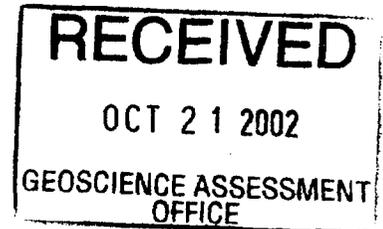


NORTHERN EXPLORERS LTD
ONTARIO MINERAL CLAIM S1237429
ASSESSMENT WORK REPORT
SAMPLING PROGRAM #2

Hess Township, NTS 41 I 12

by

N. Ralph Newson, M.Sc., P.Eng., P.Geo.
Ontario Prospector's License C38884



October 10, 2002



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1.0 INTRODUCTION

This report discusses work carried out on mineral claim S-1237429. The claim is registered in the name of Northern Explorers Ltd., 3142 Eastview, Saskatoon, Saskatchewan, S7J 3J4. It is in Hess Township, near the intersection of 81° 33' West longitude and 46° 43' North latitude, in NTS area 41 I 12 NE. A hand-held GPS unit gave a UTM (NAD 83) location of 5173930N, 457640E in Zone 17 at the mineral deposit on this claim. The claim is about 1 km north of the village of Cartier. (See Figures, 1 and 2.)

Access to the claim is by a bush road from Cartier. The road is lightly graveled, but does not appear to have been maintained recently. It easily accommodates a two-wheel-drive truck, and a passenger car could likely use it, with caution. Access is also possible from the railway right-of way on the west side of the property.

The work herein described consists of collecting a sample of 2 to 3 tonnes of magnetite-bearing rock for advanced testing to find out if it might be suitable for use in heavy aggregate to be used in dense concrete for shielding nuclear reactors. Northern Explorers has identified a customer for material meeting certain specifications. Results of previous test were positive (Newson, 2002), and this is the next step required in an attempt to get the material approved by the customer. It is our understanding that material from this sample will be used to make concrete for a freeze-thaw cycle test. However, The customer has not described in any detail the tests they may carry out, will not likely provide Northern Explorers with any test results beyond saying whether the product passes or fails their tests.

The sampling was supervised by the writer, who is the president and larger shareholder of the owner, assisted by E. A. Rose, P. Geo., C.P.G., of Sudbury, and Peter Kriens, of Picton. The sampling was carried out on August 14 and September 19, 2002.

