

**Exhibit TJFA 432**

**TABLE 2 – Comparison of Published Shear Strengths Values versus Shear Strength Values Used in Liner System Stability Analyses in the ACL Amendment Application**

Material/Interface  Note: (F) refers to floor liner system and (S) refers to sidewall liner system	Typical Range of Shear Strengths <i>Abramson, et al 2002</i>		Published Correlations <i>Abramson, et al 2002</i> <i>Duncan &amp; Wright 2005</i>		ACL Amendment Application Attachment 3 Stability Analyses Input Values	
	Ø (degrees)	C (psf)	Ø (degrees)	C (psf)	Ø (degrees)	C (psf)
protective cover (clay)	NA	NA	see clay liner	see clay liner	28	0
clay cover soil/ geocomposite interface (F) (S)	16-26 woven 15-28 nonwoven*	0	NA	NA	28-30	0
geotextile /geonet interface (F)	9-18	0	NA	NA	9	0
geocomposite / textured geomembrane interface (S)	9-17 woven 15-33 nonwoven*	0	NA	NA	21-28	
geonet / smooth geomembrane interface (F)	5-19	0	NA	NA	8	0
textured geomembrane / clay liner interface (S)	9-15 (recommended)	0	NA	NA	21.5-33	
Smooth geomembrane / clay liner interface (F)	5-10 (recommended)	0	NA	NA	13	100
clay liner, peak strength, Plastic Index = 50** (F) (S)	NA	NA	25	0	30	0
clay liner, fully-softened peak, Liquid Limit = 75** (S)	NA	NA	27-22***	0	NA	NA
clay liner, residual strength, Liquid Limit = 75** (S)	NA	NA	13-9****	0	NA	NA
clay liner, residual strength, Plastic Index = 50** (s)	NA	NA	10	0	NA	NA

\* *needle-punched geotextile*  
 \*\* *based on Laboratory Test Summary (pages 1786-1790)*  
 \*\*\* *high end of range at low normal stress of 1.04 tsf (100kPa) and low end of range at high normal stress of 4.18 tsf (400 kPa), i.e., non-linear*  
 \*\*\*\* *high end of range at low normal stress of 1.04 tsf (100kPa) and low end of range at high normal stress of 7.31 tsf (700 kPa), i.e., non-linear.*