



0045320

RECEIVED

Department of Energy
 Richland Operations Office
 P.O. Box 550
 Richland, Washington 99352

SEP 10 1996

L.W. ROBERTS

SEP 06 1996

96-EAP-351

Mr. John Erickson, Section Head
 Environmental Radiation Section
 State of Washington
 Department of Health
 P.O. Box 47827
 Olympia, Washington 98504-7827

Mr. David Grant
 Aquatic Resources Division
 State of Washington
 Department of Natural Resources
 713 East Bowers Road
 Ellensburg, Washington 98926

Dear Messrs. Erickson and Grant:

MONTHLY EFFLUENT RADIONUCLIDE MONITORING REPORT

Pursuant to Section 4.8(b) of the Aquatic Lands Sewer Outfall Lease No. 20-013357, please find enclosed the 300 Area Treated Effluent Disposal Facility Monthly Effluent Radionuclide Monitoring Report. The report covers the period of July 1, 1996, through July 31, 1996. Acceptable reporting includes a gamma scan, gross alpha and gross beta scans, and tritium analysis according to the State of Washington Department of Health 20-minute count analytical procedure as prescribed in Exhibit C of the lease. No excursions occurred during this monitoring period.

If you have any questions or require additional information, please contact me or Randall Krekel of my staff at (509) 376-4264.

Sincerely,

James E. Rasmussen, Director
 Environmental Assurance, Permits,
 and Policy Division

EAP:RNK

Enclosure

cc w/encls:

R. Danielson, DOH
 L. Diediker, WHC
 A. DiLiberto, WHC
 W. Dixon, WHC
 D. Halgren, WHC

L. Roberts, WHC
 D. Sherwood, EPA
 S. Shurla, Ecology
 H. Tilden, PNNL
 T. Moan, EPANL



Hanford Site
300 Area Treated Effluent Disposal Facility
Effluent Radionuclide Monitoring Report
July 1, 1996, through July 31, 1996

Analysis	Result ⁽²⁾ Bq L ⁻¹ (pCi L ⁻¹)	% Method Error	State Standard pCi L ⁻¹
GEA ⁽¹⁾ - ⁶⁰ Co	<0.12 (<3.2)	N/A	S 50,000 ⁽³⁾ I 30,000
- ¹³⁷ Cs	<0.13 (<3.4)	N/A	S 20,000 I 40,000
Total Alpha	<0.013 (<0.34)	210%	15 ⁽⁴⁾
Total Beta	<0.024 (<0.65)	100%	50 ⁽⁴⁾
Tritium	<14.4 (<390)	N/A	20,000 ⁽⁴⁾

⁽¹⁾GEA: Gamma Energy Analysis

⁽²⁾Bq L⁻¹: Becquerel per liter; pCi L⁻¹: picoCurie per liter.
There are 37 X 10⁹ Becquerel per Curie.

⁽³⁾Soluble (S) and Insoluble (I) Standards for ⁶⁰Co and ¹³⁷Cs from
WAC 246-221-290 (Table II).

⁽⁴⁾Standards for total alpha, total beta and tritium from
Department of Natural Resources Aquatic Resources Lease
No. 20-013357 per the Federal Drinking Water Standard (40 Code of
Federal Regulations, Part 141).

