Preliminary Effluent Limitations (PEL) For Domestic and Industrial Discharges

The Water Quality Control Division (Division) offers a fee-based service to identify the preliminary (anticipated) effluent limitations for a discharge to state waters and this information is provided in the PEL document. This information may be used by entities to plan and design the wastewater management and treatment processes to meet these objectives.

Domestic Discharges. A PEL is mandatory for domestic wastewater discharges as part of the Division's Site Application process. In accordance with Site Location and Design Approval Regulations for Domestic Wastewater Treatment Works (Regulation No. 22) Section 22.4(1)(b)(iii) and Section 22.5(2)(B), PELs developed in coordination with the Division must be addressed and/or included in an application for site location approval for any proposed new or expanded domestic wastewater treatment works.

Industrial Discharges. A <u>PEL is optional for industrial wastewater dischargers</u> since the Site Application process does not apply. Permit applications for industrial dischargers can be accepted without the completion of a PEL. It is anticipated that some entities may request a PEL (or several PELs) during the planning process to aid in the selection of treatment and design to include in the application for a discharge permit.

Process. The information provided below is for existing and planned dischargers who want to request a PEL.

- **Cost**. The categorical fees (Table 1) are based on size of discharge. Also, there are fees for review of a PEL prepared by a third-party, discharges to more than one water body, and PEL modification. The Division will provide limited assistance to third-party preparers but does not have the resources to train these entities in PEL preparation. Work on a PEL cannot start until the fee is paid. Payment may be made at the time the application is submitted or made after the Division's invoice is received.
- **Application**. A request for a PEL is provided to the Division as a completed application. This form is provided at the end of this document and includes information needed to determine pollutants of concern, receiving water(s), and flow rates.
- Schedule. The Division's intent is to prepare the PEL within 45 days, beginning with receipt of a complete application and receipt of payment.
- **Content**. The content of a PEL is provided in Table 2.
- **Contact**. Division contact information is also provided in Table 2.

Table 1

Discharge Categories and Fees for PEL Preparation

(Reference: Colorado Revised Statutes 25-8-502)

Discharge Category	Flow	Fee (\$)	
and	in	Effective July 1, 2007	
Subcategory	Gallons per Day		
Category 40. PELs for Individual Permits			
Subcategory 1	Less than 100,000	2,100	
Subcategory 2	From 100,000 up to 999,999	4,200	
Subcategory 3	From 1,000,000 up to 9,999,999	6,300	
Subcategory 4	Equal to or more than 10,000,000	8,400	
Category 41. PELs for General Permits *			
	From 0 up to 1,000,000	1,050	
Category 42. PELs for Discharges to Groundwater**			
Subcategory 1	Minor facilities (less than 1,000,000)	525	
Subcategory 2	Major facilities (at least 1,000,000)	840	
Category 43. Review of PELs for Individual Permits (professionally prepared by others)			
Subcategory 1	Less than 1,000,000	1,575	
Subcategory 2	At least 1,000,000	3,150	
Other fees			
PEL request includes discharges to a second or additional		additional 75%	
receiving water bodies		of original fee	
Requested modification of Division-approved PEL		25% of original fee	

* This category includes minor facilities that discharge to: unclassified waters, class 2 (aquatic life) streams with a zero low flow; or class 2 (aquatic life) streams with a low flow greater than zero.

** Certain types of groundwater discharges are not permitted by the Water Quality Division and are under the jurisdiction of the Hazardous Materials and Waste Management Division, the Division of Reclamation Mining and Safety, or the Colorado Oil and Gas Conservation Commission. After review of the PEL request, the Division will notify the requestor if the Division does not have jurisdiction to authorize the identified discharge. Also, this regulatory approach applies to groundwater discharges that are included in PEL requests for facilities with a surface water discharge.

Table 2

Contents of PEL

required Effluent (WQBE	uent limits for a discharge are based on the more stringent of limits by federal Effluent Limitation Guidelines (ELG), state Regulations for Limitations (Regulation No. 62), and water-quality-based-effluent-limits Ls). The latter includes concurrent limits that may be required after radation review.	
	General Outline	
I.	Introduction	
	Receiving water description	
	General characterization of facility and industrial processes	
	Description of discharge practice and outfall location	
II.	Development of Water-Quality-Based Effluent Limits	
	Receiving water classification and standards	
	Ambient receiving water quality	
	Low flow analysis	
	Determination of pollutants of concern	
	Determination of WQBELs	
	Determination of ADBACs/NILs	
III.	Determination of Applicable Federal ELGs	
	Review of federal regulations and standards	
IV.	Application of State Effluent Limitations	
V.	Selection of Final Effluent Limits	
	Determination of applicable limits	
For addit	ional information on PEL process	
Website:	http://www.cdphe.state.co.us/wq/PermitsUnit/PolicyandGuidance/PEL.PDF	
Mail:	Colorado Department of Public Health and Environment	
Water Quality Control Division, Permits Section, P-B-2		
4300 Cherry Creek Drive South		
	Denver, Colorado 80246-1530	
Fax:	303-782-0390	
Phone: Permits Section 303-692-3500		

PEL APPLICATION

1) General Information:
Requestor Name:
Facility Contact (if different from above)
Facility Name:
Address:
City, State, Zip Code:
Phone Number:
Email address:
2) Facility Information:
Domestic or Industrial Discharge
SIC Code(s):
General Description of Operations:
3) Discharge Information:
Is this a new facility or an upgrade to an existing facility:
Proposed Discharge Location (attach map showing facility and discharge point locations)
Receiving Stream:
Lat/Long:
Proposed Discharge Flow Rate (mgd):

Any Additional Discharge Locations (additional fees may apply):

Receiving Stream:
Lat/Long:
Additional Discharge Flow Rates (mgd) (additional fees may apply):

Pollutants of Concern (check all that apply):

- _____ BOD
 _____ CBOD

 _____ E. coli
 _____ Total Residual Chlorine

 _____ Temperature
 _____ Nitrate / Nitrite

 _____ Cyanide
 _____ Metals (all inclusive)
- ____ Ammonia (if upgrade to facility, include most recent CAM/AMMTOX results)

- ____ Radionuclides (ex. radium, list specific radionuclides below)
- ____ Organics (list specific organics below)

List Radionuclides (or note all inclusive)

List Organics (or note all inclusive)

List any other Pollutants of Concern or Additional Information: