

# The Martin-Bird Site

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*The Martin-Bird site is located southwest of Thunder Bay in northwestern Ontario, adjacent to a Laurel mound. This report describes the investigations of the Terminal Woodland multi-component habitation site, the Blackduck burial, and the copper tool-making cache that were found there. The cultural material recovered is also described. Following a sparse Initial Woodland occupation, the site appears to have been occupied from the 7th to the 18th centuries AD by several carriers of the Algonkian culture. This occupation was dominated by the Blackduck tradition but includes other, more southern, traditions, which suggest affinities with north-western Wisconsin.*

## Introduction

The Martin-Bird Site (DbJm-5) is located in northwestern Ontario on Whitefish Lake, southwest of Thunder Bay, 50 kilometers inland from Lake Superior (Fig. 1). The lake lies in an east-west trough of the Laurentian Shield. It has a luxuriant discrete biotic community which in the Woodland period supported extensive habitations. The site is situated at the southwesterly point of an island opposite stands of wild rice at the western end of the lake. The MacGillivray Laurel tradition mound site occupies the northwesterly point of the same island (Dawson 1980) while the McCluskey Blackduck tradition habitation site is situated on the mainland on the north shore opposite the island (Dawson 1974). Other sites have been recorded along the shoreline to the east (Dawson 1978).

Discovered in 1964, the site was surveyed in 1966 and excavated in 1970. Test pits opened to determine the nature and extent of the occupation revealed at least three distinct areas: a Blackduck Algonkian culture habitation near the north shore designated Area A; a mixed Algonkian culture habitation near the south shore to the east designated Area B and a Blackduck burial located on a ridge between A and B designated Area C (Fig. 2). Like other sites on the lake, there is also evidence of an earlier Laurel occupation. The site was surveyed and laid out in a five-foot (1.5 m) grid pattern. The paper reports the excavation and describes the artifacts that were recovered. Classes of artifacts, by provenance, are given in Table 1.

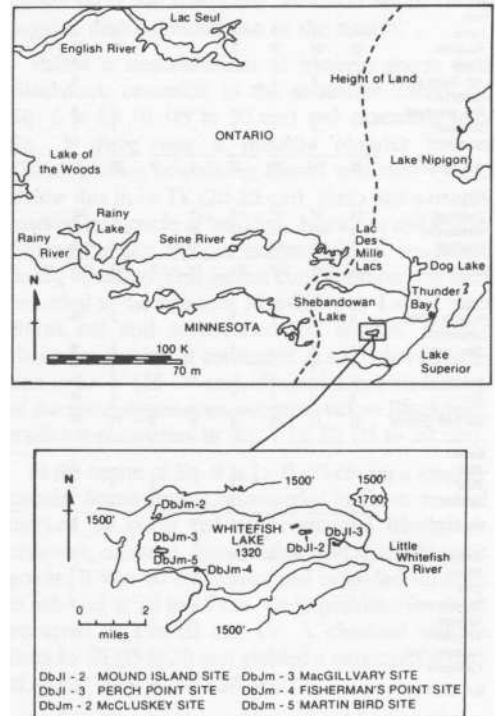


Figure 1  
Map of Northwestern Ontario showing locations of Woodland sites on Whitefish Lake.

## Area A

Area A is located on a light clay terrace 5' (1.5 m) above the lake and 50' (15 m) west of the shore near the northwest point of the island. A small, grass covered, level clearing, surrounded by low bush, had cultural refuse concentrated immediately below a sod layer 5 to 8 cm thick.

## Excavation

Ten contiguous 5' (1.5 m) squares were opened and excavated to subsoil. While it was possible to discern continuous and distinct soil conditions,

TABLE 1  
Martin-Bird Classes of Recoveries

	Area A									Area B					Area C					TOTAL					
	I	II	III	IV	V/VI	VII	VIII	Other	f	%	I	II	III	IV	Other	f	%	Burial Pit	Ridge Trench	Other	f	%	f	%	
<b>Ceramics</b>																									
Rims																									
Laurel	1	1	1	-	-	-	2	5		9	5	-	-	1	15										20
Blackduck	17	24	10	2	1	-	14	68		13	9	-	1	13	36		4	25	6	34					138
Selkirk	-	-	2	-	-	-	-	2		1	-	-	-	-	1										3
Ash Rapids Corded	-	2	2	-	-	-	-	4		16	-	-	2	2	20										24
Sandy Lake	-	-	-	-	-	-	-	-		18	7	-	-	6	31				1	1					32
Pen. Woodland	-	-	-	-	-	-	-	3	3	20	11	-	-	7	38			1	-	-					42
Mackinac	-	2	1	-	-	-	-	1	4	13	1	-	-	3	17										21
Juvenile	-	5	-	-	-	-	-	5		3	-	-	-	3	6			3	-	-					14
Sub Total Rims	18	34	16	2	1	0	20	91		93	33	0	3	35	164		4	29	6	39					294
Body																									
Decorated	11	47	17	3	1	-	22	101		55	27	10	-	6	98		1	41	4	46					245
Undecorated	149	222	115	20	2	-	211	719		378	89	16	7	165	655		52	237	22	311					1685
Sherdlets	263	919	668	136	18	-	240	2244		2121	589	63	30	299	3102		50	390	74	514					5860
Total Ceramics	441	1222	816	161	22	0	493	3155	51.1	2647	738	89	40	505	4019	72.4	107	697	106	910	71.0				8084 62.2
<b>Lithics</b>																									
Projectile Points	3	11	2	1	-	-	6	23		5	2	1	1	2	11			4	-	4					38
Scrapers																									
Side - Linear	2	2	-	1	-	-	1	6		-	1	-	-	1	2			1	-	1					9
- Large	1	2	-	-	-	-	-	4		3	-	-	-	1	4			-	-	-					8
Random	4	4	5	-	-	-	7	20		6	8	-	-	2	16			1	1	2					38
End	5	3	7	1	-	-	2	18		1	2	-	-	2	5			1	3	-	4				27
Sub Total Scrapers	12	11	12	2	0	0	11	48		10	11	0	0	6	27			1	5	1	7				82
Knives																									
Slate	4	1	-	-	-	-	-	5		-	-	-	-	2	2			1	-	1					8
Flake	-	-	1	-	-	-	1	3		4	-	-	-	1	5			-	-	-					8
Notched	-	-	-	-	-	-	-	-		1	-	-	-	-	1			-	-	-					1
Sub Total Knives	4	1	1	0	0	1	1	8		5	0	0	0	3	8			0	1	0	1				17
Wedges	-	1	1	2	-	-	1	5		1	-	1	-	-	2			2	-	2					9
Bifaces	-	-	2	1	-	-	-	3		1	-	-	-	1	2			2	-	2					7
Drills	-	-	-	1	-	-	-	1		1	-	-	-	-	1			1	-	1					3
Spokeshaves	-	2	-	-	-	-	-	2		-	-	-	-	-	0			-	-	-					2
Unifaces	-	-	-	-	-	-	-	-		2	-	-	-	-	2			-	-	-					2
Choppers	-	-	-	-	-	-	1	1		-	-	-	-	1	1			-	-	-					2
Denticular Tool	-	-	-	-	-	-	-	-		1	-	-	-	-	1			-	-	-					1
Perforators	-	-	-	-	-	-	-	-		-	-	-	-	-	0			-	1	-	1				1
Sub Total Tools	19	26	18	7	0	1	20	91		26	13	2	1	13	55			1	16	1	18				164
Debitage																									
Micro	156	461	426	107	31	4	105	1290		144	48	6	1	46	245		11	71	5	87					1622
Macro	65	94	18	28	-	2	58	265		101	31	8	5	247	392		-	90	6	96					753
Cores	17	21	4	3	1	-	9	55		11	3	-	-	6	20			-	1	-	1				76
Sub Total Debitage	238	576	448	138	32	6	172	1610		256	82	14	6	299	657		11	162	11	184					2451
Rough Stone																									
Hammerstones	1	2	-	1	-	-	-	4		2	-	-	1	1	4			-	-	-					8
Abraders	-	-	2	-	-	-	2	1	5	2	-	-	-	1	3			-	-	-					8
Paintstone Ochre	-	-	-	-	-	-	-	-		1	-	-	-	1	2			5	2	7					9
Steatite Pipe	-	2	-	-	-	-	-	2		-	-	-	-	-	0			-	-	-					2
Net Sinkers	-	-	-	-	-	-	-	-		1	-	-	-	-	1			-	-	-					1
Celt	-	-	-	-	-	-	-	-		-	-	-	-	-	0			-	1	-	1				1
Pendant	-	-	-	-	-	-	-	-		-	-	-	-	-	0			-	1	-	1				1
Sub Total R. Stone	1	4	2	1	0	2	1	11		6	0	0	1	3	10			0	7	2	9				30
Total Lithics	258	606	468	146	32	9	193	1712	27.6	288	95	16	8	315	722	13.0	12	185	14	211	16.5				2645 20.3
Native Copper																									
Awls	-	2	1	-	-	-	1	4		1	-	-	-	-	1			-	-	-					5
Knives	-	1	-	1	-	-	-	2		-	-	-	-	-	0			-	-	-					2
Pendant	-	-	-	-	-	-	-	-		-	-	-	-	-	0			1	-	-	1				1
Hammered Piece	-	1	-	-	-	-	-	1		2	3	4	-	-	9			-	-	-					10
Wastage	1	1	-	-	-	-	-	3		6	24	-	-	-	30			-	-	-					33
Nuggets	-	-	-	-	-	-	-	-		-	6	7	-	-	13			-	-	-					13
Sub Total Copper	1	5	1	1	1	0	1	10	0.1	9	33	11	0	0	53	0.9	1	0	0	1	x				64 0.5
Bone Refuse	223	443	172	36	32	0	253	1159	18.8	228	466	12	17	22	745	13.4	39	101	10	150	11.7				2054 15.8
Historic Goods	60	55	5	1	0	0	18	139	2.2	8	0	2	0	0	10	0.1	0	0	9	9	0.7				158 1.2
Total Recoveries	983	2331	1462	345	87	9	958	6175	99.8	3180	1332	130	65	842	5549	99.8	159	983	139	1281	99.9				13,005 100.0

these did not appear to correlate with living floors hence the area was excavated in arbitrary 2" (5 cm) levels. The sod was removed to expose the first level, thus Lv I was 5-10 cm, and Lv II 10-15 cm, etc. The stratigraphic sequence seen in the east wall profiles of Squares 1 to 4 is representative of the entire area (Fig. 3). Laminated black ash, burnt soil and scattered firestones evident at the base of Lv I (Fig. 4) indicate the repeated use of hearths during the occupation. Superimposed hearth features evident at 10 to 15 cm suggested distinct periods of occupation. There was one major feature, a roasting pit which extended down about 30 cm.

Blackduck artifacts were found below the sod layer in direct association with European goods. Sparse Michigan-derived, and Selkirk ceramics also occur, as well as a sporadic mix of earlier Laurel ceramics.

Raw materials show the same range as seen at the Blackduck, McCluskey site on the mainland. They are all local: Hudson Bay Lowland flint (65%), Gun flint (19%), taconite and quartz (14%), and local varieties of siltstone (2%). No marked preference is evident through time although taconite is slightly more common in the lower strata. Debitage consisting of micro - (1290, 80.1%) and macro - (265, 16.4%) flakes and exhausted pebble-variety cores (55) occur at all levels but as a percentage of recoveries they show a decline from earlier strata (Lv VI, 39 %) to the more recent (Lv I, 23 %). Unmodified ferric oxide or ochre occurred in the first two levels. It appeared to be a natural occurrence.

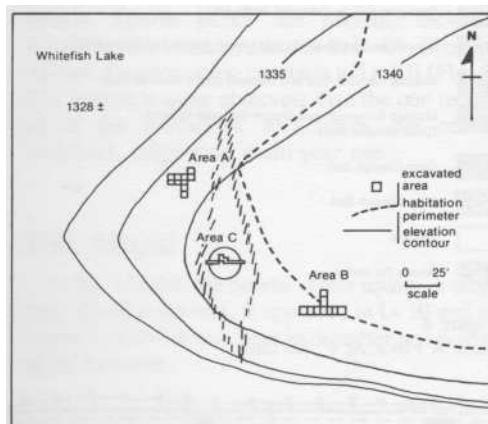


Figure 2  
Contour Map Showing Excavations at the Martin-Bird Site

## Features

There were 6 hearths, 6 refuse pits, a roasting pit and a post mould.

## Hearths

In Sq. 1 below scattered historic and prehistoric refuse at 10 to 15 cm a few large stones, a semi-circle of fire-fractured stones and lensed black ash marked a hearth. It was 75 cm across and extended through 10 cm as a saucer-shaped depression. Between 17.5 cm and 20 cm it fades to a red-brown discolouration which continues for another 10 cm. It contained sparse prehistoric refuse. Horizontal clustering of fire stones and laminated ash by levels suggest discontinuous use of the hearth.

Below a concentration of historic goods and Blackduck ceramics in the southeast corner of Sq. 6 at Lv III (15 to 20 cm) and extending into Sq. 3 there was a roughly circular brown discolouration containing Laurel ceramics (V-2). Below this in Lv IV (20-25 cm), there was a hearth marked by a circle of boulders, black ash and sparse debitage about 60 cm across with a southeast facing opening. This hearth configuration was also recorded at the adjacent MacGillivray Laurel site. Burnt red soil surrounded the feature. Saucer shaped in outline, it continued as a red discolouration to Lv V (25-30 cm). A similar hearth feature of the same dimensions occurred below Blackduck tradition recoveries in Sq. 7 Lv III (15 to 20 cm).

