



ENVIRONMENTAL INDICATORS 2016

The following environmental indicators and metrics show the environmental performance of First Quantum over the 2016 calendar year. The data is compared to previous years. Data on fuel, electricity and material consumption is gathered mainly from the Company's financial accounting system and therefore has a high level of confidence. Various internationally accepted protocols and methodologies, shown below the following table, were used to collect the data. The scope of the reporting includes all sites where First Quantum has operational control of the project and over 50% ownership, including several closed properties and exploration worldwide.

Indicators	Unit	2013	2014	2015	2016
Water - Fresh Surface Water Withdrawal	Megaliters	Incomplete data	20,493	30,261	35,104
Water - Saline/Brackish Water Withdrawal	Megaliters		8,829	6,600	6,207
Water - Fresh Groundwater Withdrawal	Megaliters		14,120	10,957	11,864
Water - Municipal and Waste Water Withdrawal	Megalitres		450	395	934
Water - Total Water Withdrawal (excluding precipitation)	Megaliters		47,264	69,464	129,745
Water - Intensity (withdrawal / milled ore)	Megaliters / Ton		0.94	0.78	1.18
Water - Discharge	Megaliters		50,475	84,767	130,669
Electricity - Consumption	MWh's	1,606,836	1,775,757	2,299,259	2,251,067
CO ₂ - Emissions Scope 1 Direct	Tons of CO ₂	1,055,584	1,197,118	1,296,327	1,262,636
CO ₂ - Emissions Scope 2 Indirect	Tons of CO ₂	198,929	213,964	204,995	169,256
CO ₂ - Emissions Scope 1 and 2	Tons of CO ₂	1,254,513	1,411,082	1,501,322	1,431,893
CO ₂ -eq - Scope 3 Emissions from Air Travel	Tons of CO ₂	2,586	6,710	7,351	9,802
CO ₂ -eq - Intensity (scope 1 & 2 / milled ore)	CO ₂ / Ton	0.033	0.029	0.024	0.017
Area - Mining Licenses	Hectares	107,519	107,519	116,556	108,598
Area - Development Footprint	Hectares	Incomplete data	19,195	19,543	20,282
Area - Rehabilitated	Hectares		3,165	3,389	3,228
Fines / Penalties (environmental)	USD	0	0	58,237	347,940
Expenditure (environmental)*	000's USD	33,200	35,900	27,975	26,052
Asset Retirement Obligation (ARO)*	000's USD	482,400	583,700	552,251	530,069
Corporate Social Responsibility (community programs)**	000's USD	44,500	37,900	24,009	19,810
Non-hazardous Waste Generated	Tons	Incomplete data	55,896	55,881	52,206
Hazardous Waste Generated	Tons		6,999	5,422	5,847
Tailings Produced	000's Tons		41,191	61,130	71,488
Waste Rock Mined	000's Tons		121,277	208,314	174,680

References

1. The Greenhouse Gas Protocol: GHG Protocol Corporate Accounting and Reporting Standard - revised edition, World Resources Institute.
2. Worksheet for estimation of mobile CO₂ emissions, World Resources Institute, 2006.
3. Optional Emissions from Commuting, Business Travel and Product Transport; May 2008, US Environmental Protection Agency; EPA430-R-08-006.
4. National Greenhouse Accounts (NGA) Factors Australian Government Department of Climate Change, 2008 - Table 4
5. National Greenhouse and Energy Reporting System Measurement, Australian government, July 2013
6. The International Energy Agency CO₂ Emissions from Fuel Combustion Highlights, 2013
7. Annual Reports, First Quantum Minerals Ltd.
8. All water data was collected as per the Mineral Council of Australia's Water Accounting Framework for the Mineral Industry.