory, Postal Code: Toronto Ontario M1B5K2 Country: Canada
Facility Name:	Sheppard Facility
NAICS Code:	334410
NPRI ID:	11606
Physical Address:	Address Line 1: 8150 Sheppard Avenue East City, Province/Territory, Postal Code: Toronto Ontario M1B5K2 Country: Canada Latitude: 43.80339 Longitude: -79.19711 UTM Zone: 17 UTM Easting: 645022 UTM Northing: 4851615

### Parent Companies

Company Name:	Sheppard Facility
Mailing Address:	Address Line 1: City, Province/Territory, Postal Code: None Country: None

### Permits

Number or Permit Number:	8991-6N5LSA
Government Department, Agency, or Program Name:	Ministry of the Environment, Cert. of Air Approval
Number or Permit Number:	ON0761503
Government Department, Agency, or Program Name:	Ministry of the Environment, Regulation 347
Number or Permit Number:	539945

Government Department, Agency, or Program Name:

CEPA EIIHW Export Notice Number (2016 - 2017)

Number or Permit Number:

701067

Government Department, Agency, or Program Name:

CEPA EIIHW Export Notice Number (2017 - 2018)

## Contacts Details

Contact Type

Technical Contact, Certifying Official, Company Coordinator, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan, Public Contact

Name:

Mark Scruton

Position:

Dir. of EHSS of AMII

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Mark.Scruton@ttm.com

Contact Type

Highest Ranking Employee

Name:

Jon Pereira

Position:

VP Operations of AMII

Telephone:

4162082100

Email:

Jon.Pereira@ttm.com

Mailing Address:

Delivery Mode: GeneralDelivery  
Address Line 1: 8150 Sheppard Avenue East  
City, Province/Territory, Postal Code: Toronto Ontario M1B 5K2  
Country: Canada

## General Information

Number of employees:

550

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

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:

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:

Yes

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

No

General Comments for Facility:

PWB manufacturing

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 16	Ammonia (total)	17.9200	N/A	0.6223	23.3500	tonnes
NA - 06	Copper (and its compounds)	N/A	N/A	14.4259	113.4530	tonnes
50-00-0	Formaldehyde	0.0300	N/A	0.0420	N/A	tonnes
7647-01-0	Hydrochloric acid	0.8760	N/A	4.1410	54.6200	tonnes
NA - 08	Lead (and its compounds)	0.0190	N/A	9.1270	260.2620	kg

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
7697-37-2	Nitric acid	1.2580	N/A	17.1878	N/A	tonnes
7664-93-9	Sulphuric acid	0.0002	N/A	26.3200	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 - 16	Ammonia (total)	Yes	Yes		No
NA - 06	Copper (and its compounds)	Yes	Yes		No
50-00-0	Formaldehyde	Yes	Yes		No
7647-01-0	Hydrochloric acid	Yes	Yes		No
NA - 08	Lead (and its compounds)	Yes	Yes		No
7697-37-2	Nitric acid	Yes	Yes		No
7664-93-9	Sulphuric acid	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 - 16	Ammonia (total)	Yes	No	No
NA - 06	Copper (and its compounds)	No	No	No
50-00-0	Formaldehyde	Yes	Yes	No
7647-01-0	Hydrochloric acid	Yes	Yes	No
NA - 08	Lead (and its compounds)	Yes	No	No
7697-37-2	Nitric acid	Yes	No	No
7664-93-9	Sulphuric acid	Yes	Yes	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 - 16	Ammonia (total)	Yes	No	Yes
NA - 06	Copper (and its compounds)	Yes	No	Yes
50-00-0	Formaldehyde	Yes	No	No
7647-01-0	Hydrochloric acid	Yes	No	Yes
NA - 08	Lead (and its compounds)	Yes	No	Yes
7697-37-2	Nitric acid	Yes	No	No
7664-93-9	Sulphuric acid	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 - 16	Ammonia (total)		As a reactant	As a physical or chemical processing aid
NA - 06	Copper (and its compounds)		As a reactant As an article component	
50-00-0	Formaldehyde		As a reactant	As a physical or chemical processing aid
7647-01-0	Hydrochloric acid		As a reactant	As a physical or chemical processing aid
NA - 08	Lead (and its compounds)		As a reactant As an article component	
7697-37-2	Nitric acid		As a reactant	As a physical or chemical processing aid
7664-93-9	Sulphuric acid		As a reactant	As a physical or chemical processing aid

