

National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year

2020

Report Type:

NPRI,ON MECP TRA

Report Status:

Submitted

Modified Date/Time:

2021-09-30 12:00 PM

Company and Facility Details

Company Name:

Liberty Mines Inc

Business Number:

891339566

Mailing Address:

Delivery Mode: PostOfficeBox
PO Box: 5114
Address Line 1: Stringers Road
City: South Porcupine
Province/Territory: Ontario
Postal Code: P0N 1H0
Country: Canada

Facility Name:

Redstone Mine

NAICS Code:

212232

NPRI ID:

11514

Portable:

No

Physical Address:

Address Line 1: Stringers Road
City: South Porcupine
Province/Territory: Ontario
Postal Code: P0N 1H0
Country: Canada

Latitude: 48.3612
Longitude: -81.1166
UTM Zone: 17
UTM Easting: 488260
UTM Northing: 5351798

Permits

Number or Permit Number:

8008-77EH4D

Government Department, Agency, or Program Name:

Permit To Take Water

Number or Permit Number:

9134-78WL8G

Government Department, Agency, or Program Name:

Environmental Protection Act 560/94, MISA Certificate of Approval

Contacts Details

Contact Type	Technical Contact, Person who prepared the report
Name:	Lonny Michel
Position:	Health and Safety Superintendent
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Contact Type	Certifying Official, Highest Ranking Employee
Name:	Tim Daskotch
Position:	Site Manager
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Contact Type	Contractor Contact
Name:	Tanya Audet
Position:	Air Quality Specialist
Telephone:	7055246861
Email:	Tanya_Audet@golder.com
Independent contractor/consultant company name:	Golder Associates Ltd.

General Information

Number of employees:	21
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
Does this facility release less than the reporting threshold for each Part 4 substance AND have one or more light or medium crude oil batteries with a total oil throughput for the battery components of the facility of $\geq 1,900$ m ³ per year?	No
Did the facility operate one or more electricity generation units that had a capacity of 25 MW or more and that distributed or sold to the grid 33% or more of its potential electrical output in the calendar year?	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
Does this facility solely consist of compression equipment in the oil and gas extraction sector?	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	Yes
Was the facility shut down for more than one week during the year:	Yes
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri, Sat, Sun

Usual Number of Operating Hours per day:	24
Usual Daily Start Time (24h) (hh:mm):	07:00

Shutdown Periods:

From 2020-01-01 To 2020-11-30	
Will the shutdown period occur at or around the same time in future years?	No
Was the shutdown period a partial or complete shutdown?	Partial
Comments:	Care and maintenance
From 2020-12-12 To 2020-12-20	
Will the shutdown period occur at or around the same time in future years?	No
Was the shutdown period a partial or complete shutdown?	Partial
Comments:	Care and maintenance

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 02	Arsenic (and its compounds)	0.903547	N/A	10874.500000	N/A	kg
NA - 03	Cadmium (and its compounds)	0.003981	N/A	N/A	N/A	kg
NA - 05	Cobalt (and its compounds)	0.795583	N/A	192.395000	N/A	kg
NA - 08	Lead (and its compounds)	0.097578	N/A	N/A	N/A	kg
NA - 09	Manganese (and its compounds)	0.028948	N/A	14.722400	N/A	tonnes
NA - 10	Mercury (and its compounds)	N/A	N/A	N/A	N/A	kg
NA - M09	PM10 - Particulate Matter <= 10 Microns	5.094118	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	1.721185	N/A	N/A	N/A	tonnes
NA - 12	Selenium (and its compounds)	0.021196	N/A	N/A	N/A	kg
NA - M08	Total Particulate Matter	28.138597	N/A	N/A	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	First report for this substance to the ON MECP TRA
NA - 02	Arsenic (and its compounds)	Yes	Yes	No
NA - 03	Cadmium (and its compounds)	No	No	No
NA - 05	Cobalt (and its compounds)	Yes	Yes	No
NA - 08	Lead (and its compounds)	No	No	No
NA - 09	Manganese (and its compounds)	Yes		
NA - 10	Mercury (and its compounds)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes		
NA - 12	Selenium (and its compounds)	No	No	No
NA - M08	Total Particulate Matter	Yes		

TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
NA - 03	Cadmium (and its compounds)	The substance did not meet the criteria to provide information to NPRI	A different ore type was processed in 2020.	New assay data used.
NA - 08	Lead (and its compounds)	The substance did not meet the criteria to provide information to NPRI	A different ore type was processed in 2020.	New assay data used.
NA - 12	Selenium (and its compounds)	The substance did not meet the criteria to provide information to NPRI	A different ore type was processed in 2020.	New assay data was used.

