

State of Alaska
Department of Natural Resources
Division of Forestry and Fire Protection
Southeast Office



Draft Forest Land Use Plan

Whale Pass Timber Sale

SSE-1378 K

September 2022

Abbreviations

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish and Game
ADNR	Alaska Department of Natural Resources
BIF	Best interest finding
DMLW	Division of Mining, Land and Water
DOF	Division of Forestry and Fire Protection
FLUP	Forest Land Use Plan
FRPA	Alaska Forest Resources and Practices Act
FYSTS	Five-year Schedule of Timber Sales
MBF	Thousand board feet
OHA	Office of History and Archeology
POG	Productive old growth
POW	Prince of Wales
POWIAP	Prince of Wales Island Area Plan
ROW	Right-of-way
SESF	Southeast State Forest
SESFMP	Southeast State Forest Management Plan
UA	University of Alaska
USFS	United States Forest Service

Contents

I. Introduction:	5
A. Legal description:	6
B. Operational Period:	6
C. Timber Disposal:	6
D. Objectives and Summary:	6
II. Affected Landowners/Jurisdictions:	7
A. State:	7
B. Other Land Ownership:	7
III. Harvest Methods, Silvicultural Actions, and Management of Non-Timber Resources:	7
A. Timber Stand Description and History:	7
B. Timber Harvest Activities:	8
C. Site Preparation:	9
D. Reforestation:	9
E. Slash Abatement:	10
F. Timber Harvest—Surface Water Protection:	10
G. Wildlife Habitat:	11
H. Cultural and Historical Resource Protection:	11
I. Other Resources Affected by Timber Harvest and Management:	11
IV. Roads and Crossing Structures:	13
A. Road Design, Construction, and Maintenance:	13
B. Side Slopes / Mass Wasting:	15
C. Crossing Structures:	15
D. Road Closure:	18
E. Material Extraction:	19
F. Other Resources Affected by-Roads or Material Extraction:	19
V. Approvals:	20

Appendix A: Whale Pass Timber Sale Maps 21
 Appendix A1 Whale Pass Area Map (1 page)..... 21
 Appendix A2 Whale Pass Unit Maps (6 pages) 21
Appendix B: Supporting Information..... 22
Appendix C: Appeal Statutes and Regulations..... 23
Appendix D: DRAFT FLUP Public Comment 24

DRAFT

I. Introduction:

Project File Number: SSE-1378 K

Division of Forestry Office: Southeast
Area Forester: Greg Staunton
Forest Practices Geographic Region (AS 41.17.950): Region I

This Draft Forest Land Use Plan (FLUP) covers forest operations on approximately 292 acres of land from state lands on Prince of Wales (POW) Island, on the east and north sides of the City of Whale Pass. It is intended to provide the best available information regarding the proposed harvest of timber, and management of other non-timber uses in compliance with AS 38.05.112 and AS 41.17.060, and must be adopted by the DNR before the proposed activity can occur..

This Draft Forest Land Use Plan is for timber sale(s) which have been determined to be in the best interest of the state pursuant to AS 38.05.035 (e) and 38.05.945. This FLUP does not determine whether or not to access and sell timber within the timber sale area, nor the method of sale. Those decisions have been made previously in the May 13, 2022 Best Interest Finding and are not appealable under this FLUP.

The Final Best Interest Finding (BIF) and decision for the Whale Pass Timber Sale may be found at: <http://notice.alaska.gov/206692>

Note: The designation of Unit 2 and 3 was changed in the FLUP from what was labeled in the BIF document to facilitate the calculation of acreage.

This Draft Forest Land Use Plan is for timber sale(s) for which a Preliminary Best Interest Finding is currently out for review. A final best interest finding must be completed prior to adoptions of a final FLUP pursuant to AS 38.05.035 (e) and 38.05.945;

This Draft Forest Land Use Plan is for timber to be harvested that does not require a final finding pursuant to 38.05.035 (e) and notification under 38.05.945.

A draft of this plan was distributed to the Department of Fish & Game (ADF&G) and the Department of Environmental Conservation (DEC) for their review and comments relevant to the consistency of this proposed project with the statutes governing forest land use plans (AS 38.05.112) and the requirements of the Alaska Forest Resources & Practices Act (AS 41.17) and its Regulations (11 AAC 95).

The public and agencies are invited to comment on specific requirements for harvest, access, and reforestation operations in this draft FLUP. The decision on whether or not to offer timber for sale is made through the best interest finding process and is not subject to review under the FLUP. Objections or comments pertaining to the draft FLUP must be received in writing to the DOF Southeast Area Forester's Office by October 17, 2022, **at 5:00 p.m.** in order to ensure consideration for review. Comments should be mailed to the State of Alaska, Division of Forestry, 2417 Tongass Avenue, Suite 213, Ketchikan, AK 99901 or by email to greg.staunton@alaska.gov. For more information, you may contact Greg Staunton, Southeast Area Forester, 907-225-3070. To be eligible to participate in any appeal or request for reconsideration to the final decision, a person must be affected by the decision, and must have submitted comment to the preliminary decision during the comment period.

After public and agency review of the draft FLUP, the DOF will review comments, make changes as appropriate, and issue a final FLUP. An eligible person affected by this decision, and who provided timely written comment or public hearing testimony to the department, may appeal the decision to the DNR Commissioner per AS 44.37.011 and 11 AAC 02.

Other Documents are referenced in this FLUP. This timber sale is designed to be consistent with the management intent of the following documents:

- Alaska Forest Resources & Practices Act
- Prince of Wales Island Area Plan
- Southeast State Forest Management Plan

The administrative record for this sale is maintained at the Division of Forestry Southeast Office filed as SSE-1378 K.

A. Legal description:

The timber sale area is found within Sections 13, 23, 24, 25, 26, and 27, Township 66 South, Range 79 East, Copper River Meridian (CRM). The sale area is found within the Petersburg A-4 USGS quadrangle. See attached map titled:

Appendix A, SSE-1378 K Whale Pass Timber Sale Harvest Area Maps.

B. Operational Period:

Spring 2023 through Fall 2028.

C. Timber Disposal:

- Timber will be sold and will have a contract administrated by the State.
- Timber will be available to the public; permits obtained by the public will be issued by the State.
- Other.

D. Objectives and Summary:

1. To follow the Alaska Department of Natural Resources' (ADNR) constitutional mandate to encourage the development of the State's renewable resources, making them available for maximum use consistent with the public interest;
2. To help the State's economy by providing royalties to the State in the form of stumpage receipts, an infusion to the State's economy through wages, purchases, jobs, and business; and
3. To help the local economy of the communities within southern Southeast Alaska by creating additional jobs in Southeast Alaska due to the combination of road building, logging, trucking and potentially milling.

II. Affected Landowners/Jurisdictions:

Activity on ownership:	Access Easement	Harvest	Representative Approval
A. State:			
<input checked="" type="checkbox"/> Southeast State Forest	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Other state land managed by DNR (S)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> University of Alaska	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Mental Health Trust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> School Trust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Other Land Ownership:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Land Owner: _____

Land Owner Representative: _____

III. Harvest Methods, Silvicultural Actions, and Management of Non-Timber Resources:

Forest operations will be designed to:

- Protect fish habitat and water quality in compliance with the best management practices in 11 AAC 95.260-.370,
- Manage for the other land uses and activities identified in AS 41.17.060 and the Best Interest Finding for this timber sale, and
- Ensure prompt reforestation and maintenance of site productivity in compliance with AS 41.17.060(c) and 11 AAC 95 .375-.390.

Harvest and Silvicultural Methods:

The silvicultural actions are described in this document, and no prescription was written or is necessary.

A silvicultural prescription has been written and is attached to this document in Appendix B.

A. Timber Stand Description and History:

The proposed harvest area has the characteristics of mature old growth. The stands are dominated by a western red cedar stand type. The timber identified is of mixed quality and generally notable in defect due to its slow growth and overall lower site class. The larger and better-quality timber in the area is generally located on the better drained soils. The stand is composed of western red cedar, western hemlock, Sitka spruce and occasional Alaska yellow cedar.

