

## Summary of key sustainability data

### AEM specific indicators

#### AEM1

Number of work place inspections carried out

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>27,658</b>	<b>41</b>	<b>76</b>	<b>42</b>	<b>207</b>	<b>28,024</b>

#### AEM1

Number of environmental inspections carried out

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>51</b>	<b>93</b>	<b>3</b>	<b>54</b>	<b>53</b>	<b>254</b>

#### AEM2

Number of internal health and safety audits carried out

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>78</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>87</b>

#### AEM3

Number of persons who received health, safety and environment induction training

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>158</b>	<b>460</b>	<b>383</b>	<b>120</b>	<b>903</b>	<b>2,024</b>

#### AEM4

Number of formal safety meetings with employees

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>185</b>	<b>239</b>	<b>193</b>	<b>18</b>	<b>20</b>	<b>655</b>

#### AEM5

Number of accidents/ incident analyses carried out involving the employees

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Total</b>	<b>29</b>	<b>61</b>	<b>23</b>	<b>31</b>	<b>31</b>	<b>175</b>

**Towards sustainable mining initiative – AEM self-assessment for 2009**

TSM performance element	LaRonde	Goldex	Lapa	Kittila	Pinos Altos
TM2 tailings management system	Level 3	Level 2	N/A	Level 2	Level 5
TM3 assigned accountability and responsibility for tailings management	Level 3	Level 2	N/A	Level 3	Level 5
TM4 annual tailings management review	Level 2	Level 2	N/A	Level 2	Level 2
TM5 operating, maintenance and surveillance manual for tailings and water management facilities	Level 3	Level 4	N/A	Level 1	Level 3
EU1 energy use management	Level 2	Level 2	Level 2	Level 1	Level 2
EU2 energy use reporting system	Level 2	Level 2	Level 2	Level 2	Level 2
EU3 energy use intensity performance target	Level 1	Level 3	Level 1	Level 2	Level 1
GHG1 GHG management systems	Level 1	Level 1	Level 1	Level 1	Level 1
GHG2 GHG reporting systems	Level 3	Level 3	Level 3	Level 3	Level 1
GHG3 GHG emissions intensity performance targets	Level 1	Level 1	Level 1	Level 1	Level 1
EO1 community of interest identification	Level 2	Level 4	Level 2	Level 2	Level 3
EO2 effective community of interest engagement and dialogue	Level 2	Level 2	Level 2	Level 2	Level 2
EO3 community of interest response mechanism	Level 2	Level 3	Level 2	Level 2	Level 3
EO4 reporting	Level 2	Level 2	Level 2	Level 2	Level 2
Crisis management planning	Level 1	Level 1	Level 1	Level 1	Level 1

The Lapa mine does not operate a tailings facility. All ore from Lapa is milled at LaRonde with tailings co-disposed with the LaRonde mine.

## Global Reporting Indicators (G3) relevant to AEM's business – results-based indicators

### Economic indicators

#### EC1

Metal production 2009

Gold (ounces)	492,972
Silver (millions of ounces)	4,035
Zinc (tonnes)	56,186
Copper (tonnes)	6,671
Total cash cost per ounce of gold	\$347

#### EC1

Financial highlights 2009

#### Sales

Gross sales (millions of US\$) – revenues from mining operations	\$613.8
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#### Net income

Net income (millions of US\$)	\$86.5
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Net income per share (US\$/share)	\$0.55
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#### Cash flow

Cash flow provided by operating activities (millions US\$)	\$115.1
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Cash flow provided by operating activities per share (US\$/share)	\$0.73
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Capital expenditures (000s of \$US)	\$657.2
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Proven and probable gold reserves (million ounces of gold)	18,398
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#### EC1

Mine	2009 gold production (ounces)	2009 total cash costs per ounce of gold
LaRonde	203,494	\$103
Goldex	148,849	\$366
Lapa	52,602	\$751
Kittila	71,838	\$668
Pinos Altos	16,189	\$596

**EC1**

Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations and other community investments, retained earnings and payments to capital providers and governments (in 000s of \$US):

	2009
Revenue	\$613,762
Operating costs	\$306,318
Employee compensation	\$313,893
Donations and other community investments	\$1,113
Retained earnings	\$216,158
Payments to capital providers	\$8,448
Payments to governments	\$26,514