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 - 02	Arsenic (and its compounds)	Yes	No	No
NA - 03	Cadmium (and its compounds)	Yes	No	No
NA - 05	Cobalt (and its compounds)	Yes	No	No
NA - 08	Lead (and its compounds)	Yes	No	No
NA - 09	Manganese (and its compounds)	Yes	No	No
NA - 10	Mercury (and its compounds)	No	No	No
NA - 12	Selenium (and its compounds)	Yes	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 - 02	Arsenic (and its compounds)	Yes	Yes	No
NA - 03	Cadmium (and its compounds)	No	No	No
NA - 05	Cobalt (and its compounds)	Yes	Yes	No
NA - 08	Lead (and its compounds)	No	No	No
NA - 09	Manganese (and its compounds)	Yes	Yes	No
NA - 10	Mercury (and its compounds)	No	No	No
NA - 12	Selenium (and its compounds)	No	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 - 02	Arsenic (and its compounds)		As a by-product	
NA - 03	Cadmium (and its compounds)		As a by-product	
NA - 05	Cobalt (and its compounds)		As a by-product	
NA - 08	Lead (and its compounds)		As a by-product	
NA - 09	Manganese (and its compounds)		As a by-product	
NA - 10	Mercury (and its compounds)		As a by-product	
NA - 12	Selenium (and its compounds)		As a by-product	

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Reason
NA - 09	Manganese (and its compounds)	Added	Met NPRI reporting threshold
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Added	Met NPRI reporting threshold
NA - 37	Thallium (and its compounds)	Removed	Decrease in production levels
NA - M08	Total Particulate Matter	Added	Met NPRI reporting threshold

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 02	Arsenic (and its compounds)	Use	27542.040000 kg	Yes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 02	Arsenic (and its compounds)	Creation	0 kg	Yes
NA - 02	Arsenic (and its compounds)	Contained in Product	16666.774129 kg	Yes
NA - 05	Cobalt (and its compounds)	Use	343.395000 kg	Yes
NA - 05	Cobalt (and its compounds)	Creation	0 kg	Yes
NA - 05	Cobalt (and its compounds)	Contained in Product	150.976753 kg	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	5.094117 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		

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	Reason for the significant process change
NA - 02	Arsenic (and its compounds)					No	
NA - 05	Cobalt (and its compounds)					No	
NA - M09	PM10 - Particulate Matter <= 10 Microns					No	

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 02	Arsenic (and its compounds)	Stack or Point Releases	E2 - Published Emission Factors		0.398632 kg
NA - 02	Arsenic (and its compounds)	Fugitive Releases	E2 - Published Emission Factors		0.234074 kg
NA - 03	Cadmium (and its compounds)	Fugitive Releases	E2 - Published Emission Factors		0.002686 kg
NA - 05	Cobalt (and its compounds)	Stack or Point Releases	E2 - Published Emission Factors		0.004975 kg
NA - 05	Cobalt (and its compounds)	Fugitive Releases	E2 - Published Emission Factors		0.773533 kg
NA - 08	Lead (and its compounds)	Fugitive Releases	E2 - Published Emission Factors		0.082270 kg
NA - 09	Manganese (and its compounds)	Stack or Point Releases	E2 - Published Emission Factors		0.000349 tonnes
NA - 09	Manganese (and its compounds)	Fugitive Releases	E2 - Published Emission Factors		0.028599 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	E2 - Published Emission Factors		0.068296 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Fugitive Releases	E2 - Published Emission Factors		2.142125 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Road Dust	E2 - Published Emission Factors		2.883697 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	E2 - Published Emission Factors		0.036028 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Fugitive Releases	E2 - Published Emission Factors		1.396787 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Road Dust	E2 - Published Emission Factors		0.288370 tonnes
NA - M08	Total Particulate Matter	Stack or Point Releases	E2 - Published Emission Factors		0.132016 tonnes
NA - M08	Total Particulate Matter	Fugitive Releases	E2 - Published Emission Factors		16.828259 tonnes
NA - M08	Total Particulate Matter	Road Dust	E2 - Published Emission Factors		11.178322 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
NA - 02	Arsenic (and its compounds)	0.632706 kg
NA - 03	Cadmium (and its compounds)	0.002686 kg
NA - 05	Cobalt (and its compounds)	0.778508 kg
NA - 08	Lead (and its compounds)	0.082270 kg
NA - 09	Manganese (and its compounds)	0.028948 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	5.094118 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	1.721185 tonnes
NA - M08	Total Particulate Matter	28.138597 tonnes

