

**Savage
Resources
Limited**

91-3261R

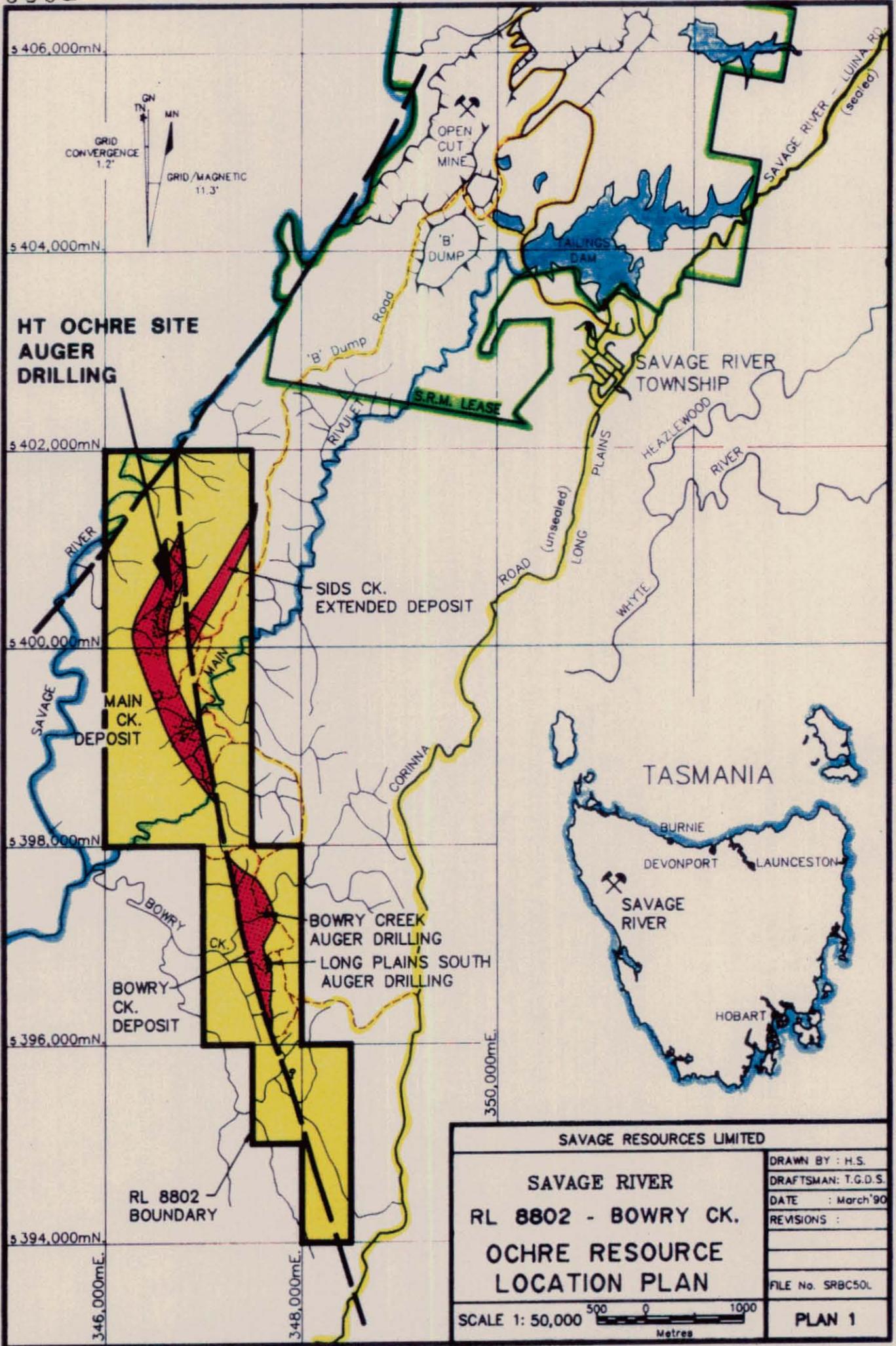
A
 MINERAL RESOURCE
 AND
 ORE RESERVE
 ESTIMATE
 FOR
 HT DRILLSITE AREA

91-3261

MINES	
File Ref. RL 8802	
- 6 MAY 1991	
Doc. Ref.	
Action Officer	Initials
REFER	TO
CORRES	2.5.91
Resubmit to	Date

RECEIVED

SAVAGE RESOURCES LTD
 MAY 1990



**HT OCHRE SITE
AUGER
DRILLING**

**SAVAGE RIVER
MAIN CK.
DEPOSIT**

**BOWRY CK.
DEPOSIT**

**RL 8802
BOUNDARY**

**SIDS CK.
EXTENDED DEPOSIT**

**BOWRY CREEK
AUGER DRILLING
LONG PLAINS SOUTH
AUGER DRILLING**

**OPEN
CUT
MINE**

'B' DUMP

**TAILINGS
DAM**

S.R.M. LEASE

**SAVAGE RIVER
TOWNSHIP**

TASMANIA

**BURNIE
DEVONPORT
LAUNCESTON**

**SAVAGE
RIVER**

HOBART

SAVAGE RESOURCES LIMITED

**SAVAGE RIVER
RL 8802 - BOWRY CK.
OCHRE RESOURCE
LOCATION PLAN**

SCALE 1: 50,000 500 0 1000
Metres

**DRAWN BY : H.S.
DRAFTSMAN: T.G.D.S.
DATE : March '90
REVISIONS :
FILE No. SRBC50L**

PLAN 1

5 cm

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1. INTRODUCTION

This the first Mineral Resource and Ore Reserve Estimate for the HT auger drillsite area.

The resource statement and its component parts are dependent upon a database derived from geological information gathered during two drilling programmes. The influence of laboratory test work is, at this stage, confined to the estimate of the ochre's specific gravity.

1.1 HT Auger Drillsite Area

The HT auger drillsite area is part of the Main Creek (fine-grained) Iron Oxide deposits (Plan 1).

The area under investigation extends over some 16% of the Main Creek deposit (Plan 2).

Drillhole coverage is confined to the eastern half of this deposit immediately north of the arcuate flexure in the regional strike.

The drillsite area comprises a strike length of about 600m and a width of 200m.

The terrain found here is somewhat typical for the area in general with occasional, generally boggy, low-lying flats, grading through steep valley-slopes, to well-drained, undulating ground.

Access is provided by way of 4WD tracks.

1.2 Drilling

The two drilling programmes used a trailer-mounted Gemco auger drillrig which was, for the most part, towed by a trackcator.

The rig and crew was provided on both occasions by Stackpole of Launceston. (Indeed the same crew and rig was used by MK Silica to delineate their silica flour deposit at Doodie Creek.)

The drilling programme of June 1989 provided the bulk of the "H series" drillholes.

The second programme infilled part of the "H series" and provided all of the "J series" drillholes.

Drillhole coverage extends to include some 101 drillholes with in excess of 4000 metres drilled.

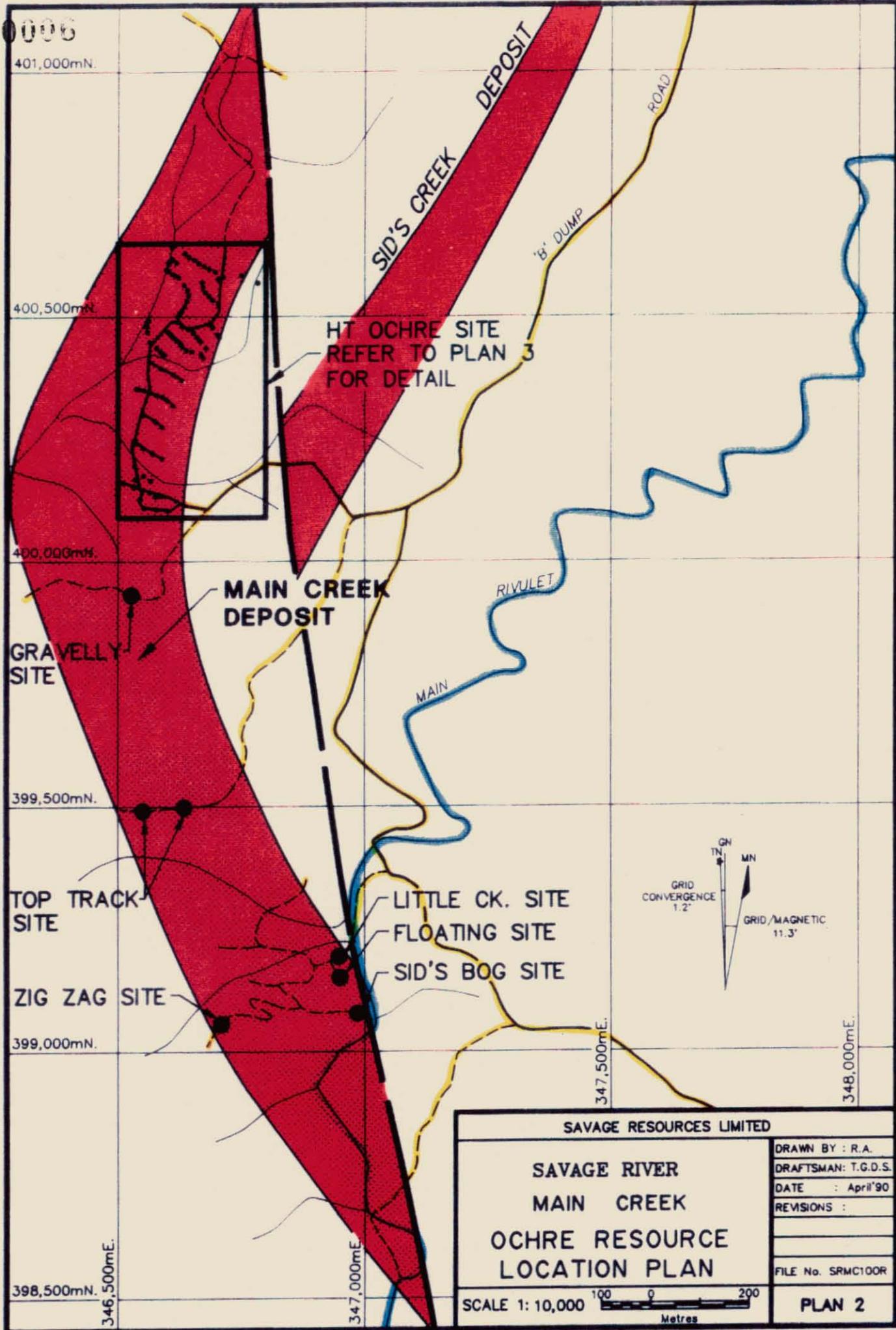
1.3 Techbase

Ore reserve estimations have been modelled using the Techbase engineering database management system.

Techbase is the product of Minesoft Ltd. of Denver, USA and is marketed in Australia by D. Fitzgerald and Associates of Melbourne.

Techbase is a relational database manager for use with mine engineering and other geotechnical data.

The Techbase Application Packages were run on an NEC Powermate 286 plus personal computer.



006
401,000mN.
400,500mN.
400,000mN.
399,500mN.
399,000mN.
398,500mN.

SID'S CREEK DEPOSIT

HT OCHRE SITE
REFER TO PLAN 3
FOR DETAIL

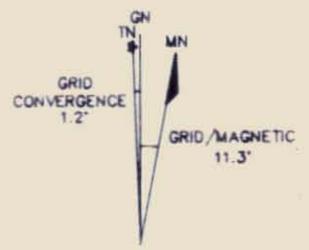
MAIN CREEK DEPOSIT

GRAVELLY SITE

TOP TRACK SITE

ZIG ZAG SITE

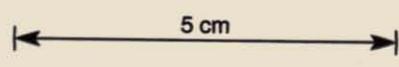
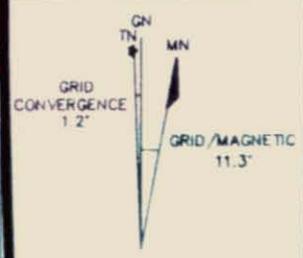
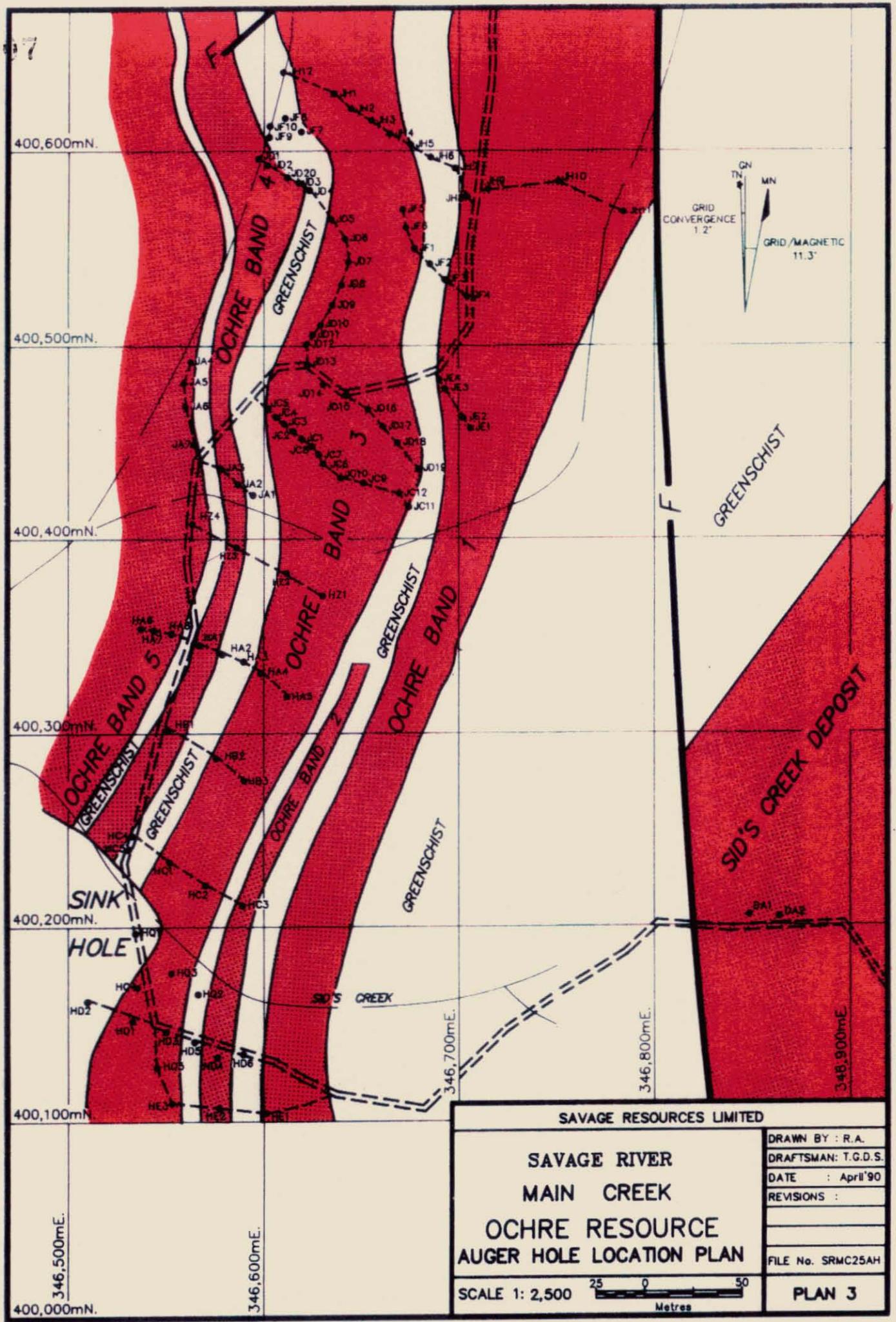
LITTLE CK. SITE
FLOATING SITE
SID'S BOG SITE



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER MAIN CREEK OCHRE RESOURCE LOCATION PLAN	
SCALE 1: 10,000	100 0 200 Metres
DRAWN BY : R.A. DRAFTSMAN: T.G.D.S. DATE : April'90 REVISIONS : FILE No. SRMC100R	
PLAN 2	

5 cm

0007



2. GEOLOGY

Geological control is provided by numerous drillholes and bedrock exposures along the creek beds.

