



STAR-ORION SOUTH DIAMOND PROJECT
ENVIRONMENTAL IMPACT STATEMENT

APPENDIX 5.3.4-A

Descriptions of ELC Classes by Dominant Species Presence

Table 1: Descriptions of ELC Classes by Dominant Species Presence

ELC	Life Form	Species Name	Common Name	Percent Frequency	Percent Covert
1a	Tree	<i>Pinus banksiana</i>	Jack Pine	67	41
	Shrub	<i>Pinus banksiana</i>	Jack Pine	89	16
	Shrub	<i>Arctostaphylos uva-ursi</i>	Bearberry	84	9
	Lichen	<i>Cladina mitis</i>	Green reindeer lichen	84	14
1b	Shrub	<i>Arctostaphylos uva-ursi</i>	Bearberry	67	12
	Graminoid	<i>Carex sp.</i>	Sedge	44	8
	Graminoid	<i>Carex aenea</i>	Silvery-flowered Sedge	67	7
	Graminoid	<i>Schizachne purpurascens</i>	Purple Oat Grass	33	5
2a	Tree	<i>Pinus banksiana</i>	Jack Pine	50	34
	Shrub	<i>Alnus viridis ssp. crispa</i>	Green Alder	60	15
	Shrub	<i>Pinus banksiana</i>	Jack Pine	80	14
	Shrub	<i>Vaccinium myrtilloides</i>	Velvet-leaf Blueberry	77	6
	Graminoid	<i>Poa sp.</i>	Bluegrass	50	11
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	53	12
2b	Tree	<i>Populus tremuloides</i>	Trembling Aspen	39	27
	Tree	<i>Pinus banksiana</i>	Jack Pine	44	25
	Shrub	<i>Pinus banksiana</i>	Jack Pine	72	21
	Shrub	<i>Alnus viridis ssp. crispa</i>	Green Alder	83	17
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	78	17
	Shrub	<i>Arctostaphylos uva-ursi</i>	Bearberry	61	11
	Shrub	<i>Vaccinium myrtilloides</i>	Velvet-leaf Blueberry	89	8
	Shrub	<i>Rosa acicularis</i>	Prickly Rose	100	5
	Graminoid	<i>Poa sp.</i>	Bluegrass	61	12
	Graminoid	<i>Carex sp.</i>	Sedge	44	5
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	50	10
2c	Tree	<i>Populus tremuloides</i>	Trembling Aspen	75	65
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	63	27
	Shrub	<i>Alnus viridis ssp. crispa</i>	Green Alder	50	21
	Shrub	<i>Vaccinium myrtilloides</i>	Velvet-leaf Blueberry	50	5
	Forb	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	38	13
2d	Tree	<i>Populus tremuloides</i>	Trembling Aspen	60	23
	Tree	<i>Picea glauca</i>	White Spruce	40	9
	Tree	<i>Picea mariana</i>	Black Spruce	40	6
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	100	15
	Shrub	<i>Picea mariana</i>	Black Spruce	60	15
	Shrub	<i>Picea glauca</i>	White Spruce	60	5
	Shrub	<i>Linnaea borealis</i>	Twinflower	100	5
2e	Tree	<i>Picea glauca</i>	White Spruce	43	18
	Shrub	<i>Picea glauca</i>	White Spruce	71	21
	Shrub	<i>Pinus banksiana</i>	Jack Pine	57	15
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	43	5
	Shrub	<i>Alnus viridis ssp. crispa</i>	Green Alder	43	5
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	71	19
	Moss	<i>Hylocomium splendens</i>	Stair-step Moss	57	6
3a	Tree	<i>Populus tremuloides</i>	Trembling Aspen	96	52
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	67	35
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	92	26
3b	Tree	<i>Populus tremuloides</i>	Trembling Aspen	55	29
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	91	11
	Shrub	<i>Picea glauca</i>	White Spruce	55	10
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	82	9
	Shrub	<i>Pinus banksiana</i>	Jack Pine	36	5
	Forb	<i>Cornus canadensis</i>	Bunchberry	82	10
	Forb	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	45	6