In the centre of Sq. 9 at Lv II (10-15 cm) a roughly circular hearth feature, surrounded by firestones and marked by burnt red soil contained Blackduck ceramics, debitage, faunal refuse and sparse historic goods. It was 60 cm across and extended through to sub-soil at 20 to 25 cm. Only prehistoric refuse occurred in Lvs III and IV. A charcoal sample from Lv III (15 to 20 cm) yielded a radiocarbon date of A.D. 1775 ± 40 (S-774).

In Sq. 10 a number of large boulders and scattered firestones roughly circular in shape and 90 cm across occurs at Lv II (10-15 cm). Dark brown to black in soil colour, this hearth feature was surrounded by sparse refuse, Blackduck, Laurel (V-I) and juvenile ceramics. Historic goods and debitage were absent. Shallow in outline, it overlaps a second hearth marked by a layer of small scattered firestones in red mottled sand in Lv III (15-20 cm). Roughly circular in outline, 60 cm across it continued down a further 20 cm as a red discolouration. A copper awl and bone refuse occurred in the feature at Lv IV (20-25 cm).

In Sq. 5 above a roasting pit there is a large hearth. At the bottom of Lv III there was a culturally sterile band of small mudstones and gravel. The band ran diagonally from the center to the northwest corner of the square, suggestive of high water deposit. Below this a laminated hearth-like feature occurred in the north wall and extended into Sq. 12.

Irregular in outline about 120 by 90 cm across and saucer shaped in outline, it appeared as a dark brown discolouration interspersed with firestones. A carbon sample yielded a date of A.D. 1065 ± 130. Blackduck refuse occurred in Lv's III and IV. No trade goods were present.

Refuse Pits

In Sq. 3 a small circular pit, marked by a red-brown discolouration 30 cm in diameter occurred in the east wall at 15-20 cm. It contained sparse refuse, primarily sherdllets and taconite debitage in Lv's III and IV. Conical in outline, it terminated between 35-40 cm.

An irregular pit about 60 cm in length, dark brown in colour occurred in the northwest corner of Sq. 5. It appears to have partially cut through a roasting hearth in the north wall of the square. Saucer shaped at the base, it contained burnt bone and firestone through to Lv V (25-30 cm). A second roughly circular shape pit about 90 cm across occurred on the eastside of Sq. 5 at Lv IV (20-25 cm). Marked by dark brown soil, it begins to shallow out in Lv V. Sparse refuse including Blackduck ceramics, tools and taconite debitage occurred to Lv VI (30-35 cm). It terminated in Lv VII (35-40 cm).

A roughly circular pit about 45 cm in diameter occurred in the southeast corner of Sq. 6 at Lv III (15-20 cm) and extended down to Lv V (25-30 cm). It was red brown in colour, conical in shape and contained ceramic and lithic refuse.

In Sq. 9 below the Blackduck hearth two small pits occur in Lv III; one in the northwest corner and one in the centre of the south wall. Marked by red brown soil discolouration, they were irregular in outline, roughly 45 cm across and extended to the base of Lv V (25-30 cm). They contained sparse refuse to Lv IV.

In Sq. 10 a small pit about 45 cm across marked by burnt red soil lacking refuse was conical in outline and extended from Lv III to Lv VII. There was a lithic tool concentration in Lv III and copper knife in Lv IV. There was no cultural refuse in the lower levels.

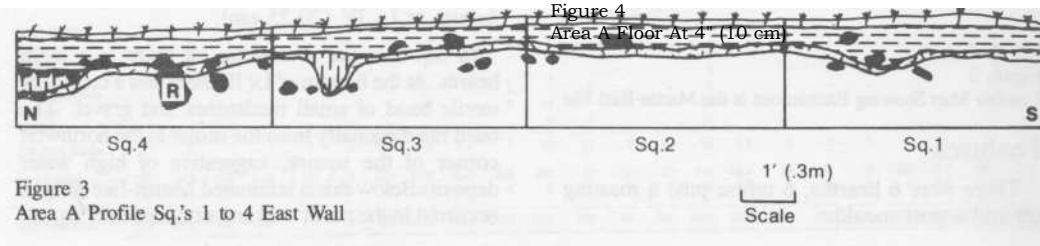
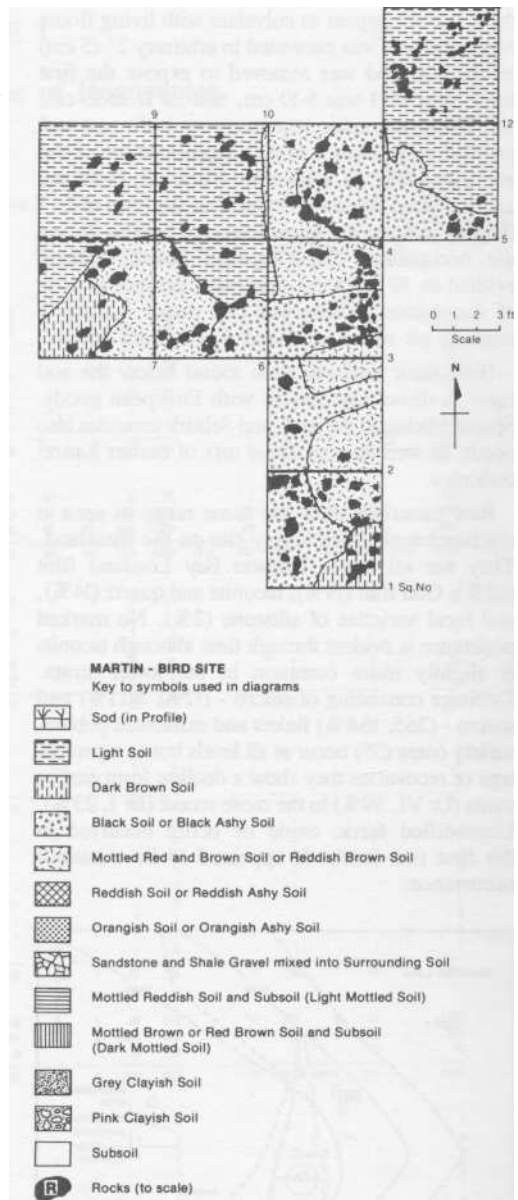


Figure 4  
Area A Floor At 4' (10 cm)

Figure 3  
Area A Profile Sq.'s 1 to 4 East Wall

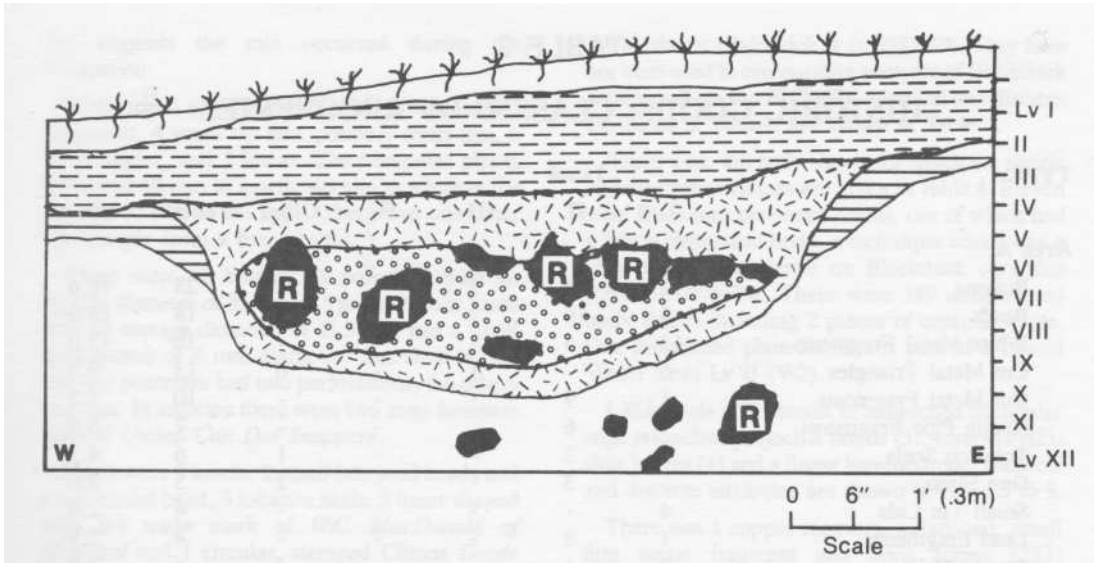


Figure 5  
Area A Sq. 5 Profile of Roasting Pit in North Wall

### Roasting Pit

Below the hearth in Sq. 5 there is a roasting pit. In Lv V there was a concentrated layer of firestones and bone refuse. In Lv VI there were large angle boulders and a heavy concentration of black ash, sherdllets and debitage. The black ash continued in Lv VII. Here was a layer of small, flat rock, heavily coated with carbon on their undersides. In Lv VIII the feature begins to shallow, but black ash continues and a further layer of small firestones occurs. Sparse lithics are present, including abraders. Black ash terminates in Lv IX. Brown to red soil discolouration continue to Lv XII (Fig. 5). The feature is more elaborate than the one recorded at the Blackduck McCluskey site on the mainland, suggesting multi-year use.

### Post Mould

In Sq. 1 beside the hearth in this square, a single post mould is present. It appeared in Lv III and extended to Lv V. It was 7 cm in diameter and pointed at its terminus.

### Radiocarbon Dates

Three acceptable radiocarbon dates were obtained for the Terminal Woodland period. One wood charcoal sample from the bottom of the hearth feature in Sq. 9 (Lv II) associated with Blackduck ceramics and trade goods (a kaolin pipe bowl fragment, a

shell button and fragments of window glass) yielded a date of A.D. 1775  $\pm$  40 (S-174). A second recovery from the bottom of a hearth feature in Sq. 12 (Lv II) associated with Blackduck ceramics and lithics and sparse Selkirk ceramics yielded a date of A.D. 1290  $\pm$  70 (S-775). A third sample was recovered above a pit feature in the same square at Lv III. It was associated with a large quantity of Blackduck ceramics and yielded a date of A.D. 1065  $\pm$  130 (S-851). The dates demonstrate a continuous use of the location from the 11th century until well into historic times by the Blackduck culture.

From Sq. I at Lv I a radiocarbon date of A.D. 480  $\pm$  115 (S-772) was obtained from a wood char-coal sample. While an association was not established, the date may pertain to the Laurel material from the Area.

A fifth date of 1525  $\pm$  70 B.C. (S-773) was obtained from a charcoal layer below the lower row of stones in the Sq. 5 roasting pit feature at Lv VU. Unfortunately, no diagnostic material was found associated with this layer.

### Level I

Sixty European artifacts were found in direct association with those of native manufacture. The majority are from the 19th century, some are from the 20th century, and a few may be assigned to the 18th century. None are diagnostic of the early contact period. The relative undisturbed nature of the

**TABLE 2**  
**HISTORIC GOODS: CLASSES OF RECOVERIES**

TYPE	Level					Total	%
	I	II	III	IV	Other		
<b>Area A</b>							
Buttons	12	6	2	1	2	23	16.6
Beads	3	10	2	-	3	18	13.0
White Metal Fragments	13	5	-	-	-	18	13.0
Cut Metal Triangles	6	-	1	-	6	13	9.3
Cut Metal Fragments	1	9	-	-	-	10	7.2
Kaolin Pipe Fragments	1	6	-	-	-	7	5.0
Tobacco Seals	3	2	-	-	1	6	4.3
Gun Flints	-	3	-	-	2	5	3.6
Small Tin Lids	4	-	-	-	-	4	2.9
Lead Fragments	1	3	-	-	-	4	2.9
Square Nails	2	1	-	-	1	4	2.9
Wire Fragments	2	1	-	-	-	3	2.2
Ceramic Sherds	1	2	-	-	-	3	2.2
Window Glass	-	2	-	-	1	3	2.2
Brass Tingle (copper kettle)	2	-	-	-	1	3	2.2
Leather Heel Fragment	1	1	-	-	-	2	1.4
Buckles	-	1	-	-	1	2	1.4
Snap Fasteners	2	-	-	-	-	2	1.4
Knife Blade Fragment	1	-	-	-	-	1	0.7
Silver Pipe Ferrel (Brier)	1	-	-	-	-	1	0.7
Cork Screw	1	-	-	-	-	1	0.7
Trap Fragment	1	-	-	-	-	1	0.7
Lead Foil	-	1	-	-	-	1	0.7
Cartridge	1	-	-	-	-	1	0.7
Drill Bit	1	-	-	-	-	1	0.7
Collar Stud	-	1	-	-	-	1	0.7
Bolt	-	1	-	-	-	1	0.7
TOTAL AREA A	60	55	5	1	18	139	100.0
<b>Area B</b>							
Cut Brass	-	-	2	-	-	2	20.0
Round Nails	7	-	-	-	-	7	70.0
Gunflint	1	-	-	-	-	1	10.0
TOTAL AREA B	8	0	2	0	0	10	100.0
<b>Area C</b>							
<b>a</b> Cut Brass	-	-	-	-	1	1	12.5
Round Nails	-	-	-	-	7	7	75.0
Shotgun Shell	-	-	-	-	1	1	12.5
TOTAL AREA C	0	0	0	0	9	9	100.0

site suggests the mix occurred during the occupation.