Essentially the drillsite area consists of alternating bands of ochre, derived from the magnesite, and greenschist.

Evidence of magnesite may not necessarily prove overlying ochre as the magnesite's superficial cover contains non-ochre phases such as sand.

The sequence is further complicated by karst related pipe structures and sinkhole subsidence.

Weathered bedrock ochre is termed residual ochre and is recognised by relict textures.

Reworked ochre results from erosion and redeposition of residual ochre.

These ochres are less pure and contain varying amounts of greenschist derived wash material.

3. DRILLING

3.1 Sampling Procedure

The drill-hole drilling interval was 1.5m, i.e. the length of the auger flight, although this was sometimes extended to 3m and occasionally 4.5m when the drillhole extended to depths greater than 15m.

Drilling was confined to vertical holes. Any digression from this axis was not recorded and all holes are presumed to remain at their collar inclination over the entire drillhole length.

Drillcore material adhering to the auger flight was first removed of its smeared and contaminated outer rind. The sample was inspected and bagged on the drilled interval although colour and geological changes generally required the interval to be sub-sampled.

3.2 Drillcore Description

Field descriptions of the drillcore material provide:

- (a) rock description, and its matrix where applicable,
- (b) quantity and nature of the contaminant material,
- (c) other features, eg. residual or reworked ochre,
- (d) immediate mass colour
- (e) dispersed colour and,
- (f) dry slip colour.

The descriptive drillcore logs for the "J series" drillholes required a complete re-write of most of the early "H series" drillholes.

While some drillhole intervals do not contain a description of the dispersed or dry-slip colour the drillhole data is essentially compatible.

4. TECHBASE

4.1 Database Entry

Some 1517 records have been loaded to the computer database. Essentially the database records are a duplicate of the geologist's drillhole log but without those minor descriptions which are non-essential for the ore reserve estimate.

4.2 Ore Reserve Estimate

The ore reserve estimate is calculated using a Polygon Ore Reserve method. This is implemented in Techbase with the Polyest Option. The estimate is the product of a number of computer algorithms which basically provides the manipulation of calculated fields, within the Techbase database, to an output field generated by the Polyest Application Package.

The calculated field is provided by the following formula:

specific gravity * recovery factor * interval length 1

In its simplest form the Polyest Application Package has been set to provide a range of areas. The calculation uses a 12 sided polygon whose radius is at most either 5, 10, 20, 30 or 40m.

The tonnage of the recovered pigment is provided by:

product of formula 1 * polygon area

5. ASSUMPTIONS

5.1 Specific Gravity

A number of casual observations suggests that the specific gravity of the ochre may well not be constant.

Indeed the sight of a yellow ochre floating on a stream of returned drill-water, during drilling operations outside of this investigative area, implies that some specific gravity values could well be below 1 g/cc.

Only one density calculation has been made on ochre material from the drillsite area. A trepanned core of sub-sample material from the site of HT 5/1 (costean sample) provided a specific gravity of 1.24 g/cc. This value has been assigned to all the records.

However sufficient flexibility within the database fields will, if needed, allow each record to have its own specific gravity.

5.2 Recovery Factor

The recovery factor field has been created to provide an ore reserve which, after all beneficiation processes have been completed, estimates a recovered/final pigment tonnage.

Where the amount of contaminated material has not been reported in the drill logs the following remarks have been interpreted: (see over)

0019

description	% contaminants
subsoil	60
abundant	30
greenschist breccia	25 + clasts
minor, clasts	10
some greenschist	8
occasional, some, chips	5
few, sparse	2

The calculated recovery factor was obtained by subtracting the contaminant material and that portion of non-ochre material from the sample and then reducing by one half.

5.2.1 Discussion

Yield percentage on a dry basis from laboratory work on ochre samples to date is shown below.

Table 1

sample #	% Fe ₂ O ₃	Lab Yield dry basis	Database rec factor	% less than lab yield
HB2/1-3	54.8	54.9	45.0	18.0
HB2/4&5	34.8	39.9	41.3	- 3.5
HB2/6-8	30.1	61.2	32.7	46.6
HB2/9-11	23.1	33.8	9.4	72.2
HB2/12&13	26.8	59.0	16.6	71.9
HB3/1	20.1	49.9	22.5	54.9
HB3/2&3	32.4	47.1	22.5	52.2
HB3/4	50.8	61.0	47.5	22.1
HB3/5&6	70.7	58.9	47.5	19.4
HB3/7-9	64.1	50.0	47.5	5.0
HB3/10&11	64.5	46.5	47.5	- 2.2
HB3/12	48.4	28.2	47.5	-68.4
HA4/4	34.2	16.1	22.5	-39.8

In most cases the database recovery factor is very much lower than the laboratory yield percentage.

However the iron content of the laboratory material indicates that a further beneficiation of the material is required before final pigment is to specification. The removal of this gangue material will reduce the laboratory yield percentage to somewhere near that of the database recovery factor.

5.3 Colour

The mass colour of the sample was assigned using the Munsell Rock Colour Chart.

Colour descriptions were later refined to a comparison of the colour chips within the Munsell Soil Colour Chart.

The colour description is currently being augmented to include both a colour of the dispersed ochre in water and its subsequent dried slip colour.

5.3.1 Interpretation of Colour

The interpretation of these colours, combined with an understanding of the accuracy of the field observation, defines the Pen Id database field.

The vast majority of the ochre samples can readily be grouped into three basic colours; red (pen id 2), yellow (pen id 7), and brown (pen id 8).

Those samples of intermediate colour, such as a brown-yellow, brown-red or yellow-red, are in most cases assigned as a brown.

6. MINERAL RESOURCE ESTIMATES

6.1 Guidelines

The estimates conform to the "Australian Code for Reporting of Identified Mineral Resources and Ore Reserves, Joint Committee AIMM & AMIC, June 1982", with the following riders.

A polygon radius of 5m defines an area where the geoscientific information is reliable. Where two adjacent 5m polygon areas touch it is assumed that there is evidence of continuity of the sample data. The resource assessment associated with this area can be classified as "Measured".

A polygon radius greater than 5m and less than 10m defines an area where the data is known with a reasonable level of reliability but insufficient to provide a reasonable indication of continuity. This resource assessment can be considered as "Indicated".

The polygon radius greater than 10m but less than 40m defines an area where the geoscientific data is inferred. The resource assessment associated with this area can be considered as "Inferred".

6.2 TOTAL RESOURCE, HT Drillaite Area

This resource estimation provides a recovered pigment tonnage for the HT drillsite area (Appendix 1).

Known greenschist bands have been highlighted and all polygons have been confined to the known ochre areas (plans 5-9).

Table 2

	Tonnage Yellow	Tonnage Brown	Tonnage Red	TOTAL Tonnage
measured	12,100	13,800	4,300	30,200
indicated	23,000	29,000	7,000	59,000
inferred	95,000	132,000	33,000	260,000

6.3 PREFERRED SITES RESOURCE, HT Drillsite Area

The data density is sufficient to outline those areas within the total HT drillsite area that have the potential both for large quantities of near-surface ochre and good ochre colour characteristics.

The resource estimate shown below in Table 3 requires the polygons to be clipped to both the greenschist bands and the preferred site areas (plans 10-14).

A full breakdown, by both drillhole and preferred area, is given in Appendix 2.

Table 3

	Tonnage Yellow	Tonnage Brown	Tonnage Red	TOTAL Tonnage
measured	8,700	10,800	2,500	22,000
indicated	16,000	22,000	4,000	42,000
inferred	54,000	82,000	8,000	144,000

0013

6.4 PREFERRED SITES - NEAR SURFACE RESOURCE, HT Drillsite Area

The preferred sites can be further refined to provide an estimate of the quantity of the near surface ochre.

An estimate of the quantity of ochre lying between 2.5m and 15m beneath the surface, as shown in Table 4, may well provide an estimation of the amount of ochre that can easily be won by conventional open pit methods.

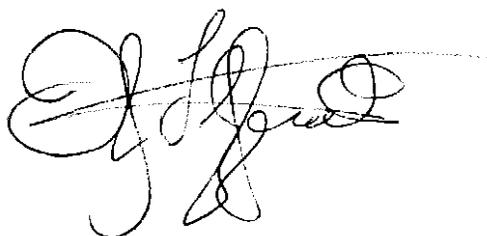
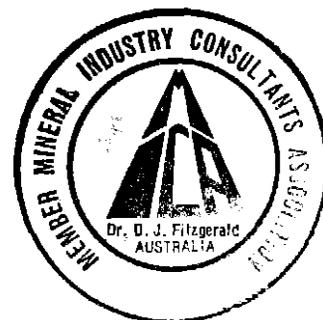
Table 4

	Tonnage Yellow	Tonnage Brown	Tonnage Red	TOTAL Tonnage
measured	6,100	6,000	1,600	13,700
indicated	10,900	12,500	2,400	25,800
inferred	39,500	45,000	7,000	91,500

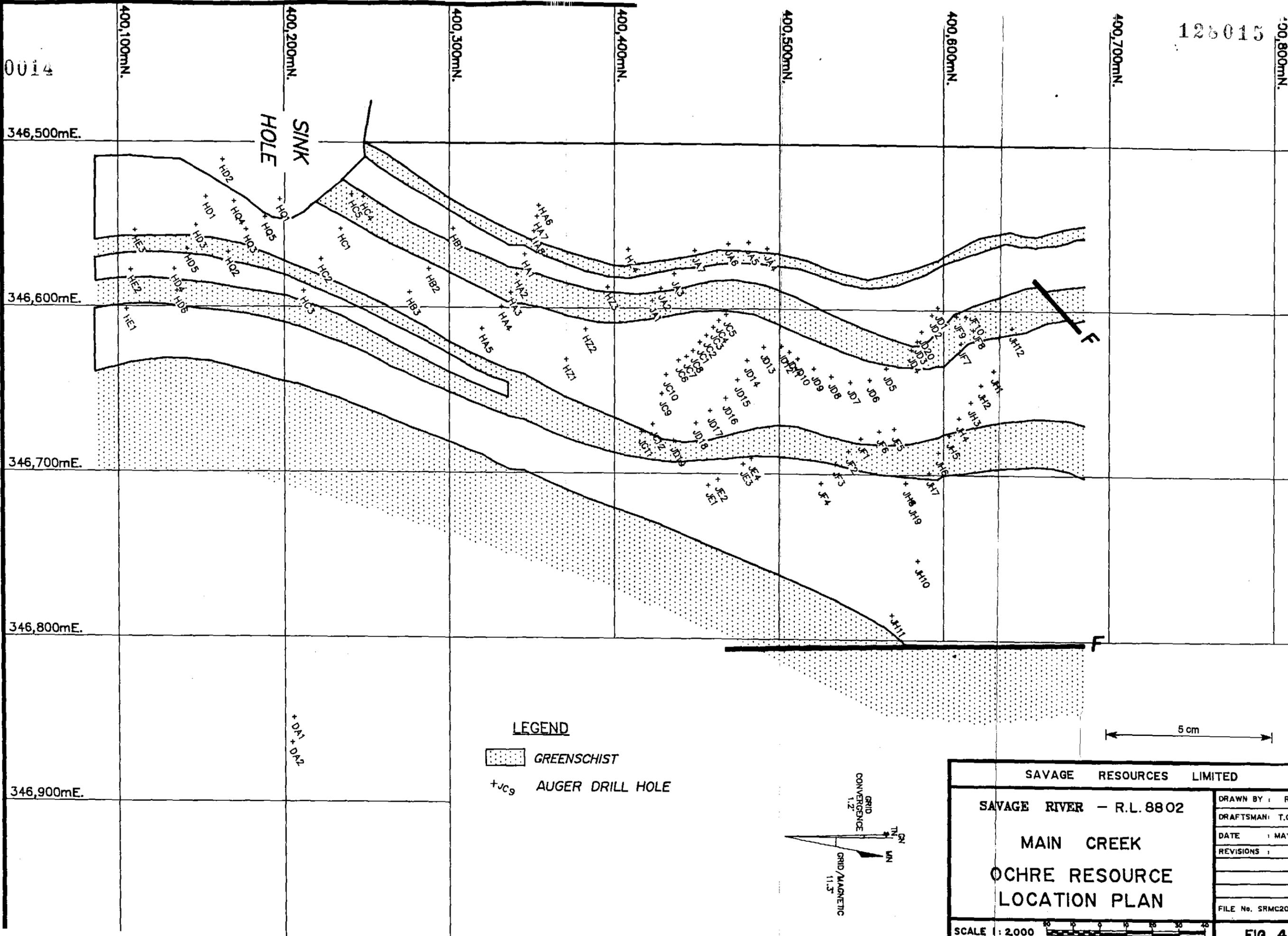
7. ORE RESERVE

The term "ore reserve" has not been used to describe any of the tonnage estimates.

An "ore reserve" implies technical feasibility and economic viability and is only appropriate when technical and economic factors have been considered.

