

SUMMARY REPORT

WAWA MAIN SITE AND LOONSKIN LAKE PROPERTIES

Wawa, Ontario, Canada



ESSAR STEEL ALGOMA INC.
105 West Street,
Sault Ste. Marie, Ontario, Canada
P6A 7B4

Date: March 13, 2013

Prepared By:

CARACLE CREEK INTERNATIONAL CONSULTING INC.

Stephen Wetherup, B.Sc., P. Geo.
Zsuzsanna Magyarosi, Ph.D., P.Geo.
Julie Selway, Ph.D., P.Geo.

1.0 HIGHLIGHTS

- A large land package (~3450 ha) consisting of 206 mineral patents and 7 leases covering three Michipicoten Iron Ranges and more than 7.8 km of iron formation strike length,
- The Property borders the Wawa, Ontario town limits and has direct rail, power and highway access as well as a network of gravel roads throughout,
- Two former operating iron mines on the Property, Helen/MacLeod and Sir James Mines, with remaining historical siderite resources of ~ 89 Mt, and open to depth.
- Johnson Iron Range which lies between the Helen/MacLeod and Sir James Mines has not been mined.
- Siderite portion of the iron formation has been the main focus of previous exploration and mining yet significant iron remains in other styles of iron mineralization (*e.g.*, hematite and magnetite).
- Extensive drilling and mining data available.

2.0 LOCATION AND TENURE

The Wawa Properties are comprised of two separate claim blocks; one called the Wawa Property and the second the Loonskin Lake Property (Figure 2-1 and Figure 2-2).

The Wawa Property is located immediately to the northeast of Wawa, northeastern Ontario, in McMurray, Chabanel and Lendrum Townships. The Wawa Property is approximately 13 km long along the north shore of Wawa Lake and up to 5 km wide. The approximate center of the Property in UTM coordinates is: 669593 m E, 5322298 m N, Zone 16, NAD83 and geographic coordinates: 84° 43' 30.15" W and 48° 1' 53.18" N.

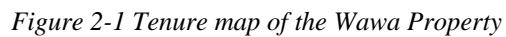
The Loonskin Lake Property is located 10 km northeast of Wawa, northeastern Ontario in Esquega Township. The Loonskin Lake Property is approximately 3.8 km long along the south shore of Loonskin Lake. The approximate center of the Property in UTM coordinates is: 675225 m E, 5326916 m N, Zone 16, NAD83 and geographic coordinates: 84° 38' 51.64" W and 48° 4' 17.16" N.

The Wawa Property consists of 196 patented claims totaling 3,282.130 ha and 7 leases totaling 30.926 ha in Chabanel, McMurray and Lendrum townships (Figure 2-1, and Table 9-1, Table 9-2 and Table 9-3). The patents have no expiry date and the only obligation is to pay land tax on them. The expiry date of all

leases is May 31, 2014. One patent in McMurray Township and parts of two patents in Chabanel Township are leased by Essar to other companies. Essar owns the mining and surface rights of most patents and only the surface rights on some of the patents (see Table 9-1 to Table 9-3). All patents are subject to reservations in Crown Grant.

The Loonskin Lake Property is comprised of 10 patented claims totaling 137.688 ha in the Esquega Township (Figure 2-2 and Table 9-4). Essar owns the surface and mining rights on all patents. The patents have no expiry date and the only obligation is to pay land tax on them. All patents are subject to reservations in Crown Grant.

For 2012 for both Wawa and Loonskin Lake Properties, the total Wawa property tax was \$76,327, the Mining Land tax was \$12,108 and the Provincial Land tax was \$1,087 for a grand total of \$89,522/year. The Wawa property tax includes \$15,354 for the land with the sinter plant station.



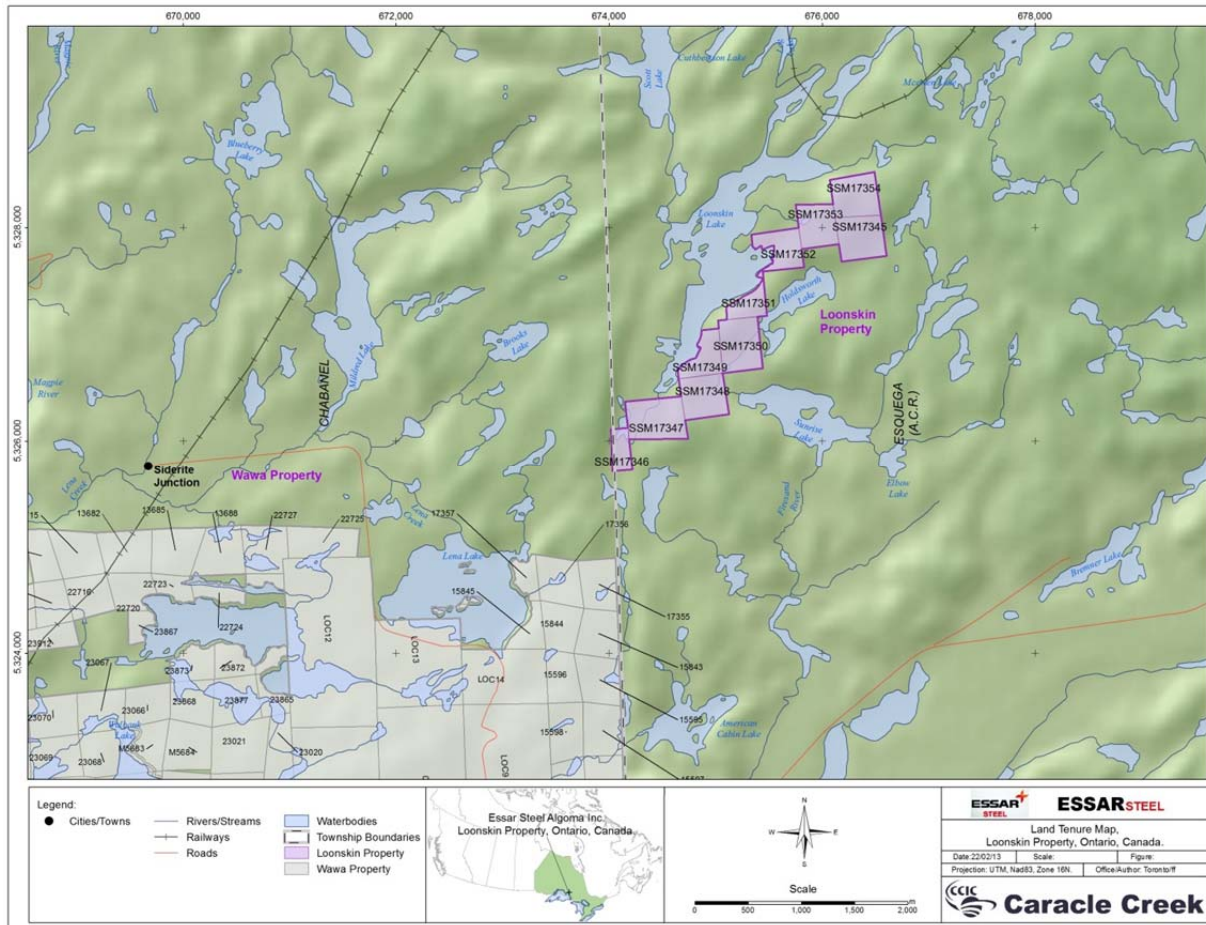


Figure 2-2 Tenure map of the Loonskin Property

3.0 ACCESS AND INFRASTRUCTURE

The main Wawa Property is located along the north shore of Wawa Lake and borders the town of Wawa on the west, north, and east sides of the town limits. There is road access throughout and the Algoma Central Railway connects Sault Ste. Marie to Wawa and railway tracks occur along the entire northern boundary of the Wawa Property with a spur connecting to the old Sir James Mine on the east end of the Property (Figure 2-1). The Loonskin Lake Property lies ~ 1 km northeast of the Wawa Property and is serviced by a forestry road on its westernmost margin (Figure 2-2).