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 16	Ammonia (total)	Use	41.97 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 16	Ammonia (total)	Creation	0 tonnes	Yes
NA - 16	Ammonia (total)	Contained in Product	0 tonnes	Yes
NA - 06	Copper (and its compounds)	Use	159.637 tonnes	Yes
NA - 06	Copper (and its compounds)	Creation	0 tonnes	Yes
NA - 06	Copper (and its compounds)	Contained in Product	31.76 tonnes	Yes
50-00-0	Formaldehyde	Use	20.405 tonnes	Yes
50-00-0	Formaldehyde	Creation	0 tonnes	Yes
50-00-0	Formaldehyde	Contained in Product	0 tonnes	Yes
7647-01-0	Hydrochloric acid	Use	80.55 tonnes	Yes
7647-01-0	Hydrochloric acid	Creation	0 tonnes	Yes
7647-01-0	Hydrochloric acid	Contained in Product	0 tonnes	Yes
NA - 08	Lead (and its compounds)	Use	313.914 kg	Yes
NA - 08	Lead (and its compounds)	Creation	0 kg	Yes
NA - 08	Lead (and its compounds)	Contained in Product	44.506 kg	Yes
7697-37-2	Nitric acid	Use	27.79 tonnes	Yes
7697-37-2	Nitric acid	Creation	0 tonnes	Yes
7697-37-2	Nitric acid	Contained in Product	0 tonnes	Yes
7664-93-9	Sulphuric acid	Use	109.34 tonnes	Yes
7664-93-9	Sulphuric acid	Creation	0 tonnes	Yes
7664-93-9	Sulphuric acid	Contained in Product	0 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
NA - 16	Ammonia (total)					No
NA - 06	Copper (and its compounds)					No
50-00-0	Formaldehyde					No
7647-01-0	Hydrochloric acid					No
NA - 08	Lead (and its compounds)					No
7697-37-2	Nitric acid					No
7664-93-9	Sulphuric acid					No

## On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 16	Ammonia (total)	Stack or Point Releases	O - Engineering Estimates		17.92 tonnes
NA - 08	Lead (and its compounds)	Stack or Point Releases	O - Engineering Estimates		0.019 kg
7697-37-2	Nitric acid	Stack or Point Releases	O - Engineering Estimates		1.258 tonnes

## On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
NA - 16	Ammonia (total)	17.92 tonnes
NA - 08	Lead (and its compounds)	0.019 kg
7697-37-2	Nitric acid	1.258 tonnes

## Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
50-00-0	Formaldehyde	Total Quantity Released	O - Engineering Estimates		0.030 tonnes
7647-01-0	Hydrochloric acid	Total Quantity Released	O - Engineering Estimates		0.876 tonnes
7664-93-9	Sulphuric acid	Total Quantity Released	O - Engineering Estimates		0.0002 tonnes

## On-site Releases - Total

CAS RN	Substance Name	Total releases
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CAS RN	Substance Name	Total releases
NA - 16	Ammonia (total)	17.92 tonnes
NA - 08	Lead (and its compounds)	0.019 kg
7697-37-2	Nitric acid	1.258 tonnes

### On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
NA - 16	Ammonia (total)	25	25	25	25
50-00-0	Formaldehyde	25	25	25	25
7647-01-0	Hydrochloric acid	25	25	25	25
NA - 08	Lead (and its compounds)	25	25	25	25
7697-37-2	Nitric acid	25	25	25	25
7664-93-9	Sulphuric acid	25	25	25	25

### 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
50-00-0	Formaldehyde	No significant change (i.e. < 10%) or no change	
7647-01-0	Hydrochloric acid	No significant change (i.e. < 10%) or no change	
7664-93-9	Sulphuric acid	No significant change (i.e. < 10%) or no change	
7697-37-2	Nitric acid	No significant change (i.e. < 10%) or no change	
NA - 06	Copper (and its compounds)	Other (specify in On-site Releases comment field)	Copper not released to air
NA - 08	Lead (and its compounds)	Changes in production levels Other (specify in On-site Releases comment field)	less panels manufactured via HASL process
NA - 16	Ammonia (total)	No significant change (i.e. < 10%) or no change	