White metal was the most common material: 13 fragments, 4 small tin lids, possibly snuff tins, 6 cut triangles, and 1 linear. The triangular pieces measured 48 mm in length, 40 mm in width at the top and 10 mm at the apex. There was one other cut triangle from a brass kettle.

There were 12 buttons, 8 porcelain with an average diameter of 10.9 mm, 3 pressed white metal with an average diameter of 15.5 mm and 1 small shell button of 6 mm diameter. The shell button and one porcelain had two perforations, the others had four. In addition there were two snap fasteners marked *United Can Dot Snappers*,

There were 3 beads, 2 small late seed beads and a spheroidal bead, 3 tobacco seals, 2 heart shaped with the trade mark of *W.C. MacDonald of Montreal* and 1 circular, stamped *Climax Grade Pherilland & Co.*, and a knife blade fragment, a kaolin pipe stem fragment, a blue on cream china fragment and a silver pipe ferrel tip. There was a 33 mm long tinkling cone rolled from a thin piece of a brass kettle and a portion of a conical bangle with a rough seam running its 294 mm length. The top diameter was 6.3 mm while the bottom was 3.4 mm. There were 10 other miscellaneous items including wire, lead and leather fragments as shown in Table 2.

Scattered around the top of the hearth feature in Sq. 1 were Blackduck ceramics, debitage, bone refuse, a triangular projectile point, a slate knife, cut white metal fragments, buttons, the china fragment and the oblate, spheroidal opaque dirty pink bead type 11a6 (Kidd & Kidd 1970) from the late historic period ca. 1760 - 1820.

There was 1 rim from a combined decorative technique Laurel vessel (Wright 1967). It had oblique dragged stamp over horizontal lines of dentate stamping. The interior had striations. It was broken along a coil line.

There were 17 Blackduck rims (Evans 1961; Dawson 1974), 13 from 7 analysable vessels representing four modes (100, 200, 400 and 900) and 4 from damaged vessels. Except from V-1 which was represented by 8 rims, one of which was from Lv II, analysable vessels were represented by only one rim each. Blackduck (V-7) was an atypical mode having wide cord impressions on a thickly splayed lip with a plain coarse possibly fabric impressed exterior. This mode was first recorded at the Blackduck McCluskey (Dawson 1974:21) and subsequently because of its atypical attributes was considered a mixed Blackduck/Selkirk mode (Dawson 1976:87). Similar types appear to occur to

the northwest (Rajnovich et al. 1982:90). They have not been used in comparative analyses of Blackduck ceramics (Dawson 1977:163). Metrical and discrete attributes of vessels are shown in Table 3.

There were 160 body sherds for which the metric and discrete attributes are given in Table 4. Eleven were Blackduck decorated sherds, one of which had a fabric impressed body, a technique which has a very sparse occurrence on Blackduck ceramics (Dawson 1974:39). There were 149 undecorated body sherds including 2 pieces of ceramic waste. One roughened plain sherd was part of a Laurel Vessel from Lv II (V-2).

Lithic tools (20) consist of unnotched triangular edge retouched projectile points (3), scrapers (12), slate knives (4) and a linear hammerstone. Metrical and discrete attributes are shown in Table 5 to 9.

There was 1 copper recovery, a flattened, small thin waste fragment and bone refuse (223) associated with the recoveries. Large mammal and a few bird and fish bones were evident but the bulk was fragmentary and burnt.

## Level II

Over 37% of all excavated recoveries came from this level. Artifacts of European manufacture (55) are approximately equal in number to Level I whereas those of aboriginal manufacture are more than doubled (Table 1).

The historic artifacts show no significant variations from Lv I except for presence of British black gun flints (3). Two were extensively reworked pistol size. Their lengths were 19 and 21 mm, widths were 18 and 19.5 mm, and their thicknesses were 9 and 9.5 mm. The third was a burnt portion of a larger variety with a length of 23 mm and thickness of 9 mm. Beads (10) and kaolin pipe fragments (6) were more prevalent. One kaolin pipe recovery was a complete small bowl in the form of a voyageur's head and a portion of stem with a capital R on the spur while two other recoveries were atypical rim fragments with a glazed-like appearance.

There was one pseudo-scallop shell decorated Laurel vessel rim and 24 Blackduck rims, 19 from 14 analysable vessels representing four modes (Table 3), 4 from damaged vessels and one from V-1 in Lv I. Of the analysable vessels four were represented by more than one rim. One had an exterior end-of-tool impression at the base of the obliques and one had a fabric impressed body. Two had interior striations, one had an interior lip fillet and one was carbon encrusted. There were 2 Ash Rapids corded vessels. Ash Rapids corded ceramics are prevalent in the Lake of the Woods —

TABLE 3

AREA A VESSEL METRICAL AND DISCRETE ATTRIBUTES

Type and Provenience	Sq.	V #	f	Lip Thickness*	Body Thickness*	Brushed	Decorated Lip	Decorated Interior	Interior Bosses	Rim Form	Distance Below Lip*			Exterior Punctates					
											Distance Below Lip*	Distance Apart*	Vertical Length*	c	o	r	s	i	
<b>Laurel</b>																			
Lv. I Combined	10	V-1	1	4.3	7.0	-	-	-	-	6									
Lv. II Oblique PSS	6	V-1	1	4.1	D	-	-	-	-	5									
Lv. III Plain	7	V-1	1	4.8	D	-	-	-	-	5									
Other Plain	T.P.	V-1	1	6.1	-	-	-	-	-	1									
	T.P.	V-2	1	7.0	-	-	-	-	-	7									
<b>Blackduck</b>																			
Lv. I																			
107	2	V-1	8	7.1	6.7	-	v	-	x	A-4	18.7	15.1	3.3	x					
115	3	V-2	1	9.0	4.4	-	lp	-	x	A-4	22.0	22.0	4.5				x		
131	7	V-3	1	8.9	6.7	x	o	-	x	A-4	13.8	19.0	4.6	x					
135	1	V-4	1	13.1	9.3	x	o	-	-	B-1	20.0	D	D	x					
200	3	V-5	1	11.7	6.4	-	zz	-	x	A-2	14.0	16.8	5.0	D					
400	10	V-6	1	7.3	4.6	x	o	-	-	-	-	-	-						
900	12	V-7	1	10.9	7.6	-	o	-	-	-	-	-	-						
Lv. II																			
100	9	V-1	2	13.8	9.7	x	o	v	x	B-1	25.1	D	5.7				x		
104	1	V-2	1	12.9	7.2	-	v	-	x	B-1	18.4	15.5	3.5	x					
104	1	V-3	1	9.5	5.6	-	v	-	x	C-4	15.0	13.7	4.3				x		
107	1	V-4	1	11.7	5.9	-	cc	-	x	A-3	23.7	16.0	4.8	x					
107	3	V-5	2	9.6	6.2	-	cc	-	x	C-4	21.3	13.3	4.8	x					
107	3	V-6	2	11.3	6.3	-	cc	-	x	A-5	21.0	18.7	4.2	x					
108	8	V-7	3	11.8	6.5	-	cc	-	x	A-2	26.4	21.0	8.0	x					
120	5	V-8	1	6.2	5.9	-	o	v	x	A-5	13.4	19.8	5.0	x					
200	3	V-9	1	11.0	7.0	x	cc	-	x	A-1	14.5	20.5	5.0	x					x
200	4	V-10	1	7.2	4.3	-	o	-	-	C-5	18.3	17.0	4.5	x					
200	7	V-11	1	8.1	6.0	-	o	o	-	D	14.0	D	4.8	x					
200	6	V-12	1	7.3	D	-	o	-	-	D	13.0	D	3.9	x					
400	4	V-13	1	11.0	7.5	x	cc	-	x	B-1	-	-	-						
725	12	V-14	1	10.7	5.6	-	cc	-	x	A-3	16.3	4.8	D						x
Lv. III																			
100	9	V-1	1	11.6	7.7	x	cc	-	x	C-4	25.7	-	4.5	x					
200	10	V-2	3	10.0	6.3	x	o	o	x	A-3	24.8	14.2	5.5	x					
200	12	V-3	1	D	D	x	-	D	D	D	25.4	11.5	4.9	x					
300	11	V-4	2	12.2	D	x	v	v	-	D	-	-	-						
400	12	V-5	1	8.1	5.6	x	o	-	-	B-1	-	-	-						
400	5	V-6	1	10.4	3.8	x	v	v	-	C-2	-	-	-						
Lv. IV																			
100	5	V-1	1	11.4	6.7	x	v	-	x	B-2	23.5	17.8	4.9	x					
200	5	V-2	1	9.9	5.5	x	v	-	x	C-4	25.7	11.7	4.7	x					
Other																			
100	T.P.	V-1	1	10.8	6.1	-	o	-	-	B-2	25.0	-	-	x					
100	T.P.	V-2	4	9.5	7.6	x	z	-	x	A-5	14.0	15.0	3.3	x					
100	T.P.	V-3	1	11.2	5.7	-	cc	-	x	A-3	24.4	12.5	4.4				x		
107	W 6&3	V-4	1	8.6	5.8	-	cc	-	x	A-3	20.4	18.2	5.4	x					
425	T.P.	V-5	1	11.5	9.0	x	o	-	-	A-2	-	-	-						
611	T.P.	V-6	1	10.0	7.8	-	c	-	-	A-5	17.0	20.0	7.1						x
629	T.P.	V-7	1	10.0	8.2	-	v	-	-	A-5	-	-	-						
725	T.P.	V-8	1	9.9	7.0	-	v	-	-	B-5	-	-	-						
<b>Selkirk</b>																			
Lv. III Alexander Fabric	5	V-1	2	8.0	4.3	-	-	-	-	D	-	-	-						
<b>Ash Rapids Corded</b>																			
Lv. II Corded	7	V-1	1	5.4	4.2	-	o	-	-	E	-	-	-						
Corded and Punctate	4	V-2	1	6.6	5.9	-	-	-	x	B	12.0	D	5.0	x					
Lv. III Corded and Punctate	4	V-1	1	8.1	5.5	-	-	-	x	F	15.6	21.0	4.2						x
<b>Peninsular Woodland</b>																			
Other Decorated	T.P.	V-1	2	12.5	6.9	-	o	-	-	26	(25.0	5.3	8.0)						x
<b>Mackinac</b>																			
Lv. II Punctated	4	V-1	1	6.5	4.5	-	o	-	-	25	( 5.0	3.5	5.1)						x
	12	V-2	1	9.9	6.9	-	cc	-	-	25	( 5.2	4.4	6.2)						x
Lv. III Punctated	4	V-1	1	7.7	4.0	-	o	-	-	25	( 7.6	5.0	6.4)						x
Other Punctated	T.P.	V-1	1	7.5	5.0	-	o	-	-	25	( 9.5	4.5	5.8)						x
<b>Juvenile</b>																			
Lv. II	10	V-1	1	5.0	3.7	-	o	-	-	-	18.7	D	2.4						x
	4,10&12	V-2	4	5.6	4.0	-	cc	-	-	-	5.9	D	1.2						x

cwo cord wrapped object impressed; v vertical cwo; o oblique cwo; zz zig zag cwo; cc criss-cross cwo; lp linear punctates; x present; PSS psuedo scallop shell; c circular; r rectangular; s square; i irregular; ( ) linear punctates; D damaged; \* mm

Rim form: Laurel, Wright 1967; Blackduck, Dawson 1974; Ash Rapids Corded and Selkirk, Reid and Rajnovich 1980; Peninsular Woodland and Mackinac, Wright 1968, Fig. 5.