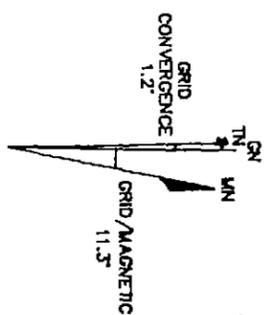



126015



LEGEND

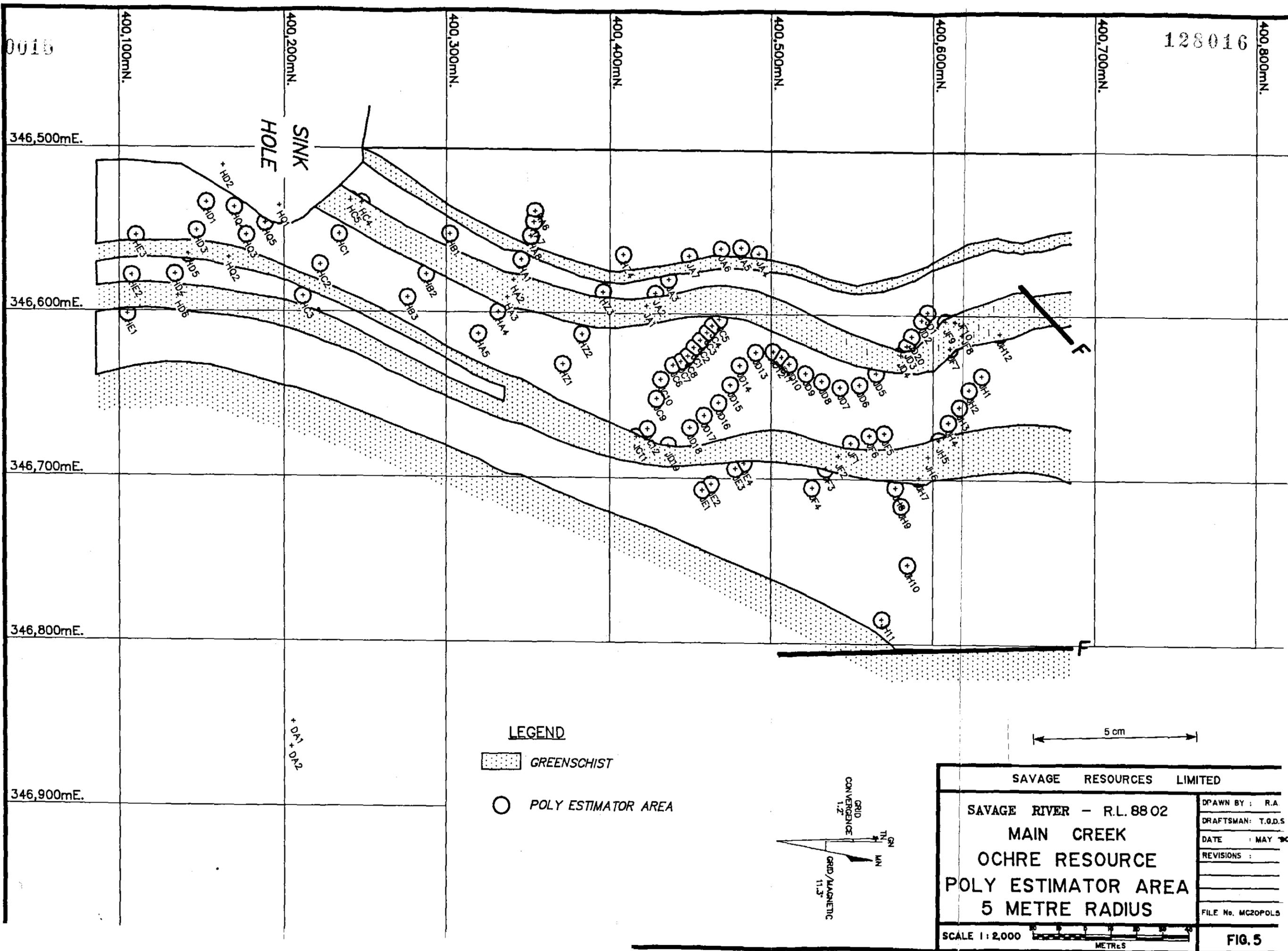
-  GREENSCHIST
-  AUGER DRILL HOLE



5 cm

SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802	
MAIN CREEK OCHRE RESOURCE LOCATION PLAN	
DRAWN BY : R.A.	DATE : MAY '90
DRAFTSMAN: T.G.D.S.	REVISIONS :
FILE No. SRMC20L	FIG. 4

SCALE : 2,000 METRES

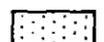


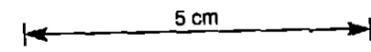
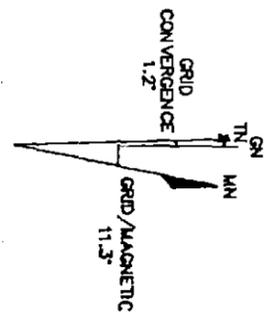
0018

128016

SINK HOLE

LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 88 02	
MAIN CREEK	
OCHRE RESOURCE	
POLY ESTIMATOR AREA	
5 METRE RADIUS	
DRAWN BY : R.A.	DATE : MAY '90
DRAFTSMAN: T.G.D.S	REVISIONS :
FILE No. MC20POL5	
SCALE 1:2,000	
	

FIG. 5

0016

128017

346,500mE.

346,600mE.

346,700mE.

346,800mE.

346,900mE.

400,100mN.

400,200mN.

400,300mN.

400,400mN.

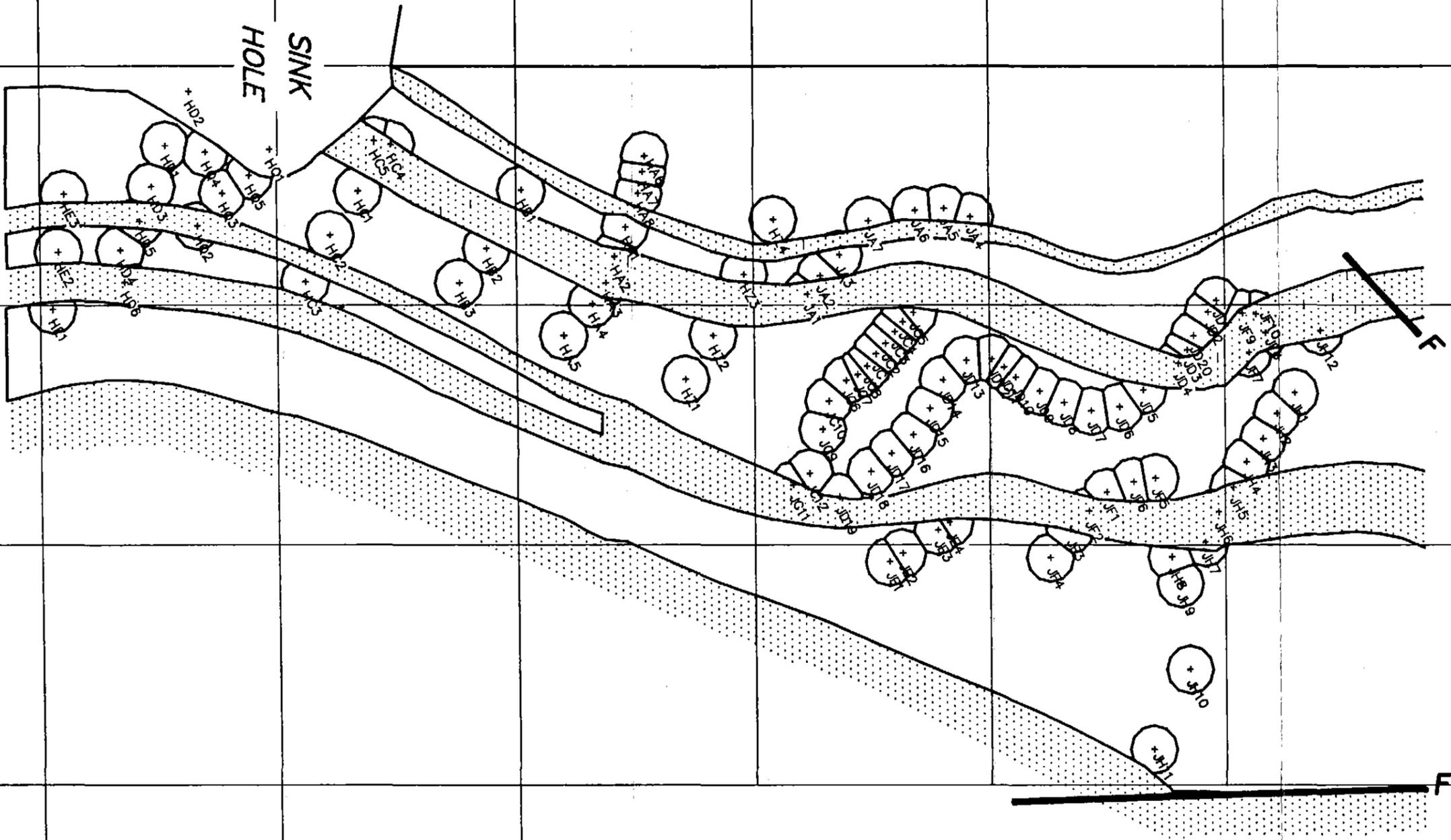
400,500mN.

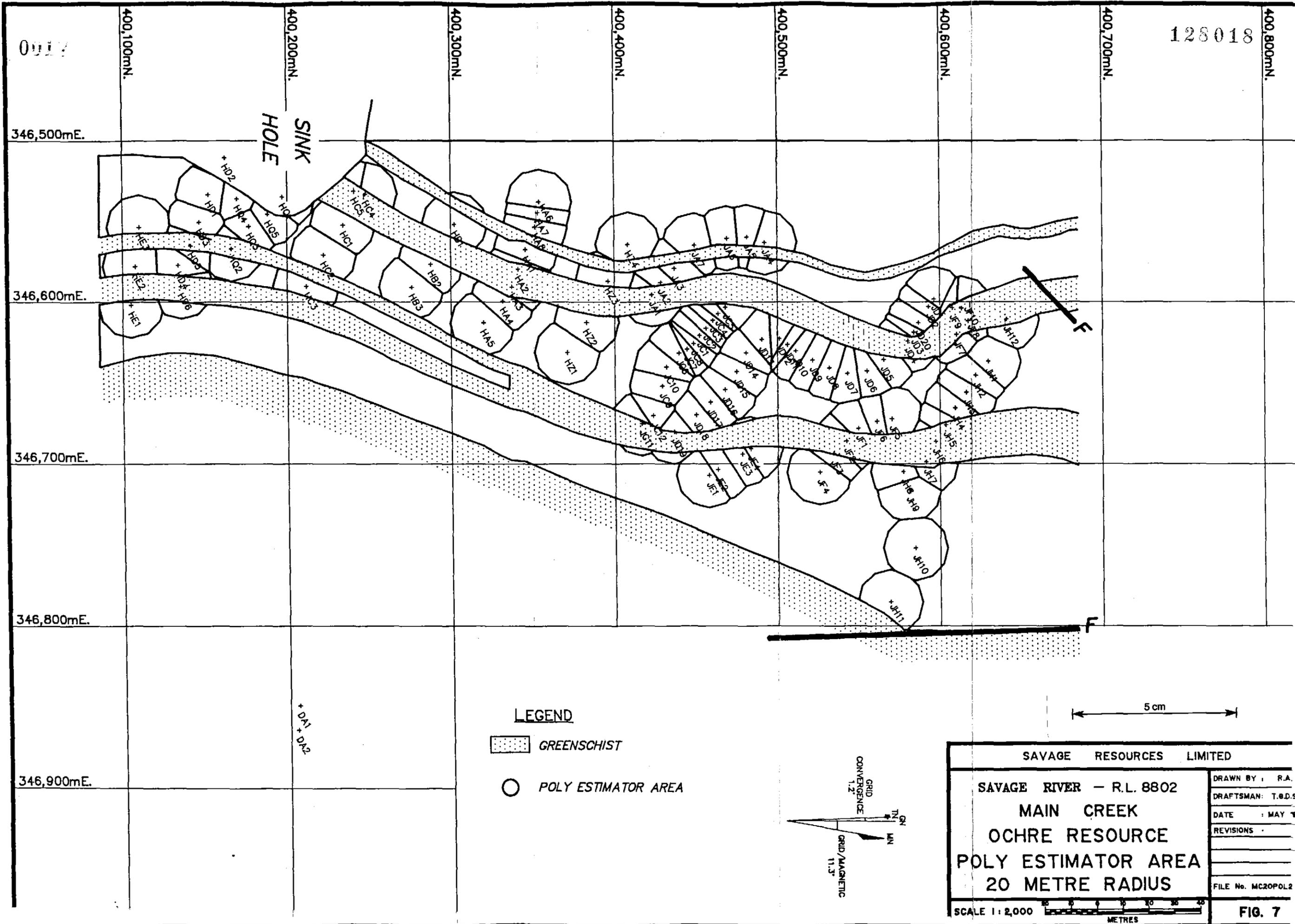
400,600mN.

400,700mN.

400,800mN.

HOLE
SINK





128018

0017

346,500mE.

346,600mE.

346,700mE.

346,800mE.

346,900mE.

400,100mN.

400,200mN.

400,300mN.

400,400mN.

400,500mN.

400,600mN.

400,700mN.

400,800mN.