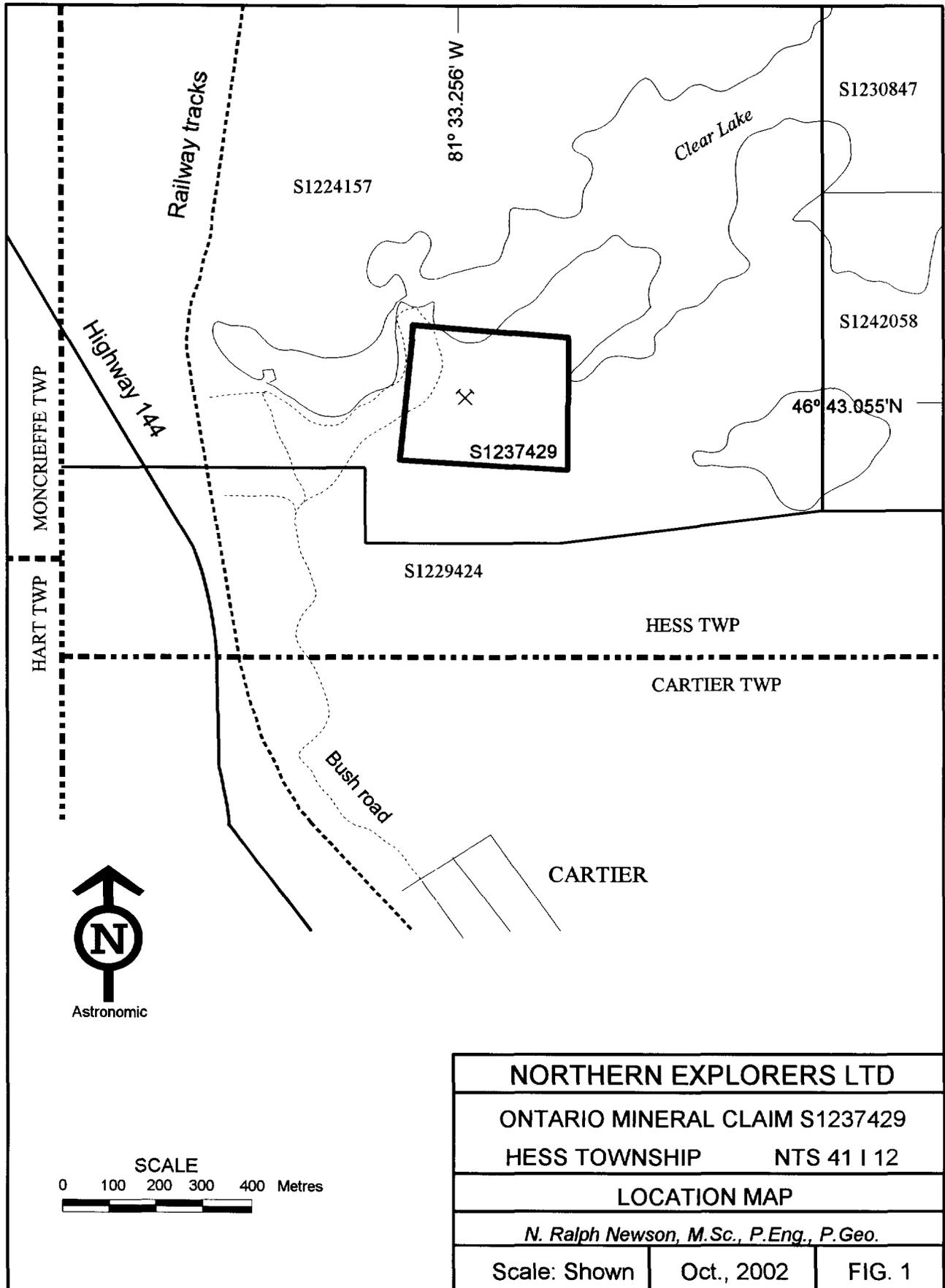
2.0 REGIONAL AND LOCAL GEOLOGY

The property is underlain by supracrustal rocks of the Bruce Group, including Serpent Fm. and likely Espanola Fm. rocks, intruded by gabbro of either Sudbury or Nipissing type. All rocks are Proterozoic in age. The supracrustal rocks overlie unconformably felsic intrusive rocks of Archean age.

3.0 PROPERTY GEOLOGY

Geological mapping of the claim was not done as part of the work discussed herein, since it had been done before. Since that work was done, the exposed magnetite has been drilled and blasted, but the blasted material has been left in the pit, so that it is presently impossible to map very much of the magnetite body in detail. This description is taken from previous assessment work done by L.S.D. Winters, 1976. Winters had both surface exposures and drill core from which to construct a geological picture of the deposit. The writer has examined such outcrop as is visible in the immediate vicinity of the pit on previous visits, and has seen nothing which would change the picture presented by Winters.

The magnetite zone strikes about east-west, and dips about 50 to 60° to the north. It consists of well-defined layers of magnetite-rich rock separated by layers of actinolite/chlorite/carbonate rock. Grain size of the magnetite ranges from coarse (to 5 mm) to fine (<0.5 mm). There are scattered veins of quartz



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ONTARIO MINERAL CLAIM S1237429

HESS TOWNSHIP NTS 41 | 12

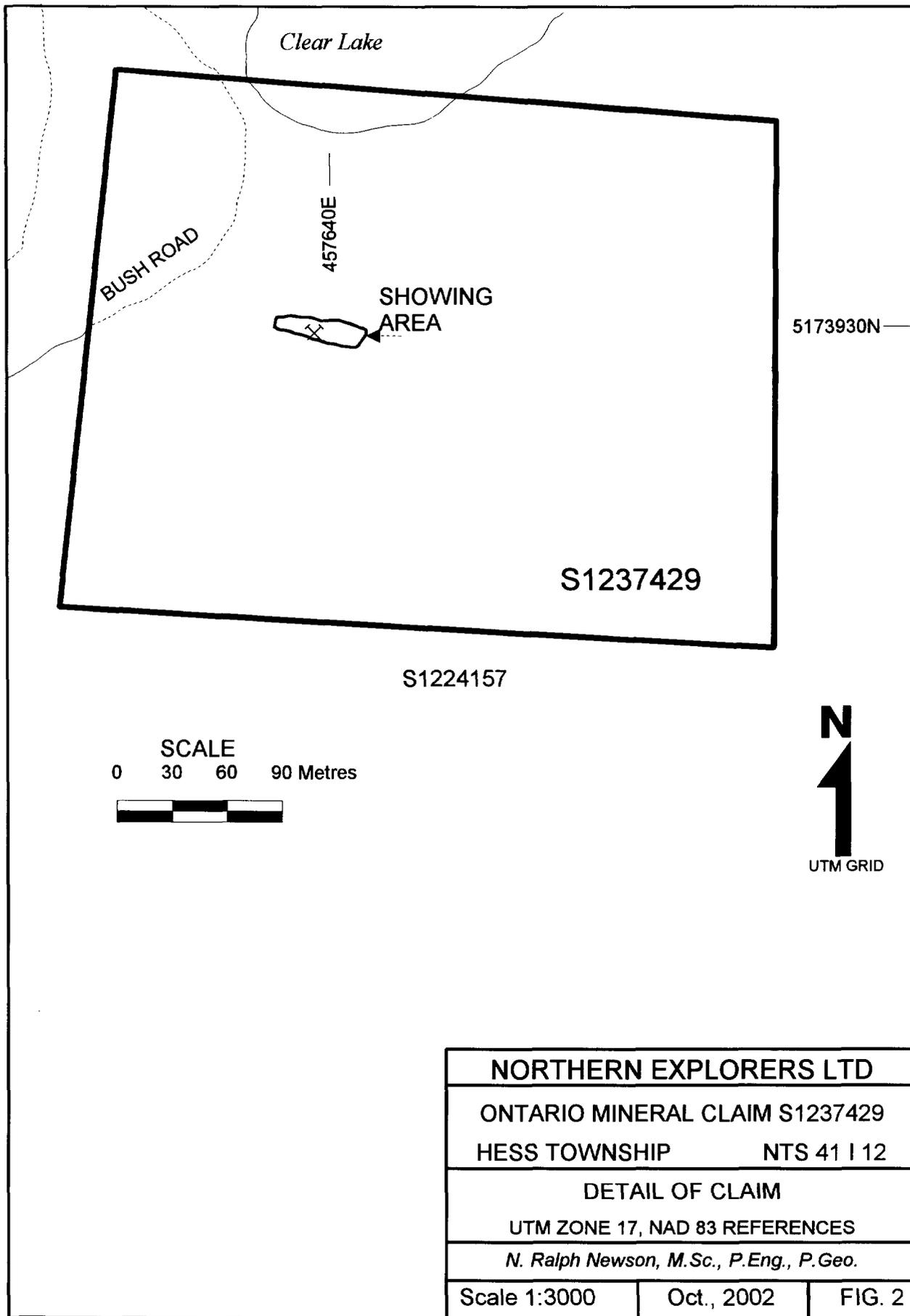
LOCATION MAP

N. Ralph Newson, M.Sc., P.Eng., P.Geo.

Scale: Shown

Oct., 2002

FIG. 1



Clear Lake

BUSH ROAD

457640E

SHOWING
AREA

5173930N

S1237429

S1224157

SCALE
0 30 60 90 Metres



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DETAIL OF CLAIM

UTM ZONE 17, NAD 83 REFERENCES

N. Ralph Newson, M.Sc., P.Eng., P.Geo.

Scale 1:3000

Oct., 2002

FIG. 2

and calcite throughout the deposit.

The magnetite deposit is underlain by metagabbro. The metagabbro is fine-grained and altered (to chlorite and amphibole) within 60 to 100 cm of the contact with the magnetite, but alteration decreases and grain size increases away from it, i.e. to the south. At a distance of about 30 m from the contact, the metagabbro is coarse-grained and has diabasic texture. Some structural disturbance was noted in the footwall near the centre of the zone, in the form of small-scale folding.

The magnetite body is overlain by limestone, with which it is generally in sharp contact (over about 1- 2 cm), except in one hole where the contact zone was about a metre thick.

4.0 PREVIOUS WORK

In 1966, Jaybee Landry Exploration and Mining Co. Ltd. drilled eight holes into the deposit (assessment work file Hess 0011-D1). They assayed for iron content, probably total iron, since they didn't say otherwise. Analyses from holes near the edge of the deposit were as low as 2.56%, and some intervals were not assayed at all, presumably because they were visibly lacking in magnetite. However, in the main part of the deposit iron values were from 31.8% to 57% over intervals of 5 to 20 feet of core length.

In 1973, J. Bardswich carried out a magnetic survey over the zone, using a Sharpe MF-2 fluxgate magnetometer (assessment work file Hess 0013). Not surprisingly, the deposit gave an anomaly of 50,000 nt. The survey was interpreted to indicate a body of magnetite with horizontal dimensions of 200 feet by 400 feet.

In 1974 and 1975 J. Bardswich and L.S.D. Winters carried out stripping with a bulldozer, and drilled 12 holes for a total of 1112 feet. Iron analyses were by Davis tube, giving only magnetic iron, from which magnetite content can be calculated. This work outlined a body of material 480 feet long, 100 feet thick, and extending 100 feet down dip, having a mass of 456,800 tonnes grading 34% magnetic iron, or 47% magnetite, for a resource of 214,696 tonnes of magnetite (assessment work files Hess 0015-A1, 0015-C1).

In 1976 a gravity survey was carried out to see if body might be larger than determined by drilling, since the drilling left the body open at both ends (assessment work file Hess 0019-B1). The instrument was a Scintrex CG-2 Prospector model. Drift, Bouguer, latitude north, and free-air corrections were done, leaving a positive 0.3 mgal anomaly on three lines. This was interpreted to suggest that the body might extend to 350 feet down dip, but this was qualified by pointing out that some of the mass excess might be accounted for by the diabase.

In 2001, Northern Explorers carried out sampling and testing program (Newson, 2002). The material passed these initial tests, and the work described herein is the next step in evaluating the deposit.

5.0 CURRENT PROJECT

5.1 PURPOSE

The purpose of the work discussed herein was to carry out the second in a series of tests to determine whether the magnetite body on the claim is suitable as aggregate in heavy concrete for shielding nuclear power plants. The tests to be carried out in this second stage require 2 to 3 tonnes of sample. The tests will be carried out by the customer, who will not likely report details of the results, but only whether the material passes or fails.

5.2 METHOD

The sample was taken by collecting broken magnetite-rich rock already covering the bottom of the pit. The broken rock was left over from blasting by a previous owner. The sampling was designed to approximate the overall composition of the zone. Small pieces of rock were picked up by hand. Sledge hammers were used to break smaller pieces off the large pieces of rock blasted by a previous owner. Most of the sample was taken from the western end of the deposit (Fig. 3), because the truck and trailer could be brought only to that point.