TABLE 4

**BODY SHERDS METRICAL AND DISCRETE ATTRIBUTES**

Type and Provenance	Level																
	I			II			III			IV/V/V			Other				
	f	Range	Mean	f	Range	Mean	f	Range	Mean	f	Range	Mean	f	Range	Mean		
<b>Area A</b>																	
Decorated																	
Laurel																	
PSS	-			5	7.5-	8.1	7.9	2	<b>8.0- 8.5</b>	8.2	-			-			
Dentate	-			-				1	9.5-		-			-			
Dragged Stamp	-			-				2	5.0-5.1	5.0	-			-			
Sub-total Laurel	0			5				5			0			0			
Blackduck	11	4.0- 8.5	6.1	40	<b>4.6- 4.9</b>	5.3		10	4.6-6.5	5.3	4	4.8- 5.6	5.3	22	5.0- 7.2	6.1	
Other	0			2	3.9-			2	4.3-6.4	<b>5.3</b>	0			0			
Sub-total decorated	11			47				17			4			22			
Undecorated																	
Cord malleated	82	3.0- 7.5	4.7	<b>148</b>	2.5- 7.5	5.1		66	3.3- 6.4	4.7	17	3.5- 7.5	6.0	<b>158</b>	<b>3.8- 6.7</b>	6.0	
Smoothed over (cord ?)	61	3.2- 7.5	6.2	57	4.0- 7.0	4.5		<b>45</b>	<b>3.2- 6.8</b>	<b>4.4</b>	3	5.0- 7.5	5.8	40	<b>3.5- 7.7</b>	<b>4.9</b>	
Fabric impressed	3	4.2- 6.2	5.2	7	3.8-10.5	6.6		1	D		1	3.5		10	4.0- 7.1	<b>5.4</b>	
Roughened (plain)	1	8.0-		7	4.0- 7.5	<b>5.5</b>		1	<b>8.4-</b>		-			1	7.1-		
Plain	-			2	<b>6.8- 8.0</b>	7.4		2	6.0- 6.1	6.0	1	7.2	-				
Wastage	2			1				-			-			2			
Sub-total undecorated	<b>149</b>			222				115			22			211			
<b>Sub-total Body Sherds</b>	<b>160</b>			<b>269</b>				<b>132</b>			<b>26</b>			<b>233</b>			
Area A	=			-				-			-			-			
<b>Area B</b>																	
Decorated																	
Laurel																	
Linear punctate	21	<b>4.5- 7.9</b>	6.4	16	4.9- 6.9	5.1		6	<b>4.6- 7.0</b>	7.3	-			-			
Dentate	1	4.5		3	<b>5.0- 5.5</b>	5.2		-			-			-			
Dragged stamp	-			1	6.0			-			-			-			
Blackduck	32	4.5-10.2	6.3	7	5.5- 9.5	7.1		4	7.0-10.0	6.2	-			3	8.0- 8.1	8.0	
Other	1	7.2-		-				-			-			3	<b>5.0- 5.5</b>	5.2	
Sub-total decorated	<b>55</b>			27				10			0			6			
Undecorated																	
Cord malleated	151	3.4-10.0	6.5	29	3.5- 9.5	6.7		3	<b>3.7- 4.4</b>	4.1	-			79	3.0-10.1	6.0	
Smoothed over (cord?)	214	3.0-11.5	5.7	52	3.9-11.0	6.5		13	3.7- 8.9	6.1	7	5.2- 8.9	6.5	50	6.0- 9.4	<b>5.9</b>	
Fabric impressed	3	4.0- 5.5	4.8	1	7.1-			-			-			16	4.1- 6.9	5.2	
Roughened	1	9.1-		2	6.2- 7.5	6.8		-			-			(	4	7.0- 8.2	(7.7)
Plain	7	5.9- 7.2	6.8	5	<b>4.5- 6.8</b>	<b>5.3</b>		-			-			16	6.1- 9.7	7.7	
Wastage	2			-				-			-			-			
Sub-total undecorated	378			89				16			7			165			
<b>Total Body Sherds</b>	<b>433</b>			116				26			7			171			
Area B	=			-				-			-			-			
<b>Area C</b>																	
Decorated																	
Blackduck	1	5.0-		41	3.1-11.9	10.4		4	8.1- 8.4	8.2							
Undecorated																	
Cord malleated	<b>44</b>	4.7- 6.9	5.4	43	3.0- 8.0	5.2		4	<b>4.3- 5.0</b>	4.6							
Smoothed over (cord?)	8	3.5- 6.5	4.5	173	2.9- 8.8	5.3		16	4.0- 8.0	<b>5.8</b>							
Fabric impressed	-			2	<b>4.9- 7.0</b>	<b>5.9</b>		-									
Roughened	-			3	3.5-	8.1	5.2	2	<b>4.4- 5.4</b>	4.9							
Plain	-			1	9.6			-									
Wastage	-			5				-									
Sub-total undecorated	52			237				22									
<b>Total Body Sherds</b>	53			278				26									
Area C	=			-				-						-			

\* Area A Lv. II includes 1 basal sherd; Area B Other includes 2 basal sherds

\*\*A few cord malleated sherds had coil breaks

() Refers to ribbed rather than roughened body sherds  
Measurements are in mm.

TABLE 5  
PROJECTILE POINTS METRICAL AND DISCRETE ATTRIBUTES

Type and Provenance	f	Flake			Form		Width		Notch		Comments
		L	W	Th	Base	Blad	Base	Blade	W	D	
<b>Unnotched</b>	16										
Area A Lv. I	3	28.0	17.5	4.2	cv	cv					
		23.1	20.1	5.0	st	cv					
		25.7	19.7	5.0	st	cv					
Lv. II	4	18.2	15.9	<b>4.9</b>	st	st					
		23.0	13.0	5.9	st	st					
		15.6	<b>14.9</b>	3.0	st	cv					
		22.0	<b>18.4</b>	2.8	st	st					
Lv. iii	2	17.0	10.7	4.0	cv	cv					
		20.0	18.0	4.2	cv	cv					
Lv. IV	1	-	25.5	6.9	cv	cv					
Other	4	18.0	<b>16.6</b>	<b>3.6</b>	cc	cv					
		28.8	20.9	<b>8.8</b>	st	cv					taconite
			16.0	4.5	o	cv					
		21.0	-	2.8	st	cv					
Area B Lv. II	1	<b>25.6</b>	23.7	4.2	st	cv					
Area C Ridge Trench	1	-	19.0	4.5	o	cv					
<b>Notched</b>	14										
Area A Lv. II	5	27.0	18.0	6.2	st	st	17.0	17.7	5.2	2.3	
		18.2	14.5	3.8	cc	cv	14.0	<b>14.5</b>	3.3	1.0	spaulded
			17.0	3.7	st	st	15.0	17.0	2.0	2.5	
					-	-	-	-	-	-	notched frag.
					-	-	-	-	-	-	notched frag.
Other	2	20.0	17.3	4.6	st	cv	16.0	17.3	4.2	3.2	
				4.0	-	-	-	-	4.0	2.8	taconite
Area B Lv. I	3	26.0	18.2	5.0	cv	st	18.2	13.5	1.3	3.2	
		-	<b>13.6</b>	2.9	st	st	13.5	13.6	1.0	2.5	
		34.6	<b>16.5</b>	<b>5.3</b>	cc	cv	<b>9.9</b>	<b>16.4</b>	3.1	1.3	
Lv. II	1	34.5	<b>18.6</b>		cc	st	18.2	16.4	3.5	1.0	
Other	1	22.7	18.5	<b>4.8</b>	cv	cv	<b>15.5</b>	<b>18.5</b>	<b>4.8</b>	2.8	
Area C Ridge Trench	2	22.8	14.6	3.5	st	cv	<b>9.9</b>	<b>14.6</b>	<b>5.5</b>	2.5	
		<b>35.5</b>	<b>23.5</b>	5.0	cc	cv	17.5	23.5	<b>4.3</b>	3.0	
<b>Stemmed</b>	1										
Area A Lv. II	1	39.0	15.9	4.9	st	st	11.7				
<b>Fragments</b>	7										
Area A Lv. II	1	-	-	-	-	-					edge frag.
Area B Lv. I	2	-	20.1	6.2	-	-					tip
			10.1	2.9	-	-					small tip
Lv. III	1	-	6.2	4.0	-	-					small tip
Lv. IV	1	-	-	-	-	-					base frag.
Other	1	-	-	-	-	-					base frag.
Area C Ridge Trench	1	-	-	4.3	-	-					tip
Total Projectile Points	38										

D depth

L Length

W Width

Th Thickness

cv convex

cc concave

st straight

o oblique

Measurements are in mm.

TABLE 6  
**SIDE SCRAPER METRICAL AND DISCRETE ATTRIBUTES**

Type and Provenience	f	Flake			Right Dorsal Margin			Left Dorsal Margin			No. of m.	DDM Rd.	Comment	
		L	W	Th	L	Th	Angle $\pm$	L	Th	Angle $\pm$				
<b>Linear Flake</b>	9													
Straight margins	5													
Area A Lv. I	1	34.2	23.1	3.4	-	-	-	24.0	1.9	30	1	-		
Lv. II	1	22.7	11.6	3.4	21.5	1.2	25	-	-	-	1	×		
Other	1	19.0	7.0	1.9	17.0	1.0	25	-	-	-	1	-		
Area B														
Other	1	30.9	11.8	3.2	23.2	0.5	40	-	-	-	1	-		
Area C														
Ridge	1	31.0	18.0	4.8	25.5	0.9	35	-	-	-	1	-		
Parallel margins	3													
Area A Lv. II	1	33.1	16.3	6.8	-	-	-	22.4	2.0	40	2	×	LVM, L. 15.0, Th. 2.0, A. 40	
Lv. IV	1	21.7	13.5	3.0	14.9	0.9	31	12.8	0.6	27	2	×		
Area B Lv. II	1	27.0	19.6	1.1	19.0	0.5	40	27.0	0.5	43	2	-		
Converging margins	1													
Area A Lv. I	1	22.4	13.4	3.0	-	-	-	20.0	1.2	26	1	×	irregular m.	
<b>Large Plano/Convex</b>	7													
Straight margins	4													
Area A Lv. II	1	72.0	52.0	6.0	-	-	-	-	-	-	1	-	slate fragment crushed	
Area B Lv. I	2	70.0	38.7	6.0	18.0	1.0	50	32.0	1.1	52	2	-	LDM concave	
		72.0	47.8	17.3	60.8	2.8	83	-	-	-	1	-	taconite	
Other	1	47.0	20.1	6.1	-	-	-	23.2	0.5	40	1	-	continuous retouch	
Parallel margins	1													
Area A Other	1	47.9	21.2	7.2	30.1	1.5	50	17.0	3.0	45	2	-		
Converging margins	1													
Area B Lv. I	1	47.0	15.0	6.0	39.0	1.2	38	-	-	-	1	-	irregular m.	
Convex margin	1													
Area A Lv. II	1	-	47.6	9.3	40.0	2.5	-	-	-	-	1	-	crushed margins, broken slate	
Fragments	1													
Area A Lv. I	1													slate fragment
<b>Total</b>	<b>17</b>													

L Length

W Width

Th Thickness

m. margin

Rd. rounded

DDM Distal Dorsal Margin

LVM Left Ventral Margin

Measurements are in mm.

TABLE 7  
**RANDOM FLAKE SCRAPER METRICAL  
 AND DISCRETE ATTRIBUTES**

Type and Provenance	f	L.	Flake			Retouched Margin		Angle ± 5°	Comment
			W.	Th.	L.	Th.			
<b>Straight Margin</b>									
Area A Lv. I	4	23.0	19.0	3.4	12.0	0.9	40	st./convex m.	
		20.4	15.4	2.0	11.0	1.2	27		
		25.0	24.7	9.0	18.3	2.3	50	ventral major m.	
		43.7	38.8	7.5	20.0	2.8	47	cortex flake	
Lv. II	2	35.0	24.9	7.5	20.0	2.8	29	graver spur	
		22.0	13.0	3.0	14.8	1.8	39		
Lv. III	1	-	14.0	2.9	12.5	1.0	33	broken	
Other	3	20.1	24.0	5.0	18.0	-	25		
		28.6	19.5	5.0	19.7	1.9	42		
		16.8	14.5	2.0	15.7	1.3	27	cortex flake	
Area B Lv. I	4	26.0	24.1	3.4	21.2	1.5	47	crushed margin	
		20.0	17.0	2.9	17.0	1.8	30	oblique margin	
		31.0	25.0	9.0	27.2	3.0	62		
		19.6	18.7	9.4	17.7	1.3	50		
Lv. II	4	34.3	22.5	5.8	31.8	3.2	40		
		27.8	20.0	4.0	10.7	1.5	48		
		23.0	23.0	3.3	16.2	1.6	38	two pieces	
		51.5	33.0	9.0	30.0	1.8	47	taconite	
Other	1	22.1	11.0	3.1	17.0	2.1	42		
Area C Other	1	19.2	13.4	2.8	15.1	2.1	32		
<b>Convex Margin</b>	3								
Area V Lv. I	1	31.7	15.1	5.4	10.9	1.2	30	end retouched rounded	
Lv. II	2	22.1	20.0	5.5	26.0	2.2	36	broken	
		29.7	20.2	6.7	10.0	1.6	45	broken	
<b>Concave Margin</b>	4								
Area A Lv. II	2	19.3	15.5	3.0	13.3	1.7	55		
		19.0	14.7	4.0	9.0	1.3	34		
Other	1	27.5	20.7	6.2	23.4	3.3	42		
Area B Lv. III	1	24.8	20.9	2.9	14.8	0.8	44	ventral major m. graver spur	
<b>Converging Margins</b>	4								
Area A Lv. III	2	15.5	14.2	3.9	12.9	0.9	25		
		22.5	17.7	3.4	21.0	1.6	42	2nd m. L.80, Th.1.5, A.34	
Other	1	28.0	20.1	4.7	22.1	2.5	26	2nd m. L.18.6, Th.3, A.22	
Area B Lv. I	1	31.6	26.2	8.1	16.6	0.6	47	2nd m. L.14.3, Th.1.2, A.52	
<b>Irregular Margin</b>	2								
Area A Lv. II	1	24.5	17.0	2.7	22.5	1.3	37	ventral major m.	
Area C Ridge Trench	1	24.5	15.5	6.2	17.8	1.7	50		
<b>Fragments</b>	5								
Area A Lv. II	1								
Other	2							fire spaled	
Area B Lv. II	1							edge frag.	
Total	<u>38</u>								

A. angle

m. margin

L. length

W. width

Th. thickness

Measurements are in mm.