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 16	Ammonia (total)	Chemical Treatment	O - Engineering Estimates		0.4741 tonnes
NA - 16	Ammonia (total)	Municipal Sewage Treatment Plant	O - Engineering Estimates		0.1482 tonnes
NA - 06	Copper (and its compounds)	Chemical Treatment	O - Engineering Estimates		14.3279 tonnes
NA - 06	Copper (and its compounds)	Municipal Sewage Treatment Plant	O - Engineering Estimates		0.098 tonnes
50-00-0	Formaldehyde	Chemical Treatment	O - Engineering Estimates		0.008 tonnes
50-00-0	Formaldehyde	Municipal Sewage Treatment Plant	O - Engineering Estimates		0.034 tonnes
7647-01-0	Hydrochloric acid	Chemical Treatment	O - Engineering Estimates		4.141 tonnes
NA - 08	Lead (and its compounds)	Chemical Treatment	O - Engineering Estimates		7.840 kg
NA - 08	Lead (and its compounds)	Municipal Sewage Treatment Plant	O - Engineering Estimates		1.287 kg
7697-37-2	Nitric acid	Chemical Treatment	O - Engineering Estimates		17.1878 tonnes
7664-93-9	Sulphuric acid	Chemical Treatment	O - Engineering Estimates		26.32 tonnes

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

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
NA - 16	Ammonia (total)	0.6223 tonnes
NA - 06	Copper (and its compounds)	14.4259 tonnes
50-00-0	Formaldehyde	0.042 tonnes
7647-01-0	Hydrochloric acid	4.141 tonnes
NA - 08	Lead (and its compounds)	9.127 kg
7697-37-2	Nitric acid	17.1878 tonnes
7664-93-9	Sulphuric acid	26.32 tonnes

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

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
50-00-0	Formaldehyde	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	0.008 tonnes
50-00-0	Formaldehyde	Municipal Sewage Treatment Plant	Highland Creek Water Treatment Plant	1160 Highland Creek W., Toronto, ON, Canada	0.034 tonnes
7647-01-0	Hydrochloric acid	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	0.166 tonnes
7647-01-0	Hydrochloric acid	Chemical Treatment	Sure Horizon Environmental	40 Advance Blvd., Berampton, ON, L6T 4J4, Canada	3.975 tonnes
7664-93-9	Sulphuric acid	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	21.93 tonnes

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7664-93-9	Sulphuric acid	Chemical Treatment	Sure Horizon Environmental	40 Advance Blvd., Berampton, ON, L6T 4J4, Canada	4.39 tonnes
7697-37-2	Nitric acid	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	0.0828 tonnes
7697-37-2	Nitric acid	Chemical Treatment	Sure Horizon Environmental	40 Advance Blvd., Berampton, ON, L6T 4J4, Canada	17.1050 tonnes
NA - 06	Copper (and its compounds)	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	11.3928 tonnes
NA - 06	Copper (and its compounds)	Chemical Treatment	Sure Horizon Environmental	40 Advance Blvd., Berampton, ON, L6T 4J4, Canada	2.9351 tonnes
NA - 06	Copper (and its compounds)	Municipal Sewage Treatment Plant	Highland Creek Water Treatment Plant	1160 Highland Creek W., Toronto, ON, Canada	0.098 tonnes
NA - 08	Lead (and its compounds)	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	7.840 kg
NA - 08	Lead (and its compounds)	Chemical Treatment	Highland Creek Water Treatment Plant	1160 Highland Creek W., Toronto, ON, Canada	
NA - 08	Lead (and its compounds)	Municipal Sewage Treatment Plant	Highland Creek Water Treatment Plant	1160 Highland Creek W., Toronto, ON, Canada	1.287 kg
NA - 16	Ammonia (total)	Chemical Treatment	Detox Environmental Ltd.	322 Bennett, Bowmanville, ON, Canada	0.4009 tonnes
NA - 16	Ammonia (total)	Chemical Treatment	Sure Horizon Environmental	40 Advance Blvd., Berampton, ON, L6T 4J4, Canada	0.0732 tonnes
NA - 16	Ammonia (total)	Municipal Sewage Treatment Plant	Highland Creek Water Treatment Plant	1160 Highland Creek W., Toronto, ON, Canada	0.1482 tonnes

## Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 16	Ammonia (total)	0.6223 tonnes
NA - 06	Copper (and its compounds)	14.4259 tonnes
50-00-0	Formaldehyde	0.042 tonnes
7647-01-0	Hydrochloric acid	4.141 tonnes
NA - 08	Lead (and its compounds)	9.127 kg
7697-37-2	Nitric acid	17.1878 tonnes
7664-93-9	Sulphuric acid	26.32 tonnes

## Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
50-00-0	Formaldehyde	Contaminated materials	No significant change (i.e. < 10%) or no change	.03% Change from last year
7647-01-0	Hydrochloric acid	Contaminated materials	Other (specify in On-site Releases comment field)	20090 liters of Cupric chloride was shipped for disposal due to EC EIHW License issue
7664-93-9	Sulphuric acid	Contaminated materials	Other (specify in On-site Releases comment field)	Weekly Dump of Acid Copper bath solution from Plating Lines plus PAL 1 changed twice due to contamination issues. Only way determined successful in reducing TOC per process eng.
7697-37-2	Nitric acid	Contaminated materials	Other (specify in On-site Releases comment field)	New Solder Stripper has higher nitric concentration
NA - 06	Copper (and its compounds)	Production residues Contaminated materials Pollution abatement residues	Other (specify in On-site Releases comment field)	Treated more microetch in 2016 and Shipped out one load (20090 Liters) of Spent cupric to Sure Horizon,
NA - 08	Lead (and its compounds)	Contaminated materials Pollution abatement residues	Changes in production levels Other (specify in On-site Releases comment field)	Shipped out less Spent Flux and Contaminated Rags in 2016 vs 2015
NA - 16	Ammonia (total)	Contaminated materials	Other (specify in On-site Releases comment field)	Quantity disposed is small, therefore easy to exceed 10% change. Ammonia Salts is present in new Sn Stripper sent for disposal.

## Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 16	Ammonia (total)	Recovery of Inorganic Materials (not metals)	O - Engineering Estimates		23.35 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		113.453 tonnes
7647-01-0	Hydrochloric acid	Recovery of Inorganic Materials (not metals)	O - Engineering Estimates		54.62 tonnes
NA - 08	Lead (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		260.262 kg

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
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### Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 16	Ammonia (total)	23.35 tonnes
NA - 06	Copper (and its compounds)	113.453 tonnes
7647-01-0	Hydrochloric acid	54.62 tonnes
NA - 08	Lead (and its compounds)	260.262 kg

### Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7647-01-0	Hydrochloric acid	Recovery of Inorganic Materials (not metals)	Micronutrients	1550 Research Way, Indianapolis, IN, United States	54.62 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Reldan Metals, LLC	550 Old Bordentown Road, , Fairless Hills, PA, USA	27.383 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Micronutrients	1550 Research Way, Indianapolis, IN, United States	61.163 tonnes
NA - 06	Copper (and its compounds)	Recovery of Metals and Metal Compounds	Combined Metal Industries Inc.	505 B Garyray Dr., Weston, ON, Canada	24.907 tonnes
NA - 08	Lead (and its compounds)	Recovery of Metals and Metal Compounds	Combined Metal Industries Inc.	505 B Garyray Dr., Weston, ON, Canada	260.262 kg
NA - 16	Ammonia (total)	Recovery of Inorganic Materials (not metals)	Micronutrients	1550 Research Way, Indianapolis, IN, United States	23.35 tonnes

### Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
50-00-0	Formaldehyde		Other (specify in recycling comments field)	Formaldehyde not recycled
7647-01-0	Hydrochloric acid	Contaminated materials	Other (specify in recycling comments field)	20090 liters of Cupric chloride was shipped for disposal due to EC EIHW License issue
7664-93-9	Sulphuric acid		Other (specify in recycling comments field)	H2SO4 not being recycled
7697-37-2	Nitric acid		Other (specify in recycling comments field)	Nitric Acid is not recycled
NA - 06	Copper (and its compounds)	Production Residues Contaminated materials Unusable parts or discards Pollution abatement residues Machine or finishing residues	No significant change (i.e. < 10%) or no change	
NA - 08	Lead (and its compounds)	Off-specification products Contaminated materials Unusable parts or discards	Changes in production levels	
NA - 16	Ammonia (total)	Contaminated materials	No significant change (i.e. < 10%) or no change	