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ELC	Life Form	Species Name	Common Name	Percent Frequency	Percent Covert
3c	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	64	6
	Tree	<i>Picea glauca</i>	White Spruce	80	43
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	80	34
	Shrub	<i>Betula papyrifera</i>	White Birch	40	8
4a	Shrub	<i>Picea glauca</i>	White Spruce	60	5
	Tree	<i>Populus tremuloides</i>	Trembling Aspen	50	45
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	75	23
	Shrub	<i>Cornus sericea</i>	Red-osier Dogwood	44	9
	Shrub	<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder	63	9
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	38	8
	Shrub	<i>Salix</i> sp.	Willow	75	6
	Shrub	<i>Rubus pubescens</i>	Dwarf Red Raspberry	88	5
4b	Tree	<i>Populus balsamifera</i>	Balsam Poplar	50	28
	Tree	<i>Populus tremuloides</i>	Trembling Aspen	50	27
	Shrub	<i>Populus balsamifera</i>	Balsam Poplar	100	27
	Shrub	<i>Salix</i> sp.	Willow	60	9
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	60	6
	Forb	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	50	14
4c	Tree	<i>Picea glauca</i>	White Spruce	43	18
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	100	21
	Shrub	<i>Picea glauca</i>	White Spruce	86	20
	Shrub	<i>Populus balsamifera</i>	Balsam Poplar	57	15
	Shrub	<i>Corylus cornuta</i>	Beaked Hazelnut	43	6
	Shrub	<i>Cornus sericea</i>	Red-osier Dogwood	71	5
	Horsetail/Fe rn	<i>Equisetum arvense</i>	Common Horsetail	100	10
4e	Shrub	<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder	44	11
	Shrub	<i>Symphoricarpos albus</i>	Snowberry	38	7
	Shrub	<i>Populus balsamifera</i>	Balsam Poplar	50	5
5a	Shrub	<i>Picea mariana</i>	Black Spruce	78	33
	Shrub	<i>Salix</i> sp.	Willow	44	20
	Shrub	<i>Vaccinium myrtilloides</i>	Velvet-leaf Blueberry	56	18
	Shrub	<i>Ribes oxycanthoides</i>	Bristly Gooseberry	33	6
	Shrub	<i>Pinus banksiana</i>	Jack Pine	56	5
	Graminoid	<i>Carex</i> sp.	Sedge	33	8
	Forb	<i>Mertensia paniculata</i>	Tall Lungwort	33	6
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	44	28
5b	Tree	<i>Picea mariana</i>	Black Spruce	60	17
	Tree	<i>Picea glauca</i>	White Spruce	60	13
	Tree	<i>Populus tremuloides</i>	Trembling Aspen	40	11
	Tree	<i>Populus balsamifera</i>	Balsam Poplar	40	5
	Shrub	<i>Linnaea borealis</i>	Twinflower	80	16
	Shrub	<i>Populus tremuloides</i>	Trembling Aspen	80	11
	Shrub	<i>Picea glauca</i>	White Spruce	80	10
	Shrub	<i>Ledum groenlandicum</i>	Common Labrador Tea	60	8
	Shrub	<i>Rubus pubescens</i>	Dwarf Red Raspberry	80	7
	Graminoid	<i>Carex</i> sp.	Sedge	80	10
	Forb	<i>Cornus canadensis</i>	Bunchberry	80	6
	Moss	<i>Hylocomium splendens</i>	Stair-step Moss	60	14
5c	Tree	<i>Picea mariana</i>	Black Spruce	52	37
	Tree	<i>Larix laricina</i>	Tamarack	33	13
	Shrub	<i>Picea mariana</i>	Black Spruce	76	22
	Shrub	<i>Picea glauca</i>	White Spruce	33	15

Table 1: Descriptions of ELC Classes by Dominant Species Presence

ELC	Life Form	Species Name	Common Name	Percent Frequency	Percent Covert
	Shrub	<i>Ledum groenlandicum</i>	Common Labrador Tea	52	7
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	86	23
	Moss	<i>Hylocomium splendens</i>	Stair-step Moss	71	14
6a	Tree	<i>Picea mariana</i>	Black Spruce	36	23
	Tree	<i>Larix laricina</i>	Tamarack	45	17
	Shrub	<i>Picea mariana</i>	Black Spruce	91	32
	Shrub	<i>Ledum groenlandicum</i>	Common Labrador Tea	82	11
	Horsetail/Fern	<i>Equisetum fluviatile</i>	Swamp Horsetail	64	14
	Graminoid	<i>Carex sp.</i>	Sedge	73	21
	Moss	<i>Pleurozium schreberi</i>	Red Stem Moss	64	17
8b	Tree	<i>Betula papyrifera</i>	Paper Birch	33	56
	Shrub	<i>Betula papyrifera</i>	Paper Birch	33	39
	Shrub	<i>Alnus incana ssp. rugosa</i>	Speckled Alder	78	11
	Shrub	<i>Picea mariana</i>	Black Spruce	33	6
	Graminoid	<i>Carex sp.</i>	Sedge	33	6
	Graminoid	<i>Carex disperma</i>	Two-seeded Sedge	33	5
	Forb	<i>Chamerion angustifolium</i>	Fireweed	56	6
8c	Shrub	<i>Salix sp.</i>	Willow	67	28
	Shrub	<i>Betula nana</i>	Bog Birch	33	9
	Graminoid	<i>Poa sp.</i>	Bluegrass	33	12
8d	Graminoid	<i>Calamagrostis canadensis</i>	Blue-joint Reedgrass	80	42
	Graminoid	<i>Poa sp.</i>	Bluegrass	60	5
	Graminoid	<i>Carex sp.</i>	Sedge	60	5