

Matrix of Pipe Monitoring Applications; Gravity Flow, Vacuum (V), Pressure (P), and Interstitial Liquid Level Monitoring (ILLM)
 (Enclosure to State Water Board letter dated August 25, 2006; **Matrix Updated and Archived February 28, 2008**)

Manufacturer		UL 971 listed pipe date stamped as being manufactured on or after July 1, 2005		
Brand	Secondary Containment Type and Size (Coaxial reported as ID of PS; SOS reported as OD of SC)	Fuels	Open (min. 5 psi rating on SC per UL)	Closed (min. 50 psi rating on SC per UL)
			Gravity Flow or Ambient ILLM	Vacuum, Pressure, or Pressurized ILLM
Ameron Dualoy 3000/L	Rigid; SOS; 3" Rigid; SOS; 4" & 6"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow	V, P None
Dualoy 3000/LCX	Rigid; Coaxial (sticks); 2" Rigid; Coaxial (sticks); 3" & 4"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow, AILLM ¹ Gravity Flow, AILLM ¹	V, P, PILLM ¹ None
Environ GeoFlex Plus "D" ⁵ GeoFlex Plus "C" ^{3, 5}	Flexible; Coaxial (coil); ¾", 1", 1½", 2", & 3" Flexible; Coaxial (coil); 1½"	MV,AM MV,AM	Gravity Flow Gravity Flow	None V, P
Franklin Fueling/APT XP-150-SC XP-100, 175, 200	Flexible; Coaxial (coil); 1½" Flexible; Coaxial (coil); 1", 1¾", & 2"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow	V None
IPP Petroplas SF₂P	Flexible; Coaxial (coil); 2" Flexible; Coaxial (coil); 3" Flexible; Coaxial (sticks); 2" & 3"	MV,CT,HB,AM MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow Gravity Flow	None V, P None
NUPI Smartflex	Flexible; Coaxial (coil); 2", 2½", & 5" Flexible; Coaxial (sticks); 2", 4" & 5"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow	V, P V, P
OPW-FCS PGF PGFC	Flexible; Coaxial (coil); ¾", 1", 1½", 2", & 3" Flexible; Coaxial (coil); 1½"	MV,AM MV,AM	Gravity Flow Gravity Flow	None V, P
OPW-Pisces II C15, C20	Flexible; Coaxial (coil); 1½", 2"	MV,AM	Gravity Flow	None
PetroTechnik UPP	Flexible; Coaxial (coil); 1½", 2" Flexible; Coaxial (sticks); 1½", 2", 3", 4"	MV,CT,HB,AM MV,CT,HB,AM	Gravity Flow Gravity Flow	V, P V, P
Smith Fibercast Red Thread IIA	Rigid; SOS; 3" & 4"	MV,CT,HB,AM	Gravity Flow	V, P
Western Fiberglass Co-Flex Co-Flex ⁴	Flexible; Coaxial (coil); ¾", 1", 1½", 2", & 3" Flexible; Coaxial (coil); 1½"	MV,AM MV,AM	Gravity Flow, AILLM ² Gravity Flow	None V, P, PILLM ²

1. Use only with Ameron's Brine Filled Interstitial Space Monitoring System (limited to maximum length of 344 feet).
2. Use only with Western Fiberglass Co-Flow Hydraulic Interstitial Monitoring System (limited to maximum length of 200 feet).
3. Procedures to verify the appropriate pipe for V or P applications include inspection in the field for a date stamp equal to or after November 16, 2006, but no later than January 28, 2008, and a marking of "50 PSI" on the secondary containment.
4. Procedures to verify the appropriate pipe for V or P applications include inspection in the field for a date stamp equal to or after November 30, 2006 and a marking of "50 PSI" on the secondary containment.
5. Geoflex is no longer being manufactured by Environ.

Acronyms used in the Matrix of Pipe Monitoring Applications

Acronym	Definition
UL	Underwriters Laboratories Inc.
ID	Internal Diameter
OD	Outside Diameter
SOS	Size over Size
SC	Secondary Containment
V	Vacuum
P	Pressure
ILLM	Interstitial Liquid Level Monitoring
AILLM	Ambient Liquid Level Monitoring
PILLM	Pressurized Liquid Level Monitoring
MV	Motor Vehicle
CT	Concentrated
HB	High Blend
AM	Aviation & Marine