**EC4**

Significant financial assistance received from government (in 000s of \$US):

Location	2009
LaRonde	\$0
Goldex	\$0
Lapa	\$0
Kittila	\$0
Pinos Altos	\$0
Meadowbank <sup>1</sup>	\$3.6
Closed properties	\$0
Exploration	\$0

<sup>1</sup> Meadowbank receives a fuel tax rebate from the Government of Nunavut under a Development Partnership Agreement. This rebate program is available to all companies investing in mining activity creating employment in Nunavut. It represents a rebate on tax paid on fuel purchased. No other division received any significant financial assistance from the government.

**EC6**

Policy, practices and proportion of spending on locally based suppliers:

Location	2009
LaRonde	63%
Goldex	63%
Lapa	63%
Kittila	15%
Pinos Altos	69%
Meadowbank	36%

**EC7**

Proportion of AEM workforce hired from local<sup>1</sup> community (%):

Location	2009
LaRonde	100%
Goldex	100%
Lapa	100%
Kittila	56%
Pinos Altos	66%
Meadowbank	36%

<sup>1</sup> Local community is defined by AEM as the regional economic region surrounding each of its operating mines. At Goldex, LaRonde and Lapa the local community is defined as the Abitibi region, at Kittila the local community is defined as Lapland, at Pinos Altos the local community is defined as El Campo Municipality, at Meadowbank the local community is defined as the Kivalliq Region of Nunavut.

**EC9**

Direct economic value generated and distributed (in millions of US\$):

	2009
Revenue	\$613,762
Operating costs	\$306,318
Employee compensation	\$313,893
Donations and other community investments	\$1,113
Retained earnings	\$216,158
Payments to capital providers	\$8,448
Payments to governments	\$26,514

**Environmental performance****EN3**

## Direct energy consumption by primary energy source

Energy use by source in 2009	LaRonde	Goldex	Lapa	Kittila	Pinos Altos	Total
Natural gas (in GJ)	238,332	34,837	34,066	0	0	<b>307,235</b>
Diesel (in kilolitres)	4,438	1,319	1,129	3,774	2,685	<b>13,345</b>
Propane (in kilolitres)	0	0	0	0	1	<b>1</b>
Gasoline (in kilolitres)	0	0	5.2	0	0.4	<b>5.6</b>

**EN4**

## Indirect energy consumption by primary source:

Energy use by source in 2009	LaRonde	Goldex	Lapa	Kittila	Pinos Altos	Total
Electricity (million KW)	327	114	29	105	12	<b>587</b>
2.1a Intermediate energy purchased for the year (GJ)	1,176,907	410,550	103,512	376,720	42,062	<b>2,109,751</b>
2.1b Intermediate energy consumed for the year (GJ)	1,176,907	410,550	103,512	376,720	42,062	<b>2,109,751</b>
Steam (heavy fuel oil for underground mine ventilation)	Nil	Nil	Nil	Nil	Nil	<b>Nil</b>
2.1A Intermediate energy purchased for the year (GJ)	0	0	0	8,172	16,327	<b>24,499</b>
2.1b Intermediate energy consumed for the year (GJ)	0	0	0	2,560	16,327	<b>18,887</b>

**EN8**

Total water withdrawn by source:

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
2.1 Total volume of water withdrawn from any water source that was either withdrawn directly by the reporting organization or through intermediaries such as water utilities (includes abstraction of cooling water) m <sup>3</sup>	1,097,085	1,092,184	373,095	57,614	1,096,668	<b>3,716,646</b>
2.2 Total volume of water withdrawn in cubic meters per year (m <sup>3</sup> ) by the following sources: Surface water, including water from wetlands, rivers, lakes and oceans (m <sup>3</sup> )	1,097,085	1,092,184	218,795	0	1,089,108	<b>3,497,171</b>
	Lake	Lake	River		River	
Ground water (well) (m <sup>3</sup> )	0	7,300	7,300	57,614	7,560	<b>79,774</b>
Rainwater collected directly and stored by the reporting organization (m <sup>3</sup> )	0	222,021	147,000	0	0	<b>369,021</b>
Waste water from another organization (m <sup>3</sup> )	0	0	0	0	0	<b>0</b>
Municipal water supplies or other water utilities (m <sup>3</sup> )	0	0	0	0	0	<b>0</b>

