

TIMBER SALE PRESCRIPTION

MICHIGAN							
				GENERAL			
Date					Forest, Mineral and Fire Management Unit		
2/3/2009				Gladwin Manager			
Timber Sale Numb	er (if applicable)			Sale Name (or pres	cription name)		
73-001-09-01				Otter Pines			
LOCAL CONTACT							
				•	Telephone		
Mike Hanley Email Address				(517) 243-2028 FAX			
				(989) 426-1454			
Map of Project Area Attached							
Map of 1 To	jeet Area Atta	crica		GAL DESCRIPTION			
NW14,NW14 & W12,SW14 & SE14,SW 14 & S12,SE14 Sec 15 & S12,SE14 & NE14,SE14 Sec 16 & W12, SE14 Sec 17 of T20N R05W							
Year of Entry: 2	2009 Compar	tment(s):	11 Stand Nu	mber(s): 1, 2, 8,9,10,17,2 ²	1,39 & 48		
	THIS	TIMBER S	ALE CONTRA	CT IS BASED ON THE FO	DLLOWING ACREAGE		
Estimated Acre	o: 216 Sour	ce: 🛛 OI	□GPS	Other			
							
Payment will be m	nade on the basis	of these es		TMENT & OBJECTIVE			
STAND#	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE		
1	R6	5	110	Final Harvest	Red Pine		
2	R9	41	160	Thinning	Thinning Red Pine		
8	J6	42	110	Final Harvest	Final Harvest Red Pine		
9	R6	15	220	Thinning	Red Pine		
10	O6	27	80	Final Harvest	Oak		
17	R9	22	110	Final Harvest	Red Pine		
24	O5	21	60	Final Harvest	Oak		
39	O9	12	90	Final Harvest	Oak		
48	R9	31	160	Thinning	Red Pine		
 Stand 1: Red Pine removal: Do not mark R. Pine. Mark to leave Oak with green paint to meet retention guidelines. Leave SE corner uncut to meet retention guidelines. Stand 2: Mark to cut with orange paint retain 120 BA/AC. Favor the removal of damaged trees, dominant and codominant. Retaining all scattered Oaks. Focus retention along snowmobile trail. Stand 8: Jack Pine removal: Do not mark J. Pine. Mark to leave with green paint a mix of Red Pine and Oak to meet 							

- retention guidelines. Focus retention along snowmobile trail.
- Stand 9: Mark to cut with orange paint. Individual tree mark to reduce residual to 110 BA/AC.
- Stands 10, 17, 24 & 39: Final Harvest: Do not mark Red & White Pine. Mark to leave scattered Oaks with green paint to meet retention guidelines. Focus retention along snowmobile trail.
- Stand 48: Jack Pine removal. Mark to cut Oak with orange paint retaining 10 BA/AC of Oak. Mark to cut Red Pine with orange paint retaining 90 BA/AC of Red Pine.
- In stands 2 and 48: Target the removal of Red Pine trees for;
 - 1) Creating good operational access for logging operations (rows are indistinguishable in many areas).
 - 2) Suppressed, forked and poor health trees.
 - 3) Favor the removal of the largest diameter trees to reach desired tree spacing.
- Access: Via Haskell Lake Road, Otter Road and various state two tracks.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
DNR will run and paint East property line of Stand 48	1/31/09
CONTRACT WORK CAN BEGIN Immediately Date:	
CONTRACT WORK MUST BE COMPLETED BY Date 07/31/2009	

⊠ This is included	in the bid	☐ This is no	t included in the	e bid			
Paint line work to be performed: (See attached map for locations)							
	o perioriii	•					
TYPE OF LINE		WORK TO BE DONE	NOT APPLICABLE		PAINT COLOR		
Private boundary		\boxtimes	<u> </u>	⊠ Blue	Other:		
Sale boundary		\boxtimes		⊠ Red	Other:		
Sale cutting unit					Other:		
Stand type line				Other:			
Contactor to paint r Stand 48.	ed and bl	ue lines (private	boundary) in S	tands: 1, 2, 8, 1	0, 17 & 39. DNR to pain	t blue line in	
otuna 40.							
Standards for marki	na lines :	against private la	and: The sale ar	ea has survey co	orners. Copies of survey in	nformation	
					es. The blue line is to be a		
located leaving no bu	ffers alon	g private boundar	ies.				
			AREA CALCUL	ATION			
	in the bid	☐ This is no	t included in the	e bid			
UNIT	METHO	<u>—</u>			STANDARD		
Sale	⊠ GP		in 🗌 Other		PDOP < 7		
Payment Unit	⊠ GP				PDOP ≤ 7		
Stand	⊠ GP				PDOP < 7		
Special Instructions		C Carring Orla			DOI <u>< 1</u>		
☐ This is included		⊠ This is no	ER CRUISING SP t included in the				
Required Basal Area	a Factor.		☐ Other.				
Cruise Line Directio	ns N/A						
CRUIS	ING UNIT	S	NUMBER OF PLO	OTS PER ACRE	SPACING (CHA	(INS)	
TOTAL NUMBER OF CRUISE POINTS Cruise Special Instructions: DNR to cruise all stands.							
Cruise Special Instr	uctions:	DINK to cruise all	stands.				
Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.							

2 R4038 (Rev. 09/13/2007)

	TIMBER MARKING SPE	CIFICATIONS	
$oxed{\boxtimes}$ This is included in the bid	\square This is not included in the	bid	
□ Precise specifications to I	be delineated at pre-work meetin	g with DNR staff	
Stand 2: 120 (MinimurStand 9: 110 (Minimur	BA (Basal Area): Varies by stand. m 110 to Maximum 130) m 100 to Maximum 120) ak + 90 BA red pine] (Minimum 90 to		
TRE	ATMENT	NUMBER	SIZE
Regeneration Gaps Per Acre Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	10" Diameter Class	8" Diameter Class
Sawbolts			
Pulpwood	Slash visible from all sides	5" Diameter Class	4" Diameter Class
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	\boxtimes		⊠ Green □ Other
Trees marked to cut	\boxtimes		
	TALLY INTENS	SITIES	
	S / PRODUCT		RATIO
N/A		1 :	
		1:	
		1 :	
SDECIAL MADKING INSTRU	CTIONS		

For all stands Michigan DNR retention guidelines must be followed. See individual stand prescriptions for retention details. Contractor must GPS leave islands. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.

Where possible focus retention along snowmobile trail in Stands 2, 8, 10, 17 and 39.

Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.

RESTRICTIONS

- 1. Forest, Mineral and Fire Management Division must to be able to identify who did what on the timber sale.
- 2. The contractor may not have more than two markers in one payment unit without prior approval.
- 3. Each marker should have an assigned area to mark (not strips).

PAINT

- 1. Call Mike Hanley at (517) 243 2028, to make arrangements for paint.
- 2. Paint will be supplied from Gladwin field office.
- 3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- 4. The DNR will not be available on weekends or evenings.

DELIVERABLES

- 1. A list of names that marked or cruised each payment unit.
- 2. A summary of paint used (in quarts).
- Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
- 4. GPS files for any GPS work.