The town of Wawa is serviced by the Trans-Canada Highway and has restaurants, hotels, hospital, and Ontario Provincial Police Station. The town of Wawa could supply most of the needs of an exploration program at Wawa as it services several active gold mines and advanced exploration programs in the area. Wawa has an urban population of 2,634 people in 2011 (Statistics Canada: <http://www.citypopulation.de/php/canada-ua-ontario.php?cityid=394>).

4.0 EXPLORATION HISTORY

This history section has been compiled through a search of public data and from the few remaining files onsite at Essar Steel Algoma Inc. In 1998 upon the closing of the MacLeod Mine, all of the exploration files from Algoma Ore Properties Division of the Algoma Steel Company were given to the Timmins Regional Resident Geologist's office. The records include both unsolicited property descriptions and evaluations sent to the company, as well as exploration records for work conducted by the exploration division of the Algoma Steel Company. Information contained within the records spans the years from 1899 to the mid-1970's when the company ceased to conduct exploration (Atkinson, *et al*, 1999).

Although Essar does not have many of the files for the Wawa Properties, they appear to still have a complete set of mine plans and sections for the Helen, McLeod and Sir James Mines.

4.1 Wawa Property

There are three 'Iron Ranges', the Helen, Johnson and Eleanor Iron Ranges and two historical mines on the Wawa Property: the Helen/MacLeod Mine (Helen Iron Range) and the Sir James Mine (Eleanor Iron Range).

4.1.1 Helen/MacLeod Mine

Multiple ore zones of the Helen Iron Range have operated at different times under a variety of names by the Algoma Steel Corporation and affiliated companies.

- 1899-1918: Open pit mining of hematite/goethite ore; a total of 2,823,365 tons of 53% hematite ore was shipped during this time (Rupert, 1979).
- 1937-1946: Helen Mine re-opened to exploit siderite ores from surface in the Helen and Victoria open pits.

- 1945: Underground mining initiated with No. 3 shaft to 256 m depth
- 1953-1956: Algoma Ore Properties – Expansion of underground operations where No. 4 service winze and No. 5 shaft was started and reached 630 m vertical depth (eventually the MacLeod production shaft), surface diamond drilling and construction of new sintering plant (Rupert, 1979).
- 1957-59: Algoma Ore Properties - underground tramway extended to 4,877 feet (=1,486.5 m), surface diamond drilling.
- 1960: Algoma Ore Properties - production from old Helen ore body ceases, production from G. W. MacLeod Mine begins.
- 1998: G. W. MacLeod Mine closes, and mine rehabilitation begins (Atkinson, *et al.*, 1998), total production from MacLeod Mine 58.7 Mt @ 32.5% Fe

The Helen Iron Range has a total of 387 drill holes within a 500 m radius of the iron range in Ontario Ministry of Northern Development, Mines and Forestry's ("MNDMF") drill hole database, but there are more holes in the drill reports (Figure 4-1).

4.1.2 Sir James Mine

- 1877: Part of mining locations issued to J. W. Johnston.
- 1948: Algoma Ore Properties - acquisition of property, diamond drilling (17,879 m) delineating a resource of 80 M tons to ~915 m depth; 7 M tons of this resource available to open pit mining (Shklanka, 1968).
- 1956-1957: Algoma Ore Properties - stripping of deposit, building of railroad spur and construction of surface facilities.
- 1958-1967: Algoma Ore Properties – open pit mining where a total of 7.7 M tons of ore (siderite) shipped (Rupert, 1979).
- 1966: Algoma Ore Properties - incline started on north side of pit in preparation to recover underground reserves; no underground production took place.

The Eleanor Iron Range has a total of 183 drill holes within a 500 m radius of the iron range in MNDMF's drill hole database, but there may be more (Figure 4-1).

4.1.3 Johnson Iron Range

The Johnson Iron Range lies between the Helen and Eleanor Iron Ranges and exploration work by Algoma Ore Properties occurred sporadically in this area between 1941 and 1966 in conjunction with work on the Helen and Sir James Mine with little descriptive work provided. Below is a summary of the known drill programs.

- 1941: A single 189 m drill hole below Wallbank Lake to test the faulted offset of the Helen Iron Range.
- 1948-1950: 38 drill holes along most of the strike of the Johnson Iron Range totalling 5,925 m
- 1952: An additional 3 drill holes below Wallbank Lake totalling ~254 m.
- 1953: One hole totalling 48 m.
- 1966: Four drill holes totalling 371 m.

The Johnson Iron Range has a total of 43 drill holes within a 500 m radius of the iron range in MNDMF's drill hole database, but there may be more drill holes (Figure 4-1).

4.1.4 Mammoth Metals Occurrence

The Mammoth Metals Occurrence is a Pb, Zn and Ag occurrence with minor Au between Wawa Lake and the Johnson Iron Range (MDI42C02SE00109). An overview of the exploration history includes:

- 1927: G. Christie and W. Soulier - discovery.
- 1927: Dome Mines Ltd. - trenching, sampling 3 diamond drill holes (500 ft = 152.4 m).
- 1928-29: Mammoth Metals Ltd. - 2 shafts sunk, inclined shaft to 65 feet (=19.8 m) and 165 feet (=50.3 m) of drifting completed.
- 1967: Algoma Ore Properties - mapping, magnetometer and EM surveys.

4.2 Loonskin Lake Property

The Loonskin Lake Property has been explored sporadically since 1949 for iron formation along the contact between the Wawa and Catfish assemblages. Also, there has been some exploration for Cu-Ni in peridotite rocks on the southeastern portions of the Property.

- 1949-50: Prospecting and regional geological mapping in the area with the discovery of an iron formation (pyrite breccia) outcrop south of Loonskin Lake.
- 1953: One drill hole 293.2 m below a pyrite/pyrrhotite showing and one hole totalling 174 m into peridotite.
- 1962 to 1963: Ground magnetic and EM survey and geological mapping (Gray, 1963)