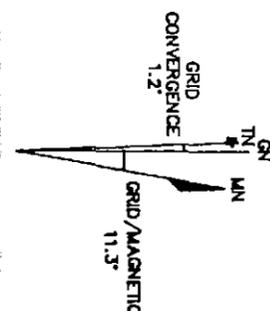
SINK HOLE

LEGEND

GREENSCHIST

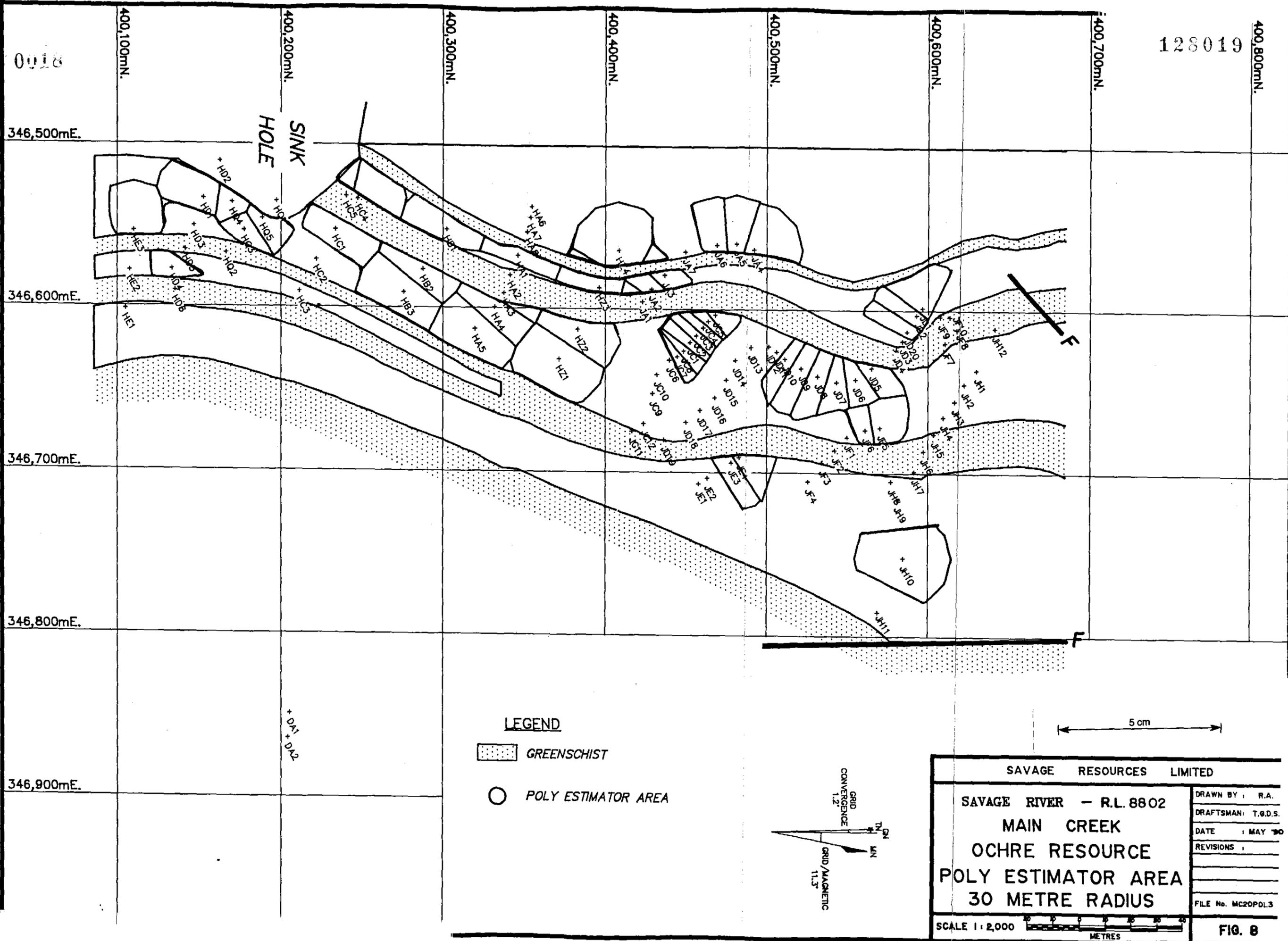
POLY ESTIMATOR AREA

5 cm

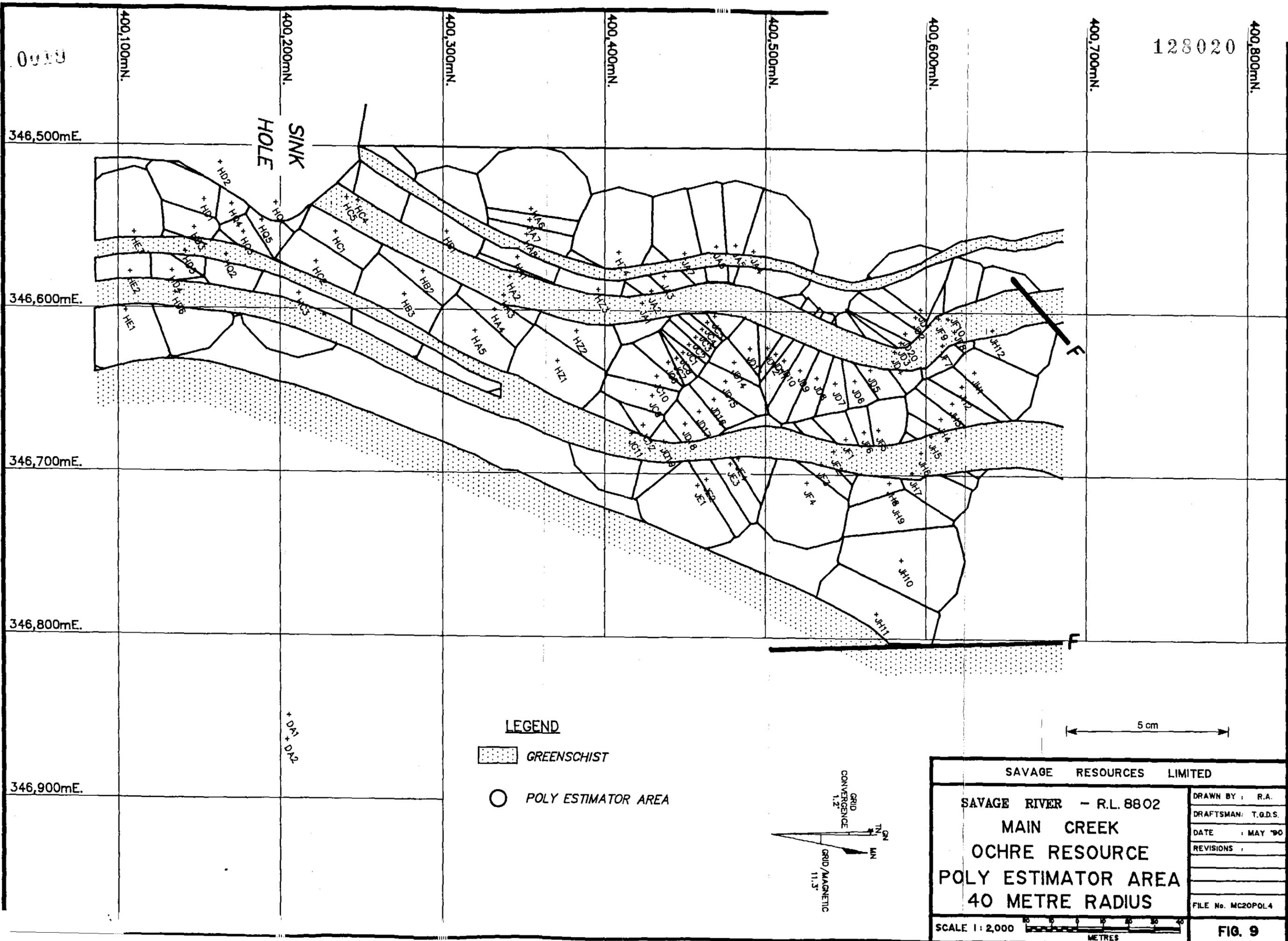


SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802 MAIN CREEK OCHRE RESOURCE POLY ESTIMATOR AREA 20 METRE RADIUS	
DRAWN BY: R.A.	DRAFTSMAN: T.D.S
DATE: MAY '90	REVISIONS:
FILE No. MC20POL2	
SCALE 1:2,000 METRES	
FIG. 7	

128019



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802	
MAIN CREEK	
OCHRE RESOURCE	
POLY ESTIMATOR AREA	
30 METRE RADIUS	
SCALE 1:2,000	METRES
DRAWN BY: R.A.	DRAFTSMAN: T.G.D.S.
DATE: MAY '90	REVISIONS:
FILE No. MC20POL.3	
FIG. 8	



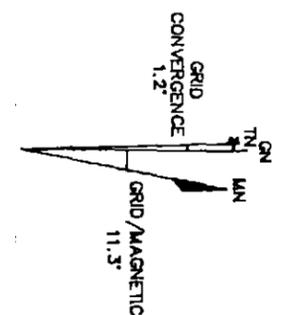
0919

128020

SINK HOLE

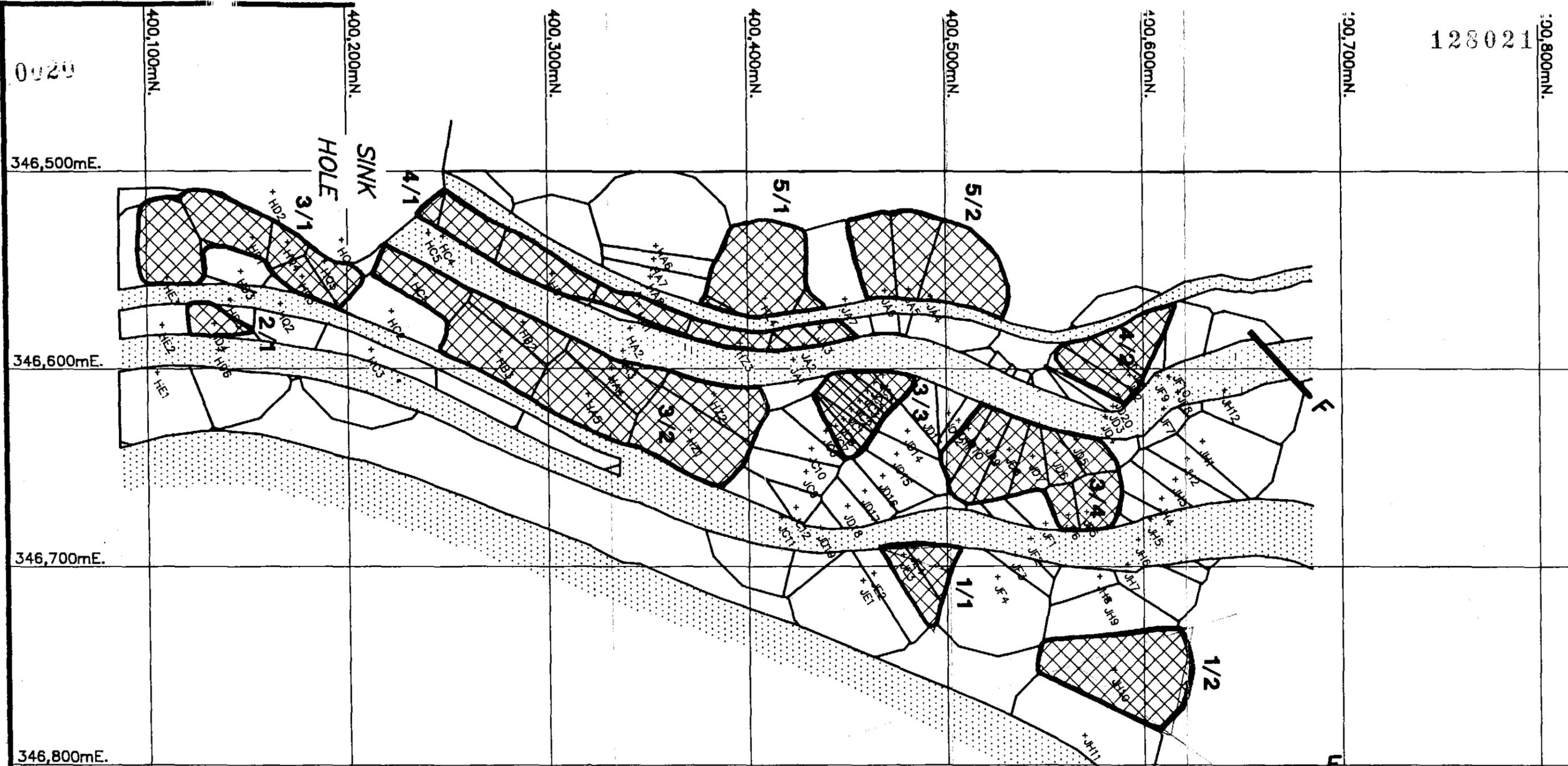
LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802	
MAIN CREEK	
OCHRE RESOURCE	
POLY ESTIMATOR AREA	
40 METRE RADIUS	
SCALE 1:2,000	
DRAWN BY: R.A.	DRAFTSMAN: T.G.D.S.
DATE: MAY '90	REVISIONS:
FILE No. MC20POL4	FIG. 9

128021



0029

346,500mE.

346,600mE.

346,700mE.

346,800mE.

346,900mE.

400,100mN.

400,200mN.

400,300mN.

400,400mN.

400,500mN.

400,600mN.

400,700mN.

400,800mN.

SINK
HOLE

4/1

5/1

5/2

3/1

2/1

1/1

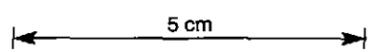
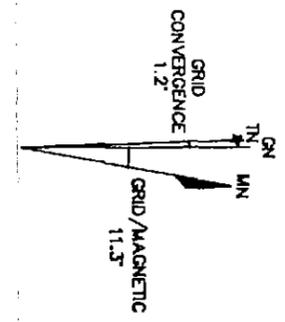
1/2

LEGEND

GREENSCHIST

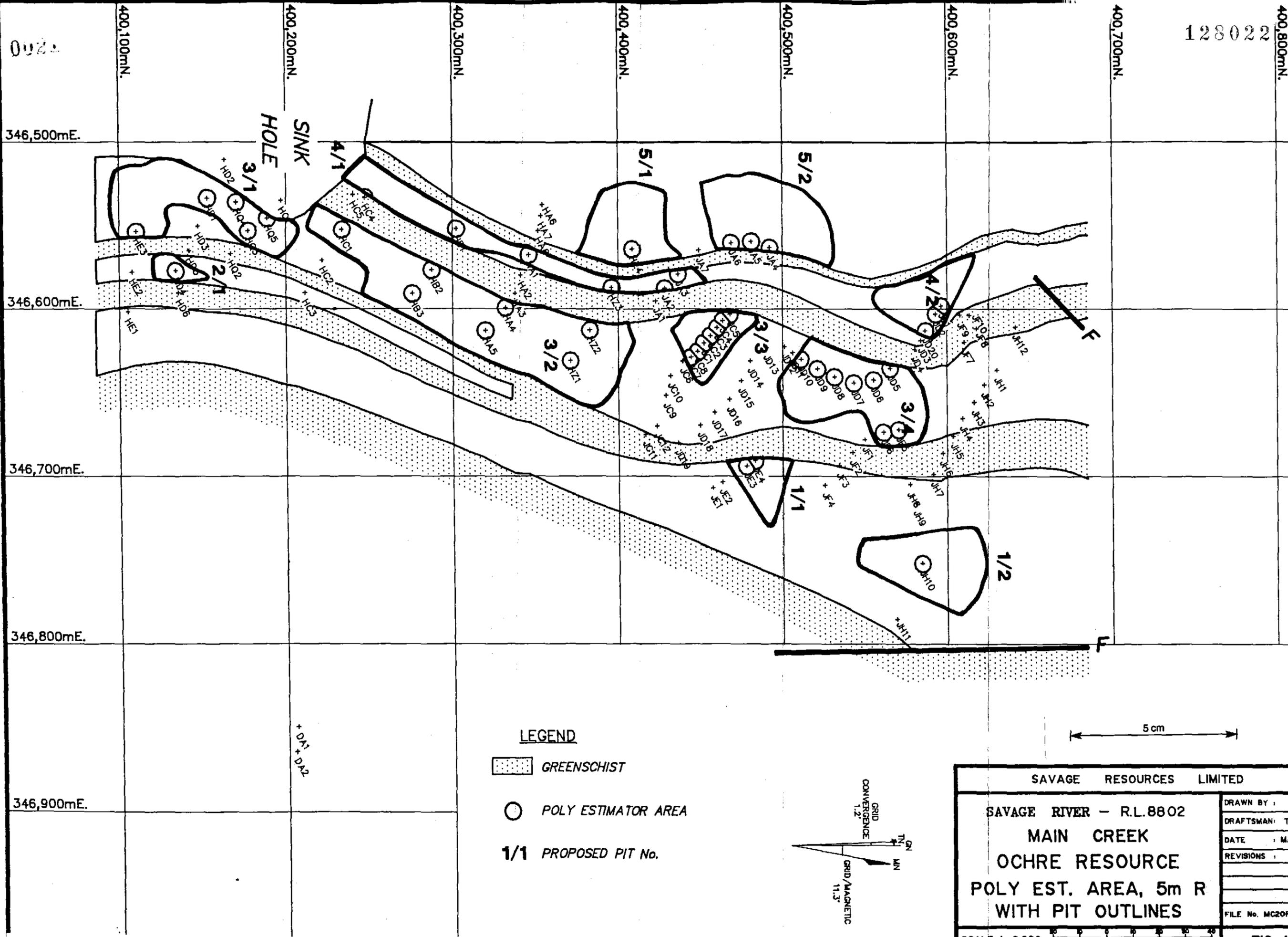
POLY ESTIMATOR AREA

PROPOSED PIT No.



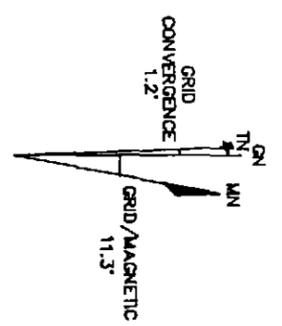
SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802 MAIN CREEK OCHRE RESOURCE POLY EST. AREA, 40m R PROPOSED PITS	
SCALE 1:2,000	
METRES	
DRAWN BY : R.A. DRAFTSMAN: T.G.D.S. DATE : MAY '90 REVISIONS : FILE No. MC20PP4	FIG. 10

128022



LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA
- 1/1** PROPOSED PIT No.



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L.8802	
MAIN CREEK	
POLY EST. AREA, 5m R	
WITH PIT OUTLINES	
SCALE 1:2,000	
DRAWN BY : R.A. DRAFTSMAN : T.O.D.S. DATE : MAY '90 REVISIONS : FILE No. MC20P15	FIG. 11

0022

128023

346,500mE.

346,600mE.

346,800mE.

