## **Appendix B** Water-source Suitability Form

W	ate	er	-source	Suita	bility	Form	

Indicator	NA	High	Moderate	Low
Location of facility		Minimal intrusion to	Part of facility in	Facility located in
		riparian area	riparian area	riparian area (100%)
Landscape position		Uplands-Forested	Floodplain	Vulnerable or unstable
		areas		location - Located on
				outside bend of stream
Stream channel type		Well-Armored Step	Stream types	Fine-textured soils,
		pool type A1, A2	C or E stable	unstable reach types D-F
		(transport reach) low	but can adjust	or G; poorly vegetated;
		sediment yield	laterally over	evidence of streambank
			time	erosion
Streambank condition		Minimal impacts to	Some	Thru cut access road to
(includes trampling,		streambank – does	streambank	stream edge, stream bed
road cuts, or other		not impact floodplain	impacts	altered to create pond
mechanical impacts to		processes	with limited	– May impact floodplain
the streambank) and			excavation	process, restrict access
floodplain intrusion				
Delivery potential to		No potential for	Potential for	Potential for sediment to
stream		sediment or spill	sediment to	mobilize and enter stream
(erosion potential and		movement into	mobilize but	channel.
connectivity to stream)		stream	effective filter	
			strip	
Position of drafting site		Minimal intrusion	Margin of	Constructed in streambed
(within the streambed,		to streambed or	floodplain	or other sensitive location
floodplain)		floodplain (hydrant)		(in-channel pond)
Streambed Alteration		No identifiable	Some streambed	Streambed altered
(includes modification		modification to	modification	to create pool, may
of the channel bottom to		streambed		include creating a dam
create a pool for drafting				structure or mechanical
or recreational use)				modification of channel
				bottom Limited stream flows to
Water flow capacity		Adequate flows to	Partially limiting	
		maintain stream	flows for aquatic	meet Forest LRMP goals
		health, aquatic,	or habitat needs	and objectives.
		and habitat needs		
		throughout drafting		
		season		
Height of vertical lift		Less than 10 foot	10-17 foot	Greater than 17 feet
from water surface to		vertical lift	vertical lift	vertical lift
vehicle loading area				
Heightft				
	1		Dequines come	Requires routine
Water source longevity		Requires minimal		
		Requires minimal	Requires some	1
		maintenance between	maintenance for	maintenance prior to
Water-source longevity and maintenance needs		maintenance between use and poses no		maintenance prior to use and may require
		maintenance between	maintenance for	maintenance prior to use and may require maintenance/repair after
and maintenance needs		maintenance between use and poses no	maintenance for	maintenance prior to use and may require
		maintenance between use and poses no	maintenance for	maintenance prior to use and may require maintenance/repair after

Add up the circled indicators in each column (High, Moderate and Low) to rate each site.

NA = Not applicable at site

High = Site is HIGHLY suitable for a water source.

Moderate= Site has some constraints, which requires mitigation and project design modification.

Low = Site has severe constraints, which may dictate an alternate location or drafting method.

Indicator	N/A	High	Moderate	Low
Watershed and stream reach condition		Watershed Condition Class I. The drainage network is generally stable.	Watershed Condition Class II. Portions of the watershed may exhibit an unstable drainage network	Watershed Condition Class III. A majority of the drainage network may be unstable.
Presence of TES species		TES Species absent; outside range of TES species distribution	Potential for TES species presence; presence not confirmed	Presence of TES aquatic or riparian species, and unique or endemic (non-TES) species and/ or habitat
Aquatic Nuisance Species		No nuisance species on or near forest	Nuisance species present on forest, but not within 5 <sup>th</sup> field watershed	Nuisance species present at site or within 5 <sup>th</sup> field watershed
Proximity to other water sources		> 10 miles	5 -10 miles	< 5 miles
Summary/Comments				

Atmospheric pressure = 14.7 psi. A pressure of 14.7 psi is capable of lifting water 2.3 ft for every lb of pressure 2.3 ft/1 lb psi up to 33.9 feet (2.3 ft X 14.7 = 33.9)

Diagram stream, pond, access road, and other uses including recreational activities below: Appendix C further defines the 14 indicators used to complete the Water-source Suitability Form in appendix B.