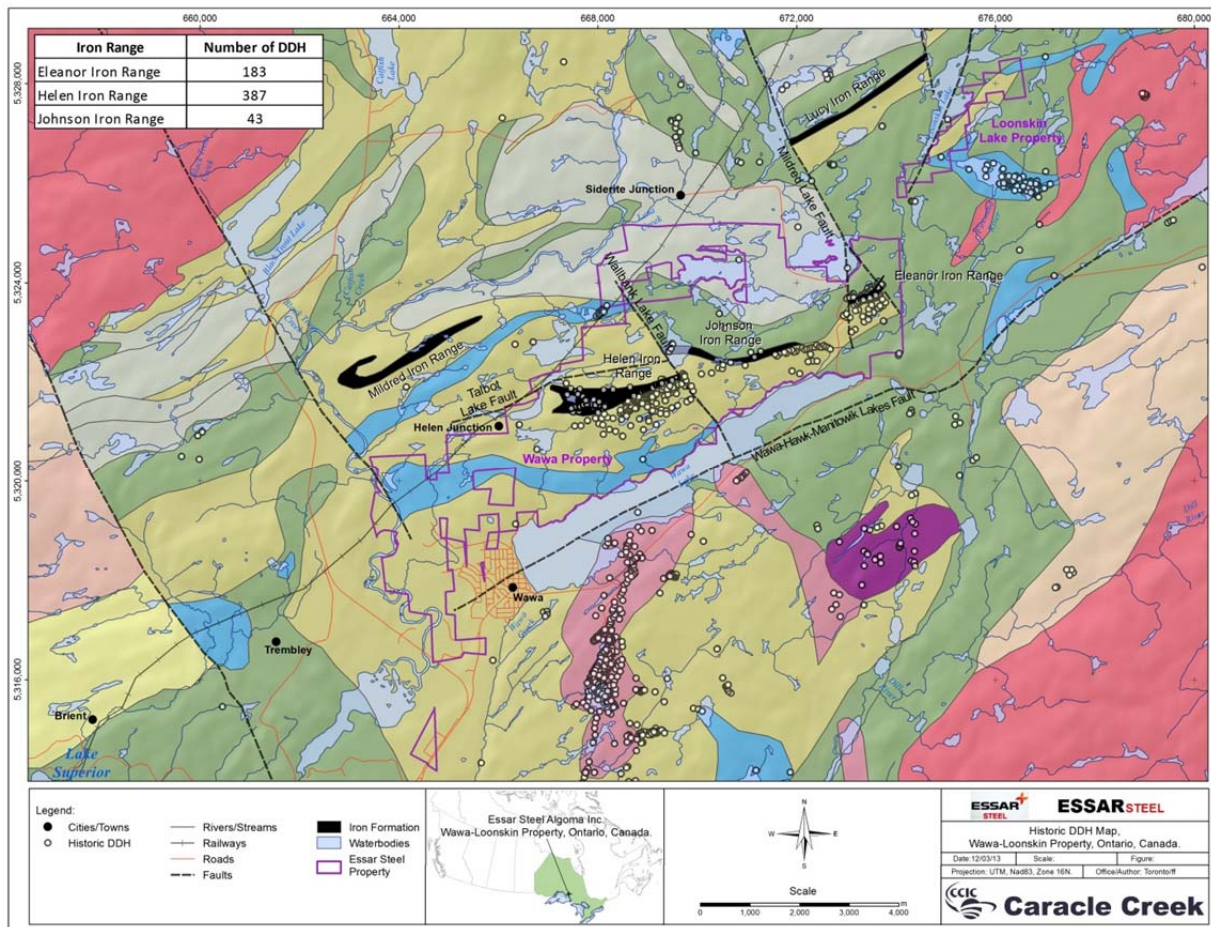


Figure 4-1 Location of historic drill holes on the Wawa and Loonskin Lake Properties (hole locations from MNDMF's drill hole database).

5.0 GEOLOGY

5.1 Regional geology

The Wawa Property occurs within the Wawa Subprovince of the Superior Province. The Wawa Subprovince is an aggregation of Archean greenstone belts and granitoid plutons (Williams et al., 1991). The Wawa Property is located within the Michipicoten greenstone belt that is approximately 140 km long and reaches a maximum width of about 45 km (Williams et al., 1991). Regional mapping delineated three discrete episodes of volcanism: the Hawk assemblage (the oldest episode), the mafic to felsic volcanism (Wawa assemblage) and the mafic volcanism (Catfish assemblage). The iron formation horizon on the

Wawa Property is located at the boundary between the intermediate to felsic volcanic rocks of the Wawa assemblage (2.75 Ga) and the mafic metavolcanic rocks of the Catfish assemblage (2.70 Ga) (Figure 5-1). Five main facies have been identified and include carbonate (dominantly siderite), sulphide (dominantly pyrite), chert-magnetite, chert-wacke and argillite-graphite-pyrite. In the region, the iron formation horizon has been subdivided into zones along the horizon or “ranges” of which there are 32 that make up the Michipicoten Iron Formation and three of these are on the Wawa Property, the Helen, Johnson and Eleanor Iron Ranges (Figure 5-1).

5.2 Local Geology of Iron Ranges

The Helen Iron Range is terminated by the Talbot Lake Fault at the west end and the Wallbank Lake Fault at the east. The great thickness of the iron formation at its west end is due to tectonic activity along the Talbot Lake Fault which thickened the iron formation by drag folding. It strikes roughly east-west dips 80° to the south and is ~ 4 km long. All five Michipicoten Iron Formation facies occur in the Helen Iron Range of which the chert-magnetite and chert-wacke units are up to 300 m thick and average ~ 100 m in thickness, the pyrite member ~ 3 to 15 m thick and the most significant economically the siderite member is up to 100 m thick.

The Johnson Iron Range is an east-west to WNW-ESE striking iron formation that is 3 km long and ~ 40 m wide with lenses of siderite up to 8 m thick (Rupert, 1979). This Range lies between the Helen and Eleanor Iron Ranges but iron formation is nearly continuous between separated from these ranges by the Wallbank Lake Fault to the west and the Mildred Lake Fault to the east.

The Eleanor Iron Range is the eastern extension of the Helen Iron Range and occurs in a wedge-shaped block bounded on the west and east by branches of the Mildred Lake Fault and on the south by the Wawa-Hawk-Manitowik Lakes fault. It consists of three members, banded chert, pyrite member and the carbonate (siderite) member, the latter of which has been the focus of most production. The Eleanor Iron Range is 790 m long and 76 m wide vertically oriented and northward younging sequence (Gross, *et al.*, 1991).