On-site Releases - Releases to water

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 02	Arsenic (and its compounds)	Direct Discharges	M3 - Source Testing		0.270841 kg
NA - 03	Cadmium (and its compounds)	Direct Discharges	M3 - Source Testing		0.001295 kg
NA - 05	Cobalt (and its compounds)	Direct Discharges	M3 - Source Testing		0.017075 kg
NA - 08	Lead (and its compounds)	Direct Discharges	M3 - Source Testing		0.015308 kg

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 12	Selenium (and its compounds)	Direct Discharges	M3 - Source Testing		0.021196 kg

On-site Release - Releases to Water - Information on Concentration and Sampling

CAS RN	Substance Name	Category	Average annual concentration (ppm)	Sampling Detection Limit	Estimated Half Method	Method Detection Limit (ppm)	More than one method	Additional Information
NA - 02	Arsenic (and its compounds)	Direct Discharges	0.0023	No information available on concentration	No		No	
NA - 03	Cadmium (and its compounds)	Direct Discharges	0.000011	No information available on concentration	No		No	
NA - 05	Cobalt (and its compounds)	Direct Discharges	0.000145	No information available on concentration	No		No	
NA - 08	Lead (and its compounds)	Direct Discharges	0.00013	No information available on concentration	No		No	
NA - 12	Selenium (and its compounds)	Direct Discharges	0.00018	No information available on concentration	No		No	

On-site Releases - Releases to water - Total

CAS RN	Substance Name	Total - Releases to Water
NA - 02	Arsenic (and its compounds)	0.270841 kg
NA - 03	Cadmium (and its compounds)	0.001295 kg
NA - 05	Cobalt (and its compounds)	0.017075 kg
NA - 08	Lead (and its compounds)	0.015308 kg
NA - 12	Selenium (and its compounds)	0.021196 kg

On-site Releases - Releases to water - Waterbody Breakdown List

CAS RN	Substance Name	Category	Water Body Name	Water Shed ID	Quantity
NA - 02	Arsenic (and its compounds)	Direct Discharges	Redstone River		
NA - 02	Arsenic (and its compounds)	Direct Discharges	East Creek		0.270841 kg
NA - 03	Cadmium (and its compounds)	Direct Discharges	Redstone River		
NA - 03	Cadmium (and its compounds)	Direct Discharges	East Creek		0.001295 kg
NA - 05	Cobalt (and its compounds)	Direct Discharges	Redstone River		
NA - 05	Cobalt (and its compounds)	Direct Discharges	East Creek		0.017075 kg
NA - 08	Lead (and its compounds)	Direct Discharges	Redstone River		
NA - 08	Lead (and its compounds)	Direct Discharges	East Creek		0.015308 kg
NA - 12	Selenium (and its compounds)	Direct Discharges	Redstone River		
NA - 12	Selenium (and its compounds)	Direct Discharges	East Creek		0.021196 kg

On-site Releases - Total

CAS RN	Substance Name	Total releases
NA - 02	Arsenic (and its compounds)	0.903547 kg
NA - 03	Cadmium (and its compounds)	0.003981 kg
NA - 05	Cobalt (and its compounds)	0.795583 kg
NA - 08	Lead (and its compounds)	0.097578 kg
NA - 09	Manganese (and its compounds)	0.028948 tonnes
NA - 12	Selenium (and its compounds)	0.021196 kg

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
NA - 02	Arsenic (and its compounds)	0	0	0	100
NA - 03	Cadmium (and its compounds)	0	0	0	100
NA - 05	Cobalt (and its compounds)	0	0	0	100
NA - 08	Lead (and its compounds)	0	0	0	100
NA - 09	Manganese (and its compounds)	0	0	0	100
NA - 12	Selenium (and its compounds)	0	0	0	100