TABLE 8

END SCRAPER METRICAL AND DISCRETE ATTRIBUTES

Type and Provenance	f	Flake			DDM		Angle ±1°	DDM Form	RDM		Angle ±1°	LDM		Angle ±1°	VM		Angle ±1°	DDM Junctions			
		L	W.	Th.	L	Th.			L	Th.		L	Th.		L	Th.		Rt Ang	Rounded	RM	LM
<b>Triangular</b>																					
Isosceles		17																			
Area A Lv. I	2	25.4	20.0	6.3	15.0	3.0	84	cv	-	-	-	-	-	-	-	-	-	-	-	-	
		42.0	34.9	9.3	30.1	7.1	60	cv	22.1	6.9	57	-	-	-	-	-	-	-	-	-	x
Lv. III	3	43.0	31.3	9.3	30.2	9.6	65	cv	2.8	3.0	65	35.5	1.5	50	-	-	-	x	x	-	
		26.4	20.5	7.8	14.0	5.0	86	cv	-	-	-	-	-	-	-	-	-	-	-	-	
		17.3	14.7	2.4	13.5	1.9	56	cv	-	-	-	11.2	1.2	53	-	-	-	-	-	x	
Area B Other	1	-	23.5	4.5	-	4.9	86	cv	19.6	2.1	66	-	-	-	-	-	-	-	D	x	D
Area C Ridge trench	2	25.5	20.0	2.8	19.5	3.0	68	cv	-	-	-	-	-	-	24.5	2.5	60	-	-	-	x
		30.0	22.5	6.4	22.5	3.0	78	cv	-	-	-	-	-	-	-	-	-	-	x	-	x
Oblong		6																			
Area A Lv. I	1	41.5	22.3	8.8	21.6	5.0	61	cv	14.0	6.0	60	10.8	3.1	-	-	-	-	-	-	x	x
		Lv. II	1	36.4	21.5	7.4	18.0	2.0	66	st	36.4	2.0	54	36.4	2.5	80	-	-	-	x	x
Lv. III	2	37.0	20.5	5.5	15.4	3.6	70	cv	35.0	2.7	62	33.4	3.0	47	-	-	-	-	x	x	
		47.5	22.1	7.0	20.1	3.5	50	cv	-	-	-	-	-	-	-	-	-	-	x	x	
Area B Lv. II	2	47.6	19.4	6.0	16.9	1.5	60	o	-	-	-	-	-	-	-	-	-	-	-	-	
		-	21.6	4.3	19.0	4.0	66	st	11.4	3.2	-	13.1	2.9	-	-	-	fire spaled	-	x	x	
Equilateral		3																			
Area A Lv. II	1	24.8	24.8	5.4	18.5	4.7	70	o	21.2	1.9	53	23.9	2.0	51	-	-	-	-	x	x	
		Lv. III	1	22.0	21.0	6.5	21.0	5.2	68	st	19.6	0.5	75	15.0	1.0	70	-	-	-	-	x
Other	1	24.0	22.8	7.7	27.0	2.0	72	cv	23.0	2.0	68	16.0	2.4	78	-	-	-	-	x	x	
Trapezoidal		7																			
Oblong		5																			
Transverse Flake		2																			
Area A Lv. I	1	30.8	22.4	6.8	21.1	4.1	45	st	-	-	-	22.0	2.1	50	-	-	-	-	-	-	
		Area C Other	1	29.8	25.0	8.5	23.5	5.0	79	cv	24.5	1.5	40	14.0	2.0	40	-	-	-	-	-
Dorsal Ridged		3																			
Area A Lv. IV	1	-	18.9	5.8	16.4	3.0	79	cv	-	2.0	74	-	3.0	80	-	-	-	-	-	x	
		Other	1	25.0	19.0	5.0	18.0	3.0	82	cv	-	-	-	-	-	-	-	-	-	-	-
Area B Lv. I	1	23.4	23.2	5.4	16.2	4.4	98	cv	-	-	-	18.1	4.1	78	-	-	-	-	x	x	
Prolate		2																			
Bi-Parallel		1																			
Area C Burial Pit	1	17.5	22.5	5.5	22.3	2.0	89	st	13.5	1.2	69	11.7	2.0	76	-	-	-	-	x	x	
Bi-Convex		1																			
Area B Other	1	18.1	20.0	5.7	19.5	2.1	70	st	10.1	6.6	80	-	-	-	-	-	-	-	x	-	
Fragments		3																			
Area A Lv. I	1	fire spaled equilateral																			
Lv. II	1	DDM edge fragment																			
Lv. III	1	fire spaled edge margin																			
Total End Scrapers	<u>27</u>																				

RDM Right Dorsal Margin      LDM Left Dorsal Margin      VM Ventral Margin      DO Distal Dorsal      Rt Ang Right Angle      A Angle ± °  
 RM Right Margin      LM Left Margin      cv Convex      st Straight      O Oblique      DDM Distal Dorsal Margin      D Damaged

Measurements are in mm.

## GENERAL TOOL KIT METRICAL AND DISCRETE ATTRIBUTES

TABLE 9

Class and Provenience	f	Flake			Major Margl		Angle $\pm 5^\circ$	No. of m.	DDM Rd.	Comment
		L	W.	Th.	L	Th.				
<b>Chipped Stone Knives</b>	17									
Slate	7									
Area A Lv. I	4	70.0	33.0	6.3				1		base notched
		62.0	37.0	4.2				1		smoothed edge wear
		92.0	52.0	8.5				1		semi-lunar
		111.0	47.0	9.0				1		one edge crushed
Area B Lv. II	1							1		fragment
Area B Other	2	94.5	73.0	6.9				1		taconite, broken
		98.0	74.0	13.0				1		crushed and retouched
Flake - small	5									
Area A Lv. III	1	30.4	18.5	7.0	25.0	2.2	56	2		LVM. L.23.5, Th.2.1, A.68
Area A Other	2	22.2	15.3	5.8	22.1	2.5	50	3	x	LDM. L.18.7, Th.2.3, A.36
	1	39.3	31.6	9.8						broken
Area B Lv. I		29.2	18.0	4.3						
Area C Ridge Trench		22.5	22.0	4.0	21.0					
Area A Lv. VIII	4	95.0	50.0	11.0						taconite
Area B Lv. I	2	64.7	59.3	12.5	57.0					
		56.9	47.7	8.0						broken
Area B Other	1	60.0	39.0	9.8						broken taconite
Notched Lance	1									
Area B Lv. I	9	67.0	36.7	6.9						
<b>Wedges</b>										
Area A Lv. II	1	21.3	18.6	6.0	17.3	3.1	30			RDM
Area A Lv. III	1	25.1	19.7	5.2	10.7	1.0	31			DDM
Area A Lv. IV	2	27.9	22.7	8.0						
		20.0	16.3	5.4						
Area A Other	1	23.8	18.4	9.0						retouched & crushed
Area B Lv. I	1	20.0	18.4	4.7						
Area B Lv. III	1		17.3	3.2						
Area C Ridge Trench	2	20.0	16.0	7.5						quartzite
		23.8	16.5	9.0						
<b>Bifaces</b>	7									
Area A Lv. III	2									fragment
		31.6	20.7	6.8						tear drop
Area B Lv. IV	1		34.8	10.6						tip taconite
Area B Lv. I	1	34.0	15.1	7.3						
Area B Other	1	86.0	46.2	13.5						taconite Preform (?)
Area C Ridge Trench	2	49.5	38.8	9.0						semi-lunar
				8.0						edge fragment
<b>Drills</b>	3									
Area A Lv. IV	1	23.0	10.0	6.8						
Area B Lv. I	1	22.7	11.3	4.7						
Area C Ridge trench	1		7.0	5.0						
<b>Spokeshaves</b>	2									
Area A Lv. II		15.0	16.8	3.9	15.0	1.0	26			RDM st L. 12 Th. 1.5
		30.0	26.0	9.0	26.2	2.2	45			A. 45, graverspur
										RVM st. L. 23 Th. 2.8
										A. 45, graverspur
<b>Unifaces</b>	2									
Area B Lv. I	2	71.5	19.6	11.1	22.3	1.8	47			st m. irregular retouch
		68.5	61.0	20.2	58.6	4.0	53			st. m. continuous
										retouch, taconite core
<b>Choppers</b>	2									
Area A Other	1	210.0	100.0	22.0						
Area B Other	1	115.0	52.0	57.0						
<b>Denticular Tool</b>	1									
Area A Lv. I	1	42.5	18.0	5.9	38.0					
<b>Perforator</b>	1									
Area C Ridge Trench	1	33.0	8.4	46.6						
<b>Chipped Stone Total</b>	<b>44</b>									
<b>Rough Stone</b>					<b>Wt.</b>	<b>(gms.)</b>				
<b>Hammerstones</b>	8									
Linear	6									
Area A Lv. I	1	88.0	48.0	38.0	242					hammer facet one end
Area A Lv. II	1	95.0	57.0	39.0	293					hammer facet both ends
Area A Lv. IV	1	75.0	59.0	41.0	252					
Area B Lv. I	2				59					fragment
		64.0	55.0		224					
Area B Lv. IV	1	60.0	45.0	35.0	163					
Circular	2									
Area A Lv. II	1	94.0	85.0	70.0	768					
Area B Other	1	74.0	68.0	38.0	318					
<b>Abraders</b>	8									
Area A Lv. III	2	62.5	18.8	4.1						slate
		40.0	40.0	7.0						siltstone
Area A Lv. VIII	2	99.0	46.0	7.5						siltstone
		11.0	6.0	9.0						siltstone
Area A Other	1	62.0	60.0	6.0						square polished centre
Area B Lv. I	2	115.0	53.0	9.5						slate centre polished
		95.0	44.0	11.2						slot and side use
Area B Other	1	75.0	49.0	7.0						slate, edge use
<b>Pendant</b>										
Area C Ridge Trench	1	54.5	14.0	7.3						
<b>Net Sinker</b>										
Area B Other	1	195.0	132.0	30.0						flat reverse end flaked
<b>Cell</b>										
Area C Ridge Trench	1	145.0	48.0	19.0						
<b>Rough Stone Total</b>	<b>19</b>									
<b>Total General Tool Kit</b>	<b>63</b>									

Key see previous tables

Measurements are in mm.

Rainy Lake region where they have been dated to A.D. 1230±125 (Reid and Rajnovich 1980). The ceramics are related to Sandy Lake corded unnotched in northern Minnesota (Cooper & Johnson 1964:479), Nett Lake in northern Minnesota (Evans 1961) and Cemetery Point corded in southeast Manitoba (MacNeish 1958). Various classes as to ware they have been arbitrarily placed under Selkirk. There were 2 rims from 2 Mackinac Punctate type vessels of Late Woodland, Wisconsin ware (McPherron 1967:86). Ware of this class was recovered from the Mound Island site at the east end of Whitefish Lake (Dawson 1978). The recoveries had smoothed-over exteriors with offset double rows of linear stamping below the lips made from a rectangular end tool. They have slightly out-rolled lips and straight sides. They are not collared or castellated. There were 5 juvenile rims, 4 from an incised vessel and 1 from a cord-wrapped object impressed vessel. There were 40 Blackduck decorated body sherds, 5 Laurel, 2 unclassified and 222 undecorated body sherds (Table 4).

The lithic tools (28), like Lv I, are Late Woodland. There were 11 projectile points, 11 scrapers, a slate knife, a wedge, two spoke shaves and a linear and a circular hammerstone. The number and variety of projectile points and scrapers is greater than Lv I. The scrapers included 2 of the large siltstone variety. Attributes are shown in Table 5 to 9.

There were also 2 portions of small carved steatite pipe which formed a nearly complete, well fashioned calumet. It had a small rectangular base 30 mm long, 20 mm wide and 14 mm thick, with a 5 mm square keel. There is a 10 mm diameter stem hole and a 2 mm diameter hole in the keel for a safety cord attachment. The bowl base is 13 mm across. Its sides are ridged and expanding vertically. Two offset small holes 2 mm in diameter occur below the first and second ridges. Knife and file marks are present on the exterior surface suggesting that it may have been a trade item.

There were 5 copper recoveries: a heavily patinated tanged knife; a bipoined and single pointed awl; a bar; and a flattened fragment. These recoveries are more characteristic of the Laurel tradition (Wright 1967) than the Blackduck tradition. The knife was 52 mm long with a bevelled convex blade, a straight back and a width of 14 mm. The tang length was 31.4 mm, the width 4 mm and thickness 2.3 mm. It was a Wittry Type Ila (1951), while so classified this does not imply that it is Archaic. The bipoined awl was 105.7 mm in length, 5.8 mm wide and 4.4 mm thick. The single pointed awl was 49 mm long, 5 mm wide and 2.1 mm thick.

The bar was rectangular; 27 mm long, 9 mm wide and 4.6 mm thick with irregular ends and a median line.

A large quantity of faunal refuse (443) was recovered, much of it diminutive and burnt. Large and small mammal and bird bones were present.

### Level III

European manufactured goods are rare (5). They do not vary from the upper levels (Table 2).

There was one Laurel plain rim vessel and 10 Blackduck rims of which 9 were from 6 analysable vessels of four varieties and 1 from a destroyed vessel. Of the analysable vessels 2 were represented by more than one rim. There were 2 Selkirk rims (MacNeish 1958) from an Alexander fabric-impressed vessel, 2 Ash Rapids corded rims, 1 from a corded and punctate variety and 1 unanalysable, and 1 rim from a Mackinac Punctate vessel (Table 3). There were 17 decorated body sherds, 5 Laurel, one a dentate-stamp variety had an exterior flange and a mortice-and-tenon union, 10 Blackduck and 2 unclassified. There were 115 undecorated body sherds (Table 4), 3 (cord-malleated near rims) had smoothed over cord-malleated interiors with shallow roughly vertical impressions and horizontal striations.

Lithic tools (20) show little variation from the upper levels. There was 2 projectile points, 12 scrapers, 1 flake knife, 1 wedge, 2 bifaces and 2 abraders. Side scrapers and hammerstones are absent. There was 1 single pointed copper awl Wittry's Type IV. It had a length of 46 mm, a width of 39 mm, a thickness of 1.9 mm and a weight of 1.29 gm. Except for a marked decline in quantity (172) faunal refuse shows no variation.

