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Mr. Terry Husseman, Program Director Office of High-Level Waste Management State of Washington Department of Ecology, MS PV-11 Olympia, WA 98504

Mr. Max S. Power, Science and Technology Washington State Institute for Public Policy The Evergreen State College Seminar Building, Room 4111 Mail Stop TA-00 Olympia, WA 98505

Mr. Melvin Sampson, Chairman Yakima Tribal Council Yakima Indian Nation P. O. Box 151 Toppenish, WA 98948

Mr. Ken Hall, Chairman Board of Trustees Umatilla Confederated Tribes P. O. Box 638 Pendleton, OR 97801

Mr. Allen V. Pinkham, Chairman Nez Perce Tribal Executive Committee Box 305 Lapwai, ID 83540

Gentlemen:

MONTHLY TRANSMITTAL OF "SCHEDULE FOR NEAR TERM BWIP SITE CHARACTERIZATION ACTIVITIES"

Enclosed for your use is our monthly update and schedule for Site, Engineered Barriers, and Geomechanics Department activities in this precharacterization phase.

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State and Indian Tribes

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JAN 6 1986

As committed, we will continue to update this information on a regular basis. Should you have any questions relative to this transmittal, please contact Mr. Max L. Powell of my staff on (509) 376-5267.

Very truly yours,

ORIGINAL SIGNED BY O. L. OLSON

O. L. Olson, Director Basalt Waste Isolation Division

BWI:MLP

Enclosure

bcc's for letter, Olson to States/Indian Tribes, "Monthly Transmittal of Schedule for Near Term BWIP Site Characterization Activities"

bcc, w/encl: Russell Jim, Yakima Indian Nation Ronald Halfmoon, Nez Perce Tribe Peter P. Ramatowski, Umatilla Conf. Tribes Wyatt Rogers, CERT Bill Dixon, State of Oregon Linda Lehman James B. Hovis J. Linehan, NRC HQ F. R. Cook, NRC Richland Barry Gale, DOE-HQ C. A. Peabody, DOE-HQ J. Graham, Rockwell BWI Record Cy M. L. Powell File SITE, ENGINEERED BARRIERS, AND GEOMECHANICS DEPARTMENT ACTIVITIES

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	Activities	Date	Rev
<u>So</u>]	ution Chemistry Laboratory (Continued)		
0	Methods development for measurement of dissolved hydrogen (H ₂) in aqueous samples from autoclaves in the Non- Radioactive Hydrothermal Laboratory	Ongoing	
0	Analyze solutions from experiments on sorption phenomena of flow top materials being done at PNL	Ongoing	
Mic	rocharacterization (Solids) Laboratory		
Sca	nning Transmission Electron Microscope -		
0	Analysis of flow-through run products	Ongoing	
0	Analysis of Dickson autoclave run products	Ongoing	_
0	Initiate coring of RRL-17	12/02-31/8	
	Initiate drilling of DC-18	12/11/85-0	
ō	Initiate rotary drilling of DC-24	12/09/85-0	
0	Conduct geologic field mapping	01/08–20/8	6 1
X-F	Ray Diffractometer -		
ο	Analysis of McCoy Canyon, Umtanum and high-Mg flow tops	Complete	
0	Analysis of flow-through run products	Ongoing	
0	Analysis of Dickson autoclave run products	Ongoing	
0	Analysis of fault gouge	Complete	
0	Analysis of sedimentary interbed minerals	01/86-10/8	6 (Work 1
		Transferre	d to PNL)
0	Analysis of corrosion water surface coatings	Ongoing	
Ele	ectron Microprobe -		
	Analysis of Rocky Coulee flow tops	Complete	
	Analysis of Dickson Autoclave run products	Ongoing	
0	Analysis of oxide minerals in Rocky Coulee/Cohasset flow	Complete	
	tops		
Rac	lioactive Hydrothermal Laboratory		
0	Basalt <u>+</u> bentonite + synthetic groundwater tests in flow-through autoclave	Ongoing	1
0	Radionuclide-doped simulated Savannah River Plant Defense	Ongoing	
•	glass + basalt and synthetic groundwater Experiments using fully radioactive waste forms in the	April 1986	
0	Experiments using fully radioactive waste forms in the presence of various waste package components (metal, barriers, and/or basalt)	APE 1 1900	
0	Experiments on the behavior of specific radionuclides,	Ongoing	
	introduced individually with groundwater, in the presence of packing material at low temperatures		

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	Non	-Radioactive Hydrothermal Laboratory		
	с 0	Hydrothermal tests on basalt + bentonite + groundwater Long-term hydrothermal tests (1-5 years) on basalt + groundwater	Ongoing Ongoing	
	o	Determine the solubility of selenium under hydrothermal conditions simulating the near-field environment	Ongoting	
	٥	Evaluate Redox conditions in a hydrothermal experiment simulating a near-field environment	Ongo ing	
	0	Dehydration experiments	Qngoing	
	Was	te Package Packing Investigatory Testing		
•	000	Uniaxial compression50 testsBrazillian tension50 testsDirect shear50 tests4-point flexure40 testsDensity100 tests	Complete Complete Complete Complete Complete	
	Con	crete Testing Laboratory		
	0 0 0	Near-Surface Testing Facility Remedial Shotcrete Dowell's chemical seal ring tests Fracture alteration testing	Ongoing Begin 12/85 Begin 12/85	12
	Bac	kfill Testing Laboratory		
	0000	Hydraulic conductivity tests (packing and seals) Swelling pressure permeameter and triaxial tests (packing) Long-term flow through permeameter tests (packing) Swelling pressure permeameter and triaxial tests (seals)	Ongoing Ongoing Ongoing Begin Ol/85	12
í	٩	mechanics Testing at Near-Surface Test Facility		
)	Overcoring developmental testing with CSIRO triaxial cell Development testing of a prototype thermal conductivity probe Rock support materials development testing	01/85-03/86 Begin 12/85 C2/86-02/88	12 12
	Roc	k Mechanics Laboratory		
	٥	Thermal conductivity/thermal expansion development testing	12/85-02/86	12

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*Changes in this schedule from that last issued are indicated by a revision bar and revision number. Items will remain on listing for a two-month period after completion.