**EN9**

Water sources significantly affected by withdrawal:

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila
<b>Water body characterization</b>					
Name of water source	Chassignol-Preissac Lake	Thompson River	Héva River	None	Seurujoki River
Size of water body in cubic meters – lake	150,000,000	17.2			
Average flow in cubic meters per second for rivers			0.509	N/A	3.69
Is the source designated as a protected area (nationally and/or internationally)?	No	No	No	N/A	No
Is the water source recognized by professionals to be particularly sensitive (due to size; function; status as a rare, threatened or endangered species habitat)?	No	No	No	N/A	No
Number of protected species in the water body	0	0	0	N/A	0
Is the waterbody a Ramsar-listed wetland or any other nationally and/or internationally proclaimed conservation area?	No	No	No	N/A	No
<b>Withdrawal data</b>					
Does the withdrawal account for an average of 5% or more of the annual average volume of the water body?	No	No	No	N/A	No
<b>Assessment of effect</b>					
Based on the above is the water source significantly affected by the withdrawal	No	No	No	N/A	No

**EN10**

Percent and total volume of water recycled and reused	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
2.3 – Total volume of water recycled/reused by the organization in cubic meters per year (m <sup>3</sup> )	3,878,785	1,413,536	144,000	51,738	1,069,348	<b>6,557,407</b>
Total volume of water recycled/reused by the organization as a percentage of the total water withdrawal reported under indicator EN8 (%)	353 <sup>1</sup>	107 <sup>2</sup>	39	90	97	

<sup>1</sup> Most of the water feeding the mill is recirculated; the freshwater intake in EN8 represents only a small portion of the water usage.

<sup>2</sup> Most of the water feeding the mill comes from recirculation from auxiliary tailings pond.



**EN11**

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila
Location and size of land owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	None	None	None	None	None

**EN12**

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila
Description of significant impacts of activities, products and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas	None known to AEM	None known to AEM	None known to AEM	None known to AEM	None known to AEM

**EN16**

Total direct and indirect greenhouse gas emissions by weight (numbers were reported to the Carbon Disclosure Project):

	LaRonde	Goldex	Lapa	Pinos Altos <sup>1</sup>	Kittila	Total
Tonnes of CO <sub>2</sub> equivalent	30,857	7,046	4,047	16,224	45,878	104,052

<sup>1</sup> Pinos Altos GHG emissions have been reported for all of 2009; however, production only commenced in the last quarter of 2009 hence these are a mix of construction and operation GHG emissions.

**EN16**

GHG emissions by source in 2009 (tonnes of CO<sub>2</sub> equivalent):

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
Total direct CO <sub>2</sub> e emissions	27,882	6,243	5,167	39,498	9,809	86,982
Total indirect CO <sub>2</sub> e GHG emissions	2,975	1,038	262	6,380	6,415	17,070
<b>Total direct and indirect emissions</b>	<b>30,857</b>	<b>7,046</b>	<b>4,047</b>	<b>45,878</b>	<b>16,224</b>	<b>104,052</b>

**GHG intensity**

CO <sub>2</sub> equivalent per tonne of ore processed (tonnes of CO <sub>2</sub> equivalent/tonne milled)	0.0121	0.0027	0.0135	0.0505	0.0288	0.0166
CO <sub>2</sub> equivalent per oz of Au produced (tonnes of CO <sub>2</sub> equivalent/ounce of payable Au produced)	0.1516	0.0473	0.0769	0.7085	0.2258	0.2111
Tonnes milled	2,546,000	2,615,000	299,000	227,000	563,000	6,250,000
Payable gold production (ozs)	203,494	148,849	52,602	16,189	71,838	492,972

**EN21**

Total water discharge by quality and destination	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
Final effluent (m <sup>3</sup> )	2,480,295	1,148,549	132,226	0.00	1,925,836	<b>5,686,906</b>
Domestic water if discharged into a municipal treatment system (m <sup>3</sup> )	0	0	0	0.00	0	<b>0</b>
Domestic water if discharged into the environment (m <sup>3</sup> )	29,292	7,300	7,300	6,876	7,497	<b>58,265</b>