346,900mE.

400,100mN.

400,200mN.

400,300mN.

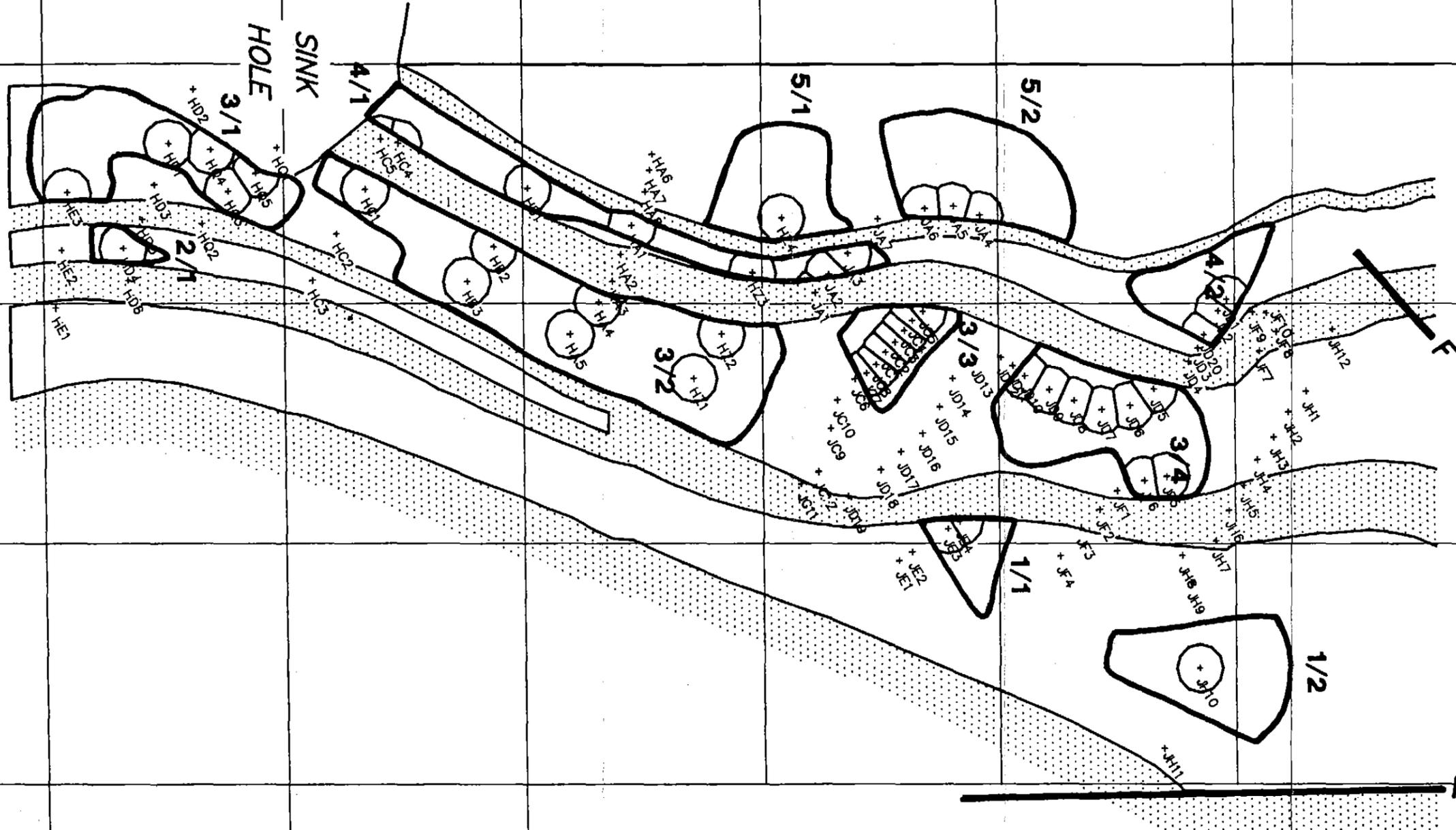
400,400mN.

400,500mN.

400,600mN.

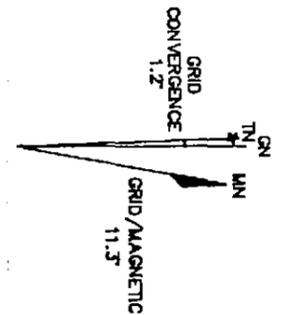
400,700mN.

400,800mN.

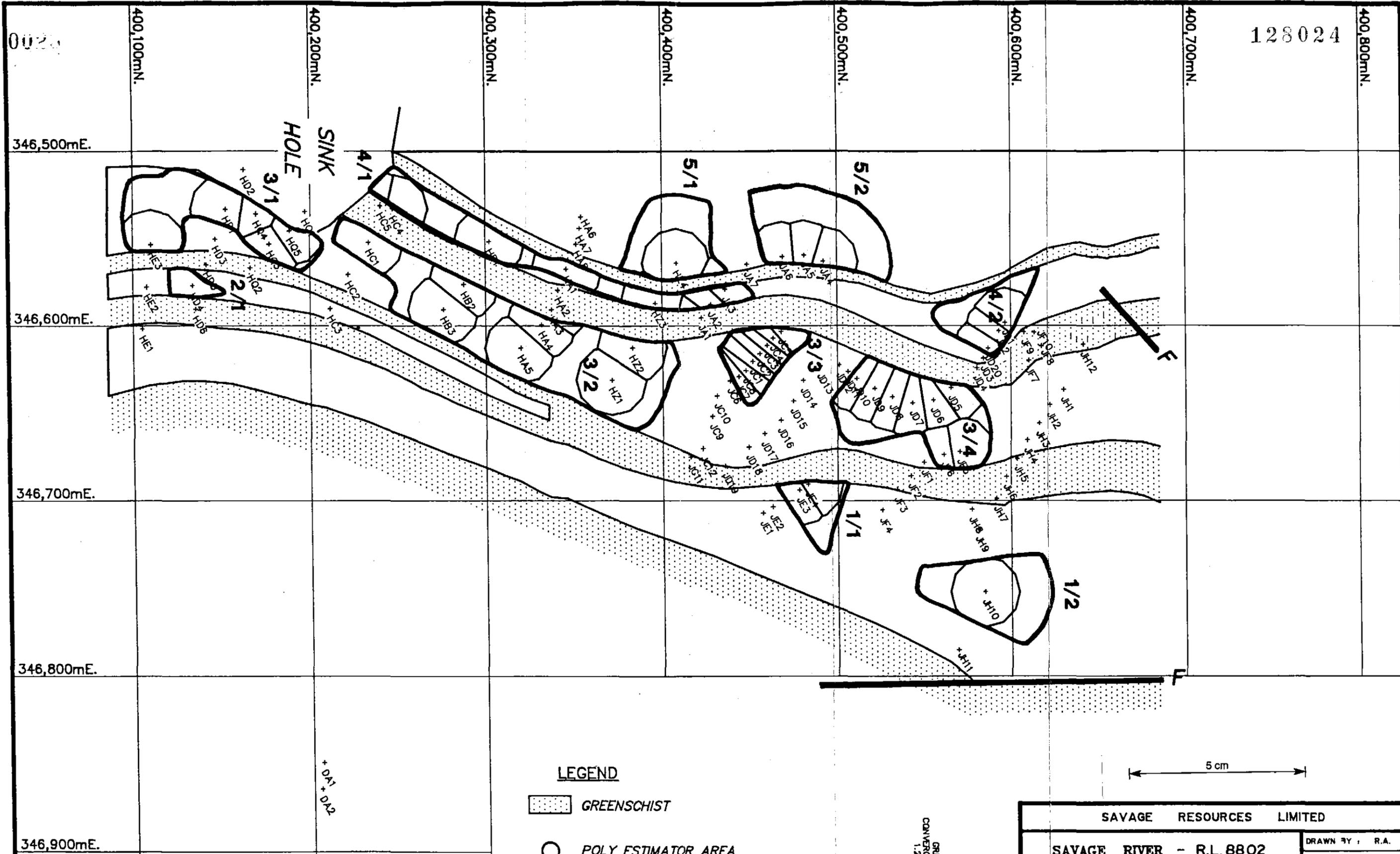


LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA
- 1/1** PROPOSED PIT No.

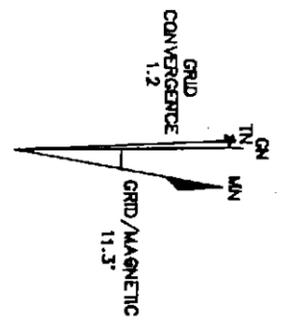


SAVAGE RESOURCES LIMITED							
SAVAGE RIVER - R.L. 8802							
MAIN CREEK							
OCHRE RESOURCE							
POLY EST. AREA, 10m R							
WITH PIT OUTLINES							
SCALE 1:2,000							
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">DRAWN BY - R.A.</td> <td style="width: 50%;">DATE - MAY '80</td> </tr> <tr> <td style="width: 50%;">DRAWN BY - T.G.D.S.</td> <td style="width: 50%;">REVISIONS :</td> </tr> <tr> <td colspan="2">FILE No. MCRPITI</td> </tr> </table>		DRAWN BY - R.A.	DATE - MAY '80	DRAWN BY - T.G.D.S.	REVISIONS :	FILE No. MCRPITI	
DRAWN BY - R.A.	DATE - MAY '80						
DRAWN BY - T.G.D.S.	REVISIONS :						
FILE No. MCRPITI							
FIG. 12							

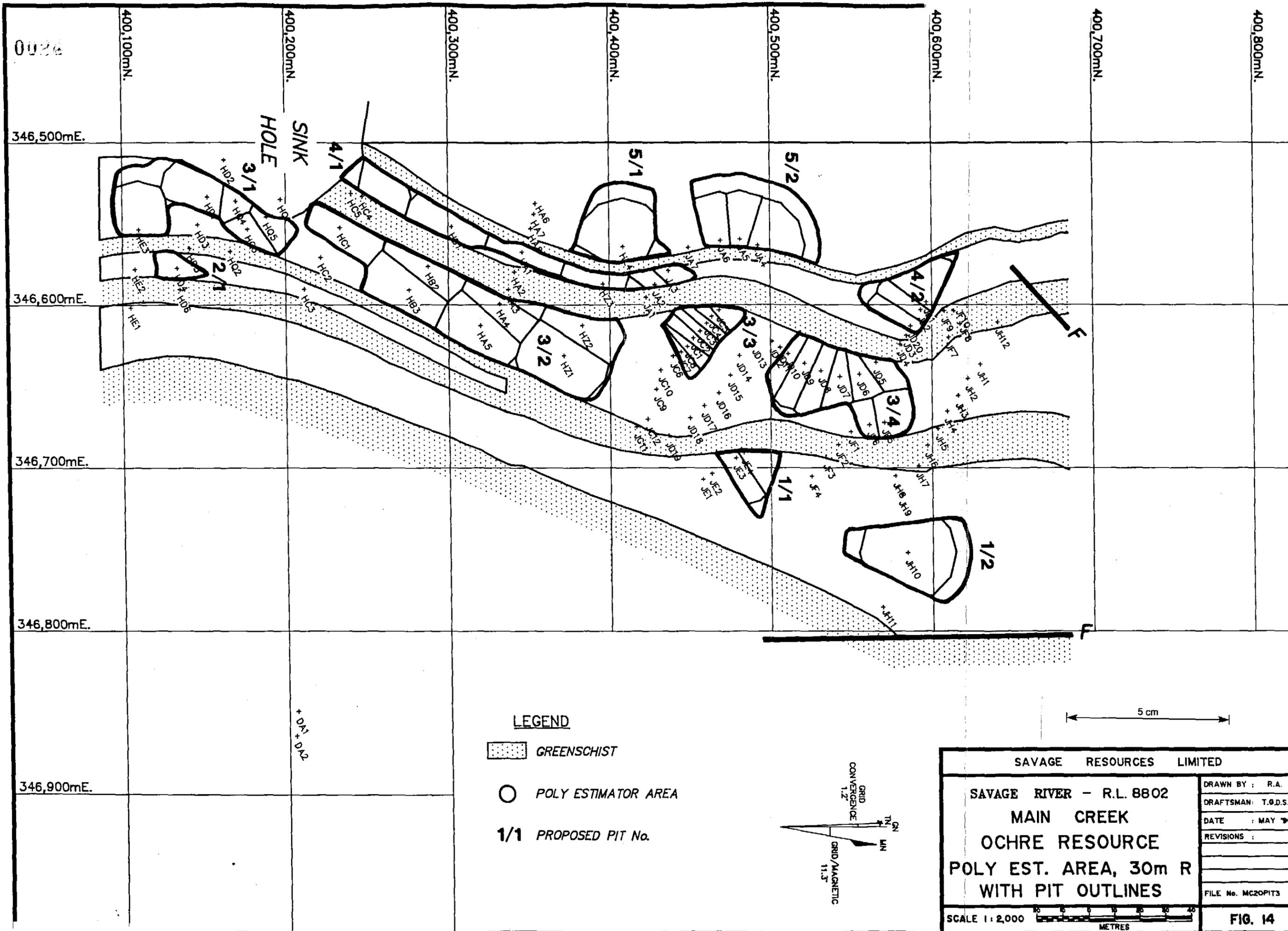


LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA
- 1/1** PROPOSED PIT No.

