



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

0071506

07-AMCP-0012

OCT 30 2006

Ms. Debra McBaugh, Section Head
Environmental Radiation Section
Washington State Department of Health
P.O. Box 47827
Olympia, Washington 98504

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

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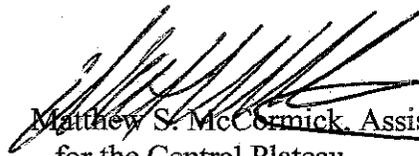
Addressees:

DEPARTMENT OF NATURAL RESOURCES LAND LEASE MONITORING REPORT
FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
NO. WA 002591-7 OUTFALL 001 – SEPTEMBER 2006

The purpose of this letter is to forward for your review, the attached 300 Area Treated Effluent Disposal Facility, Department of Natural Resources monthly monitoring data, as required by Aquatic Lands Sewer Outfall Lease 20-013357. Monthly monitoring data for radionuclides present in the effluent are provided in the attached table. The data indicate that all values monitored are well below State guidelines. Reporting of monthly composite sample results are provided and transmitted to the Washington State Department of Health, according to Exhibit C of the lease. This report covers the reporting period from August 22, 2006, through September 19, 2006. It also includes the annual receiving water monitoring data.

If you have any questions, please contact me, or you may contact Mark French of my staff, on (509) 373-9863.

Sincerely,


Matthew S. McCormick, Assistant Manager
for the Central Plateau

AMCP:OMH

Attachment

cc: See Page 2

Addressees
07-AMCP-0012

-2-

OCT 30 2006

cc w/attach:

G. Bohnee, NPT

A. L. Boyd, EPA

K. A. Conaway, Ecology

R. H. Engelmann, DFSH

D. L. Halgren, FHI

S. Harris, CTUIR

R. Jim, YN

K. Ogle, EPA (Seattle)

R. E. Piippo, FHI

M. Priddy, WDOH

D. G. Ranade, FHI

E. R. Skinnerland, Ecology

H. T. Tilden, PNNL

Administrative Record (300 Area Treated Effluent

Disposal Facility Liquid Effluent) and (Aquatic

Lands Sewer Outfall Lease 20-013357)

Environmental Portal

Hanford Site
300 Area Treated Effluent Disposal Facility

Monthly Monitoring Data

September 2006

Analysis	Result (pCi/L)	State Standard (pCi/L)
Total Alpha	1.50	15 ⁽³⁾
Total Beta	3.60	50 ⁽³⁾
GEA ⁽¹⁾ – ⁶⁰ Co	BDL ⁽²⁾ (-0.69)	3,000 ⁽⁴⁾
¹³⁷ Cs	BDL ⁽²⁾ (-0.53)	1,000 ⁽⁴⁾
Tritium	BDL ⁽²⁾ (110.0)	20,000 ⁽³⁾

- (1) GEA: Gamma Energy Analysis
- (2) BDL: Below Detection Limit
- (3) Standards for total alpha, total beta, and tritium from Department of Natural Resources Aquatic Resources Lease 20-013357
- (4) Washington Administrative Code 246-221-290 (Table II, effluent water)

Hanford Site
300 Area Treated Effluent Disposal Facility

Receiving Water Monitoring Data

September 2006

Analysis	Upstream Sample Result	Downstream Sample Result	State Standard
Total Alpha (pCi/L)	BDL ⁽¹⁾ (0.60)	BDL ⁽¹⁾ (0.22)	15 ⁽²⁾
Total Beta (pCi/L)	3.80	BDL ⁽¹⁾ (1.60)	50 ⁽²⁾
Tritium (pCi/L)	BDL ⁽¹⁾ (-70.0)	BDL ⁽¹⁾ (-130.0)	20,000 ⁽²⁾
Strontium-90 (pCi/L)	BDL ⁽¹⁾ (1.40)	BDL ⁽¹⁾ (1.30)	8 ⁽³⁾
Combined Radium (pCi/L)	BDL ⁽¹⁾ (0.29)	BDL ⁽¹⁾ (1.13)	5 ⁽³⁾
Total Uranium (µg/L)	0.491	0.474	30 ⁽³⁾

*Unless otherwise specified

- (1) BDL: Below Detection Limit estimated values
- (2) Standards for total alpha, total beta, and tritium from Department of Natural Resources Aquatic Resources Lease 20-013357
- (3) Washington Administrative Code 246-290-310