### 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 - 16	Ammonia (total)	No	Enters the facility (Use)	41.97 tonnes	42.07 tonnes	2015	-0.10	-0.24
NA - 16	Ammonia (total)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Enters the facility (Use)	159.637 tonnes	157.353 tonnes	2015	2.284	1.45
NA - 06	Copper (and its compounds)	No	Creation	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Contained in Product	31.76 tonnes	29.67 tonnes	2015	2.09	7.04
50-00-0	Formaldehyde	No	Enters the facility (Use)	20.405 tonnes	19.162 tonnes	2015	1.243	6.49
50-00-0	Formaldehyde	No	Creation	0 tonnes	0 tonnes	2015	0	
50-00-0	Formaldehyde	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
7647-01-0	Hydrochloric acid	No	Enters the facility (Use)	80.55 tonnes	74.23 tonnes	2015	6.32	8.51
7647-01-0	Hydrochloric acid	No	Creation	0 tonnes	0 tonnes	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7647-01-0	Hydrochloric acid	No	Contained in Product	0 tonnes	0 tonnes	2009	0	
NA - 08	Lead (and its compounds)	No	Enters the facility (Use)	313.914 kg	703.167 kg	2015	-389.253	-55.36
NA - 08	Lead (and its compounds)	No	Creation	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Contained in Product	44.506 kg	141.145 kg	2015	-96.639	-68.47
7697-37-2	Nitric acid	No	Enters the facility (Use)	27.79 tonnes	23.48 tonnes	2015	4.31	18.36
7697-37-2	Nitric acid	No	Creation	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Enters the facility (Use)	109.34 tonnes	112.48 tonnes	2015	-3.14	-2.79
7664-93-9	Sulphuric acid	No	Creation	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Contained in Product	0 tonnes	0 tonnes	2015	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 16	Ammonia (total)	No reasons - quantities approximately the same	
NA - 06	Copper (and its compounds)	No reasons - quantities approximately the same	
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
7647-01-0	Hydrochloric acid	Other	Used HCl Tech grade 32% tote in DI system, Did more DI regen in 2016 compared to 2015 due to additional processes connected to the inhouse DI system
NA - 08	Lead (and its compounds)	Decrease in production levels Other	Fewer Panels HASLed
7697-37-2	Nitric acid	Other	Bought more 50% Nitric acid due to increase concentration of Nitric acid nickel tank stripper (From 2- 25% + 1 - 50% mixture to 2 - 50% + 1 - 25% mixture) and new Sn stripper has higher concn in Nitric Acid.
7664-93-9	Sulphuric acid	Other	Used less acid regeneration due to improved IX regen efficiency.

### Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 16	Ammonia (total)	No	Total Releases to Air	17.92 tonnes	19.17 tonnes	2015	-1.25	-6.52
NA - 16	Ammonia (total)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Releases to All Media	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to Air	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to Water	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to Land	0 tonnes				
50-00-0	Formaldehyde	No	Total Releases to All Media	0.030 tonnes	0.03 tonnes	2015	0.000	0.0
7647-01-0	Hydrochloric acid	No	Total Releases to Air	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to Water	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to Land	0 tonnes				
7647-01-0	Hydrochloric acid	No	Total Releases to All Media	0.876 tonnes	0.88 tonnes	2015	-0.004	-0.45
NA - 08	Lead (and its compounds)	No	Total Releases to Air	0.019 kg	0.038 kg	2015	-0.019	-50.0
NA - 08	Lead (and its compounds)	No	Total Releases to Water	0 kg	0 kg	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 08	Lead (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Releases to All Media	0 kg				
7697-37-2	Nitric acid	No	Total Releases to Air	1.258 tonnes	1.245 tonnes	2015	0.013	1.04
7697-37-2	Nitric acid	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Total Releases to All Media	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Air	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Water	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to Land	0 tonnes				
7664-93-9	Sulphuric acid	No	Total Releases to All Media	0.0002 tonnes	0.0003 tonnes	2015	-0.0001	-33.33

### Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 16	Ammonia (total)	No reasons - quantities approximately the same	
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
7647-01-0	Hydrochloric acid	No reasons - quantities approximately the same	
NA - 08	Lead (and its compounds)	Decrease in production levels Other	Fewer Panels HASLed
7697-37-2	Nitric acid	No reasons - quantities approximately the same	
7664-93-9	Sulphuric acid	No reasons - quantities approximately the same	