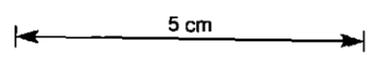
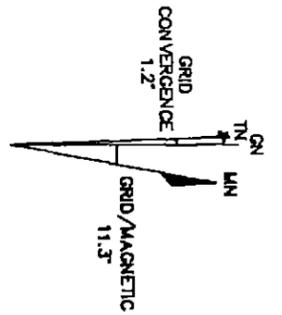


SAVAGE RESOURCES LIMITED											
SAVAGE RIVER - R.L. 8802 MAIN CREEK OCHRE RESOURCE POLY EST. AREA, 20m R WITH PIT OUTLINES											
SCALE 1:2,000	<table border="1"> <tr><td>DRAWN BY :</td><td>R.A.</td></tr> <tr><td>DRAFTSMAN :</td><td>T.B.D.S.</td></tr> <tr><td>DATE :</td><td>MAY '90</td></tr> <tr><td>REVISIONS :</td><td></td></tr> <tr><td>FILE No. M-20PIT2</td><td></td></tr> </table>	DRAWN BY :	R.A.	DRAFTSMAN :	T.B.D.S.	DATE :	MAY '90	REVISIONS :		FILE No. M-20PIT2	
DRAWN BY :	R.A.										
DRAFTSMAN :	T.B.D.S.										
DATE :	MAY '90										
REVISIONS :											
FILE No. M-20PIT2											
METRES											
FIG. 13											

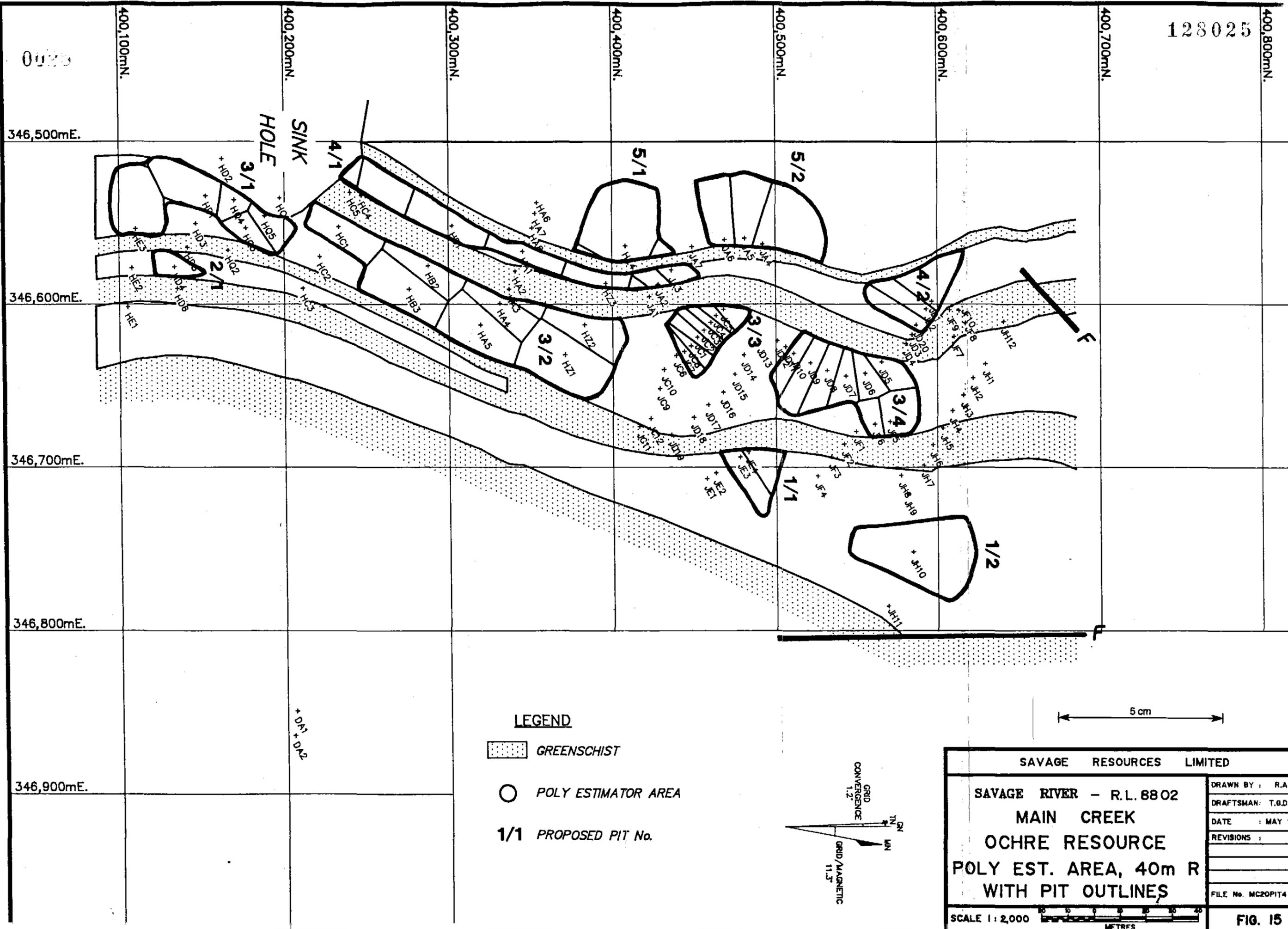


LEGEND

-  GREENSCHIST
-  POLY ESTIMATOR AREA
- 1/1** PROPOSED PIT No.



SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802 MAIN CREEK OCHRE RESOURCE POLY EST. AREA, 30m R WITH PIT OUTLINES	
DRAWN BY : R.A.	DATE : MAY '90
DRAFTSMAN: T.G.D.S.	REVISIONS :
FILE No. MC20PIT3	
SCALE 1:2,000	METRES
FIG. 14	

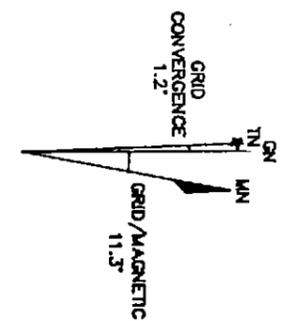


LEGEND

GREENSCHIST

POLY ESTIMATOR AREA

1/1 PROPOSED PIT No.



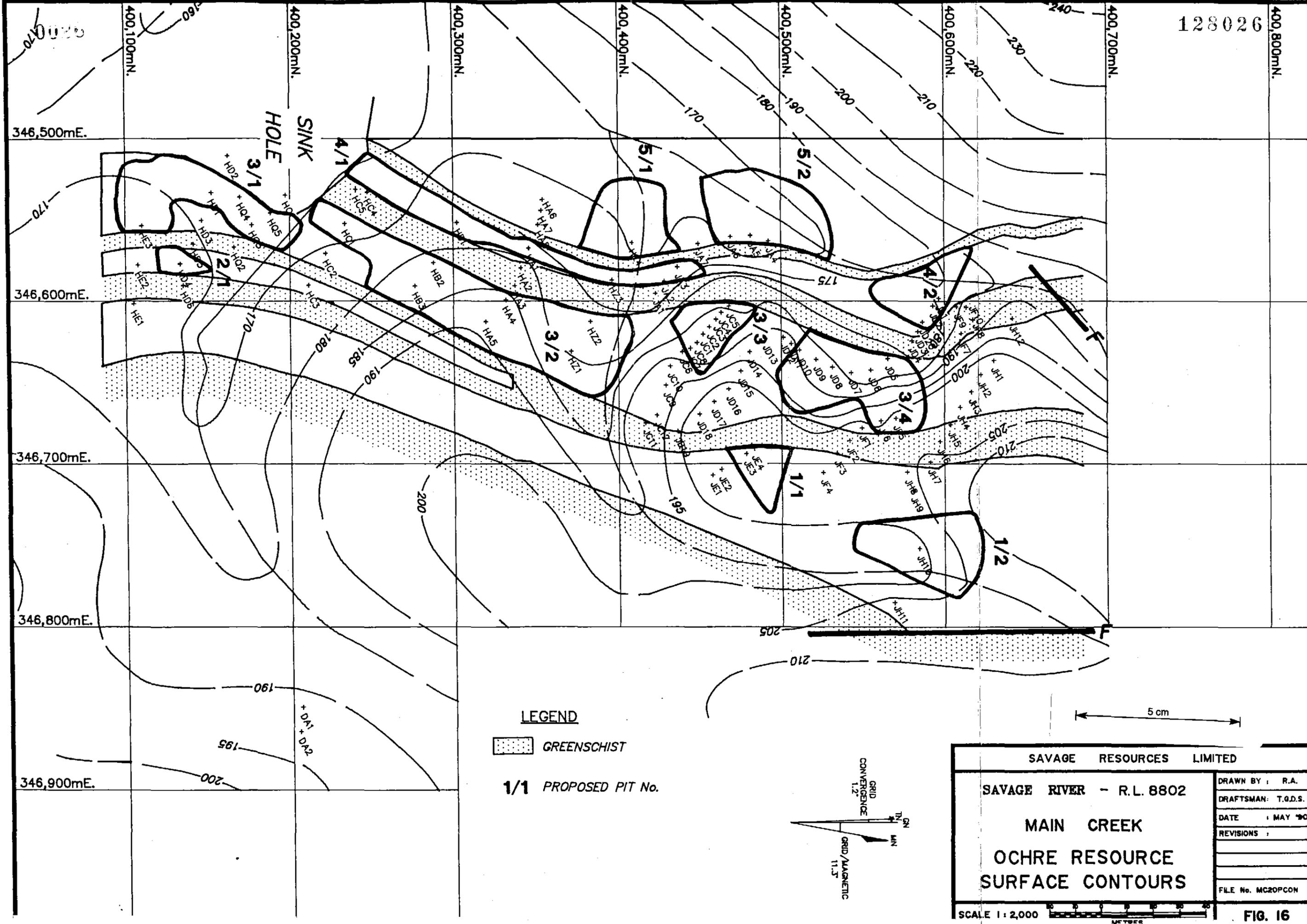
SAVAGE RESOURCES LIMITED

SAVAGE RIVER - R.L. 8802
 MAIN CREEK
 OCHRE RESOURCE
 POLY EST. AREA, 40m R
 WITH PIT OUTLINES

DRAWN BY : R.A.
 DRAFTSMAN : T.G.D.S.
 DATE : MAY '90
 REVISIONS :
 FILE No. MC20PIT4

SCALE 1:2,000 METRES

128026



LEGEND

[Shaded Box] GREENSCHIST

1/1 PROPOSED PIT No.

SAVAGE RESOURCES LIMITED	
SAVAGE RIVER - R.L. 8802	
MAIN CREEK	
OCHRE RESOURCE	
SURFACE CONTOURS	
SCALE 1:2,000	FILE No. MC20PCON
DRAWN BY: R.A.	DATE: MAY '90
DRAFTSMAN: T.G.D.S.	REVISIONS:

FIG. 16

APPENDIX 1. TONNAGE REPORT FOR HT DRILLSITE AREA

Tonnage Report for HT Drillaite Area
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
DA1	0	0	0
DA2	0	0	0
HA1	220	287	0
HA2	1	7	0
HA3	0	0	0
HA4	0	411	0
HA5	122	450	0
HA6	51	31	59
HA7	203	206	360
HA8	337	128	420
HB1	19	301	110
HB2	116	311	0
HB3	152	637	0
HC1	42	378	63
HC2	21	263	0
HC3	0	189	0
HC4	45	12	0
HC5	5	9	0
HD1	60	412	123
HD2	0	0	0
HD3	92	21	0
HD4	553	694	0
HD5	0	25	0
HD6	0	0	0
HE1	30	134	0
HE2	256	0	225
HE3	245	125	0
HQ1	0	0	0
HQ2	0	0	0
HQ3	293	131	44
HQ4	565	0	0
HQ5	451	311	0
HZ1	0	323	0
HZ2	260	27	0
HZ3	16	143	0
HZ4	34	440	0
JA1	0	0	0
JA2	0	250	359
JA3	54	600	245
JA4	551	0	0
JA5	87	991	33
JA6	64	87	438
JA7	0	187	194
JC1	428	82	0
JC10	0	0	0
JC11	0	0	0
JC12	0	0	0
JC2	15	273	128
JC3	85	55	353
JC4	16	248	37

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC5	0	5	120
JC6	149	0	0
JC7	462	0	0
JC8	195	57	35
JC9	0	0	0
JD1	567	32	0
JD10	50	107	0
JD11	16	69	0
JD12	0	106	0
JD13	192	101	0
JD14	260	72	0
JD15	35	181	0
JD16	0	35	0
JD17	0	0	0
JD18	0	0	0
JD19	135	56	0
JD2	613	60	0
JD20	661	137	0
JD3	83	77	0
JD4	0	6	0
JD5	436	151	0
JD6	691	420	0
JD7	70	0	0
JD8	142	130	0
JD9	0	167	0
JE1	58	37	236
JE2	0	65	302
JE3	12	423	128
JE4	18	0	298
JF1	130	102	0
JF10	0	0	0
JF2	0	0	0
JF3	46	50	0
JF4	444	306	0
JF5	53	223	0
JF6	57	531	0
JF7	0	0	0
JF8	0	0	0
JF9	0	0	0
JH1	103	269	0
JH10	222	369	0
JH11	0	30	0
JH12	0	5	0
JH2	188	31	0
JH3	17	46	0
JH4	0	0	0
JH5	0	0	0
JH6	0	0	0
JH7	15	6	0
JH8	508	107	0
JH9	35	0	0

TOTALS:

12151

13796

4310

Tonnage Report for HT Drillsite Area
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
DA1	0	0	0
DA2	0	0	0
HA1	568	742	0
HA2	9	57	0
HA3	7	43	0
HA4	0	1287	0
HA5	482	1777	0
HA6	163	99	189
HA7	456	462	808
HA8	842	319	1049
HB1	70	1107	405
HB2	362	369	0
HB3	603	2524	0
HC1	153	1381	229
HC2	83	1045	0
HC3	0	498	0
HC4	225	62	0
HC5	118	192	0
HD1	234	1590	476
HD2	0	0	0
HD3	327	75	0
HD4	1756	2202	0
HD5	0	170	0
HD6	2	2	25
HE1	97	426	0
HE2	814	0	715
HE3	774	395	0
HQ1	0	0	0
HQ2	110	110	0
HQ3	1029	458	155
HQ4	1780	0	0
HQ5	1351	932	0
HZ1	0	1293	0
HZ2	868	88	0
HZ3	43	381	0
HZ4	135	1759	0
JA1	81	99	0
JA2	0	607	872
JA3	140	1545	632
JA4	1450	0	0
JA5	208	2367	79
JA6	170	233	1175
JA7	0	596	617
JC1	906	173	0
JC10	0	0	0
JC11	0	0	0
JC12	0	0	0
JC2	33	578	271
JC3	179	116	742
JC4	30	461	69
JC5	0	12	258
JC6	375	0	0

0033

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC7	963	0	0
JC8	410	120	74
JC9	0	0	0
JD1	1529	87	0
JD10	126	272	0
JD11	34	145	0
JD12	0	261	0
JD13	552	291	0
JD14	807	222	0
JD15	110	569	0
JD16	0	105	0
JD17	0	0	0
JD18	0	0	0
JD19	447	185	0
JD2	1503	147	0
JD20	1522	315	0
JD3	132	124	0
JD4	0	22	0
JD5	1148	397	0
JD6	2045	1243	0
JD7	205	0	0
JD8	403	370	0
JD9	0	470	0
JE1	184	119	751
JE2	0	203	937
JE3	31	1130	341
JE4	44	0	726
JF1	318	250	0
JF10	0	0	0
JF2	16	95	0
JF3	159	174	0
JF4	1637	1130	0
JF5	168	709	0
JF6	146	1352	0
JF7	0	0	0
JF8	0	0	0
JF9	0	0	0
JH1	354	922	0
JH10	889	1476	0
JH11	0	309	0
JH12	0	66	0
JH2	547	91	0
JH3	49	134	0
JH4	0	0	0
JH5	0	0	0
JH6	2	1	0
JH7	169	64	0
JH8	1239	261	0
JH9	119	0	0

TOTALS:

35039

43061

11594

0000

Tonnage Report for HT Drillsite Area
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
DA1	0	0	0
DA2	0	0	0
HA1	1464	1911	0
HA2	25	150	0
HA3	100	606	0
HA4	0	3691	0
HA5	2793	10303	0
HA6	1857	1132	2151
HA7	1378	1397	2442
HA8	2408	911	2999
HB1	436	6889	2518
HB2	1083	2902	0
HB3	3472	14524	0
HC1	492	4444	738
HC2	276	3464	0
HC3	0	3635	0
HC4	2054	562	0
HC5	357	581	0
HD1	760	5175	1551
HD2	0	0	0
HD3	652	149	0
HD4	2608	3271	0
HD5	0	393	0
HD6	296	237	3391
HE1	688	3026	0
HE2	1769	0	1554
HE3	5784	2952	0
HQ1	0	167	83
HQ2	778	778	0
HQ3	1553	692	234
HQ4	2179	0	0
HQ5	3281	2262	0
HZ1	0	7401	0
HZ2	3162	322	0
HZ3	117	1030	0
HZ4	889	11564	0
JA1	1335	1620	0
JA2	0	778	1117
JA3	280	3088	1263
JA4	18041	0	0
JA5	997	11357	381
JA6	822	1124	5665
JA7	0	3338	3455
JC1	1695	324	0
JC10	0	0	0
JC11	0	0	0
JC12	0	0	0
JC2	56	992	465
JC3	272	176	1126
JC4	36	556	83
JC5	0	23	520
JC6	848	0	0

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC7	1763	0	0
JC8	712	209	129
JC9	0	0	0
JD1	10221	583	0
JD10	306	660	0
JD11	69	300	0
JD12	0	476	0
JD13	959	506	0
JD14	1385	380	0
JD15	285	1477	0
JD16	0	246	0
JD17	0	0	0
JD18	0	0	0
JD19	1563	646	0
JD2	3855	377	0
JD20	4997	1034	0
JD3	269	251	0
JD4	0	360	0
JD5	3609	1248	0
JD6	3525	2142	0
JD7	408	0	0
JD8	1060	973	0
JD9	0	1450	0
JE1	1576	1013	6415
JE2	0	608	2807
JE3	94	3411	1029
JE4	260	0	4294
JF1	669	526	0
JF10	0	0	0
JF2	248	1449	0
JF3	441	482	0
JF4	12819	8844	0
JF5	440	1364	0
JF6	217	2009	0
JF7	0	0	0
JF8	0	0	0
JF9	0	0	0
JH1	1668	4345	0
JH10	8121	13490	0
JH11	0	2112	0
JH12	0	1157	0
JH2	1289	215	0
JH3	123	337	0
JH4	0	0	0
JH5	0	0	0
JH6	275	89	0
JH7	1379	525	0
JH8	3029	639	0
JH9	576	0	0

TOTALS:

135296

176327

46410

APPENDIX 2. TONNAGE REPORT FOR HT DRILLSITE AREA, PREFERRED SITES

0030

Tonnage Report for HT Drillsite Area, Ochre Area 1/1
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE3	12	439	132
JE4	21	0	344

TOTALS:

33	439	477
----	-----	-----

Tonnage Report for HT Drillsite Area, Ochre Area 1/2
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	222	369	0

TOTALS:

222	369	0
-----	-----	---

Tonnage Report for HT Drillsite Area, Ochre Area 2/1
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	553	694	0

TOTALS:

553	694	0
-----	-----	---

Tonnage Report for HT Drillsite Area, Ochre Area 3/1
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD1	60	412	123
HE3	228	116	0
HQ3	293	131	44
HQ4	565	0	0
HQ5	483	333	0

TOTALS:

1630	991	167
------	-----	-----

Tonnage Report for HT Drillsite Area, Ochre Area 3/2
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA4	0	420	0
HA5	122	450	0
HB2	117	314	0
HB3	152	637	0
HC1	42	378	63
HZ1	0	323	0
HZ2	260	27	0

TOTALS:

	694	2550	63
--	-----	------	----

Tonnage Report for HT Drillsite Area, Ochre Area 3/3
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC1	428	82	0
JC2	15	273	128
JC3	85	55	353
JC4	16	248	37
JC5	0	6	132
JC6	7	0	0
JC7	462	0	0
JC8	195	57	35

TOTALS:

	1208	721	685
--	------	-----	-----

Tonnage Report for HT Drillsite Area, Ochre Area 3/4
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD10	50	107	0
JD11	0	1	0
JD5	468	162	0
JD6	691	420	0
JD7	70	0	0
JD8	142	130	0
JD9	0	167	0
JF5	53	223	0
JF6	57	531	0

TOTALS:

	1530	1741	0
--	------	------	---

Tonnage Report for HT Drillsite Area, Ochre Area 4/1
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	220	288	0
HB1	19	301	110
HC4	32	9	0
HZ3	14	127	0
JA2	0	220	316
JA3	56	619	253

TOTALS:

342	1563	679
-----	------	-----

Tonnage Report for HT Drillsite Area, Ochre Area 4/2
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	567	32	0
JD2	613	60	0
JD20	620	128	0

TOTALS:

1800	221	0
------	-----	---

Tonnage Report for HT Drillsite Area, Ochre Area 5/1
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HZ4	34	440	0

TOTALS:

34	440	0
----	-----	---

Tonnage Report for HT Drillsite Area, Ochre Area 5/2
Using Polygon Estimator with 5m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	516	0	0
JA5	87	389	33
JA6	61	84	421

TOTALS:

664	1072	454
-----	------	-----

0936

Tonnage Report for HT Drillsite Area, Ochre Area 1/1
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE2	0	1	4
JE3	33	1187	358
JE4	48	0	794

TOTALS:

81	1188	1156
----	------	------

Tonnage Report for HT Drillsite Area, Ochre Area 1/2
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	889	1476	0

TOTALS:

889	1476	0
-----	------	---

Tonnage Report for HT Drillsite Area, Ochre Area 2/1
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	1718	2155	0
HD5	0	10	0

TOTALS:

1718	2164	0
------	------	---

Tonnage Report for HT Drillsite Area, Ochre Area 3/1
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD1	231	1572	471
HE3	734	375	0
HQ3	988	440	149
HQ4	1850	0	0
HQ5	1428	985	0

TOTALS:

5232	3372	620
------	------	-----

Tonnage Report for HT Drillsite Area, Ochre Area 3/2
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA3	11	69	0
HA4	0	1306	0
HA5	482	1777	0
HB2	366	980	0
HB3	603	2524	0
HC1	151	1367	227
HZ1	0	1293	0
HZ2	887	90	0

TOTALS:

2501	9406	227
------	------	-----

Tonnage Report for HT Drillsite Area, Ochre Area 3/3
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC1	906	173	0
JC2	33	578	271
JC3	179	116	742
JC4	31	481	72
JC5	0	13	282
JC6	18	0	0
JC7	963	0	0
JC8	410	120	74

TOTALS:

2539	1481	1441
------	------	------

Tonnage Report for HT Drillsite Area, Ochre Area 3/4
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD10	126	272	0
JD11	1	2	0
JD5	1222	422	0
JD6	2045	1243	0
JD7	205	0	0
JD8	403	370	0
JD9	0	470	0
JF1	13	10	0
JF5	166	701	0
JF6	141	1307	0

TOTALS:

4321	4797	0
------	------	---

0049

128040

Tonnage Report for HT Drillsite Area, Ochre Area 4/1
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	557	727	0
HB1	66	1050	384
HC4	204	56	0
HC5	94	152	0
HZ3	41	365	0
JA1	47	57	0
JA2	0	563	808
JA3	140	1541	630

TOTALS:

	1149	4510	1822
--	------	------	------

Tonnage Report for HT Drillsite Area, Ochre Area 4/2
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	1513	86	0
JD2	1386	135	0
JD20	1344	278	0

TOTALS:

	4243	500	0
--	------	-----	---

Tonnage Report for HT Drillsite Area, Ochre Area 5/1
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HZ4	132	1720	0

TOTALS:

	132	1720	0
--	-----	------	---

Tonnage Report for HT Drillsite Area, Ochre Area 5/2
Using Polygon Estimator with 10m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	1385	0	0
JA5	201	2289	77
JA6	163	223	1124

TOTALS:

	1749	2512	1200
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Tonnage Report for HT Drillsite Area, Ochre Area 1/1
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE2	0	6	26
JE3	94	3435	1037
JE4	183	0	3017

TOTALS:

277	3441	4079
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Tonnage Report for HT Drillsite Area, Ochre Area 1/2
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	8000	13288	0
JH11	0	1	0
JH9	17	0	0

TOTALS:

8016	13289	0
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Tonnage Report for HT Drillsite Area, Ochre Area 2/1
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	2568	3221	0
HD5	0	29	0
HD6	0	0	3
HE2	8	0	7

TOTALS:

2577	3250	10
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Tonnage Report for HT Drillsite Area, Ochre Area 3/1
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HC2	0	1	0
HD1	760	5175	1551
HD3	41	9	0
HE3	4277	2183	0
HQ1	0	11	5
HQ3	1431	637	215
HQ4	2273	0	0
HQ5	3322	2291	0

TOTALS:

12105	10307	1772
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Tonnage Report for HT Drillsite Area, Ochre Area 3/2
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA3	111	674	0
HA4	0	3693	0
HA5	2007	7403	0
HB2	1095	2933	0
HB3	2474	10350	0
HC1	480	4333	719
HC2	1	15	0
HQ1	0	4	2
HZ1	0	7219	0
HZ2	3187	324	0
JA1	17	20	0

TOTALS:

	9372	36967	721
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Tonnage Report for HT Drillsite Area, Ochre Area 3/3
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA1	32	38	0
JA2	0	0	0
JC1	1666	318	0
JC2	56	990	464
JC3	275	179	1143
JC4	38	581	86
JC5	0	22	479
JC6	35	0	0
JC7	1698	0	0
JC8	684	201	124

TOTALS:

	4484	2329	2297
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Tonnage Report for HT Drillsite Area, Ochre Area 3/4
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD10	288	619	0
JD11	1	3	0
JD15	1	5	0
JD4	0	3	0
JD5	2735	945	0
JD6	3552	2158	0
JD7	399	0	0
JD8	1034	949	0
JD9	0	1353	0
JE4	0	0	4
JF1	27	21	0
JF5	430	1822	0
JF6	212	1962	0

TOTALS:

3679	9840	4
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Tonnage Report for HT Drillsite Area, Ochre Area 4/1
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	1426	1862	0
HA2	0	0	0
HB1	206	3250	1188
HC4	1460	399	0
HC5	391	636	0
HZ3	98	862	0
HZ4	1	9	0
JA1	183	222	0
JA2	0	780	1120
JA3	182	2001	819

TOTALS:

3946	10020	3126
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Tonnage Report for HT Drillsite Area, Ochre Area 4/2
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	6590	376	0
JD2	3712	363	0
JD20	4211	872	0

TOTALS:

14512	1610	0
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0.264

128044

Tonnage Report for HT Drillsite Area, Ochre Area 5/1
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA6	10	6	11
HA7	12	12	22
HA8	42	16	52
HZ3	11	98	0
HZ4	875	11382	0
JA3	74	813	333
JA7	0	25	26

TOTALS:

1024	12353	443
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Tonnage Report for HT Drillsite Area, Ochre Area 5/2
Using Polygon Estimator with 40m radius

Hole ID	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	12585	0	0
JA5	928	10569	354
JA6	695	950	4789
JA7	0	38	39

TOTALS:

14207	11558	5183
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APPENDIX 3. TONNAGE REPORT FOR HT DRILLSITE AREA,
PREFERRED SITES - NEAR SURFACE

Tonnage Report for Pit Areas using Polygon Estimator with 5m radius
Composited length 2.5 to 15m downhole

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE3	2	0	66	20
	3	0	38	60
	4	0	100	0
	5	0	100	0
	6	0	45	0
	JE4	2	0	0
	3	0	0	65
	4	0	0	65
	5	0	0	65
	6	0	0	18
TOTALS:		0	350	358

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	2	0	47	0
	3	0	19	0
	4	34	18	0
	5	59	0	0
	6	59	0	0
	TOTALS:		152	83

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	2	110	0	0
	3	110	0	0
	4	93	9	0
	5	88	23	0
	6	91	23	0
	TOTALS:		493	56

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD1	2	0	102	0
	3	0	105	0
	4	0	105	0
	5	41	63	0
	6	20	0	40
	HE3	2	67	0
3		72	0	0
4		78	0	0
5		12	35	0
6		0	47	0

0947

HQ3	2	66	42	0
	3	21	21	0
	4	45	24	0
	5	67	44	0
	6	28	0	44
HQ4	2	95	0	0
	3	87	0	0
	4	114	0	0
	5	66	0	0
	6	46	0	0
HQ5	2	0	0	0
	3	24	56	0
	4	75	0	0
	5	19	60	0
	6	94	0	0
TOTALS:		1137	704	84

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA4	2	0	48	0
	3	0	52	0
	4	0	55	0
	5	0	53	0
	6	0	51	0
HA5	2	37	28	0
	3	0	45	0
	4	0	45	0
	5	0	51	0
	6	0	46	0
HB2	2	78	18	0
	3	0	73	0
	4	0	75	0
	5	0	33	0
	6	0	0	0
HB3	2	0	52	0
	3	110	0	0
	4	0	110	0
	5	0	110	0
	6	0	110	0
HC1	2	0	94	0
	3	0	49	0
	4	0	51	0
	5	0	47	0
	6	0	49	0

0048

HZ1	2	0	51	0
	3	0	51	0
	4	0	51	0
	5	0	41	0
	6	0	76	0
HZ2	2	93	0	0
	3	93	0	0
	4	37	0	0
	5	0	0	0
	6	0	0	0
TOTALS:		449	1617	0

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JC1	2	48	15	0
	3	42	0	0
	4	17	50	0
	5	65	16	0
	6	82	0	0
JC2	2	0	0	0
	3	0	0	43
	4	0	0	85
	5	0	85	0
	6	0	84	0
JC3	2	46	6	0
	3	15	0	59
	4	0	49	29
	5	0	0	82
	6	0	0	69
JC4	2	0	32	0
	3	0	16	11
	4	0	24	16
	5	0	53	0
	6	0	71	0
JC5	2	0	0	40
	3	0	0	40
	4	0	6	30
JC6	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	2	0	0
	6	3	0	0
JC7	2	52	0	0
	3	58	0	0
	4	77	0	0
	5	46	0	0
	6	70	0	0

JC8	2	45	20	0
	3	12	10	23
	4	13	9	12
	5	52	0	0
	6	60	0	0

TOTALS:

806	547	538
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Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD10	2	0	95	0
	3	0	12	0
JD11	2	0	1	0
	3	0	0	0
JD5	2	50	49	0
	3	49	52	0
	4	102	0	0
	5	68	0	0
	6	62	0	0
JD6	2	16	17	0
	3	80	0	0
	4	116	0	0
	5	114	0	0
	6	110	0	0
JD7	2	35	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
JD8	2	53	60	0
	3	88	23	0
	4	0	46	0
	5	0	0	0
JD9	2	0	110	0
	3	0	22	0
JF5	2	44	39	0
	3	9	103	0
	4	0	23	0
JF6	2	21	28	0
	3	23	21	0
	4	14	87	0
	5	0	102	0
	6	0	114	0

TOTALS:

1054	1005	0
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Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	2	88	0	0
	3	22	33	0
	4	0	52	0
	5	0	50	0
	6	0	49	0
	HB1	2	0	65
	3	0	35	0
	4	0	49	0
	5	0	49	0
	6	0	0	44
HC4	2	2	7	0
	3	15	2	0
	4	12	0	0
HZ3	2	14	22	0
	3	0	45	0
	4	0	21	0
	5	0	0	0
JA2	2	0	0	69
	3	0	54	14
	4	0	31	0
	5	0	30	43
	6	0	15	50
JA3	2	0	91	0
	3	31	64	0
	4	0	93	0
	5	25	18	16
	6	0	96	0
TOTALS:		209	970	236

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	2	60	32	0
	3	100	0	0
	4	94	0	0
	5	90	0	0
	6	90	0	0
JD2	2	95	0	0
	3	100	0	0
	4	100	0	0
	5	100	0	0
	6	80	20	0

0051

JD20	2	18	45	0
	3	55	37	0
	4	89	0	0
	5	87	0	0
	6	91	0	0
TOTALS:		1248	134	0

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HZ4	2	11	39	0
	3	0	50	0
	4	0	57	0
	5	0	55	0
	6	0	50	0
TOTALS:		11	251	0