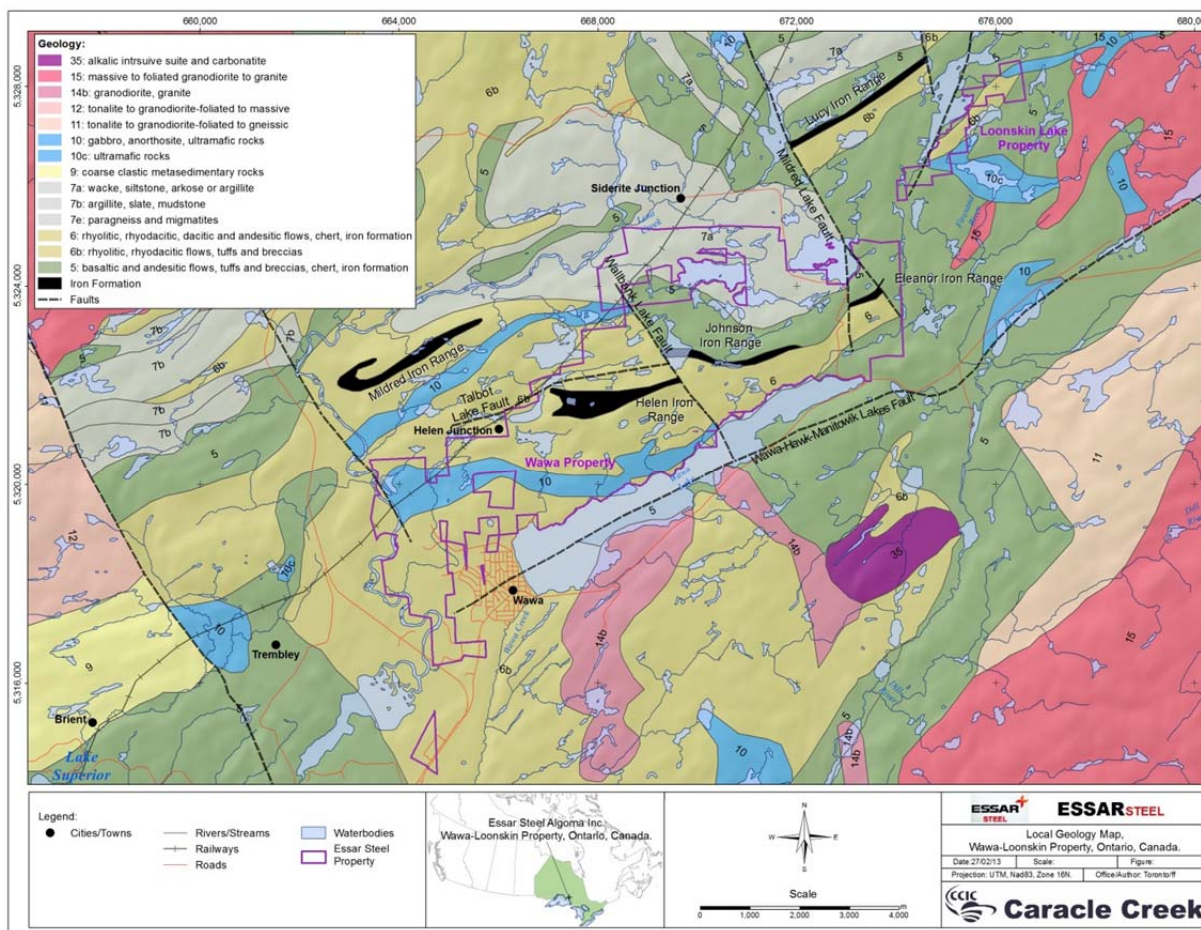


Figure 5-1 Local geology for Wawa and Loonskin Lake Properties

5.3 Mammoth Metals Occurrence (Pb, Zn and Ag)

The Mammoth Metals Occurrence lies close to the contact between a quartz diorite (mafic intrusive) and an intermediate to felsic metavolcanic (rhyolite) (MDI42C02SE00109) (Figure 5-2). The quartz diorite is a subvolcanic intrusive. The quartz vein lies within a shear zone within a quartz diorite. The quartz vein is heavily mineralized with galena, sphalerite and arsenopyrite. The vein strikes at approximately 70°, dips 30 to 50° and varies from 12 to 15 inches in width (Sage, 1993). The occurrence consists of at least three, roughly parallel veins.

Grab samples have returned varied assays. Grab samples from the quartz vein have returned values ranging from 5.2 oz/t Ag and 6.38% Pb to 23.8 oz/t Ag and 51.95% Pb. Grab samples collected by OGS

returned 27.1 % Zn from coarse sphalerite in milky quartz vein and 53.6 % Pb from coarse galena in milky quartz vein, 39.88 oz/ton Au from coarse galena in quartz vein (Sage, 1993).

5.4 Gold Potential

The Wawa and Loonskin Lake Properties have been explored exclusively for iron, but gold mineralization is known to occur between the Mildred and Helen Iron Ranges. There are four gold mineral occurrences between the Mildred and Helen Iron Ranges just northeast of Essar's Wawa Property (see Adjacent Properties section 7.0). Gold mineralization in Esquega and Chabanel Townships is related to quartz veins and shearing in association with pyritization, carbonatization and silicification (Sage, 1993).

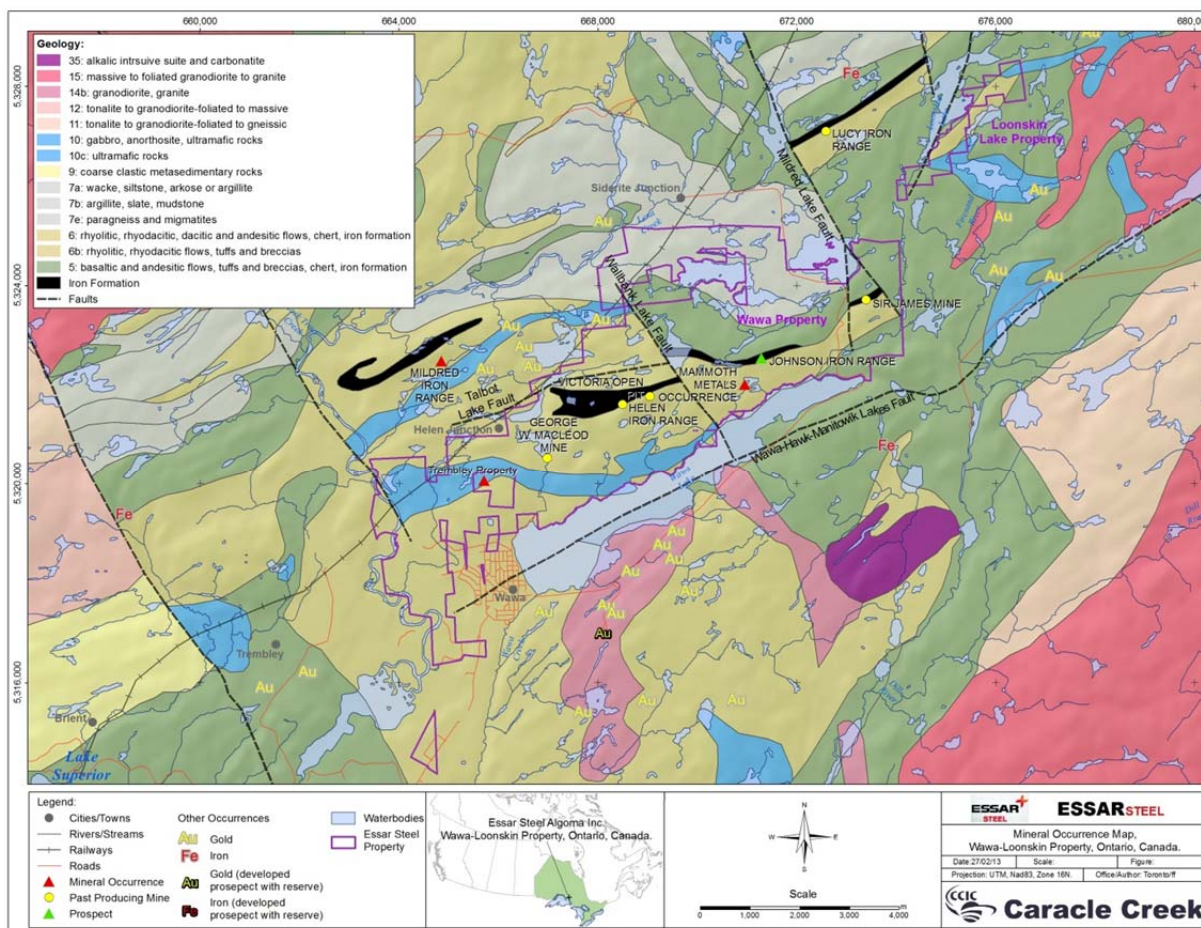


Figure 5-2 Iron and gold occurrences in the Wawa area.

Occurrences are from MNDMF's Mineral Deposits Inventory (MDI) database.

6.0 REHABILITATION OF WAWA PROPERTY

The former Wawa Property MacLeod/Helen mines were closed in 1998. A mine closure plan was submitted in 2006 and accepted by the Ministry of Northern Development and Mines ("MNDM") in January 2008. The Property is presently under care and maintenance. Water sampling/ testing is conducted quarterly. Two out of three water retaining concrete bulkheads called for in the closure plan were installed at Service and Cable Belt tunnels in 2010 to contain mine water and prevent it from spilling out onto surrounding lands/waters. The third bulkhead for Ropeway tunnel is to be constructed in 2014. Also, as part of the mine closure plan, a water treatment plant would be constructed and operational by 2016.