Second growth forests adjacent and to the proposed harvest areas exhibit indications of productive site conditions and are between 15 and 50 years old. The sites identified in the BIF generally are residual stands that did not have the species composition for historical market conditions.

B. Timber Harvest Activities:

Timber Harvest Activities are displayed in Table 1.

Table 1. Timber Harvest Activities

Unit ID	Setting	Acres	Topography	Silvicultural Action	Logging Method
Unit 1	Shovel	6	Irregular	Clearcut	Shovel Logging
Unit 2	122	2	Irregular	Clearcut	High Lead Cable
Unit 2	133	8	Irregular	Clearcut	High Lead Cable
Unit 2	134	1	Irregular	Clearcut	High Lead Cable
Unit 2	Wildlife	5	Irregular	Partial Cut (50% Basal Area Removal)	Shovel Logging
Unit 2	Shovel	126	Irregular	Clearcut	Shovel Logging
Unit 2	TOTAL	142			
Unit 3	120	2	Irregular	Clearcut	High Lead Cable
Unit 3	125	3	Irregular	Clearcut	High Lead Cable
Unit 3	Shovel	49	Irregular	Clearcut	Shovel Logging
Unit 3	TOTAL	54			
Unit 4	Shovel	33	Irregular	Clearcut	Shovel Logging
Unit 4	141	20	Irregular	Clearcut	High Lead Cable
Unit 4	TOTAL	53			
Unit 5	Shovel	26	Irregular	Clearcut	Shovel Logging
Unit 6A	Shovel	7	Irregular	Clearcut	Shovel Logging
Unit 6B	Shovel	4	Irregular	Clearcut	Shovel Logging
Unit 6	TOTAL	11			
Total of All Units		292			

Note: Figures rounded to nearest whole numbers. The designation of Unit 2 and 3 was changed in the FLUP from what was labeled in the BIF document to facilitate the calculation of acreage.

C. Site Preparation:

Site preparation will not be necessary. There will be sufficient soil disturbance by logging to forego scarification.

Site preparation will be implemented and described in Table 2:

Table 2. Site Preparation

Unit	Acres	Site Preparation Method	Date of Completion

D. Reforestation:

Clearcut

Partial Harvest:

Region I: leaving more than 50% live basal area (11 AAC 95(b)(3))

Region II/III: Relying on residual trees to result in a stocking level that meets standards of 11 AAC 95.375 (b 4). Stocking levels will be calculated subject to the methods below:

Table 3. Stocking Level Requirements

Average DBH (Diameter at breast height)	Residual Trees (Trees/ acre)	Minimum Stocking Standard (Trees/ acre)	Percent Stocking
≥ 9"		120	%
6" to 8"		170	%
1" to 5"		200	%
Total Residual Stocking			%

Seedlings Required:

Percentage Under stocked = 100 – Total Residual Stocking %

Percentage Under stocked = 100 – _____ % = _____ %

Seedlings/ Acre Required = Percentage Understocked/100 x 450

Seedlings/ Acre Required = _____ % /100 x 450 = _____

Natural regeneration

List species: western red-cedar, Sitka spruce, western hemlock, Alaska yellow-cedar

Coppice

List species:

Artificial regeneration

Seeding-source of seed (general vicinity location of seed source)

Planting: Date of proposed planting: _____

Source of seedlings (location of seed source): ____

E. Slash Abatement:

- Potential for insect infestations caused by slash accumulations exists. Slash abatement for controlling infestations will be implemented as required by 11AAC 95.370.
- Lop and scatter slash; accumulations will be kept to less than 2 feet in height.
- Slash will be scattered by the operator. Slash will be disposed of by the State.
- Other - method of slash disposal: removal off site crushing or grinding burning
- Burn permits necessary from DOF and DEC to be acquired.
- The operator will contact the Division of Forestry local area office prior to ignition of debris.

F. Timber Harvest—Surface Water Protection:

- There are no streams or lakes abutting or within a harvest unit.
- Known surface waters and protection measures are described in Table 4 below.
Locations and types are indicated on the operational map in the Appendices.

Table 4. Protection for Known Surface Waters

Unit	Waterbody Name	AS 41.17.950 Classification	ADF&G AWC #	Required Riparian Protection	Site-specific actions to minimize impacts on waters.
All	All	Non-classified surface waters	none	none	Implement FRPA and Reg.
1/3	West Log Creek	Anadromous	106-30-10798	100 FT	Retain timber per AS 41.17.118(a)1(A) and (B)
2	Snoose Creek	Anadromous	106-30-10770	100 FT	Retain timber per AS 41.17.118(a)1(A) and (B)
None	108/Big Creek	Anadromous	106-30-10800	100 FT	DNR is not harvesting the existing timber between the 3000520 and the stream.
4	Unnamed	Anadromous	106-30-10820-2003-3009	100 FT	Retain timber per AS 41.17.118(a)1(A) and (B)
1-6	Several and Unnamed	Tributary to Anadromous <12%	none	100 FT. Slope Stability Standards	Split yard, site specific crossing approval of DOF.
1-6	Numerous and unnamed	Tributary to Anadromous >12%	none	50 FT. Slope Stability Standards	Split yard, site specific crossing approval of DOF.

Surface waters listed above were reviewed by the Department of Fish and Game:

- During the timber sale planning process
- During the agency review conducted for the Best Interest Finding for this sale
- During the drafting of this Forest Land Use Plan
- Stream Crossings (Title 16) Permits are needed per ADF&G Division of Habitat

Surface waters listed above were reviewed by the Department of Environmental Conservation:

- During the timber sale planning process

- During the agency review conducted for the Best Interest Finding for this sale
 During the drafting of this Forest Land Use Plan

Notes:

1. Non-classified surface waters are subject to applicable Best Management Practices in 11 AAC 95.
2. Surface waters in Units 2 and 3 have previously been used for unauthorized residential water sources associated with the subdivision lots to the east. Some of these residences may withdraw and use surface water from points located on the residential lots. Maintaining existing surface water quality is a required performance goal for all road building and harvest operations.
3. Drainage P913 crosses surface waters tributary to a State granted water right (LAS 10079) south of Unit 2. Timber operations will not draw water or change the drainage pattern in this watershed unless required for wildland fire suppression and other alternatives are not feasible.

G. Wildlife Habitat:

- Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the Best Interest Finding review.
- Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the drafting of this Forest Land Use Plan.

Silvicultural practices to be applied to minimize impacts to wildlife habitat or wildlife management:

- Timber retention - concentrations of timber surrounding harvest units, or interspersed within harvest units to provide cover.
- Snag Retention- snags or isolated trees left for cavity nesting species.
- Large Woody Debris – concentrations of downed timber or logging debris interspersed within harvest units to provide cover left on site.
- Other actions.

Note: ADFG requested in the BIF a travel corridor for wildlife in Unit 2 that provides visual and overstory cover from the ridge on the north to the Snoose creek area. The partial cut in Unit 2 is designated with this objective. Trees will be marked for removal by DOF prior to harvest.

H. Cultural and Historical Resource Protection:

- This project was reviewed by the Office of History and Archeology (OHA).
- No artifacts have been reported within the project area(s).
- Known or likely sites have been identified and a mitigation plan is in place. (Describe the mitigation actions.)

I. Other Resources Affected by Timber Harvest and Management:

- There are other resources and areas of concern besides surface water, fish habitat, and wildlife habitat that may be affected.

Table 5. Other Affected Resources/ Areas of Concern.

Impacted Resource	Reviewing Agency	Impact/ Mitigation Actions
Visual	DOF	Change in landscape appearance /None

Note:

1. See BIF for discussion on the topic.

[] There are no affected resources or areas of concern other than surface water, fish habitat, and wildlife habitat, which are addressed in this Forest Land Use Plan.

DRAFT

IV. Roads and Crossing Structures:

A. Road Design, Construction, and Maintenance:

Roads will be designed, constructed, and maintained to prevent significant adverse impacts on water quality and fish habitat (AS 41.17.060(b) (5)), and site productivity (AS 41.17.060(c) (5)). Roads will comply with the best management practices in the Forest Resources and Practices Regulations (11 AAC 95.285 – 95.335). Road class is as defined in the DOF Road Standards unless otherwise noted.