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	2	73	0	0
	3	75	0	0
	4	89	0	0
	5	91	0	0
	6	85	0	0
JA5	2	0	55	0
	3	0	55	0
	4	0	22	33
	5	68	46	0
	6	0	116	0
JA6	2	0	0	99
	3	20	0	81
	4	41	0	61
	5	0	0	102
	6	0	39	20
TOTALS:		542	334	396

Tonnage Report for Pit Areas using Polygon Estimator with 10m radius
Composited length 2.5 to 15m downhole

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE2	2	0	1	0
	3	0	0	1
	4	0	0	1
	5	0	0	1
	6	0	0	1
JE3	2	0	179	54
	3	0	103	163
	4	0	271	0
	5	0	271	0
	6	0	122	0
JE4	2	0	0	150
	3	0	0	150
	4	0	0	150
	5	0	0	149
	6	0	0	42

TOTALS:

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	2	0	948	862
	3	0	186	0
	4	0	74	0
	5	135	73	0
	6	237	0	0
		237	0	0

TOTALS:

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	2	609	333	0
	3	343	0	0
	4	343	0	0
	5	288	29	0
	6	274	72	0
		282	72	0

HD5	2	0	3	0
	3	0	2	0
	4	0	0	0
	5	0	0	0
	6	0	0	0

TOTALS:

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD1	2	1530	179	0
	3	0	391	0
	4	0	400	0
	5	0	400	0
	6	155	240	0
		75	0	151

HE3	2	214	0	0
	3	231	0	0
	4	250	0	0
	5	39	113	0
	6	0	153	0
HQ3	2	223	141	0
	3	70	70	0
	4	150	80	0
	5	227	149	0
	6	94	0	149
HQ4	2	312	0	0
	3	286	0	0
	4	373	0	0
	5	217	0	0
	6	152	0	0
HQ5	2	0	0	0
	3	71	167	0
	4	223	0	0
	5	56	178	0
	6	278	0	0

TOTALS:

Hole ID	Int #	3698 Tonnage Yellow	2480 Tonnage Brown	300 Tonnage Red
HA3	2	4	6	0
	3	4	5	0
	4	0	9	0
	5	0	11	0
	6	0	17	0
HA4	2	0	150	0
	3	0	162	0
	4	0	170	0
	5	0	164	0
	6	0	159	0
HA5	2	147	110	0
	3	0	177	0
	4	0	179	0
	5	0	202	0
	6	0	182	0
HB2	2	244	58	0
	3	0	227	0
	4	0	233	0
	5	0	102	0
	6	0	0	0
HB3	2	0	207	0
	3	438	0	0
	4	0	438	0
	5	0	438	0
	6	0	438	0

0054

HC1	2	0	340	0
	3	0	177	0
	4	0	185	0
	5	0	170	0
	6	0	176	0
HZ1	2	0	205	0
	3	0	205	0
	4	0	205	0
	5	0	163	0
	6	0	302	0
HZ2	2	317	0	0
	3	317	0	0
	4	127	0	0
	5	0	0	0
	6	0	0	0

TOTALS:

Hole ID	Int #	1596 Tonnage Yellow	5971 Tonnage Brown	0 Tonnage Red
JC1	2	101	33	0
	3	89	0	0
	4	36	106	0
	5	138	35	0
	6	173	0	0
JC2	2	0	0	0
	3	0	0	90
	4	0	0	181
	5	0	181	0
	6	0	177	0
JC3	2	98	13	0
	3	31	0	124
	4	0	103	62
	5	0	0	172
	6	0	0	145
JC4	2	0	62	0
	3	0	31	22
	4	0	47	31
	5	0	103	0
	6	0	139	0
JC5	2	0	0	84
	3	0	0	84
	4	0	13	63
JC6	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	6	0	0
	6	8	0	0

0050

JC7	2	108	0	0
	3	121	0	0
	4	161	0	0
	5	97	0	0
	6	145	0	0
JC8	2	94	42	0
	3	26	21	48
	4	28	18	26
	5	109	0	0
	6	126	0	0

TOTALS:

Hole ID	Int #	1696 Tonnage Yellow	1122 Tonnage Brown	1132 Tonnage Red
JD10	2	0	242	0
	3	0	30	0
JD11	2	0	2	0
	3	0	0	0
JD5	2	131	127	0
	3	127	135	0
	4	266	0	0
	5	178	0	0
	6	161	0	0
JD6	2	48	52	0
	3	238	0	0
	4	344	0	0
	5	337	0	0
	6	327	0	0
JD7	2	102	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
JD8	2	152	172	0
	3	251	66	0
	4	0	132	0
	5	0	0	0
JD9	2	0	310	0
	3	0	62	0
JF1	2	4	0	0
	3	4	0	0
	4	1	0	0
	5	0	3	0
	6	0	5	0
JF5	2	138	123	0
	3	28	323	0
	4	0	73	0

0056

JF6	2	51	68	0
	3	56	51	0
	4	34	214	0
	5	0	250	0
	6	0	280	0
TOTALS:				
		2978	2722	0
Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	2	223	0	0
	3	56	84	0
	4	0	131	0
	5	0	126	0
	6	0	123	0
HB1	2	0	225	0
	3	0	122	0
	4	0	170	0
	5	0	172	0
	6	0	0	152
HC4	2	10	44	0
	3	99	12	0
	4	74	0	0
HC5	2	0	6	0
	3	0	22	0
	4	0	30	0
	5	0	19	0
	6	0	41	0
HZ3	2	41	62	0
	3	0	128	0
	4	0	61	0
	5	0	0	0
JA1	2	0	0	0
	3	0	4	0
	4	0	20	0
	5	12	6	0
	6	11	7	0
JA2	2	0	0	178
	3	0	139	37
	4	0	80	0
	5	0	77	110
	6	0	39	128
JA3	2	0	226	0
	3	76	160	0
	4	0	231	0
	5	63	45	39
	6	0	239	0
TOTALS:				
		667	2850	644

0057

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	2	160	86	0
	3	266	0	0
	4	251	0	0
	5	240	0	0
	6	240	0	0
JD2	2	214	0	0
	3	226	0	0
	4	226	0	0
	5	226	0	0
	6	181	45	0
JD20	2	40	98	0
	3	119	80	0
	4	193	0	0
	5	189	0	0
	6	197	0	0
TOTALS:		2966	309	0
Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HZ4	2	43	152	0
	3	0	195	0
	4	0	223	0
	5	0	214	0
	6	0	195	0
TOTALS:		43	980	0
Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	2	195	0	0
	3	202	0	0
	4	238	0	0
	5	243	0	0
	6	229	0	0
JA5	2	0	128	0
	3	0	128	0
	4	0	51	77
	5	158	107	0
	6	0	269	0
JA6	2	0	0	263
	3	54	0	217
	4	109	0	163
	5	0	0	272
	6	0	103	54
TOTALS:		1428	786	1046

0058

Tonnage Report for Pit Areas using Polygon Estimator with 40m radius
Composited length 2.5 to 15m downhole

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JE2	2	0	4	1
	3	0	0	7
	4	0	0	4
	5	0	0	5
	6	0	0	6
JE3	2	0	518	157
	3	0	298	471
	4	0	785	0
	5	0	785	0
	6	0	354	0
JE4	2	0	0	571
	3	0	0	571
	4	0	0	571
	5	0	0	567
	6	0	0	158
TOTALS:		0	2746	3089

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JH10	2	0	1674	0
	3	0	670	0
	4	1215	658	0
	5	2134	0	0
	6	2134	0	0
JH11	2	0	0	0
	3	0	0	0
	4	0	0	0
JH9	2	17	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
TOTALS:		5500	3002	0

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HD4	2	513	0	0
	3	513	0	0
	4	431	43	0
	5	410	108	0
	6	421	108	0

0059

HD5	2	0	10	0
	3	0	7	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
HD6	2	0	0	1
	3	0	0	1
	4	0	0	1
	5	0	0	1
	6	0	0	0
HE2	2	3	0	0
	3	3	0	0
	4	1	0	1
	5	0	0	3
	6	0	0	3
TOTALS:		2294	275	9

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HC2	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
HD1	2	0	1287	0
	3	0	1316	0
	4	0	1316	0
	5	512	789	0
	6	249	0	498
HD2	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
HD3	2	18	0	0
	3	22	0	0
	4	0	0	0
	5	0	0	0
	6	0	9	0
HE3	2	1249	0	0
	3	1346	0	0
	4	1458	0	0
	5	224	656	0
	6	0	890	0

0000

HQ1	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	2	0
	6	0	4	0
HQ3	2	323	204	0
	3	102	102	0
	4	218	116	0
	5	329	215	0
	6	136	0	215
HQ4	2	383	0	0
	3	351	0	0
	4	458	0	0
	5	267	0	0
	6	187	0	0
HQ5	2	0	0	0
	3	164	388	0
	4	518	0	0
	5	129	414	0
	6	647	0	0
TOTALS:		9291	7709	714

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA3	2	37	57	0
	3	36	48	0
	4	0	88	0
	5	0	106	0
	6	0	170	0
HA4	2	0	424	0
	3	0	459	0
	4	0	481	0
	5	0	465	0
	6	0	450	0
HA5	2	612	459	0
	3	0	737	0
	4	0	747	0
	5	0	843	0
	6	0	756	0
HB2	2	730	172	0
	3	0	679	0
	4	0	697	0
	5	0	305	0
	6	0	0	0

0061

HB3	2	0	850	0
	3	1794	0	0
	4	0	1794	0
	5	0	1794	0
	6	0	1794	0
HC1	2	0	1079	0
	3	0	560	0
	4	0	587	0
	5	0	540	0
	6	0	560	0
HC2	2	1	1	0
	3	0	3	0
	4	0	2	0
	5	0	2	0
	6	0	0	0
HQ1	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	1	0
	6	0	2	0
HZ1	2	0	1144	0
	3	0	1143	0
	4	0	1142	0
	5	0	908	0
	6	0	1687	0
HZ2	2	1138	0	0
	3	1138	0	0
	4	455	0	0
	5	0	0	0
	6	0	0	0
JA1	2	0	0	0
	3	0	1	0
	4	0	7	0
	5	4	2	0
	6	4	2	0
JC10	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
JC9	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
TOTALS:		5950	23748	0

0058

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA1	2	0	0	0
	3	0	3	0
	4	0	14	0
	5	8	4	0
	6	8	5	0
JA2	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
JC1	2	186	60	0
	3	164	0	0
	4	67	194	0
	5	254	64	0
	6	318	0	0
JC2	2	0	0	0
	3	0	0	155
	4	0	0	309
	5	0	309	0
	6	0	303	0
JC3	2	148	20	0
	3	48	0	191
	4	0	159	95
	5	0	0	265
	6	0	0	222
JC4	2	0	75	0
	3	0	38	26
	4	0	56	38
	5	0	124	0
	6	0	167	0
JC5	2	0	0	143
	3	0	0	143
	4	0	22	107
JC6	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	11	0	0
	6	16	0	0
JC7	2	191	0	0
	3	214	0	0
	4	285	0	0
	5	171	0	0
	6	256	0	0

0050

JC8	2	157	70	0
	3	44	35	80
	4	47	31	44
	5	182	0	0
	6	211	0	0

TOTALS:

2987	1752	1819
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Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD10	2	0	551	0
	3	0	68	0
JD11	2	0	3	0
	3	0	0	0
JD15	2	0	0	0
	3	0	0	0
	4	0	2	0
	5	0	3	0
	6	0	0	0
JD4	2	0	1	0
	3	0	1	0
	4	0	0	0
	5	0	0	0
JD5	2	294	285	0
	3	285	303	0
	4	595	0	0
	5	399	0	0
	6	360	0	0
JD6	2	84	90	0
	3	413	0	0
	4	598	0	0
	5	586	0	0
	6	568	0	0
JD7	2	200	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
JD8	2	390	441	0
	3	644	170	0
	4	0	339	0
	5	0	0	0
JD9	2	0	892	0
	3	0	178	0

JE4	2	0	0	1
	3	0	0	1
	4	0	0	1
	5	0	0	1
	6	0	0	0
JF1	2	8	0	0
	3	8	0	0
	4	2	0	0
	5	0	6	0
	6	0	10	0
JF5	2	359	321	0
	3	72	840	0
	4	0	189	0
JF6	2	77	102	0
	3	83	77	0
	4	51	321	0
	5	0	376	0
	6	0	421	0
JH4	2	0	0	0
	3	0	0	0
JH5	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	0	0	0
	6	0	0	0
TOTALS:		6073	5991	3

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA1	2	571	0	0
	3	143	214	0
	4	0	334	0
	5	0	323	0
	6	0	315	0
HA2	2	0	0	0
	3	0	0	0
HB1	2	0	696	0
	3	0	377	0
	4	0	527	0
	5	0	533	0
	6	0	0	472
HC4	2	73	312	0
	3	709	88	0
	4	532	0	0

0060

HC5	2	0	26	0
	3	0	91	0
	4	0	125	0
	5	0	77	0
	6	0	170	0
HZ3	2	98	147	0
	3	0	303	0
	4	0	144	0
	5	0	0	0
HZ4	2	0	1	0
	3	0	1	0
	4	0	1	0
	5	0	1	0
	6	0	1	0
JA1	2	0	0	0
	3	0	16	0
	4	0	78	0
	5	47	23	0
	6	44	26	0
JA2	2	0	0	246
	3	0	193	51
	4	0	111	0
	5	0	107	153
	6	0	54	178
JA3	2	0	294	0
	3	99	208	0
	4	0	301	0
	5	82	59	51
	6	0	310	0
TOTALS:		2398	6586	1150

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JD1	2	696	376	0
	3	1160	0	0
	4	1031	0	0
	5	1044	0	0
	6	1044	0	0
JD2	2	574	0	0
	3	605	0	0
	4	605	0	0
	5	605	0	0
	6	484	121	0

0050

JD20	2	125	307	0
	3	374	249	0
	4	604	0	0
	5	591	0	0
	6	617	0	0
JF10	2	0	0	0
	3	0	0	0
	4	0	0	0
TOTALS:		10218	1053	0

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
HA6	2	0	0	10
	3	5	2	2
	4	0	4	0
HA7	2	1	0	2
	3	1	1	2
	4	0	0	3
	5	0	0	0
	6	1	0	1
HA8	2	0	0	7
	3	5	0	3
	4	5	4	0
	5	12	0	0
	6	12	0	0
HZ3	2	11	17	0
	3	0	35	0
	4	0	16	0
	5	0	0	0
HZ4	2	286	1009	0
	3	0	1288	0
	4	0	1473	0
	5	0	1419	0
	6	0	1293	0
JA3	2	0	119	0
	3	40	84	0
	4	0	122	0
	5	33	24	21
	6	0	126	0
JA7	2	0	0	7
	3	0	1	0
	4	0	10	0
	5	0	13	0
	6	0	2	8
TOTALS:		414	7061	65

Hole ID	Int #	Tonnage Yellow	Tonnage Brown	Tonnage Red
JA4	2	1769	0	0
	3	1835	0	0
	4	2167	0	0
	5	2211	0	0
	6	2078	0	0
	JA5	2	0	590
	3	0	590	0
	4	0	236	354
	5	729	496	0
	6	0	1240	0
JA6	2	0	0	1121
	3	232	0	926
	4	463	0	695
	5	0	0	1158
	6	0	439	232
	JA7	2	0	0
	3	0	2	0
	4	0	15	0
	5	0	19	0
	6	0	2	12
TOTALS:		11484	3630	4508