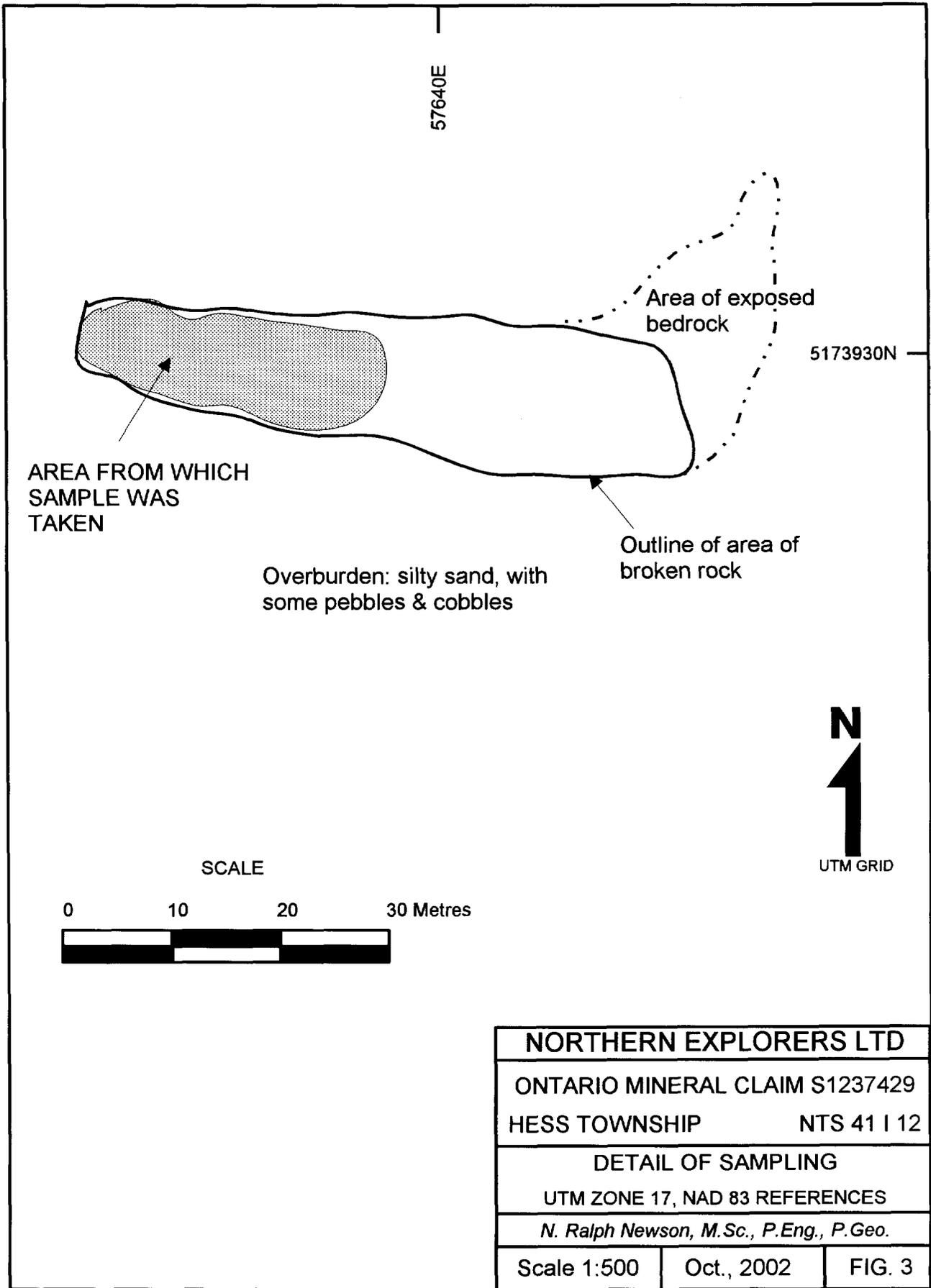
The sample was taken to Picton, Ontario, and delivered to Geomin Ltd., for crushing and sizing in a laboratory-sized plant, and for visual examination before being sent to the potential customer for testing. It was transported in a "¾ ton" truck to Picton, which required two trips, one pulling a trailer.

5.3 RESULTS

Visual examination by Peter Kriens, of Geomin, in Picton, was carried out on the crushed material. It was determined to be essentially the same as the material sampled and tested earlier (Newson, 2002), and should therefore be sent to the potential customer for approval.

6.0 CONCLUSIONS AND RECOMMENDATIONS

1. A sample of 2 to 3 tonnes was taken from the claim. It appears on visual examination to be the same as material previously taken, which was tested for qualities that would make it suitable for use in heavy aggregate, and which passed the tests. The material collected in the work program described in this report should be submitted to the potential customer for approval directly by them.



7.0 REFERENCES AND BIBLIOGRAPHY

MNDM assessment work files*:

Hess 0011-D1	Jaybee Landry Exploration and Mining Co.
Hess 0013	J. Bardswich/L.D.S. Winters
Hess 0015-A-1	"
Hess 0015-C-1	"
Hess 0019-B-1	"
Hess 0020-A-1	"

- These are the numbers on the file folders as they were at the time the writer studied them in the Sudbury office. The AFRI numbers on the MNDM web site are 41 I 12 NE 0001, 0003, 0005, 0007, 0008, and 0010.

•
Newson, N.R., 2002. Northern Explorers Ltd, Ontario mineral claim S1237429, assessment work report, sampling and physical testing of magnetite.