Roads or other means required for the access and removal of this timber from the harvest area(s) or unit(s) are listed in Tables 6A and 6B.

Table 6A. Road Reconstruction and Use

Drainage Structure Size (IN)	Map Label	Description of Work or Pt.	Length (FT)
None Required	3000551 (Existing Road)	Reconstruction as needed for access to Unit 6A, 6B	1,831
None Required	3000520	Reconstruction as needed for access to 3000520100	1,150
18 CPP at intersection.	3000520	Construct a new "Y" style junction to the north for the 3000520 Spur and the 3000000 Road. Maintain existing junction facing to the south.	300

Notes:

1. All of Table 6A pertains to existing Roads 3000520 and 3000551. These roads shall be brushed as required to meet DOF road standards, operator visibility and safety needs. Road to be reconstructed and maintained by purchaser prior to hauling operations.
2. The timber purchaser shall provide copies to the DOF of road use authorization agreements prior to operating on existing federally or locally managed roads.

Table 6B. New Road Construction and Use

Name	Segment	Start	End	Stations	Road Class	Unit	Max Grade	Construct By	Maintained By
30063000	10	3000 JCT.	Y	4.3	Spur	5	12	Purchaser	Purchaser
30063000	20	Y	End	7.1	Spur	5	12	Purchaser	Purchaser
30063000	Subtotal			11.4					
30063100	10	Y	End	3.8	Spur	5		Purchaser	Purchaser
30064000	10	P1136	P1101	43.9	Spur	4	12	Purchaser	Purchaser
300520100	10	P1001	P1008	6.9	Secondary	1	12	Purchaser	Purchaser
300520100	15	P1008	P1013	2.3	Secondary	None	12	Purchaser	Purchaser
300520100	20	P1013	P806	7.1	Secondary	3	12	Purchaser	Purchaser
300520100	30	P806	P941	16.4	Secondary	3	12	Purchaser	Purchaser
300520100	40	P941	P914	22.4	Secondary	2	12	Purchaser	Purchaser
300520100	50	P914	P901	12.1	Secondary	2	12	Purchaser	Purchaser
300520100	60	P901	End	16.3	Spur	2	12	Purchaser	Purchaser
300520100	Subtotal			83.5					
300520110	10	P941	P826	3.4	Secondary	2,3	12	Purchaser	Purchaser
300520110	20	P826	P860	26.1	Spur	2	12	Purchaser	Purchaser
300520110	Subtotal			29.5					
300520115	10	P826	End	6.0	Spur	3		Purchaser	Purchaser
300520120	10	P914	End	3.2	Spur	2	12	Purchaser	Purchaser
300520122	10	P901	P1015	15.3	Spur	2	12	Purchaser	Purchaser
300520122	15	P1015	End	2.0	Spur	2	12	Purchaser	Purchaser
300520122	Subtotal			17.3					
Total				199					

**Note: All Roads must be less than 20% grade per 8 AAC 61.1060 Additional Logging Standards. Maximum road grade shall be based on DOF road class unless otherwise specified.*

B. Side Slopes / Mass Wasting:

For slopes over 50%, indicators of unstable areas (landslide scars, jack-strawed trees, gullied or dissected slopes, high density of streams or zero-order basins, or evidence of soil creep) are identified. Location specific road design is intended to mitigate identified areas of unstable soils.

Maximum percent side slopes: 60%

There are no slopes >45%.

There are no indicators of unstable areas where roads will be constructed.

Indicators of unstable areas were identified and will be mitigated by actions indicated below:

Full benching will be constructed to help ensure slope stability.

Full benching is not required for roads in this project.

End hauling will be implemented to help ensure slope stability.

End hauling is not necessary for roads in this project.

Location(s): There are several short segments of slopes over 45% associated with visible bed rock protrusions. These areas are less than 100 FT in length along the centerline of the road. All of the areas with these slopes have slope runouts to benches below them within a horizontal distance of less than 200 FT. Full bench construction will be required of the road running surface in these areas.

General Erosion Control:

grass seeding erosion control mats wattle Other: Water bars

not applicable

C. Crossing Structures:

No crossing structures are needed within the project area.

No existing drainage structures will be replaced.

Crossing structures will be placed along access roads as described in the table below:

Table 7. Required Drainage and Crossing Structures on Known Surface Waters

Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
300520100	15	P1013	60"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520100	20	P806	48"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520100	30	P811	18"	CPP	Surface Water	None	Per Table 8
300520100	30	P813	18"	CPP	Surface Water	None	Per Table 8
300520100	30	P816	24"	CPP	Surface Water	None	Per Table 8
300520100	30	P817	24"	CPP	Surface Water	None	Per Table 8
300520100	30	P819	24"	CPP	Surface Water	None	Per Table 8
300520100	40	P935	24"	CPP	Surface Water	None	Per Table 8

Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
300520100	40	P931	18"	CPP	Surface Water	None	Per Table 8
300520100	40	P929	24"	CPP	Surface Water	None	Per Table 8
300520100	40	P923	24"	CPP	Surface Water	None	Per Table 8
300520100	50	P913	24"	CPP	Surface Water	None	Per Table 8
300520100	50	P910	24"	CPP	Surface Water	None	Per Table 8
300520100	50	P907	24"	CPP	Surface Water	None	Per Table 8
300520100	50	P906	24"	CPP	Surface Water	None	Per Table 8
300520100	50	P904	24"	CPP	Surface Water	None	Per Table 8
300520122	10	P1015	24"	CPP	Surface Water	None	Per Table 8
300520100	60	P1007	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520100	60	P1006	36"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520100	60	P1004	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520100	60	P1002	24"	CPP	Tributary to anadromous >12%	None	Per Table 8
300520110	10	P824	18"	CPP	Surface Water	None	Per Table 8
300520110	10	P825	18"	CPP	Surface Water	None	Per Table 8
300520115	10	P829	18"	CPP	Surface Water	None	Per Table 8
300520115	10	P830	18"	CPP	Surface Water	None	Per Table 8
300520115	10	P832	18"	CPP	Surface Water	None	Per Table 8
300520110	20	P835	18"	CPP	Surface Water	None	Per Table 8
300520110	20	P845	24"	CPP	Surface Water	None	Per Table 8
300520110	20	P849	18"	CPP	Surface Water	None	Per Table 8
300520110	20	P850	24"	CPP	Surface Water	None	Per Table 8
300520110	20	P851	18"	CPP	Surface Water	None	Per Table 8
300520110	20	P856	18"	CPP	Surface Water	None	Per Table 8
30063000	20	P5009	16"	LC	Tributary to anadromous >12%	None	Per Table 8
30063100	10	P5006	24"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1131	24"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1129	18"	CPP	Tributary to anadromous >12%	None	Per Table 8

Road	Segment	Point Label	Bridge FT. or Culvert Diameter IN.	Structure Type:	AS 41.17.950 Stream Classification	Fish & Game AWC Number	Duration of crossing structure in place
30064000	10	P1128	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1127	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1124	24"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1122	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1121	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1120	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1117	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1115	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1114	36"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1111	24"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1109	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1108	18"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1104	36"	CPP	Tributary to anadromous >12%	None	Per Table 8
30064000	10	P1103	24"	CPP	Tributary to anadromous >12%	None	Per Table 8

CPP= High Density Double Wall Polyethylene Corrugated Plastic Pipe or Equivalent.
LC= Log Culvert

D. Road Closure:

Roads constructed for the timber sale that are left open will be subject to maintenance standards under 11 AAC 95. 315. Otherwise, roads constructed for the timber sale will be closed, subject to standards under 11 AAC 95.320.