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M09	PM10 - Particulate Matter <= 10 Microns	0	0	0	0	0	0	0	0	0	0	0	100
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0	0	0	0	0	0	0	0	0	0	0	100
NA - M08	Total Particulate Matter	0	0	0	0	0	0	0	0	0	0	0	100

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 - 02	Arsenic (and its compounds)	Increase in production levels	
NA - 03	Cadmium (and its compounds)	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Increase in production levels	
NA - 08	Lead (and its compounds)	Increase in production levels	
NA - 09	Manganese (and its compounds)	Not applicable (first year reporting this substance)	
NA - 10	Mercury (and its compounds)	Decrease in production levels	
NA - 12	Selenium (and its compounds)	Increase in production levels	
NA - M08	Total Particulate Matter	Not applicable (first year reporting this substance)	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Increase in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Not applicable (first year reporting this substance)	

Disposals - On-site Disposal of Tailings and Waste Rock

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 02	Arsenic (and its compounds)	Tailings Management	C - Mass Balance		10874.500000 kg
NA - 05	Cobalt (and its compounds)	Tailings Management	C - Mass Balance		192.395000 kg
NA - 09	Manganese (and its compounds)	Tailings Management	C - Mass Balance		14.722400 tonnes

Disposals - On-site Disposal of Tailings and Waste Rock - Total

CAS RN	Substance Name	Total - On-site Disposals
NA - 02	Arsenic (and its compounds)	10874.500000 kg
NA - 05	Cobalt (and its compounds)	192.395000 kg
NA - 09	Manganese (and its compounds)	14.722400 tonnes

Disposals - Concentration of the Substance in Tailings

CAS RN	Substance Name	Disposals - Concentration of the Substance in Tailings	Was the quantity reported above estimated using half the detection limit for some or all values?	Method Detection Limit (ppm)	Average Tailings Concentration (ppm)	More than one method detection limit applies (provide details in comments)	Tailings Concentration – additional information
NA - 02	Arsenic (and its compounds)	No information available on concentration	No		1300	No	all samples above detection limit
NA - 05	Cobalt (and its compounds)	No information available on concentration	No		23	No	all samples above detection limit
NA - 09	Manganese (and its compounds)	No information available on concentration	No		1760	No	All Samples Above Detection Limit

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
NA - 02	Arsenic (and its compounds)	Production residues	Increase in production levels	
NA - 03	Cadmium (and its compounds)		Decrease in production levels	
NA - 05	Cobalt (and its compounds)	Production residues	Increase in production levels	
NA - 08	Lead (and its compounds)		Decrease in production levels	
NA - 09	Manganese (and its compounds)	Production residues	Not applicable (first year reporting this substance)	
NA - 10	Mercury (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 12	Selenium (and its compounds)		No significant change (i.e. <10% or no change)	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 02	Arsenic (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 03	Cadmium (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 05	Cobalt (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 08	Lead (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 09	Manganese (and its compounds)		Not applicable (first year reporting this substance)	
NA - 10	Mercury (and its compounds)		No significant change (i.e. <10% or no change)	
NA - 12	Selenium (and its compounds)		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 - 02	Arsenic (and its compounds)	No	Enters the facility (Use)	27542.0400 kg	278.9100 kg	2019	27263.1300	9774.88
NA - 02	Arsenic (and its compounds)	No	Creation	0 kg	0 kg	2019	0	
NA - 02	Arsenic (and its compounds)	No	Contained in Product	16666.7741 kg	0 kg	2019	16666.7741	100
NA - 05	Cobalt (and its compounds)	No	Enters the facility (Use)	343.3950 kg	130.3670 kg	2019	213.0280	163.41
NA - 05	Cobalt (and its compounds)	No	Creation	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Contained in Product	150.9768 kg	105.0541 kg	2019	45.9227	43.71
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2019	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	5.0941 tonnes	1.2619 tonnes	2019	3.8322	303.68

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 02	Arsenic (and its compounds)	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Increase in production levels	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Increase in production levels	