7.0 ADJACENT PROPERTIES

7.1 Gold Occurrences between Mildred and Helen Iron Ranges

There are four gold mineral occurrences between the Mildred and Helen Iron Ranges, just northeast of Essar's Wawa Property (Figure 5-2). These gold occurrences are currently owned by private individuals.

1. Gold, zinc, lead occurrence near the west end of Lagarde Lake (MDI42C02SW00025). The showing consists of a massive vein within a carbonate rich breccia at the contact between mafic to intermediate and felsic to intermediate metavolcanic rocks. Grab samples collected by Noranda in 1986 returned values up to 2.26 g/t Au. The Zn mineralization is sphalerite and Pb mineralization is galena.
2. Gold occurrence near Cardiac Hill known as the Magpie Gold Occurrence (MDI42C02SW00021). The showing consists of a pyritic-silicified carbonate zone consisting of up to three separate narrow and closely spaced gossan zones. These zones are hosted within felsic tuffs which are heavily silicified in the vicinity of the showing. Quartz eyes, tourmaline and silicification are prominent in the vicinity of the showing. Pyrite is the most common sulphide present and occurs in up to 10% of the zone. Minor pyrrhotite and arsenopyrite are seen locally. Where pervasive silicification is the most intense, pyrite content reaches 30% and consists of disseminated and semi-massive crudely banded pyrite and arsenopyrite. Veins consist of ankerite and quartz. Channel samples collected by Noranda returned values ranging from 1.32 g/t Au over

3 m to 4.56 g/t Au over 1 m. Gold values up to 6.6 g/t Au and silver values up to 14.3 ppm Ag have been found within the alteration zones in samples collected by Hutteri.

3. Gold occurrence near the west end of Lagarde Lake known as Lagarde Lake East Showing (MDI42C02SW00024). Mineralization is hosted by a silicified shear zone at the contact between the intermediate-mafic and the intermediate-felsic metavolcanic rocks. The veins consist of quartz and siderite. Grab samples collected by Noranda in 1986 returned assays up to 3.26 g/t Au.
4. Gold occurrence near the west end of Lagarde Lake known as the Boliden Syndicate Claims (MDI42C02SW00005). Between 1986 and 1990, Noranda Exploration Co Ltd drilled 3 holes for a total of 282 m in the area. Mineralization is hosted within narrow sulphide-bearing shear zones in rhyolitic fragmental rocks. Drilling also indicated the presence of quartz porphyry units. No relationship between the quartz porphyry and the mineralization was observed. Random veinlets of quartz are present which may comprise 20% of the veins. Ankerite alteration is common. The best gold values were obtained in areas rich in arsenopyrite. Pyrite and arsenopyrite occur as disseminated grains in the carbonate. Visible gold was reported in 1936. Grab samples collected by Noranda returned values up to 11.64 g/t Au.

8.0 CONCLUSIONS

The Wawa Main Site Property is in an area with excellent mining infrastructure and close proximity to a major steel producer in Sault Ste. Marie with direct rail access. The Property covers a large strike length of Michipicoten iron formation (> 7.8 km) which even though there has been a significant iron mining history on the Property there are known resources remaining and much of the strike has not been touched by mining. Furthermore, the historical mining has focussed almost exclusively on the siderite member of the iron formation while most of the iron formation remains.

There is also abundant exploration and mining data on the Wawa Property all of which is in paper maps, drill logs and sections and has not been interrogated by modern computer compilation and 3D modelling techniques to find additional resources.

In addition to the iron mineralization on the Wawa Property, there is also Pb, Zn and Ag mineralization at the Mammoth Metals Occurrence with sphalerite, galena and arsenopyrite in quartz veins. Between 1928 and 1929, two shafts were sunk on this Occurrence.

The Wawa and Loonskin Lake Properties have been explored exclusively for iron, but gold mineralization is known to occur between the Mildred and Helen Iron Ranges. There are four gold mineral occurrences between the Mildred and Helen Iron Ranges just northeast of Essar's Wawa Property. Gold mineralization in Esquega and Chabanel Townships is related to quartz veins and shearing in association with pyritization, carbonatization and silicification.

9.0 REFERENCES

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- Shklanka, R. (1968): Iron Deposits of Ontario, Ontario Department of Mines, Mineral Resources Circular No. 11, 489pp.
- Williams, H.R., Stott, G.M., Heather, T.L., Muir, T.L. and Sage, R.P. (1991): Wawa Subprovince, Chapter 12, in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p. 485-542.

Appendix 1 – Tenure

Table 9-1 Essar's tenure for the Wawa Property in Chabanel Township

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
DJ20	31158-0144 LT	577600001723601	CHABANEL	S&MR*	16.188	Helen	
DJ21	31158-0110 LT	577600001725200	CHABANEL	S&MR	7.879	Helen	
DJ22	31158-0110 LT	577600001723601	CHABANEL / MCMURRAY	S&MR	12.545	Helen	
DJ23	31158-0111 LT	577600001723601	CHABANEL / MCMURRAY	S&MR	13.355	Helen	
DJ24	31158-0111 LT	577600001723602, 577600001723601, 577600001723603	CHABANEL / MCMURRAY	S&MR	11.331	Helen	some parcels are leased
DJ25 PT	31158-0110 LT	577600000329500, 577600000329501, 577600000329502	CHABANEL / MCMURRAY	S&MR	12.505	Helen	some parcels are leased
DJ26	31158-0110 LT	577600001722600	CHABANEL / MCMURRAY	S&MR	11.210	Helen	
DJ27	31158-0110 LT	577600001722500	CHABANEL / MCMURRAY	S&MR	11.898	Helen	
DJ28	31158-0110 LT	577600001721600	CHABANEL	S&MR	8.175	Helen	
DJ29	31158-0110 LT	577600001605301	CHABANEL / MCMURRAY	S&MR	11.898		
DJ30	31158-0110 LT	577600001606200	CHABANEL / MCMURRAY	S&MR	18.069		
DJ31	31158-0110 LT	577600001606301	CHABANEL / MCMURRAY	S&MR	13.294		
DJ32	31158-0110 LT	577600001722400	CHABANEL	S&MR	11.068	Helen	
DJ33	31158-0110 LT	577600001722300	CHABANEL	S&MR	9.348	Helen	
DJ34	31158-0110 LT	577600001721800	CHABANEL	S&MR	7.811	Helen	
DJ35	31158-0110 LT	577600001722200	CHABANEL	S&MR	9.146	Helen	
DJ48	31158-0110 LT	577600001722900	CHABANEL	S&MR	23.958	Helen	
DJ49	31158-0110 LT	577600001723200	CHABANEL	S&MR	20.032	Helen	
DJ50	31158-0110 LT	577600001724000	CHABANEL	S&MR	17.037	Helen	
DJ51	31158-0110 LT	577600001724600	CHABANEL	S&MR	14.168	Helen	
DJ52	31158-0110 LT	577600001724900	CHABANEL	S&MR	18.332	Helen	
DJ53	31158-0110 LT	577600001725500	CHABANEL	S&MR	19.393	Helen	
DJ54	31158-0110 LT	577600001726300	CHABANEL	S&MR	15.795	Helen	
DJ55	31158-0110 LT	577600001726400	CHABANEL	S&MR	21.360	Helen	
DJ56	31158-0110 LT	577600001724700	CHABANEL	S&MR	16.475	Helen	
DJ57	31158-0110 LT	577600001724800	CHABANEL	S&MR	15.459	Helen	
DJ58	31158-0110 LT	577600001726200	CHABANEL	S&MR	16.066	Helen	
DJ59	31158-0110 LT	577600001725800	CHABANEL	S&MR	13.274	Helen	
DJ60	31158-0110 LT	577600001725300	CHABANEL	S&MR	10.765	Helen	