Table 8. Road Closures

Road ID	Segment	Unit	Closure Type All /Winter	Estimated Closure Date	Projected Road Use After Timber Harvest
300520100	10	1	All Season	TBD	Silviculture
300520100	15	Non-Merchantable	All Season	TBD	Silviculture
300520100	20	3	All Season	TBD	Silviculture
300520100	30	3	All Season	TBD	Silviculture
300520100	40	2,3	All Season	TBD	Silviculture
300520100	50	2	All Season	TBD	Silviculture
300520100	60	2	All Season	Close of Timber Sale	Silviculture
300520110	10	2	All Season	TBD	Silviculture
300520110	20	2	All Season	TBD	Silviculture
300520115	10	2,3	All Season	Close of Timber Sale	Silviculture
300520120	10	2	All Season	Close of Timber Sale	Silviculture
300520122	10	2	All Season	TBD	Silviculture
300520122	15	2	All Season	Close of Timber Sale	Silviculture
30063000	10	5	All Season	TBD	Silviculture
30063000	20	5	All Season	Close of Timber Sale	Silviculture
30063100	10	5	All Season	Close of Timber Sale	Silviculture
30064000	21	4	All Season	TBD	Silviculture

TBD: "To be determined" based on funding and authorization of the land manager. The DOF by default instructs the timber purchaser to close all timber sale roads upon completion of harvest. The DOF will relieve the purchaser of this responsibility on a site-specific basis if agency funding is in place to maintain the road or a road management

agreement is in place with a recognized entity that meets the approval of the DNR.

E. Material Extraction:

- [] There will be no material extraction sites in the project area.
- [] Material extraction and associated overburden disposal will be located outside of riparian areas and muskegs. Material extraction and disposal will be located as shown on the operation map, in a manner that prevents runoff from entering surface waters.
- [X] Other: Material extraction and associated overburden disposal will be located outside of riparian areas and muskegs. Material extraction and disposal locations will be selected by the purchaser and approval will be required by the Division of Forestry. Material sites will generally be on or adjacent to the identified roads.

Note: An existing material site on the east side of the 30000 Road approximately 1,200 FT north of the proposed 300640000 Road the 300000 Road junction may be used. Existing unauthorized abandoned cars and appliances may obstruct the usability of the area. The DMLW has been consulted on the conditions.

F. Other Resources Affected by-Roads or Material Extraction:

List resources other than water, habitat or cultural resources potentially impacted by road construction, and indicate how impacts will be mitigated. Other affected resources could be, but are not limited to mining claims, scenic areas, recreational trails, etc.

Table 9. Other Affected Resources

Impacted Resource	Reviewing Agency	Impact/ Mitigation Actions
Visual	DOF/ DMLW	Change in landscape appearance /None
Noise	DOF	Operating Noise/ Timber Sale Contract
Public Safety	DOF	Traffic/ Timber Sale Contract (see note)
Air Quality	DOF/DEC	Dust/ Water roads

Notes:

1. Noise. Several commenters to the BIF noted that the engine noise associated with large log trucks and equipment would add objectionable noise to the neighborhood. The DOF will work with the purchaser to the extent that it is feasible to safely brake trucks coming off the timber sale using methods that will lower the noise associated with the engine brakes. Some of this added noise may also be mitigated by managing the hours of operation.
2. Public Safety. Signs will be placed to advise public traffic in the area. The purchaser will also have a community outreach and communication plan regarding the timber sale traffic.
3. The added truck traffic has the potential to increase dust in the subdivision area if conditions are dry; watering of the road surface to keep dust down in these conditions will be part of the timber sale operating plan.

V. Approvals:

This Draft Forest Land Use Plan has been reviewed by the Division of Forestry & Fire Protection and provides the information necessary for public and by agency review of the project described in this document.

Gregory D. Staunton
Area Forester

Date

If you have any questions, please contact the Southeast Area Office at (907) 225-3070 or e-mail greg.staunton@alaska.gov.

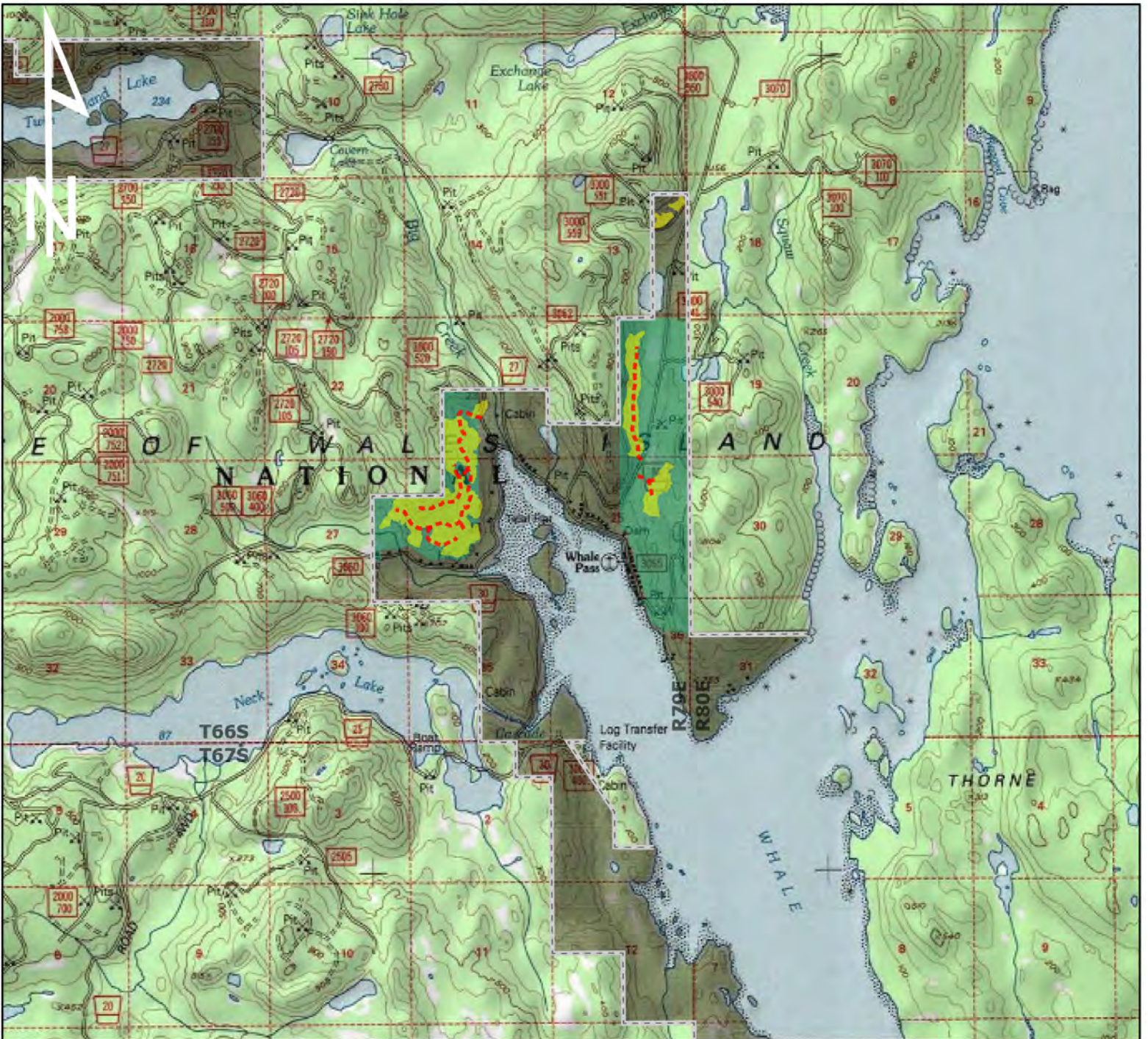
DRAFT

Appendix A: Whale Pass Timber Sale Maps

Appendix A1 Whale Pass Area Map (1 page)

Appendix A2 Whale Pass Unit Maps (6 pages)