O.D.M. Map P0287, Preliminary map series, Cartier Sheet, Districts of Sudbury and Algoma, geological compilation series,

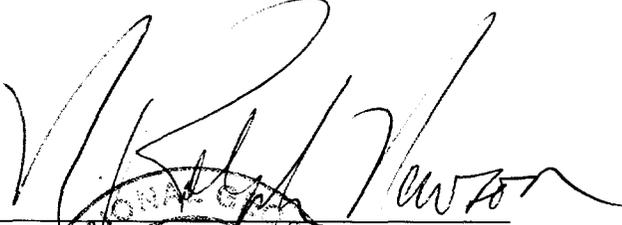
O.D.M.N.A. Map 2188, Sudbury -Cobalt sheet, geological compilation series.

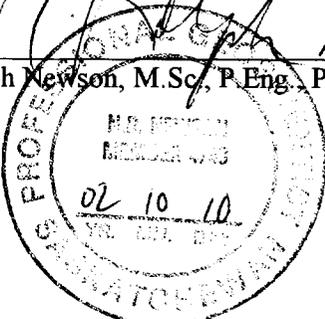
CERTIFICATE

I, Norman Ralph Newson, of 3142 Eastview, Saskatoon, Saskatchewan, do hereby certify as follows:

- 1) That I am a graduate geologist, with B.Sc. and M.Sc. degrees from Queen's University at Kingston, Ontario, received in 1964 and 1970 respectively. I have practised my profession continuously since receiving my undergraduate degree, except for the time spent on course and thesis work for my graduate degree.
- 2) I am the author of the report to which this certificate is attached. My qualifications to write a report of this nature derive not only from my academic qualifications, but from increasingly responsible positions in the mining industry, including middle and senior management. The Sudbury camp was once part of my area of responsibility for a previous employer, and I have visited producing mines and assessed a number of exploration properties in that capacity. I have relied on work by others (GeoMin Inc.) in compiling this report and I believe that they have particular expertise in the aspects of the work that I assigned to them.
- 3) That I am a Member of the Association of Professional Engineers & Geoscientists of Saskatchewan (with Permission to Consult), and a Member of the Association of Professional Engineers & Geoscientists of Manitoba.
- 4) That I believe I am a "qualified person" as defined in National Instrument 43-101. I am a director, officer and majority shareholder of the registered owner of the property discussed herein.
- 5) That this report is based a study of all of the available relevant data on the properties. I carried out the sampling part of the program discussed in the report, and supervised the rest of the work.

The effective date of this report is October 10, 2002.


N. Ralph Newson, M.Sc., P.Eng., P.Geol.



Date: 2002-NOV-06

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
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NORMAN RALPH NEWSON
NORTHERN EXPLORERS LTD.
3142 EASTVIEW
SASKATOON, SASKATCHEWAN
S7J 3J4 CANADA

Tel: (888) 415-9845
Fax: (877) 670-1555

Submission Number: 2.24412
Transaction Number(s): W0270.01639

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,



Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist
Northern Explorers Ltd.
(Claim Holder)

Assessment File Library
Northern Explorers Ltd.
(Assessment Office)



MINING LAND TENURE MAP

Date / Time of Issue Sep 20 2002 14:02h Eastern
TOWNSHIP / AREA HESS PLAN G-4062

ADMINISTRATIVE DISTRICTS / DIVISIONS
Mining Division Sudbury
Land Titles/Registry Division SUDBURY
Ministry of Natural Resources District SUDBURY

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Conservation Lot
- Private Park
- City of Sudbury
- Water
- Contour - Approx. 10m Interval
- Sheet
- Water Headlines
- Powerlines
- Power
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Manmade / Cultural / Historical / Archaeological

LAND TENURE

Freehold Interest

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Interest

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation

- Leases not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Other Land Tenure

- Land Use Permit
- Order In Council
- Water Transfer License Agreement
- Mining Claims

LAND TENURE WITHDRAWALS

Areas Withdrawn From Disposition

- W/S - Mining Agreement
- W/S - Surface Rights Only Withdrawal
- W/S - Order In Council Withdrawal
- W/S - Mining Agreement
- W/S - Surface Rights Only Withdrawal
- W/S - Mining Agreement

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Withdrawal No.	Type	Date	Description
0013	W/S	Jan 1 2001	FISHING AGRI-GATE APPLICATION
W.L. 20198	W/S	May 18 1998	SECS 36-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1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