**EN22**

Total weight of waste by type and disposal method	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
<b>Waste sent to recycling</b>						
Paper and cardboard (tonne)	54.89		22.80	0.00	2.85	<b>80.54</b>
Plastic (tonne)	17.77		0	0.00	1.67	<b>19.44</b>
Metal (tonne)	506.48	275.41	89.47	15.48	353.62	<b>1,240.46</b>
Wood (tonne)	369.50	152.07	0	0.00	218.10	<b>739.67</b>
Used oil sent to license user disposal facility (m <sup>3</sup> )	207.00	36.27	0	44.53	53.403	<b>341.20</b>
<b>Waste stored or disposed of on site</b>						
Contaminated soil stored on site (tonne)				0.00	0	<b>0</b>
Contaminated soil sent for permitted onsite treatment (tonne)				0.00	0	<b>0</b>
Domestic waste sent to permitted mine landfill (tonne)				18.60	0	<b>18.60</b>
Domestic waste sent to permitted mine incinerator (tonne)				0.00	0	<b>0</b>
Hazardous waste stored on site (tonne)				0.00	0	<b>0</b>
<b>Waste disposed of off site</b>						
Domestic waste sent to municipal facility (tonne)	425.61	172.84	192.66	0.00	591.79	<b>1,382.90</b>
Contaminated soil sent to licensed disposal facility (tonne)	0	56.12	175.00	2.60	18.12	<b>251.84</b>
Hazardous waste sent to licensed disposal facility	206.61	23.05	0	13.33	62,590.00	<b>62,832.99</b>



**MM2**

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
The number and percentage of total sites identified as requiring biodiversity management plans according to stated criteria and the number (percentage) of those sites with plans in place	None known to AEM	None known to AEM	None known to AEM	None known to AEM	None known to AEM	None known to AEM

**MM2**

Total waste produced in 2009 by type (tonnes)

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
Overburden	0	0	0	10,000,000	507,300	10,507,300
Waste rock (Total)	36,250	173,736	414,745	18,900,000	9,187,790	28,712,521
Returned UG as backfill	0	0	0	0	77,790	77,790
Used in tailings dam construction	18,125	25,000	0	N/A	1,200,000	1,243,125
Used in other construction	0	27,829	0	N/A	0	27,829
Placed on surface waste rock piles	18,125	120,907	414,745	N/A	7,910,000	8,463,777
Mill tailings (Total)	1,961,967	2,573,645	0	198,181	3,679,200	8,412,993
Returned UG as backfill	466,166	0	0	0	0	466,166
Placed in surface tailings containment	1,495,801	2,573,645 <sup>1</sup>	0	198,181	3,679,200	7,946,827

<sup>1</sup> At Goldex, the majority of the mill tailings are directed to the Manitou site for use in capping and to neutralize and rehabilitate the pre-existing acid-generating tailings. Only a small amount of tailings have been placed in the Goldex Tailings Containment Area (TIA) since the start of operations in 2008 (only 5,882 tonnes were placed in the Goldex TIA in 2009, the rest went to Manitou).

Lapa ore is milled at LaRonde with tailings co-disposed with LaRonde mill tailings.

Pinos Altos Mill did not come into production until the last quarter of 2009.

Meadowbank did not come into production until 2010.

## Employment

### LA1

Total workforce by employment type, contract and region

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
Total number of employees	2,777	337	700	353	878	5,045
Total number of contractors	1,099	104	699	75	659	2,636
Number of employees coming from within 200 km of the mine	3,876	337	697	225	>400	5,535
Total number of permanent employees	2,770	233	510	387	864	4,764
Total number of temporary employees	7	2	5	3	14	31
Total number of female employees	121	5	27	15	37	205
Number of hourly employees	1,971	161	341	361	560	3,394
Number of staff	806	70	174	52	318	1,420
Number of students	0	2	32	3	14	51

### LA10

Average hours of training per year per employee category

	LaRonde	Goldex	Lapa	Pinos Altos	Kittila	Total
Number of hours of training for hourly employees	4,528	6,864	N/A	N/A	N/A	11,392
Number of hours of training for staff employees	N/A	2,376	N/A	N/A	N/A	2,376