### Level IV

Total recoveries are markedly reduced. There was only one intrusive European artifact, a broken shell button. Ceramics were only from the Blackduck tradition. There were 3 rims from 2 vessels, 3 decorative sherds and 20 undecorated body sherds. Lithic tools (8) are considerably reduced in number consisting of a projectile point, a biface, 2 scrapers, 2 wedges and a linear hammerstone. They show no significant change except for the single occurrence of a drill. There was 1 tanged copper knife (Wittry Type A -1) with a straight back and a convex blade. It had a length of 55.5 mm, a blade width of 10.9 mm and a thickness of 3.2 mm. The tang was tapered and heavily patinated. Its length was 22.5 mm, thickness 3.2 mm and weight 4.5 gm. Bone refuse (36) was minimal.

## Level V

All recoveries were from the features in 3 squares. They consisted of sparse Blackduck ceramics, a destroyed rim, 3 decorated sherds, 2 undecorated body sherds, plus 5 debitage pieces and 16 faunal refuse fragments from the pit feature in Sq. 4, 6 debitage pieces and 12 faunal refuse fragments from the roasting pit in Sq. 5 and one piece of debitage from the hearth in Sq. 1.

## Level VI

All recoveries were from the roasting pit feature in Sq. 5. They consisted of cord-malleated sherds (18), debitage (20), faunal refuse (4) and a copper fragment broken into 5 pieces which may have been an awl.

## Level VII

There were no artifacts or refuse recovered from this level. A soil and a carbon sample were recovered but the latter was insufficient for dating.

## Level VIII

Recoveries were only from the Sq. 5 roasting pit feature. They include 1 biface, 2 abraders, a small quantity of debitage (6) and a flake knife. Bone refuse was absent.

## Other Areas

Other recoveries were from test pits and walls between squares. The European manufactured items (18) show no significant variation from those from the excavation (Table 2). There were two British gun flints recovered with lengths of 31 and 24 mm, widths of 28 and 25 mm and thickness of 8.5 and 8.9 mm. There was a brass kettle conical bangle with a length of 47 mm.

There were 2 Laurel vessels, 1 plain and 1 plain with fine oblique parallel cord-wrapped-object impressions below the lip. This decorative technique is only recorded for the Laurel Tradition in Minnesota (Stoltman 1962:43).

There were 14 Blackduck rims, 11 from 8 analysable vessels representing 4 varieties, and 3 unanalysable. Of the analysable vessels 2 were represented by more than one rim. There were, in addition, 22 Blackduck decorated sherds. There

were 3 Peninsula Woodland rims, 2 from a decorated variety vessel and 1 from an unanalysable vessel. The Peninsula Woodland decorated vessel had parallel oblique impressions below the lip which resembles the technique Mason describes as beaded punctate recoveries from North Bay I assemblage at the Mero Site, Wisconsin (Mason 1966:84). Sparse Peninsula Woodland vessels were present at the Terminal Woodland McCluskey and Mound Island sites on the lake. There was 1 Mackinac Punctate vessel rim and 233 analysable body sherds (Table 4).

Lithic tools (21) recovered show no anomalies from the excavation (see Tables) 'except for one distinctive large sandstone chopper bust-off. Not common to the Blackduck tradition in the area they do occur with Blackduck recoveries from sites to the northeast (Pollock 1975). There was a single-pointed copper awl. It had a length of 64.1 mm, a width of 4.2 mm and a thickness of 2.3 mm.

## Area B

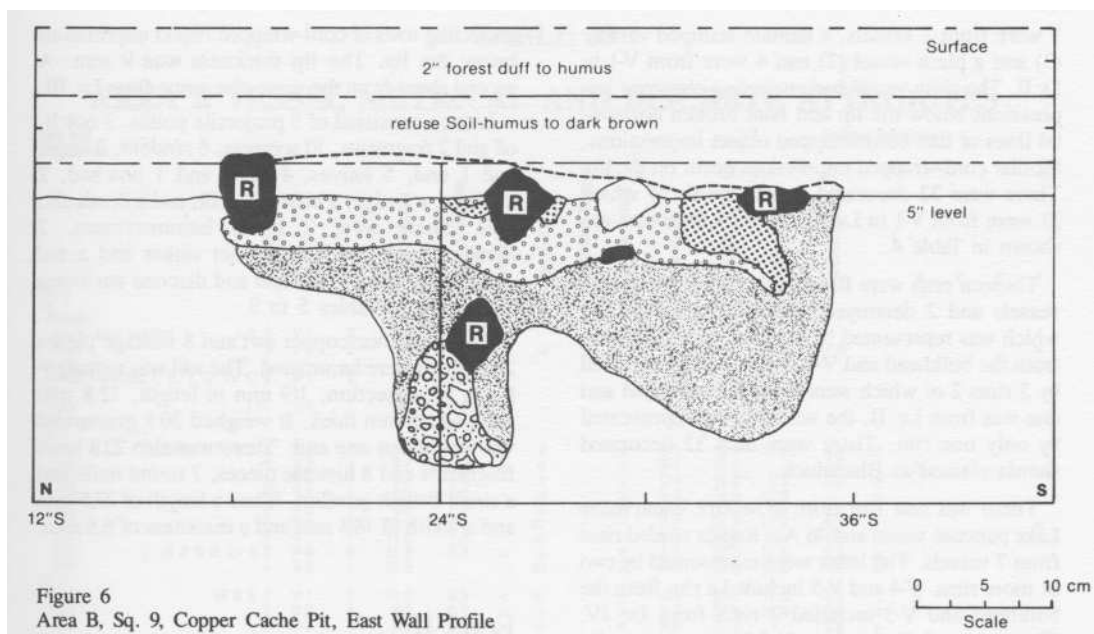
Area B is located 50' (15 m) north of the south shore of the island 125' (38 m) east of Area A. A brush covered terrace 10' (3.1 m) above the shore, it had no sod cover. Absence of cover is equated with denudation from occupation not forest fires. Scattered fire-fractured rocks and cultural refuse occurred directly below leaf mold.

## Excavation

Nine contiguous 5' (1.5 m) squares were opened and excavated by arbitrary 2" (5 cm) levels to sub-soil. Heavy concentration of refuse occurred at 2" to 3" (5 to 7.5 cm) and except for features terminated at 4" to 5" (10 to 12.5 cm). Horizontal distribution of debris suggested separate domestic units. Michigan-derived and Blackduck pottery dominates the ceramic assemblage. Sparse Laurel ceramics also occur. Except for one British gunflint (length 27.5 mm, width 20.2 mm, thickness 6.8 mm) and 7 round nails from Lv I and two cut kettle fragments from Lv III, trade goods were absent.

While lithic raw materials did not vary significantly from Area A, the quantity was considerably reduced representing only 13% of the artifacts compared to 27.6% in Area A. Debitage composition also varied, macroflakes (392, 59.6%) exceeded microflakes (245, 37.2%), whereas in Area A microflakes represent 80.1% and macroflakes represent 16.4%. Cores were approximately the same percentage. Ochre is also present but here two fragments appeared to have been used.





## Features

A hearth feature roughly .60 m across and circular in outline occurred in the south half of Sq. 3 Lv II. It was outlined in medium to small fire-fractured rocks and surrounded by ceramics. Bone refuse and ceramics occurred in the center. It was a shallow saucer depression marked by brown to reddish discolouration terminating at 20 cm.

In the same square a small circular pit about 20 cm across marked by mottled soil occurred in the northeast corner. Jasper teconite debitage was recovered from Lv IV. It terminated in Lv V.

In the center of Sq. 2 beneath a fire zone a small circular black discolouration about 60 cm across, possibly a pit, extended down 30 cm. It was without refuse.

In Sq. 9 a copper cache occurred at 5" (7 cm) extending down 14" (35 cm) (Fig. 6) as a small irregular pit roughly 14" (35 cm) across. Marked by black ash and boulders it contained a hammerstone, a copper awl and 35 copper fragments. Black ash from this feature yielded a radiocarbon date of A.D. 805  $\pm$ 55 (S891). The pit may have supplied heat during the annealing process and together with the hammerstones and worn abrading stones clearly indicates the manufacture of copper tools on the site. The only other record of this process in the immediate region comes from the north lakes area

of Wisconsin directly across Lake Superior (Salzer 1974:48). There it was dated on a comparative base to the earlier Initial Woodland period.

## Radiocarbon Dates

Wood charcoal from Lv I in Sq 4 yielded an acceptable radiocarbon date of A.D. 1630  $\pm$ 85 (S-852) for the top stratum occupation and lime and charcoal from the copper cache pit in Lv. III Sq 9 yielded an acceptable date of A.D. 805  $\pm$ 55 (S-891) for the Terminal Woodland copper tool making. Charcoal from Lv II sq 5 associated with Blackduck tradition cultural refuse yielded a date of A.D. 200  $\pm$ 205 (S-853) which is too early for the tradition, as was a date of B.C. 330  $\pm$ 145 (S-890) from charcoal in Lv I Sq 9. Laurel ceramics were recovered from this square in Lv's I and B. However this material should be positioned below the Terminal Woodland occupation not above. This situation suggests considerable post-occupation disturbance and in the case of the cache pit Algonkian cultural intrusions.

## Level I

There were 93 vessel rims. The metrical and discrete attributes of the analysable vessel rims are given in Table 10. Nine were Laurel rims;

5 were from 2 vessels, a dentate-stamped variety (3) and a plain vessel (2) and 4 were from V-1 in Lv II. The plain vessel had encircling chevrons impressions below the lip and faint broken horizontal lines of fine cord-wrapped object impressions. Similar cord-wrapped impressions occur on the lip. There were 22 decorated Laurel sherds of which 21 were from V-1 in Lv II. Metrical attributes are shown in Table 4.

Thirteen rims were Blackduck from 9 analysable vessels and 2 destroyed vessels. Except for V-1 which was represented by 4 rims 2 of which were from the bulkhead and V-8 which was represented by 5 rims 2 of which were from the bulkhead and one was from Lv. II, the vessels were represented by only one rim. There were also 32 decorated sherds classed as Blackduck.

There was one rim from a Selkirk Clearwater Lake punctate vessel and 16 Ash Rapids corded rims from 7 vessels. The latter were represented by two or more rims. V-4 and V-5 included a rim from the bulkhead and V-5 included 2 rims from Lv. IV. There was a drilled hole in V-6 21 mm. below the lip. There were 18 Sandy Lake rims from one vessel, plus 9 additional rims from the same vessel, 5 from Lv II and 4 from the bulkhead. There were 20 Peninsula Woodland rims from 10 vessels, 7 punctate variety, 1 plain and 1 decorated variety. The vessels had oblique to vertical corded exteriors and straight sides. 7 of the vessels were represented by only one rim. V-7 punctate variety was represented by 8 rims including 3 from Lv. II and 1 from the bulkhead. It is an atypical vessel having interior encircling punctates below the lip which form exterior bosses. V-2 plain variety was represented by 6 rims, V-1 decorated variety was represented by 3 rims and 2 from the bulkhead. It had a smoothed over exterior with horizontal lines of poorly executed pseudo-scallop shell impressions and encircling squared punctates. The interior had widely spaced oblique cord-wrapped object impressions and bosses. The lip had oblique impressions. There were 13 Mackinac ware rims, four were unanalysable and 9 were from 8 vessels. Five were Mackinac Banded type, horizontal banded variety, 3 were Mackinac Punctate type. Banded V-3 was from the bulkhead. V-5 included a rim from Lv II. Punctate types were represented by one rim except for V-3 which was represented by 3 rims. There were, in addition, 3 juvenile rims, one plain and one with cord wrapped object impressions.

There were 378 undecorated body sherds whose metrical and discrete attributes are given in Table 4. Under sherdlets in Table 1 there are 2 pieces of ceramic waste and one pipe fragment. It was a rim sherd from a pipe bowl decorated with 3 horizontal

encircling rows of cord-wrapped object impressions below the lip. The lip thickness was 9 mm. A second sherd from the same pipe came from Lv. III.

Lithics consisted of 5 projectile points, 3 notched and 2 fragments, 10 scrapers, 6 random, 3 large, and 1 end, 5 knives, 4 flake and 1 notched, 2 unifaces, a wedge, a biface, a drill, and a denticular tool. There were 2 linear hammerstones, 2 abraders, and end notched net sinker and a red ochre paint stone. Metrical and discrete attributes are shown in Tables 5 to 9.

There was one copper awl and 8 wastage pieces 2 of which were hammered. The awl was rectangular in cross-section, 119 mm in length, 12.8 mm wide and 5 mm thick. It weighed 30.8 grams and was pointed at one end. There was also 228 bone fragments and 8 historic pieces, 7 round nails and a small British gunflint. It had a length of 27.5 mm and a width of 18.4 mm and a thickness of 6.8 mm.

## Level II

There were 33 vessel rims. Five were Laurel from a linear punctate vessel. There were 4 other rims and 21 decorated sherds from Lv. I and 16 decorated sherds from Lv. II from the same vessel. There were also 4 Laurel decorated sherds, 3 dentate and 1 dragged stamp. There were 9 Blackduck rims, 1 from V-8 Lv I, 2 unanalysable and 6 from 3 mode 100 vessels. V-1 consisted of 2 rims, one from the bulkhead, V-2 had 4 rims and V-3 was a single rim. There were 7 Blackduck decorated sherds. There were 7 Sandy Lake rims, 2 from V-1 and 5 from the V-1 in Lv. I. There were 11 Peninsula Woodland rims, 3 from V-1, 2 from V-2 of the punctate variety, 1 from V-1 Plain variety and 2 unanalysable. The other 3 rims were from the punctate variety V-7 in Lv. I. There was 1 Mackinac rim from the banded variety V-5 in Lv. I. Attributes are shown in Table 10. In addition decorated body sherds (27) and undecorated body sherds (89), attributes are given in Table 4.