### 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 - 16	Ammonia (total)	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Off-site transfer for treatment Prior to Final Disposal	0.6223 tonnes	0.516 tonnes	2015	0.1063	20.60
NA - 16	Ammonia (total)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
NA - 16	Ammonia (total)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	14.4259 tonnes	10.21 tonnes	2015	4.2159	41.29
NA - 06	Copper (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
NA - 06	Copper (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
50-00-0	Formaldehyde	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
50-00-0	Formaldehyde	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
50-00-0	Formaldehyde	No	Total Off-site transfer for treatment Prior to Final Disposal	0.042 tonnes	0.042 tonnes	2015	0.000	0
50-00-0	Formaldehyde	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
50-00-0	Formaldehyde	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
7647-01-0	Hydrochloric acid	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
7647-01-0	Hydrochloric acid	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
7647-01-0	Hydrochloric acid	No	Total Off-site transfer for treatment Prior to Final Disposal	4.141 tonnes	0.3252 tonnes	2015	3.8158	1173.37
7647-01-0	Hydrochloric acid	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7647-01-0	Hydrochloric acid	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
NA - 08	Lead (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Off-site Disposals	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	9.127 kg	17.406 kg	2015	-8.279	-47.56
NA - 08	Lead (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2015	0	
NA - 08	Lead (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2015	0	
7697-37-2	Nitric acid	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Total Off-site transfer for treatment Prior to Final Disposal	17.1878 tonnes	15.11 tonnes	2015	2.0778	13.75
7697-37-2	Nitric acid	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
7697-37-2	Nitric acid	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total On-site Disposals	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Off-site Disposals	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	No	Total Off-site transfer for treatment Prior to Final Disposal	26.32 tonnes	23.54 tonnes	2015	2.78	11.81
7664-93-9	Sulphuric acid	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2015	0	
7664-93-9	Sulphuric acid	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 - 16	Ammonia (total)	Other	Ammonia Salts present in new Sn Stripper sent out for disposal
NA - 06	Copper (and its compounds)	Other	Treated more micro etch in house, 20090 L of Cupric Etchant was sent out for disposal due to EC EIHW issue
50-00-0	Formaldehyde	No reasons - quantities approximately the same	
7647-01-0	Hydrochloric acid	Other	20090 liters of Cupric chloride was shipped for disposal due to EC EIHW License issue
NA - 08	Lead (and its compounds)	Decrease in production levels Other	Fewer panels HASLed. Shipped out less Flux and contaminated rags in 2016 vs 2015
7697-37-2	Nitric acid	Other	Bought more 50% Nitric acid due to increase concentration of Nitric acid nickel tank stripper (From 2- 25% + 1 - 50% mixture to 2 - 50% + 1 - 25% mixture) and new Sn stripper has higher concentration in Nitric Acid.
7664-93-9	Sulphuric acid	Other	Weekly Dump of Acid Copper bath solution from Plating Lines plus PAL 1 changed twice due to contamination issues. Only way determined successful in reducing TOC per process eng.

### Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 16	Ammonia (total)	No	Total off-site Transfers for Recycling	23.35 tonnes	22.36 tonnes	2015	0.99	4.43
NA - 06	Copper (and its compounds)	No	Total off-site Transfers for Recycling	113.453 tonnes	116.76 tonnes	2015	-3.307	-2.83
7647-01-0	Hydrochloric acid	No	Total off-site Transfers for Recycling	54.62 tonnes	58.51 tonnes	2015	-3.89	-6.65
NA - 08	Lead (and its compounds)	No	Total off-site Transfers for Recycling	260.262 kg	544.578 kg	2015	-284.316	-52.21

### Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 16	Ammonia (total)	No reasons - quantities approximately the same	
NA - 06	Copper (and its compounds)	Other	shipped one load of cupric for disposal due to EC EIHW issue

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7647-01-0	Hydrochloric acid	Other	20090 liters of Cupric chloride was shipped for disposal due to EC EIHW License issue
NA - 08	Lead (and its compounds)	Decrease in production levels Other	Fewer panels HASLed. 2015 = 77% recycled Vs. 2016 = 83% recycled

## Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Federal government department, province, municipality). Specify name in comments field below.

b) Did the facility update their plan in the current reporting year?

No

c) Does the plan address substances, energy conservation, or water conservation?