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 - 02	Arsenic (and its compounds)	No	Total Releases to Air	0.6327 kg	0.0035 kg	2019	0.6292	17977.14
NA - 02	Arsenic (and its compounds)	No	Total Releases to Water	0.2708 kg	0.0001 kg	2019	0.2707	270700
NA - 02	Arsenic (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2019	0	
NA - 02	Arsenic (and its compounds)	No	Total Releases to All Media	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total Releases to Air	0.7785 kg	0.0016 kg	2019	0.7769	48556.25
NA - 05	Cobalt (and its compounds)	No	Total Releases to Water	0.0171 kg	0.0000 kg	2019	0.0171	100
NA - 05	Cobalt (and its compounds)	No	Total Releases to Land	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total Releases to All Media	0 kg	0 kg	2019	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	5.0941 tonnes	1.2619 tonnes	2019	3.8322	303.68
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2019	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2019	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2019	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 02	Arsenic (and its compounds)	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Increase in production levels	
NA - M09	PM10 - Particulate Matter <= 10 Microns	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 - 02	Arsenic (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2019	0	
NA - 02	Arsenic (and its compounds)	No	Total Off-site Disposals	0 kg	0 kg	2019	0	
NA - 02	Arsenic (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 kg	0 kg	2019	0	
NA - 02	Arsenic (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	10874.5000 kg	436.4000 kg	2019	10438.1000	2391.87
NA - 02	Arsenic (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total On-site Disposals	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total Off-site Disposals	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0 kg	0 kg	2019	0	
NA - 05	Cobalt (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	192.3950 kg	25.3112 kg	2019	167.0838	660.12
NA - 05	Cobalt (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 kg	0 kg	2019	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 - 02	Arsenic (and its compounds)	Increase in production levels	
NA - 05	Cobalt (and its compounds)	Increase in production levels	

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

No

If no, please select all applicable reasons from the list below:

Substance, process or technology alternatives are unknown or unavailable

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 02	Arsenic (and its compounds)	The Objectives of the Plan are as follows: • provide support for the Facility’s position with respect to the Statement of Intent by providing an explanation of how the TRAs definition of the word “use”, as applied to the Toxic Substance, renders it impossible to reduce the “use” of the Toxic Substance without reducing Facility production; • provide the reader with an understanding of the nature of the Facility activity which the TRA has defined as a “use” of the Toxic Substance; and • document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.
NA - 05	Cobalt (and its compounds)	The Objectives of the Plan are as follows: • provide support for the Facility’s position with respect to the Statement of Intent by providing an explanation of how the TRAs definition of the word “use”, as applied to the Toxic Substance, renders it impossible to reduce the “use” of the Toxic Substance without reducing Facility production; • provide the reader with an understanding of the nature of the Facility activity which the TRA has defined as a “use” of the Toxic Substance; and • document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.
NA - M09	PM10 - Particulate Matter <= 10 Microns	The objectives of this Plan are as follows: Provide the reader with information on measures currently in place at the Facility which control the “creation” and subsequent release of the Toxic Substance; Provide support for the Facility’s position with respect to the Statement of Intent of this Plan; and Document how the Facility has fulfilled the applicable requirements under the TRA and O.Reg.455/09 with respect to the Toxic Substance.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
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CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 02	Arsenic (and its compounds)	No quantity target	No timeline target	
NA - 05	Cobalt (and its compounds)	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 02	Arsenic (and its compounds)	No quantity target	No timeline target	
NA - 05	Cobalt (and its compounds)	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	

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 - 02	Arsenic (and its compounds)	No		
NA - 05	Cobalt (and its compounds)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 02	Arsenic (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 02	Arsenic (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	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 - 02	Arsenic (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 05	Cobalt (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 05	Cobalt (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	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 - 05	Cobalt (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - 02	Arsenic (and its compounds)	No		
NA - 05	Cobalt (and its compounds)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		

Feedback

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

Liberty Mines Inc

Certifying Official (or authorized delegate)

Tim Doskotch

Report Submitted by

Tim Doskotch

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 MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 2021-09-30, I, Tim Doskotch, 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 - 02

Arsenic (and its compounds)

NA - 05

Cobalt (and its compounds)

NA - M09

PM10 - Particulate Matter <= 10 Microns

Exit Record Certification Statement

As of 2021-09-30, I Tim Dorskotch, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at Redstone Mine and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
NA - 03	Cadmium (and its compounds)
NA - 08	Lead (and its compounds)
NA - 12	Selenium (and its compounds)

Company Name

Liberty Mines Inc

Highest Ranking Employee

Tim Dorskotch

Report Submitted by

Tim Dorskotch

Website address

www.northernsunmining.ca

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
2020	2021-09-30	Redstone Mine	Ontario	South Porcupine	NPRI, ON MECP 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: 3.18.12



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