Lithics consisted of 1 notched projectile point and 1 fragment, a linear side scraper, 8 random and 2 end scrapers. Other tools were lacking and debitage (82) while present, was less than 2/3 of that from Lv. I (256). There were 33 copper fragments from the cache pit, 3 hammered pieces, 6 nuggets and 24 pieces of waste. There was a large quantity of bone refuse (466).

## Level III

Recoveries from this level were markedly

TABLE 10

AREA B VESSEL METRICAL AND DISCRETE ATTRIBUTES

Type and Provenience												Exterior Punctates							
	Square	V #	f	Lip Thickness	Body Thickness	Brushed	Decorated Lip	Decorated Interior	Interior Bosses	Rim Form	Distance Below Lip	Distance Apart	Vertical Length	o r s i					
<b>Laurel</b>																			
Lv. I																			
Dentate																			
Horiz. over vertical	1 & 2	V-1	3	4.5	6.0	-	-	-	-	3									
Plain	8	V-2	2	5.3	4.6	-	zz	-	-	3	4.9	4.5	7.4						x
Lv. II																			
Linear Punctate	1, 2, 7, 9, Lv II, 9	V-1	9	5.9	6.9	-	-	-	-	5									
Other	T.P.	V-1	1	4.9	7.0	-	-	-	-	13									
<b>Blackduck</b>																			
Lv. I																			
100	1, W 8 & 9, 4 & 5	V-1	4	8.4	5.5	x	o	-	x	B-1	19.4	18.7	4.2				x		
100		V-2	1	8.7	5.7	x	o	-	x	B-5	18.9	-	5.3				x		
100		V-3	1	9.2	7.3	-	o	-	x	C-5	14.8	9.0	3.8				x		
100		V-4	1	6.9	5.0	-	o	-	x	A-5	18.0	13.6	6.9				x		
100		V-5	1	6.9	7.0	-	o	o	x	A-5	10.7	6.9	2.5				x		
107		V-6	1	12.4	7.8	-	cc	-	x	A-2	24.0	17.0	8.3				x		x
107		V-7	1	11.0	7.8	-	cc	-	x	A-4	21.5	-	8.2				x		
200	3, W 2 & 3, Lv II	V-8	5	11.8	7.4	x	o	-	x	A-5	23.3	17.6	5.0				x		
200		V-9	1	10.5	-	-	ch	-	x	A-2	12.2	10.0	4.1				x		
Lv. II																			
100	W 3 & 4	V-1	2	11.2	9.9	x	cc	-	x	A-5	20.7	7.3	4.3				x		
100		V-2	4	9.0	6.0	x	o	-	x	B-4	37.8	10.0	3.7				x		
135		V-3	1	9.0	5.4	x	o	-	x	B-5	17.3	-	5.9				x		
Other	T.P.	V-1	1	10.8	4.4	x	o	-	x	-	15.9	-	2.5				x		
100	T.P.	V-2	1	8.5	5.2	x	o	-	x	A-3	14.3	12.5	-				x		
109	W 5 & 6	V-3	1	7.7	5.2	-	o	-	x	B-1	20.0	13.0	3.8				x		
200	T.P.	V-4	2	9.8	4.7	x	o	-	x	A-2	22.9	-	-				x		
200	T.P.	V-5	1	10.8	5.9	x	v	-	-	A-4	-	-	-				x		
200	T.P.	V-6	1	6.4	5.0	x	o	-	x	-	22.2	20.1	4.8				x		
<b>Selkirk</b>																			
Lv. I																			
Clearwater Lake Punctate	1	V-1	1	7.8	-	-	x	-	-	-	10.0	4.1	3.2				x		
<b>Ash Rapids Corded</b>																			
Lv. I																			
2		V-1	2	5.8	6.0	-	-	-	-	B									
3		V-2	3	5.7	5.0	-	-	-	-	D									
3		V-3	4	8.7	-	-	-	-	-	E									
5, 6, W 5 & 6		V-4	3	7.0	5.0	-	-	-	-	F									
4, W 4 & 5, Lv II		V-5	5	8.4	7.6	-	-	-	-	B									
		V-6	2	4.0	4.6	-	-	-	-	B									
		V-7	2	3.8	3.5	-	-	-	-	B									
<b>Sandy Lake</b>																			
Lv. I	8, 4, W3&7, 3&4, Lv II	V-1	27	8.1	6.0	-	-	-	-	C-3	23.3	11.4	5.1						x
Lv. II		V-1	2	6.0	-	-	-	-	-	A-1	4.5	6.3	3.0						x
<b>Peninsular Woodland</b>																			
Punctate																			
Lv. I																			
2		V-1	1	8.0	7.0	-	o	-	-	25	7.0	11.2	4.6				x		
2		V-2	1	7.1	8.7	-	p	-	-	19	6.7	-	5.7						x
3		V-3	1	7.0	8.2	-	p	-	-	25	10.5	10.3	6.2						x
6		V-4	1	9.5	7.0	-	p	-	-	22	21.0	10.3	6.2						x
6		V-5	1	8.0	10.0	-	p	-	-	25	10.0	-	6.0				x		
6		V-6	1	7.1	-	-	p	-	-	25	10.0	-	4.5				x		
8, 2, W 7 & 8, Lv II	2, 3, 7	V-7	8	5.0	5.3	-	o	-	-	22	11.5	-	4.2				x		
Lv. II		V-1	3	5.8	6.0	-	-	-	(x)*	24	(11.5	17.2	4.2)				x		
		V-2	2	7.8	10.0	-	-	-	-	25	25.0	3.1	2.0				x		
Other	T.P.	V-1	2	5.9	5.0	-	p	-	-	23	7.5	-	3.2				x		
Plain	T.P.	V-2	1	6.2	8.0	-	p	p	-	25									
Lv. I																			
1		V-1	1	7.0	8.0	-	-	-	-	61									
Lv. II																			
4		V-2	6	11.4	8.4	-	-	-	-	23									
Decorated																			
Lv. I	8, W 7 & 8	V-1	5	7.3	7.4	-	p	p	-	19	23.8	13.2	3.9						x
<b>Mackinac</b>																			
Banded Horizontal																			
Lv. I																			
2		V-1	1	8.1	7.7	-	BO	-	-	25	5.6	13.0	3.0				x		
3		V-2	1	8.3	6.8	-	BO	-	x	25	8.5	11.2	2.9				x		
W 3 & 7		V-3	1	7.0	6.9	-	BO	-	-	25	8.7	11.6	3.2						x
8		V-4	1	7.2	7.0	-	BO	v	x	25	15.8	-	6.4						x
9, Lv II, 9		V-5	2	5.6	5.4	-	o	-	-	25	12.9	-	2.4						x
Punctate																			
Lv. I																			
1		V-1	1	8.5	6.7	-	o	o	-	25	10.5	9.5	-				x		
6		V-2	1	10.4	7.9	-	zz	-	-	25	12.0	9.0	9.6						x
9		V-3	3	8.2	5.8	-	OP	-	x	25	13.8	8.3	-						x
Other	T.P.	V-1	2	5.5	6.8	-	-	o	-	61	-	-	-						
<b>Juvenile</b>																			
Lv. I																			
Plain																			
7		V-1	2	5.0	-	-	-	-	-	-									
CWO																			
9		V-1	1	3.9	-	-	-	-	-	-									
Other	T.P.	V-1	3	3.0	-	-	-	-	-	-									
Plain																			

Key see Table 3 Measurements are in mm.

\*interior punctates, exterior bosses

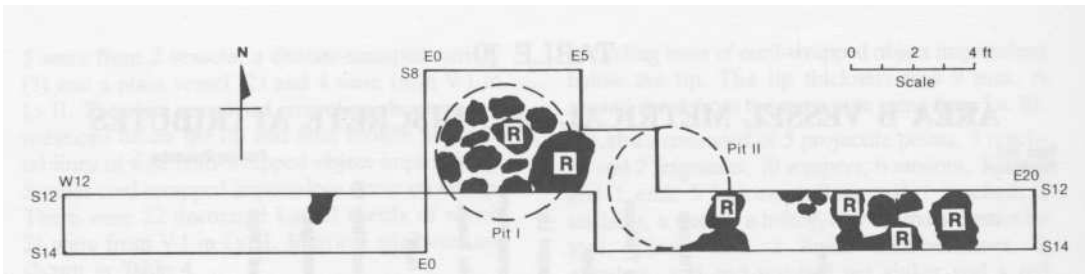


Figure 7  
Area C Floor Plan of the Ridge Cross-Section Trench

reduced. There were no rim sherds and only a few body sherds (26) representing only Laurel and Blackduck ceramics. There was 1 projectile fragment, a wedge, and sparse debitage (14). There were 11 copper fragments, again from the cache in Square 9, 4 hammered pieces and 7 waste pieces. Debitage (14) and bone refuse (12) was insignificant. There were 2 intrusive historic pieces of cut brass.

#### Level IV

Recoveries from this level were sparse but they did include one destroyed Blackduck rim, 2 Ash Rapids corded rims from V-5 in Lv. I and 3 body sherds. There was 1 projectile point fragment, 1 hammerstone, 6 debitage pieces and 17 bone fragments.

#### Other Areas

There were 35 vessel rim sherds from test pits and the bulkheads or walls. One was from a Laurel plain vessel, 13 were from Blackduck vessels, 7 rims from 6 analysable vessels, 4 from vessels in Lv. I (V-1 and V-8) and 2 were unanalysable. There were 2 Ash Rapids corded rims from V-4 and V-5 in Lv. I, 6 Sandy Lake rims, 4 from V-1 in Lv. I, and 2 unanalysable, 7 Peninsular Woodland rims from 2 analysable vessels (3 rims), 1 unanalysable and 3 from V-7 Lv. I, 3 Mackinac rims, 1 cord impressed variety vessel (2 rims) and 1 rim from V-3 Lv. I, and 3 rims from a juvenile plain vessel. There were 165 undecorated body sherds whose attributes are given in Table 4. Under sherdlets (Table 1) there were 2 pieces of ceramic waste.

Lithics consist of 1 notched projectile point and a fragment, 1 linear scraper, 1 large piano scraper, 2 random scrapers, 2 end scrapers, 3 knives, a biface, a chopper, a circular hammerstone, an abrader and a netsinker.

#### Area C

Area C is a natural ridge 10 m east of Area A.

It commences 9 m north of the south shore and extends for 46 m to near the north shore. It is bordered by large boulders and stands 2.6 m above the shore. It is without forest cover. Along the ridge sparse Blackduck cultural refuse occurs immediately below the surface. There are a series of circular depressions on the ridge which lack cultural debris except for one which was an intrusive burial pit.

#### Excavation

A 2 foot (.6 m) wide trench was opened to obtain a cross-section of the ridge. The excavation was expanded to encompass a depression or pit at the top of the ridge (Fig. 7) which proved to be a burial. It was designated Pit I. The excavation trench which extended east-west across the ridge revealed an old habitation floor extending over the ridge. It was marked by mottled soil, sparse refuse, charcoal flecks and a concentration of ceramics, detritus and bone refuse terminating at a natural boulder layer. On the east side the floor was covered by subsoil which probably came from a recent disturbance of the pit (ca. 1882 Winchell:1911). Artifacts were all from the Blackduck tradition except for one rim from the west slope which was from a Peninsular Woodland decorated vessel and 2 rims from the south end of the ridge which were from a Sandy-Lake corded vessel.