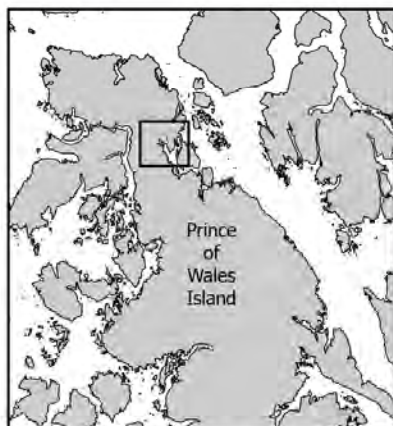
DRAFT



0 1 2 Miles






Esri, NASA, NGA, USGS, FEMA, Copyright: © 2013 National Geographic Society, I-cubed, City and Borough of Wrangell, State of Alaska, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCAN, Parks Canada

Area Map 1 in = 1 Mile



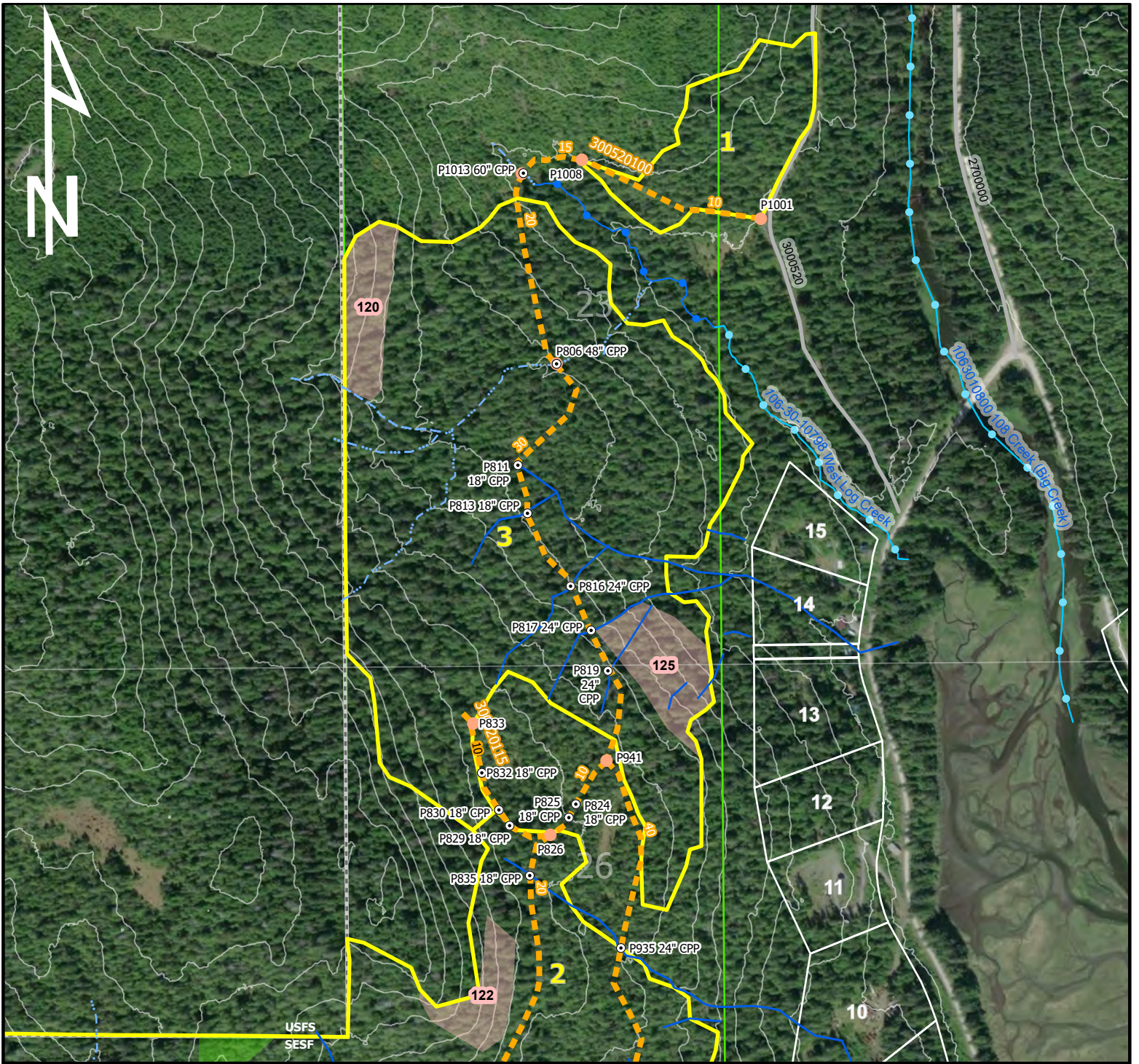
Vicinity Map 1 in = 32 miles

LEGEND

-  Major Property Line
-  Proposed Road
-  Proposed Harvest Unit
-  Southeast State Forest
-  Other State/Private Land

