### Appendix E On-Site TAC Meeting Presentation

"Beam Verification Testing" (Khosravifar)

















Span	ks	Zorn 300	Dyna 300_6"	Dyna 150_6"	Dyna 300_4"	Dyna 150_4"	Olson 300-1/2	Prima100 Hoffmann
cm]	[kN/mm]	[kN/mm]	[kN/mm]	[kN/mm]	[kN/mm]	[kN/mm]	[kN/mm]	[kN/mm]
70	0.9	0.834	0.707	0.732	0.767	0.810		3.400
60	1.5	1.159	1.038	1.082	1.288	1.305		2.670
50	2.4	1.848	2.099	2.215	2.519	2.678	1.982	2.170
40	5.0	3.457	4.693	4.748	5.234	5.360	3.872	
30	7.9							
			Dyna	Dyna	Dyna	Dyna	Olson	Prima100 Hoff/
		Zorn 300	300_6"	150_6"	300_4"	150_4"	300-1/2	hammer
	īo	-7%	-21%	-19%	-15%	-10%		278%
	е Е	-20%	-28%	-25%	-11%	-10%		84%
	۲i د	-23%	-13%	-8%	5%	12%	-17%	-10%
	Rela	-31%	-6%	-5%	5%	7%	-23%	



# Conclusion

Overall, in contrary to Hoffman (2004,) it was found that the conventional, peak-based method of backanalysis produces correct estimates of the static stiffness of the BVT.

The spectral-based data interpretation method could enhance the results marginally for Dynatest, but was deficient for Olson LWD.

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### Appendix F On-Site TAC Meeting Presentation

"Drying Analyses" (Afsharikia)



# Parametric Study of Soil Drying in the Field









## Software Evaluated

- HYDRUS
- UNSAT-H Code
- Flux Fortran code
- ✓ SoilVision SVFlux

Top soil	Property	Clay	Top soil
	Specific gravity	$2.70^{a}$	2.64
	Grain size		
	% fine sand	$0^a$	7
	% silt	$10^{a}$	71
	% clay	90 <sup>a</sup>	22
	Atterberg limits		
	Liquid limit	$63.9\%^{b}$	32.5%
	Plastic limit	$30.9\%^{b}$	21.0%
	Plasticity index	33.0% <sup>b</sup>	11.5%
	Compaction test		
	Optimum water content	25%	16.2%
	Maximum dry density	$1.58 \text{ Mg/m}^3$	$1.75 \text{ Mg/m}^3$











	UNSAT-H
Vunware-hostobared Foldes/Udeskop/Wolstufe p Program DATAINH Uersion 3.01 Contact: MJ Fayer Dox 999, MCIN K9-33 Box 999, MCIN K9-33 Foldes 409-322-6045 FAX 509-322-6049 email mike.fayer@pnl.gov	COMMAND LEUEL: The processing options are Ø) Exit the program 1) Reinitialize 2) Scan the data 3) Create hardcopy output 4) Greate data us time data files 5) Greate data us time data files 6) Ghange the current *.res file Entor the number of your choice ===> 4
Enter input filename without the ",1 (a "0" terminates the program? ===>	LISIDATA (Option No. 4) The LISIDATA options are: B) Return to DATAOUT command level 1) Look at H (head) values 2) Look at HETA (water content) values 3) Look at AFA (liquit matcher flow) values 3) Look at AFA (liquit matcher and comp) 5) Look at MATH, DAVST, DAVST, DAVSDH, DAVUBC (simulated time and time step information) 6) Look at Water storage) 7) Look at Water Ralance values 8) (glant option unavailable) 9) (isothermal vapor option unavailable)
	Enter the desired option ===> 2 Options for output device: B) screen 1) file Choose output device option ===> 0 Data for up to 6 individual nodes can be viewed. Enter the number of nodes desired (1 to 6> followed by the node numbers (1 to 90) ===>



