#### Features

There were nine depressions along the ridge. The cross-sectioning of six of the depressions produced no more cultural refuse than the surrounding area nor did they yield indications of how the depressions had been formed. They may have been wild rice storage pits as seen in other sites at the lake. At the southern end of the ridge there is a one-meter high hummock with an irregular depression in the center. It was shallow, 30 cm deep and 1.5 cm across and contained at the surface charcoal ash and the remnants of a Blackduck vessel. A depression adjacent to the burial pit designated

TABLE 11

**AREA C VESSEL METRICAL AND DISCRETE ATTRIBUTES**

Type and Provenance	V #	f	Lip Thickness	Body Thickness	Brushed	Decorated Lip	Decorated Interior	Interior Bosses	Rim Form	Distance Below Lip	Distance Apart	Vertical Length	Exterior Punctates							
													c	o	r	s	i			
<b>Blackduck</b>																				
Burial Pit																				
100	V-1	6	10.5	6.2	x	v	v	x	A-2	15.6	16.6	4.8	x							
<b>Ridge Trench</b>																				
100	V-1	1	16.6	10.2	x	v	v	x	C-2	16.9	21.0	6.8								x
100	V-2	1	10.1	7.9	-	v	-	x	A-5	20.0	12.0	4.0	x							
100	V-3	1	9.4	5.9	x	v	-	x	B-5	19.2	12.0	4.6								x
102	V-4	1	7.7	6.5	-	v	-	x	A-5	25.3	D	2.9	x							
107	V-5	1	10.9	5.8	x	cc	-	-	A-3	18.2	13.7	5.0	x							
107	V-6	3	11.1	6.2	x	cc	-	x	A-2	16.9	24.2	4.9		x						
107	V-7	2	12.8	8.9	x	v	-	x	A-5	20.1	20.9	5.2		x						
107	V-8	4	14.1	6.9	-	cc	-	x	B-2	20.1	D	D								x
110	V-9	3	10.2	6.0	-	v	-	x	B-5	16.7	D	2.9								
130	V-10	1	7.8	4.9	-	v	-	-	C-3	14.6	D	D								
135	V-11	1	7.0	-	x	v	-	x	B-5	13.0	D	3.1		x						
140	V-12	1	9.4	6.2	-	v			A-5	-	-	-								
200	V-13	1	10.5	6.5	x	v	-	x	A-4	16.8	D	4.0								x
300	V-14	1	7.4	8.9	-	v	-	-	A-5	-	-	-								
300	V-15	1	10.8	7.4	x	v	-	-	A-5	-	-	-								
400	V-16	2	11.4	7.9	-	v	-	-	D	-	-	-								
<b>Other</b>																				
100	V-1	1	8.1	4.5	-	v	-	-	A-4	11.0	D	D	x							
100	V-2	1	8.0	4.5	-	cc	-	x	C-4	20.0	12.0	2.7	x							
107	V-3	1	5.0	6.0	-	v	-	x	C-5	13.5	11.1	3.0		x						
<b>Sandy Lake</b>																				
Other																				
	V-1	1	10.5	6.0	-	v	v	-	C-6	7.1	5.8	7.5								x
<b>Peninsular Woodland</b>																				
Ridge Trench																				
Decorated	V-1	1	10.5	6.6	-	v	v	-	23	20.1	23.0	4.1	x							
<b>Juvenile</b>																				
Ridge Trench																				
CWO	V-1	1	6.0	4.4	-	v	-	-		17.5	D	3.6		x						
	V-2	1	7.7	4.5	-	v	-	-												
Plain	V-3	1	6.1	D	-	-	-	-												

cc criss-cross      v vertical / oblique      D damaged  
 Key see Table 3      Measurements are in mm.

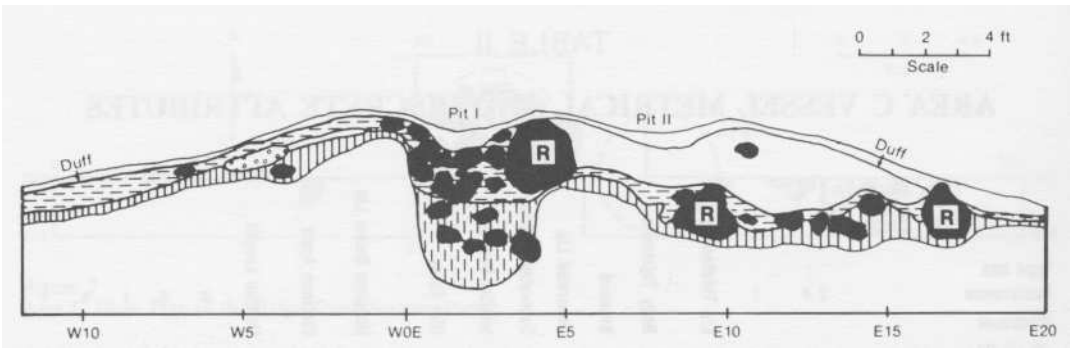


Figure 8  
Area C East-West Profile of the Burial Pit and Trench

Pit II was circular in outline, 4.8 m across and extended down 70 mm. It contained Blackduck ceramics and lithics and bone refuse. The sub-surface portion was not clearly visible in the cross section trench.

The burial pit (Fig. 8) was roughly circular 4' (1.2 m) in diameter and saucer shaped at the base at 54" (1.4 m) depth. The north half, which contained a small amount of refuse, appeared disturbed. The south half contained secondary bundle burial fragments (long bones, cranium, miscellaneous small bone and teeth) which appeared to have been enclosed by a birch bark container. One fragment of birch impregnated with copper salts from a copper pendant had watap stitching. The burial appeared to face south. A carbon sample from charcoal surrounding the burial yielded a date of A.D. 630  $\pm$  85 (S-8<sup>92</sup>). The calendric date A.D. 575 to A.D. 885 (Klein et.al. 1982) indicates coevality with late Laurel, a situation seen at other sites in the area (Dawson 1981). On the west side of the burial there was a complete medium size Blackduck vessel. The orifice was 13 cm and the capacity was 1 1/2 litres. Black residue suggests that the vessel contained food but this was not determined with certainty. In front of the vessel was the remnants of a clam shell, possibly a spoon.

## Artifacts

There were 25 Blackduck rims representing 16 vessels and 3 juvenile vessel rims from the trench excavation. There was one Peninsular Woodland decorated vessel which was similar to one from a test pit in Area A. It had a splayed lip with oblique pseudo-cord impressions. There was 1 rim from a Sandy Lake corded vessel from the south end of the ridge and 6 Blackduck rims from 3 vessels and 3 destroyed from test pits. Vessel metrical and discreet attributes are shown in Table 11. In

addition there were 46 decorated and 311 undecorated body sherds from the area.

Lithics from the trench included 4 projectile points, 5 scrapers, 1 knife, 2 wedges, 2 bifaces, 1 drill, 1 perforator, 1 celt, 1 pendent and 5 pieces of ochre. Lithics attributes are given in the tables. The burial pit contained an end scraper and a few fragments of detritus and a copper pendant. It was 98 mm in length, 19 mm in width and 13 mm thick. A perforation for hanging occurred at one end and remnants of fabric were adhering at this point. It weighed 8.3 gms. Bone refuse was primarily from the trench excavation. Compared to other areas, it was sparse.

## Conclusions

The ceramic assemblage suggest that the first occupation of the Martin-Bird site occurred in the Initial Woodland period and involved the Laurel culture. The thin veneer of Laurel refuse scattered across Area A and B probably belong to the habitation associated with the MacGillivray burial mound which abuts the site on the north (Dawson 1980). The 330  $\pm$  145 B.C. radiocarbon date from Area B may pertain to this occupation. This date compares favourably with the 290  $\pm$  80 B.C. obtained from a pure carbon lens at the edge of the MacGillivray mound. The radiocarbon date A.D. 200  $\pm$  205 and A.D. 480  $\pm$  115 obtained from charcoal samples in Area B and A also pertain to the occupation. The late dates and the dominance of late ceramic traits (plain and mixed techniques) suggests that the occupation continued in time into the Terminal Woodland period. This is also seen at the MacGillivray site. Other material was not diagnostic of the period.

In the subsequent period there appears to have been a continuous occupation by various carriers of the Algonkian culture. In Area A Lv I has

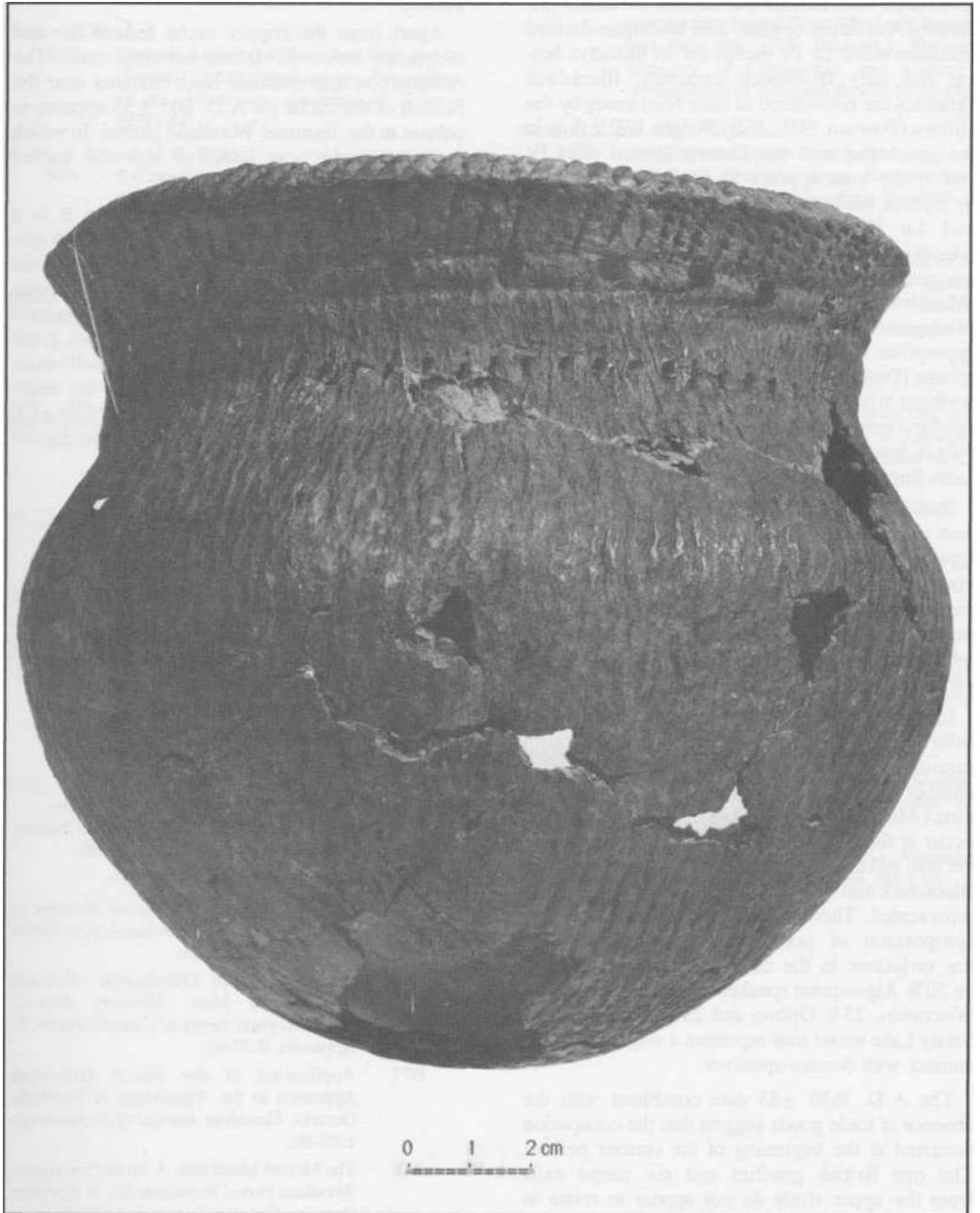


Figure 9  
Blackduck Vessel Recovered from the Burial in Area C

late trade goods associated with Blackduck ceramics, Lv II and Lv III has similar trade goods associated with Blackduck, Selkirk ceramics (including Ash Rapid corded) and Michigan-derived ceramics while Lv IV except for an intrusive button has only Blackduck ceramics. Blackduck ceramics are considered to have been made by the Ojibwa (Dawson 1972, 1974; Wright 1972), thus in the precontact and the historic period (Lvs IV and I) the area appears to have been occupied by Ojibwa while the Initial Contact period (Lv II and Lv III) the occupation includes other Algonkian-speaking peoples. The Selkirk ceramics are considered to have been made by the Cree (MacNeish 1958:67; Wright 1968c) while the Michigan-derived ceramics are considered to be appropriate to the Potawatomi, Sauk and Algonkian groups (Dawson 1987:156). The latter may be from northern Wisconsin rather than the Michigan where similar ceramics have been recovered from sites only a few miles south across the narrow end of Lake Superior (Salzer 1974).

Radiocarbon dates A.D. 1065, 1290 and 1775 suggest a continuous occupation for over 700 years. Extensive laminated refuse in the upper levels vis-a-vis scattered refuse in the lower levels suggest an expanding occupation. The horizontal and vertical disposition of the clustered ceramic types reflects the diverse eastern origins of the Algonkian groups and at times a temporal hiatus.

In Area B Lv I, most ceramics are of the Peninsular Woodland variety, similar to the Wisconsin ceramics in Area A. However, there is a greater number of Mackinac ceramics. These may have direct Michigan origins. Ceramics of this type also occur at the Mound Island Site at the east end of the lake and along the north shore of Lake Superior. Blackduck and Selkirk ceramics are about equally represented. There is one Sandy Lake vessel. The composition of population if it approximates the variations in the ceramic assemblage would be 50% Algonquian speakers out of Michigan and Wisconsin, 25% Ojibwa and 25% Cree. The one Sandy Lake vessel may represent a single fortuitous contact with Souian-speakers.

The A.D. 1630  $\pm$ 85 date combined with the absence of trade goods suggest that the occupation occurred at the beginning of the contact period. The one British gunflint and six round nails from the upper strata do not appear to relate to the occupation.

In Lv II there is an equal representation of Blackduck and Michigan-derived ceramics but all Michigan ceramics are Peninsular Woodland similar to those in Lv II and III in Area A. Selkirk ceramics are absent. One Sandy Lake vessel rim

was present. The recoveries indicated a less diverse mix of population in the immediate prehistoric period.

Apart from the copper cache feature the few recoveries below Lv II are not diagnostic. The radiocarbon date obtained from charcoal near the bottom of the cache pit A.D. 805  $\pm$ 55 appears to pertain to the Terminal Woodland period. In which case the cache was intrusive into the earlier habitation.

The ceramics of Area C suggest that it is a Blackduck Ojibwa culture habitation. Only two potsherds were not from this tradition and they were from the periphery and more appropriately belong to habitation in Area B. The burial appears to have been a single bundle burial with minimum grave goods, a pendant, a shell spoon, and a small vessel containing food. Charcoal surrounding the interment dated the Blackduck burial to A.D. 630  $\pm$ 85, suggesting a period of overlap with the late Laurel culture.

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