Substances

Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available)

We have an MOE TRA Plan and a City of Toronto P2 Plan

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	Modified stripping / cleaning devices	
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		
Spill or Leak Prevention Activities		

## Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 16	Ammonia (total)	Viasystems intends to reduce NH3 but additional research and testing is required prior to stating any commitment
NA - 06	Copper (and its compounds)	DDi has successfully implemented the toxic reduction option.
50-00-0	Formaldehyde	DDi intends to conduct further research to identify new reduction options
7647-01-0	Hydrochloric acid	DDi intends to reduce HCL but additional research and testing is required prior to the commitment.
NA - 08	Lead (and its compounds)	DDi intends to reduce the use of Lead in the HASL process.
7697-37-2	Nitric acid	Viasystems intends to reduce HNO3 but additional research and testing is required prior to any commitment
7664-93-9	Sulphuric acid	DDi intends to reduce H2SO4 but additional research and testing is required prior to the commitment

## Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 16	Ammonia (total)	No quantity target	No timeline target	
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
50-00-0	Formaldehyde	No quantity target	No timeline target	
7647-01-0	Hydrochloric acid	No quantity target	No timeline target	
NA - 08	Lead (and its compounds)	90.83 kg	2	Q4 2014
7697-37-2	Nitric acid	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	No quantity target	No timeline target	

## Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 16	Ammonia (total)	No quantity target	No timeline target	
NA - 06	Copper (and its compounds)	No quantity target	No timeline target	
50-00-0	Formaldehyde	No quantity target	No timeline target	

CAS RN	Substance Name	Quantity	Years	Description of Target
7647-01-0	Hydrochloric acid	No quantity target	No timeline target	
NA - 08	Lead (and its compounds)	No quantity target	No timeline target	
7697-37-2	Nitric acid	No quantity target	No timeline target	
7664-93-9	Sulphuric acid	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 - 16	Ammonia (total)	Other	No action taken	No action taken	No action taken	No action taken
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	No action taken	No action taken	No action taken	No action taken
7697-37-2	Nitric acid	Changed to aqueous cleaners	No action taken	No testing initiated	No action taken	No testing initiated
7697-37-2	Nitric acid	Initiated testing of outdated material	No action taken	No testing initiated	No action taken	No testing initiated
7697-37-2	Nitric acid	Instituted recirculation within a process	No action taken	No testing initiated	No action taken	No testing initiated
7697-37-2	Nitric acid	Other	No action taken	No testing initiated	No action taken	No testing initiated

### Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 08	Lead (and its compounds)	Modified equipment, layout or piping	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Changed to aqueous cleaners	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount



CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7697-37-2	Nitric acid	Other	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7697-37-2	Nitric acid	Other	The amount of reduction in the substance <b>recycled off-site</b> 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 - 16	Ammonia (total)	No		
NA - 06	Copper (and its compounds)	Yes	Replaced tin stripper with a new product that doesn't attack plated copper aggressively, thereby reducing the need to over-plate panels to compensate for this attack.	Modified process control of tin stripper, thereby saving copper from attack
50-00-0	Formaldehyde	No		
7647-01-0	Hydrochloric acid	No		
NA - 08	Lead (and its compounds)	No		
7697-37-2	Nitric acid	No		
7664-93-9	Sulphuric acid	No		

## Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 16	Ammonia (total)	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 16	Ammonia (total)	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
NA - 06	Copper (and its compounds)	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	No Amount
NA - 06	Copper (and its compounds)	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	No Amount



CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7697-37-2	Nitric acid	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7697-37-2	Nitric acid	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
7664-93-9	Sulphuric acid	The amount of reduction in the substance <b>recycled off-site</b> 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 - 16	Ammonia (total)	No		
NA - 06	Copper (and its compounds)	No		
50-00-0	Formaldehyde	No		
7647-01-0	Hydrochloric acid	No		
NA - 08	Lead (and its compounds)	No		
7697-37-2	Nitric acid	No		
7664-93-9	Sulphuric acid	No		

## Report Submission and Electronic Certification

### NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

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

Viasystems Toronto, Inc.

Certifying Official (or authorized delegate)

Mark Scruton

Report Submitted by

Jon Pereira

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 30/05/2017, I, Jon Pereira, 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 - 16	Ammonia (total)
NA - 06	Copper (and its compounds)
50-00-0	Formaldehyde
7647-01-0	Hydrochloric acid
NA - 08	Lead (and its compounds)
7697-37-2	Nitric acid
7664-93-9	Sulphuric acid

**Company Name**

Viasystems Toronto, Inc.

**Highest Ranking Employee**

Jon Pereira

**Report Submitted by**

Jon Pereira

**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	30/05/2017	Sheppard Facility	Ontario	Toronto	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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