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
DJ61	31158-0110 LT	577600001605300	CHABANEL / MCMURRAY	S&MR	9.470		
DJ62	31158-0110 LT	577600001606401	CHABANEL / MCMURRAY	S&MR	9.154		
JL104 (SSM487)	31158-0117 LT	577600001725700	CHABANEL	S&MR	20.498	Alexander	
LOC 10	31158-0077 LT	577600001727900	CHABANEL	S&MR	118.979	Johnson Loc	
LOC 11	31158-0077 LT	577600001728000	CHABANEL	S&MR	121.002	Johnson Loc	
LOC 12	31158-0077 LT	577600001728100	CHABANEL	S&MR	129.501	Johnson Loc	
LOC 13	31158-0077 LT	577600001728200	CHABANEL	S&MR	64.750	Johnson Loc	
LOC 14	31158-0075 LT	577600001728300	CHABANEL	S&MR	32.375	Johnson Loc	
LOC 9	31158-0076 LT	577600001727800	CHABANEL	SRO**	124.547	Johnson Loc	
PT TWP portion no 10	31158-0003 LT	NA	CHABANEL				Algoma Central Railway
R725	31158-0114 LT	577600001722800	CHABANEL	S&MR	10.724	Helen	
R726	31158-0114 LT	577600001723300	CHABANEL	S&MR	13.759	Helen	
R727	31158-0114 LT	577600001723800	CHABANEL	S&MR	12.060	Helen	
R728 PT	31158-0112 LT	577600001724100	CHABANEL	S&MR	10.522	Helen	
R729	31158-0114 LT	577600001722700	CHABANEL	S&MR	9.793	Helen	
R730	31158-0114 LT	577600001723601	CHABANEL	S&MR	9.551	Helen	
R731 PT	31158-0113 LT	577600001724500	CHABANEL	S&MR	9.308	Helen	
R732	31158-0115 LT	577600001724500	CHABANEL	S&MR	15.985	Helen	
R733	31158-0115 LT	577600001725000	CHABANEL	S&MR	14.569	Victoria	
R734	31158-0115 LT	577600001725400	CHABANEL	S&MR	13.152	Victoria	
R737	31158-0138 LT	577600001723601	CHABANEL	S&MR	11.331	Helen	
SSM12654	31158-0116 LT	577600001725201	CHABANEL	S&MR	4.872	Helen	
SSM13682	31158-0073 LT	577600001710600	CHABANEL	S&MR	19.421	Siderite Hill	
SSM13685	31158-0042 LT	577600001710900	CHABANEL	S&MR	18.996	Siderite Hill	
SSM13688	31158-0027 LT	577600001711400	CHABANEL	S&MR	18.790	Siderite Hill	
SSM15595	31158-0101 LT	577600001714800	CHABANEL	S&MR	17.074	Siderite Hill	fee simple qualified
SSM15596 PT	31158-0101 LT	577600001715300	CHABANEL	S&MR	13.735	Siderite Hill	fee simple qualified
SSM15596 PT	31158-0105 LT	577600001715300	CHABANEL	SRO		Siderite Hill	
SSM15597	31158-0101 LT	577600001714900	CHABANEL	S&MR	18.365	Siderite Hill	fee simple qualified
SSM15598 PT	31158-0101 LT	577600001715200	CHABANEL	S&MR	16.803	Siderite Hill	fee simple qualified
SSM15598 PT	31158-0105 LT	577600001715200	CHABANEL	SRO		Siderite Hill	
SSM15647	31158-0041 LT	577600001727301	CHABANEL	S&MR	3.464	Siderite	

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
						Hill	
SSM15843	31158-0101 LT	577600001714700	CHABANEL	S&MR	16.511	Siderite Hill	fee simple qualified
SSM15844	31158-0101 LT	577600001715400	CHABANEL	S&MR	14.800	Siderite Hill	fee simple qualified
SSM15845 PT	31158-0101 LT	NA	CHABANEL	S&MR, except shoreline	12.424	Siderite Hill	fee simple qualified
SSM17355	31158-0157 LT	577600001714600	CHABANEL	S&MR	16.050	Siderite Hill	fee simple qualified
SSM17356	31158-0157 LT	577600001713900	CHABANEL	S&MR	17.321	Siderite Hill	fee simple qualified
SSM17357 PT	31158-0157 LT	577600001713800	CHABANEL	S&MR, except shoreline	11.186	Siderite Hill	fee simple qualified
SSM17648 PT	31158-0155 LT	?	CHABANEL	S&MR, except shoreline	2.590	Siderite Hill	fee simple qualified
SSM17649 PT	31158-0156 LT	577600001713100	CHABANEL	S&MR	0.978	Siderite Hill	fee simple qualified
SSM17945 PT	31158-0105 LT	577600001715100	CHABANEL	SRO	13.715	Siderite Hill	
SSM17945 PT	31158-0149 LT	577600001715100	CHABANEL	S&MR	16.511	Siderite Hill	fee simple qualified
SSM17946	31158-0149 LT	577600001715000	CHABANEL	S&MR	16.511	Siderite Hill	fee simple qualified
SSM21170 PT	31158-0146 LT	577600001713000	CHABANEL	S&MR	1.323	Siderite Hill	
SSM22088	31169-0459 LT	577600001607000	CHABANEL / MCMURRAY	S&MR	16.167	Helen	
SSM22713 PT	31158-0040 LT	577600001709700	CHABANEL	S&MR	16.321	Siderite Hill	
SSM22715	31158-0038 LT	577600001710100	CHABANEL	S&MR	16.722	Siderite Hill	
SSM22716	31158-0070 LT	577600001710000	CHABANEL	S&MR	13.990	Siderite Hill	
SSM22717	31158-0019 LT	577600001709900	CHABANEL	S&MR	13.318	Siderite Hill	
SSM22720 PT	31158-0058 LT	577600001710700	CHABANEL	S&MR, except shoreline	14.063	Siderite Hill	
SSM22723 PT	31158-0057 LT	577600001710800	CHABANEL	S&MR, except shoreline	9.441	Siderite Hill	
SSM22724 PT	31158-0059 LT	577600001711500	CHABANEL	S&MR, except shoreline	12.930	Siderite Hill	
SSM22725	31158-0068 LT	577600001712200	CHABANEL	S&MR	18.846	Siderite Hill	
SSM22727	31158-0069 LT	577600001711700	CHABANEL	S&MR	17.155	Siderite Hill	
SSM22728 PT	31158-0061 LT	577600001711600	CHABANEL	S&MR, except shoreline	9.721	Siderite Hill	
SSM22729	31158-0066 LT	577600001709800	CHABANEL	S&MR	16.216	Siderite Hill	
SSM23019	31158-0041 LT	577600001727400	CHABANEL	S&MR	8.608	Siderite Hill	