**APPENDIX A1
SSE-1378 K
WHALE PASS TIMBER SALE
AREA MAP**





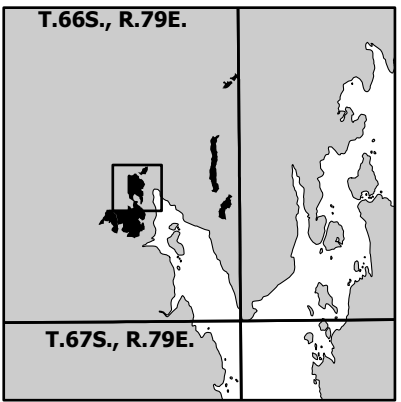
0 250 500 1,000 1,500 Feet

T66S, R79E, Section(s) 23, 26
Copper River Meridian

Contour Interval = 40 FT
Source: USFS LiDAR 2018

Sale Map 1 in = 500 FT

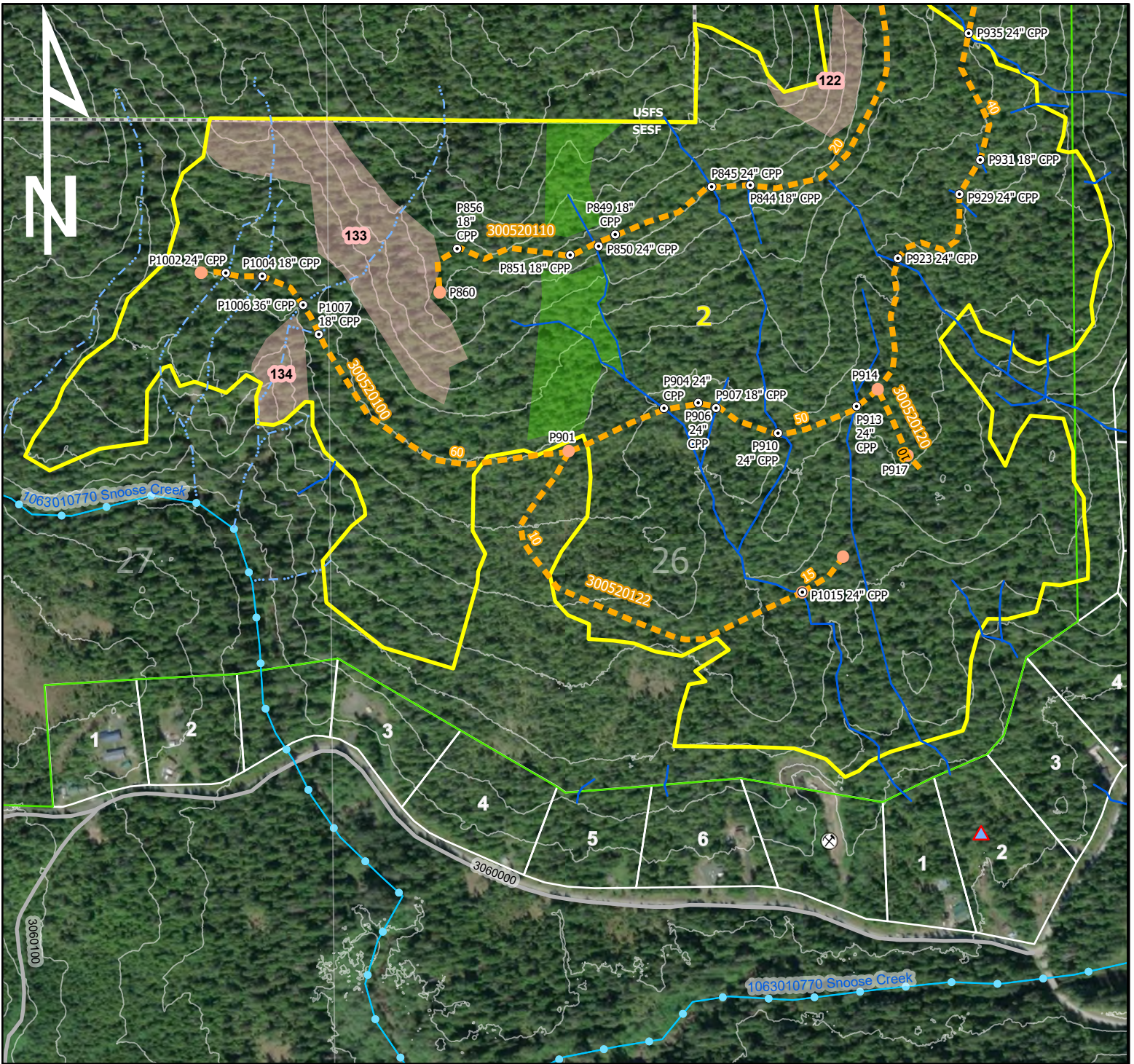
APPENDIX A2
SSE-1378 K
WHALE PASS TIMBER SALE
MAP 1 UNITS 1, 2, 3



Esri, NASA, NGA, USGS, FEMA, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend	
	Proposed Harvest Unit
	Proposed Cable Harvest
	Southeast State Forest
	Subdivision
	Proposed Road
	Existing Roads
	Major Property Line
	Proposed Drainage Structure
	Cataloged Anadromous
	Non-Cataloged Anadromous
	Tributary to Anadromous <12%
	Tributary to Anadromous >12%
	General Water Quality





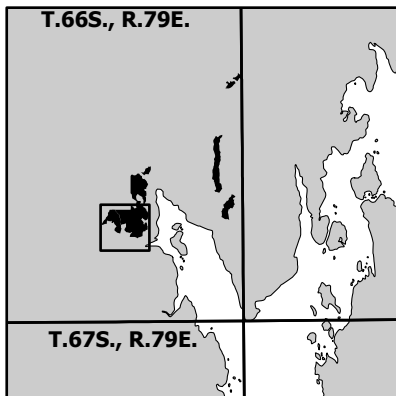
0 250 500 1,000 1,500 Feet

T66S, R79E, Section(s) 26, 27
Copper River Meridian

Contour Interval = 40 FT
Source: USFS LiDAR 2018

Sale Map 1 in = 500 FT

APPENDIX A2
SSE-1378 K
WHALE PASS TIMBER SALE
MAP 2 UNIT 2

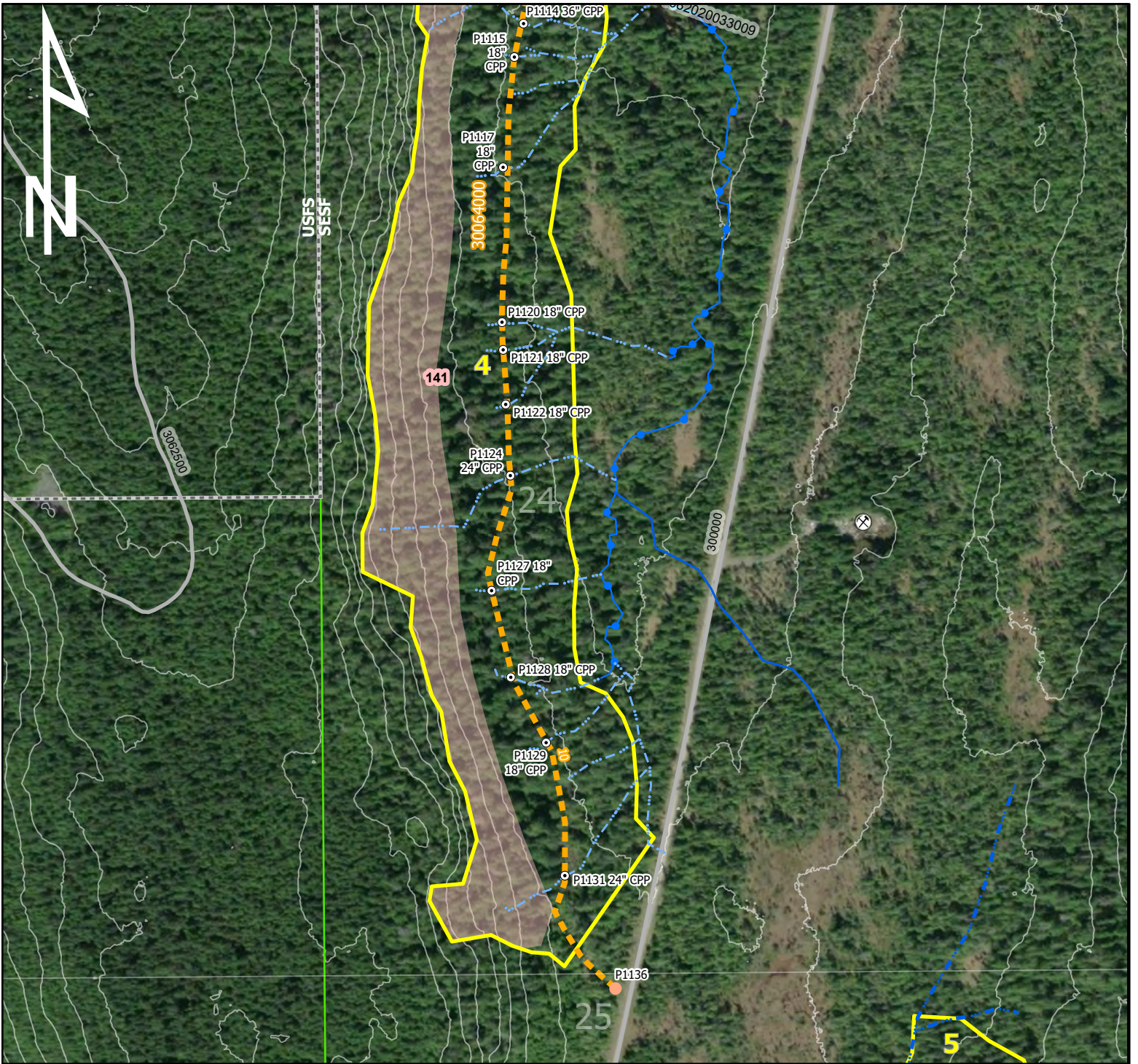


Vicinity Map 1 in = 3 miles

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatasystemen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri, Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend	
	Proposed Harvest Unit
	Proposed Cable Harvest
	Southeast State Forest
	Subdivision
	Proposed Partial Harvest
	Existing Roads
	Proposed Road
	Major Property Line
	Rock Pit
	Proposed Drainage Structure
	Water Rights
	Cataloged Anadromous
	Tributary to Anadromous <12%
	Tributary to Anadromous >12%
	General Water Quality