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
SSM23020	31158-0072 LT	577600001716000	CHABANEL	S&MR	15.297	Siderite Hill	
SSM23021	31158-0020 LT	577600001716100	CHABANEL	S&MR	24.213	Siderite Hill	
SSM23022	31158-0045 LT	577600001726700	CHABANEL	S&MR	11.178	Helen	
SSM23066	31158-0062 LT	577600001717000	CHABANEL	S&MR	15.220	Siderite Hill	
SSM23067	31158-0021 LT	577600001717500	CHABANEL	S&MR	16.944	Siderite Hill	
SSM23068	31158-0063 LT	577600001717600	CHABANEL	S&MR	15.119	Siderite Hill	
SSM23069	31158-0054 LT	577600001717700	CHABANEL	S&MR	18.713	Siderite Hill	
SSM23070	31158-0053 LT	577600001717800	CHABANEL	S&MR	17.956	Siderite Hill	
SSM23639	31158-0037 LT	577600001725900	CHABANEL	S&MR	10.299	Helen	
SSM23640	31158-0035 LT	577600001726100	CHABANEL	S&MR	10.749	Helen	
SSM23641	31158-0034 LT	577600001726000	CHABANEL	S&MR	11.712	Helen	
SSM23865 PT	31158-0018 LT	577600001715900	CHABANEL	S&MR, except shoreline	4.804	Siderite Hill	
SSM23866 PT	31158-0145 LT	577600001716400	CHABANEL	S&MR	0.073	Siderite Hill	
SSM23867 PT	31158-0017 LT	577600001717200	CHABANEL	S&MR, except shoreline	6.346	Siderite Hill	
SSM23868	31158-0052 LT	577600001716700	CHABANEL	S&MR	16.410	Siderite Hill	
SSM23869	31158-0016 LT	577600001718200	CHABANEL	S&MR	12.392	Siderite Hill	
SSM23870	31158-0032 LT	577600001723900	CHABANEL	S&MR	11.161	Siderite Hill	
SSM23871 PT	31158-0018 LT	577600001715800	CHABANEL	S&MR, except shoreline	5.172	Siderite Hill	
SSM23872 PT	31158-0064 LT	577600001716300	CHABANEL	S&MR, except shoreline	9.037	Siderite Hill	
SSM23873 PT	31158-0065 LT	577600001716600	CHABANEL	S&MR, except shoreline	9.275	Siderite Hill	
SSM23874	31158-0051 LT	577600001718500	CHABANEL	S&MR	14.747	Siderite Hill	
SSM23875	31158-0050 LT	577600001718600	CHABANEL	S&MR	14.112	Siderite Hill	
SSM23877	31158-0047 LT	577600001716200	CHABANEL	S&MR	17.199	Siderite Hill	
SSM23879	31158-0046 LT	577600001718300	CHABANEL	S&MR	18.357	Siderite Hill	
SSM23880 PT	31158-0030 LT	577600001723100	CHABANEL	S&MR	11.801	Siderite Hill	
SSM23912	31158-0022 LT	577600001718100	CHABANEL	S&MR	11.327	Siderite Hill	
SSM5337	31158-0107 LT	577600001727200	CHABANEL	S&MR	15.378	Wallbank	
SSM5338	31158-0107 LT	577600001727100	CHABANEL	S&MR	14.974	Wallbank	

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
SSM5339	31158-0107 LT	577600001727001	CHABANEL	S&MR, except shoreline	8.498	Wallbank	
SSM5344	31158-0108 LT	577600001726800	CHABANEL	S&MR	13.759	Wallbank	
SSM5374	31158-0106 LT	577600001727300	CHABANEL	S&MR	8.498	Wallbank	
SSM5418 PT	31158-0143 LT	577600001727000	CHABANEL	S&MR	8.903	Wallbank	WPLA 65***
SSM5419 PT	31158-0143 LT	577600001726900	CHABANEL	S&MR	8.498	Wallbank	WPLA 65
SSM5537 (SSM7218)	31158-0150 LT	577600001726500	CHABANEL	S&MR	15.702	Wallbank	
SSM5683 / SSM7120	31158-0109 LT	577600001716900	CHABANEL	S&MR, except shoreline	19.020	Wallbank	
SSM5684 / SSM7117	31158-0109 LT	577600001716701	CHABANEL	S&MR	20.720	Wallbank	
SSM5756 / SSM7118	31158-0109 LT	577600001725600	CHABANEL	S&MR, except shoreline	28.328	Wallbank	
SSM7121	31158-0150 LT	577600001726600	CHABANEL	S&MR	7.487	Wallbank	
SSM72133 PT	31158-0136 LT	NA	CHABANEL	S&MR	30.926	Talbot Lake	leasehold, expires May 31, 2014
SSM72133 PT	31158-0153 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
SSM72134 PT	31158-0136 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
SSM72134 PT	31158-0153 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
SSM72134 PT	31158-0154 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
SSM72135 PT	31158-0153 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
SSM72135 PT	31158-0154 LT	NA	CHABANEL	S&MR		Talbot Lake	leasehold, expires May 31, 2014
Total					2154.111		

*S&MR=surface and mining rights

**SRO=surface rights only

***WPLA 65=Water Power Lease Agreement

Table 9-2 Essar's tenure for the Wawa Property in McMurray Township

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
BLK A PL M129	31169-0048 LT	NA	MCMURRAY	SRO**	n.d.****		
BLK B PL M229	31169-0592 LT	NA	MCMURRAY		n.d.		
DJ38 PT / SSM8806	31169-1908 LT	577600000330505, 577600000330100	MCMURRAY	SRO	0.372	Sinter Plant Station	leased
SSM8619 PT	31169-0449 LT	NA	MCMURRAY	MRO***	2.570		
LOT 11 PL M229	31169-0592 LT	NA	MCMURRAY	MRO	0.000		
LOT 1333	31169-0967 LT	577600000306902	MCMURRAY	SRO	0.011		
LOT 1347	31169-0044 LT	577600000310801	MCMURRAY	SRO	0.020		
PARKING COURT	31169-0046 LT	577600000306901	MCMURRAY	SRO	0.360		
PLAYGROUND	31169-0045 LT	577600000305101	MCMURRAY	SRO	0.190		
SSM10527	31169-2206 LT	577600001609400	MCMURRAY	SRO	7.689	Wawa Flats	
SSM10529	31169-2206 LT	577600001609500	MCMURRAY	SRO	17.300	Wawa Flats	
SSM10530	31169-2206 LT	577600001627101	MCMURRAY	SRO	1.574	Wawa Flats	
SSM10531 PT	31169-2206 LT	577600001627700	MCMURRAY	SRO	9.915	Wawa Flats	
SSM10532	31169-2206 LT	NA	MCMURRAY	SRO	n.d.	Wawa Flats	
SSM10533	31169-2207 LT	NA	MCMURRAY	SRO	n.d.	Wawa Flats	
SSM12655	31169-0395 LT	577600001604200	MCMURRAY	S&MR	22.974	Helen	
SSM14944 PT	31169-0473 LT	NA	MCMURRAY		n.d.		
SSM14948 PT	31169-0473 LT	577600001609900	MCMURRAY		14.828		
SSM14949	31169-0473 LT	577600001609901, 577600001609900	MCMURRAY	SRO	1.485		
SSM16028	31169-0473 LT	577600001608700	MCMURRAY	S&MR*	13.780		
SSM192		577600001608200	MCMURRAY		16.835		
SSM20542 PT	31169-1048 LT	577600001605600	MCMURRAY	S&MR	20.809	Helen	
SSM20543	31169-1049 LT	577600001605400	MCMURRAY	S&MR	11.445	Helen	
SSM20544 PT	31169-1059 LT	577600001605900	MCMURRAY	S&MR	16.216	Helen	
SSM20545	31169-1058 LT	577600001606000	MCMURRAY	S&MR	17.762	Helen	
SSM20546	31169-1056 LT	577600001606600	MCMURRAY	S&MR	15.431	Helen	
SSM20547	31169-1057 LT	577600001606500	MCMURRAY	S&MR	19.830	Helen	
SSM20548 PT	31169-1055 LT	577600001611100	MCMURRAY	S&MR	16.277	Helen	
SSM20549	31169-1054 LT	577600001606700	MCMURRAY	S&MR	19.207	Helen	
SSM20554 PT	31169-1020 LT	577600001603200	MCMURRAY	S&MR	2.096	Helen	
SSM20555 PT	31169-1065 LT	577600001603400	MCMURRAY	S&MR	10.255	Helen	
SSM20556	31169-1021 LT	577600001604100	MCMURRAY	S&MR	11.789	Helen	
SSM20557 PT	31169-1022 LT	577600001604000	MCMURRAY	S&MR	8.280	Helen	
SSM20558 PT	31169-1023 LT	577600001603500	MCMURRAY	S&MR	7.434	Helen	
SSM20559 PT	31169-1024 LT	577600001604400	MCMURRAY	S&MR	8.842	Helen	
SSM20560	31169-1025 LT	577600001604300	MCMURRAY	S&MR	29.300	Helen	
SSM20561	31169-1027 LT	577600001605200	MCMURRAY	S&MR	27.398	Helen	
SSM20562 PT	31169-1028 LT	577600001605100	MCMURRAY	S&MR	10.137	Helen	
SSM21156	31169-1029 LT	577600001606900	MCMURRAY	S&MR	19.340	Helen	
SSM21157	31169-1030 LT	577600001606800	MCMURRAY	S&MR	17.984	Helen	
SSM21158	31169-1026 LT	577600001607200	MCMURRAY	S&MR	16.224	Helen	
SSM21159	31169-1015 LT	577600001607100	MCMURRAY	S&MR	15.164	Helen	
SSM21160	31169-1016 LT	577600001607700	MCMURRAY	S&MR	11.890	Helen	
SSM21161	31169-1019 LT	577600001607600	MCMURRAY	S&MR	7.256	Helen	
SSM21162	31169-1017 LT	577600001607800	MCMURRAY	S&MR	16.592	Helen	
SSM21163	31169-1018 LT	577600001607900	MCMURRAY	S&MR	15.386	Helen	
SSM21164	31169-1051 LT	577600001608400	MCMURRAY	S&MR	22.327	Helen	