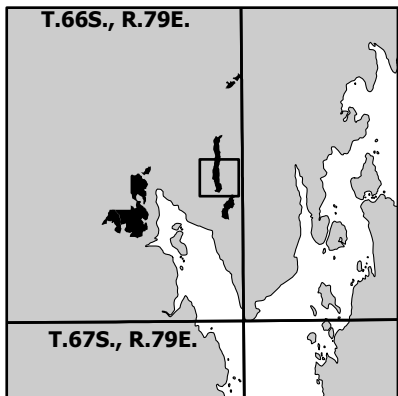


0 400 800 1,200 Feet
 Sale Map 1 in = 400 FT

T66S, R79E, Section(s) 24, 25
 Copper River Meridian

Contour Interval = 40 FT
 Source: USFS LiDAR 2018

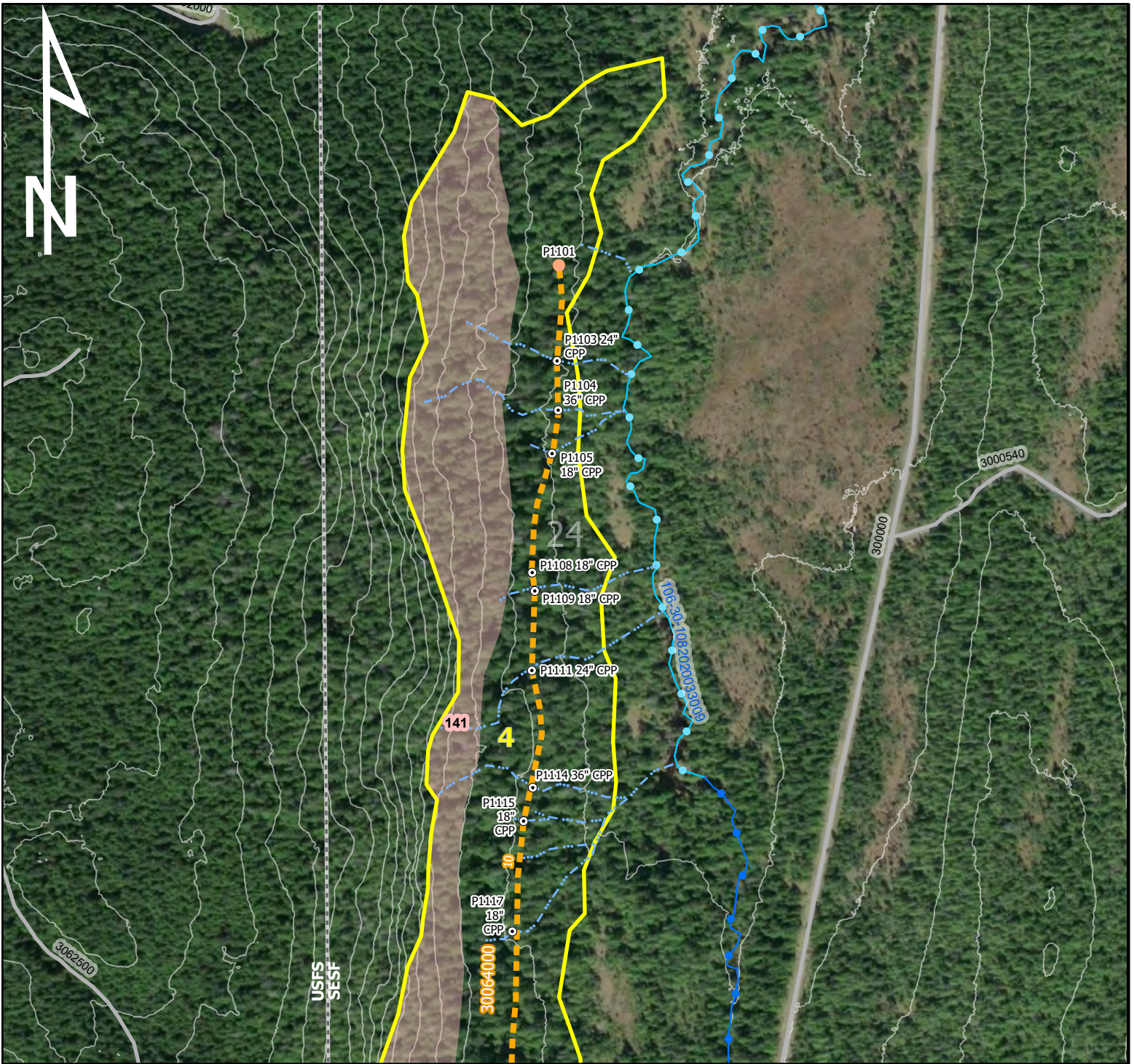
APPENDIX A2
SSE-1378 K
WHALE PASS TIMBER SALE
MAP 3 UNIT 4 SOUTH



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatasyrielsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri, Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend					
	Proposed Harvest Unit		Major Property Line		Non-Cataloged Anadromous
	Proposed Cable Harvest		Rock Pit		Tributary to Anadromous <12%
	Southeast State Forest		Proposed Drainage Structure		Tributary to Anadromous >12%
	Proposed Road		General Water Quality		
	Existing Roads				





0 400 800 1,200 Feet

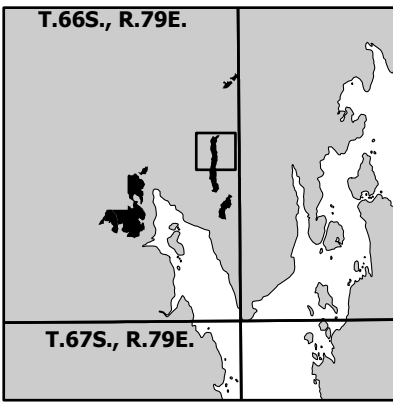
T66S, R79E, Section(s) 24
Copper River Meridian

Contour Interval = 40 FT
Source: USFS LiDAR 2018

Sale Map 1 in = 400 FT

**APPENDIX A2
SSE-1378 K**

**WHALE PASS TIMBER SALE
MAP 3 UNIT 4 NORTH**



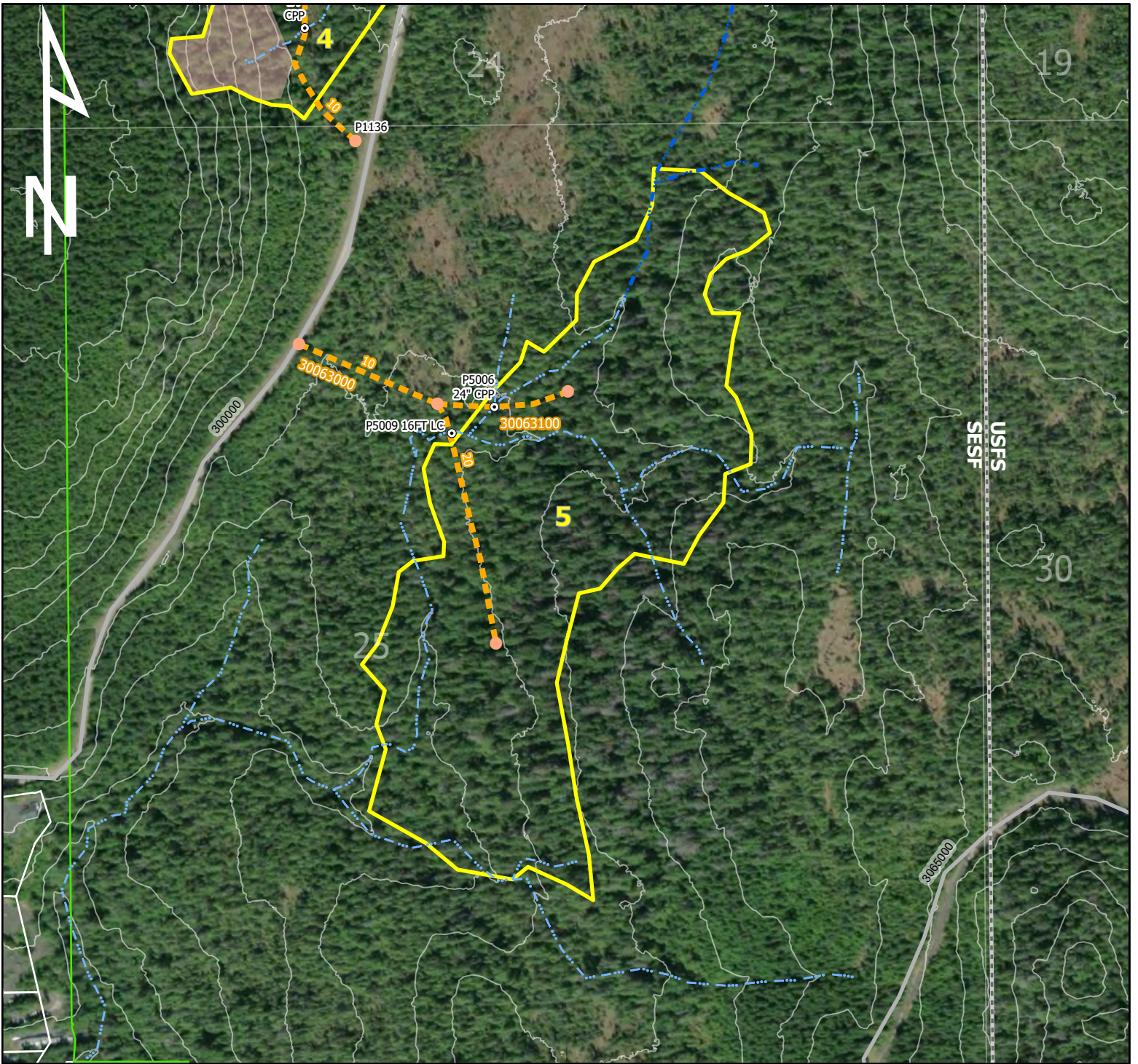
Vicinity Map 1 in = 3 miles

Esri, NASA, NGA, USGS, FEMA, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Proposed Harvest Unit	Major Property Line	Cataloged Anadromous
Proposed Cable Harvest	Proposed Drainage Structure	Non-Cataloged Anadromous
Southeast State Forest	Tributary to Anadromous <12%	Tributary to Anadromous >12%
Proposed Road		
Existing Roads		





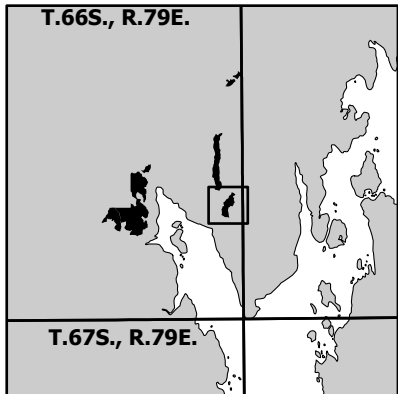
0 400 800 1,200 Feet

T66S, R79E, Section(s) 25
Copper River Meridian

Contour Interval = 40 FT
Source: USFS LiDAR 2018

Sale Map 1 in = 400 FT

APPENDIX A2
SSE-1378 K
WHALE PASS TIMBER SALE
MAP 5 UNIT 5



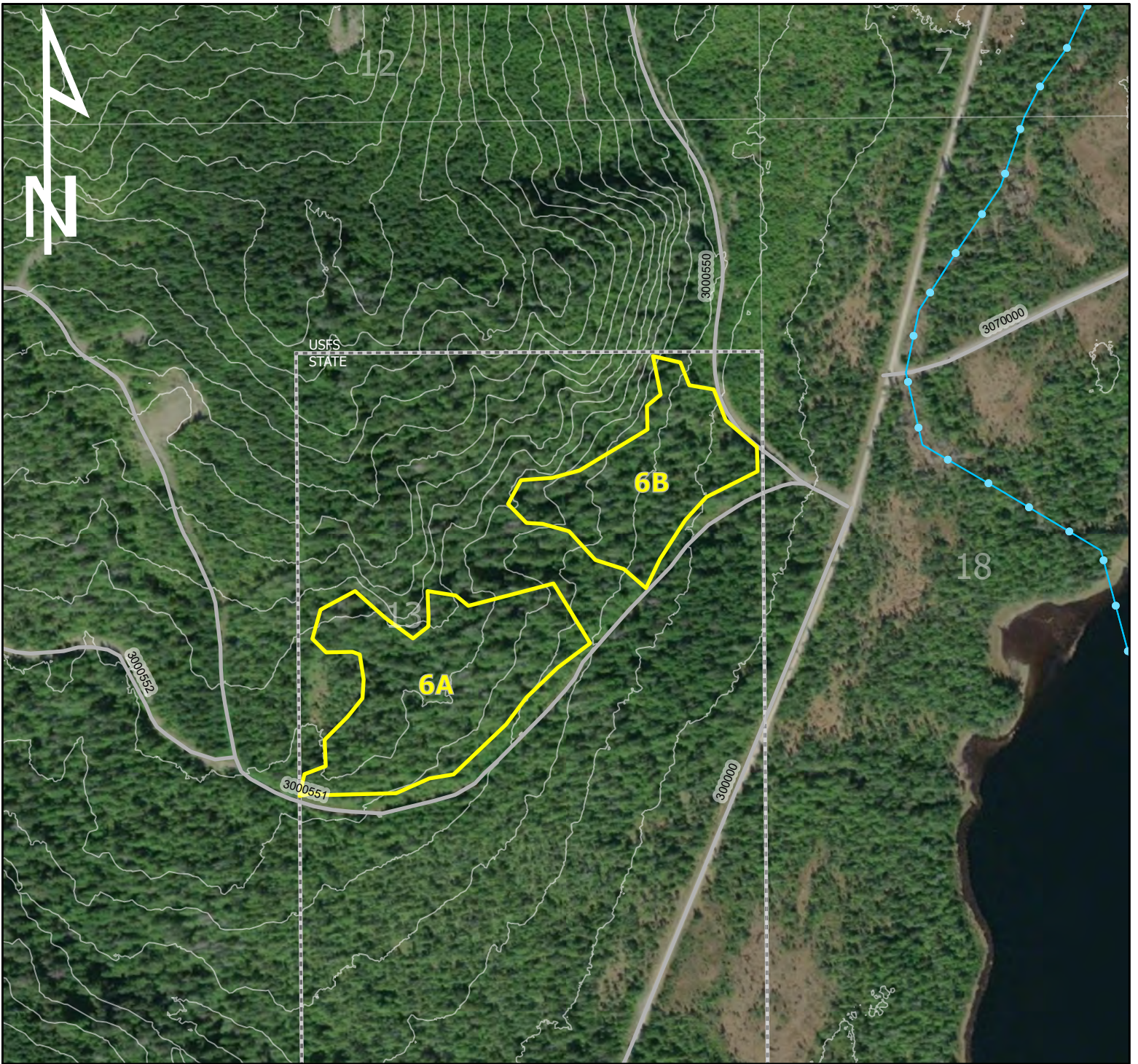
Vicinity Map 1 in = 3 miles

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatasysteisen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Proposed Harvest Unit
- Southeast State Forest
- Subdivision
- Proposed Road
- Existing Roads
- Major Property Line
- Proposed Drainage Structure
- Tributary to Anadromous <12%
- Tributary to Anadromous >12%

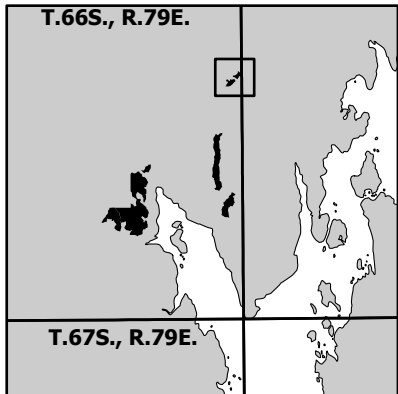




Sale Map 1 in = 400 FT

T66S, R79E, Section(s) 13
Copper River Meridian

Contour Interval = 40 FT
Source: USFS LiDAR 2018



Vicinity Map 1 in = 3 miles

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodastyrrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, City and Borough of Wrangell, State of Alaska, © OpenStreetMap, Microsoft, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Proposed Harvest Unit
- Southeast State Forest
- Existing Roads
- Major Property Line
- Cataloged Anadromous

**APPENDIX A2
SSE-1378 K
WHALE PASS TIMBER SALE
MAP 6 UNIT 6**



Appendix B: Supporting Information

Note: Silvicultural and stand information has also been described in the previously published BIF.

Alaska Forest Practices and Regulations.

<http://forestry.alaska.gov/forestpractices>

Forest Road Standards.

http://forestry.alaska.gov/Assets/pdfs/resources/forest_road_standard_design_20151231.pdf

DRAFT

Appendix C: Appeal Statutes and Regulations

(Reserved)

DRAFT

Appendix D: DRAFT FLUP Public Comment

(Reserved)

DRAFT