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
SSM21165	31169-1052 LT	577600001608500	MCMURRAY	S&MR	18.596	Helen	
SSM22578	31169-1036 LT	577600001610800	MCMURRAY	S&MR	13.258	Helen	
SSM22579	31169-1053 LT	577600001607300	MCMURRAY	S&MR	13.986	Helen	
SSM22580	31169-1050 LT	577600001610000	MCMURRAY	S&MR	15.220	Helen	
SSM22581	31169-1045 LT	577600001608100	MCMURRAY	S&MR	11.327	Helen	
SSM22582	31169-1044 LT	577600001608600	MCMURRAY	S&MR	16.402	Helen	
SSM22583	31169-1043 LT	577600001608300	MCMURRAY	S&MR	13.387	Helen	
SSM22595	31169-0036 LT	577600001611200	MCMURRAY	S&MR	0.028	Helen	
SSM24285	31169-1047 LT	577600001606100	MCMURRAY	S&MR	23.699	Helen	
SSM24286	31169-1046 LT	577600001605500	MCMURRAY	S&MR	20.676	Helen	
SSM5420 PT	31169-0329 LT	577600001603300	MCMURRAY	S&MR	6.475	Wallbank	
				Total	657.628		

*S&MR=surface and mining rights

**SRO=surface rights only

***MRO=mining rights only

****n.d.-not determined

Table 9-3 Essar's tenure for the Wawa Property in Lendrum Township

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
CK85 PT	31169-0477 LT	NA	LENDRUM / MCMURRAY	S&MR*	141.454		
JC435	31169-2191 LT	577600001900400	LENDRUM	S&MR	63.807	Sinter Plant Station	fee simple qualified
DJ94	31169-2192 LT	577600001900400	LENDRUM / MCMURRAY	S&MR	13.798	Sinter Plant Station	fee simple qualified
DJ36	31169-2193 LT	577600001900400	LENDRUM / MCMURRAY	S&MR	14.994	Sinter Plant Station	
DJ37	31169-2193 LT	577600001900400	LENDRUM / MCMURRAY	S&MR	14.783	Sinter Plant Station	
SSM10673	31170-0051 LT	577600001900700	LENDRUM / MCMURRAY	S&MR	84.637	Wawa Flats	fee simple qualified
SSM10674	31170-0051 LT	NA	LENDRUM	S&MR	31.570	Wawa Flats	fee simple qualified
SSM10675	31170-0051 LT	577600001900600	LENDRUM	S&MR	42.492	Wawa Flats	fee simple qualified
SSM11087	31170-0052 LT	577600001900400	LENDRUM	S&MR	17.373	Sinter Plant Station	fee simple qualified
SSM11088	31170-0052 LT	577600001900400	LENDRUM	S&MR	17.325	Sinter Plant Station	fee simple qualified
SSM11089	31170-0052 LT	577600001900400	LENDRUM	S&MR	15.382	Sinter Plant Station	fee simple qualified
SSM11090	31170-0052 LT	577600001900400	LENDRUM	S&MR	15.819	Sinter Plant Station	fee simple qualified
SSM11091	31170-0052 LT	577600001900400	LENDRUM	S&MR, except along river	18.142	Sinter Plant Station	fee simple qualified
SSM10477	31170-0056 LT	577600001900400	LENDRUM / MCMURRAY	S&MR	9.738	Wawa Flats	fee simple qualified
				Total	501.317		

*S&MR=surface and mining rights

Table 9-4 Essar's tenure for the Loonskin Lake Property

MNDMF patent number	Land Registry Pin No.	MPAC Roll Number	Township	Ownership	Area (ha)	Name	Comments
SSM17345	31159-0205 LT	572748000120000	ESQUEGA	S&MR*	17.195	Siderite Hill	WSM 4008**
SSM17346	31159-0206 LT	572748000120800	ESQUEGA	S&MR	6.702	Siderite Hill	WSM 4008
SSM17347	31159-0206 LT	572748000120700	ESQUEGA	S&MR	20.623	Siderite Hill	WSM 4008
SSM17348	31159-0206 LT	572748000120600	ESQUEGA	S&MR	16.568	Siderite Hill	WSM 4008
SSM17349	31159-0206 LT	572748000120500	ESQUEGA	S&MR	11.080	Siderite Hill	WSM 4008
SSM17350	31159-0204 LT	572748000120400	ESQUEGA	S&MR	17.624	Siderite Hill	WSM 4008
SSM17351 PT	31159-0203 LT	572748000120300	ESQUEGA	S&MR	5.014	Siderite Hill	WSM 4008
SSM17352 PT	31159-0202 LT	572748000120200	ESQUEGA	S&MR	12.667	Siderite Hill	WSM 4008
SSM17353	31159-0201 LT	572748000120100	ESQUEGA	S&MR	14.589	Siderite Hill	WSM 4008
SSM17354	31159-0200 LT	572748000119900	ESQUEGA	S&MR	15.625	Siderite Hill	WSM 4008
				Total	137.688		

*S&MR=surface and mining rights

**WSM 4008=area administered under the Ontario Mining Act