



# Produced Water Storage Tank(s) APEN Form APCD-207

## Air Pollutant Emission Notice (APEN) and Application for Construction Permit

All sections of this APEN and application must be completed for both new and existing facilities, including APEN updates. Incomplete APENs will be rejected and will require re-submittal. *Your APEN will be rejected if it is filled out incorrectly, is missing information, or lacks payment for the filing fee. The re-submittal will require payment for a new filing fee.*

This APEN is to be used for tanks that store produced water associated with oil and gas industry operations. If your emission source does not fall into this category, there may be a more specific APEN available for your source (e.g. crude oil storage tanks, condensate storage tanks, hydrocarbon liquid loading, etc.). In addition, the General APEN (Form APCD-200) is available if the specialty APEN options will not satisfy your reporting needs. A list of all available APEN forms and associated addendum forms can be found on the Air Pollution Control Division (APCD) website.

This emission notice is valid for five (5) years. Submission of a revised APEN is required 30 days prior to expiration of the five-year term, or when a reportable change is made (significant emissions increase, increase production, new equipment, change in fuel type, etc.). See Regulation No. 3, Part A, II.C. for revised APEN requirements.

**Permit Number:** \_\_\_\_\_ **AIRS ID Number:** \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
[Leave blank unless APCD has already assigned a permit # and AIRS ID]

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### Section 1 - Administrative Information

Company Name<sup>1</sup>: \_\_\_\_\_  
Site Name: \_\_\_\_\_  
Site Location: \_\_\_\_\_ Site Location County: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ NAICS or SIC Code: \_\_\_\_\_  
(Include Zip Code) \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
E-Mail Address<sup>2</sup>: \_\_\_\_\_

<sup>1</sup> Use the full, legal company name registered with the Colorado Secretary of State. This is the company name that will appear on all documents issued by the APCD. Any changes will require additional paperwork.

<sup>2</sup> Permits, exemption letters, and any processing invoices will be issued by the APCD via e-mail to the address provided.

**Section 2 - Requested Action**

- NEW permit OR newly-reported emission source**
  - Request coverage under traditional construction permit
  - Request coverage under a General Permit
    - GP05  GP08

If General Permit coverage is requested, the General Permit registration fee of \$353.13 must be submitted along with the APEN filing fee.

- OR -
- MODIFICATION to existing permit** *(check each box below that applies)*
  - Change in equipment  Change company name<sup>3</sup>
  - Change permit limit  Transfer of ownership<sup>4</sup>  Other *(describe below)*

- OR -
- APEN submittal for update only (Note blank APENs will not be accepted)**

- ADDITIONAL PERMIT ACTIONS -
- APEN submittal for permit exempt/grandfathered source**
- Limit Hazardous Air Pollutants (HAPs) with a federally-enforceable limit on Potential To Emit (PTE)**

**Additional Info & Notes:** \_\_\_\_\_

<sup>3</sup> For company name change, a completed Company Name Change Certification Form (Form APCD-106) must be submitted.  
<sup>4</sup> For transfer of ownership, a completed Transfer of Ownership Certification Form (Form APCD-104) must be submitted.

**Section 3 - General Information**

General description of equipment and purpose: \_\_\_\_\_

Company equipment Identification No. *(optional)*: \_\_\_\_\_

For *existing* sources, operation began on: \_\_\_\_\_

For *new or reconstructed* sources, the projected start-up date is: \_\_\_\_\_

Normal Hours of Source Operation: \_\_\_\_\_ hours/day \_\_\_\_\_ days/week \_\_\_\_\_ weeks/year

Storage tank(s) located at:  Exploration & Production (E&P) site  Midstream or Downstream (non E&P) site

Will this equipment be operated in any NAAQS nonattainment area?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Are Flash Emissions anticipated from these storage tanks?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Are these storage tanks located at a commercial facility that accepts oil production wastewater for processing?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Do these storage tanks contain less than 1% by volume crude oil on an annual average basis?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Are these storage tanks subject to Colorado Oil and Gas Conservation Commission (COGCC) 805 series rules? If so, submit Form APCD-105.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
Are you requesting ≥ 6 ton/yr VOC emissions (per storage tank), or are uncontrolled actual emissions ≥ 6 ton/yr (per storage tank)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

Permit Number: \_\_\_\_\_

AIRS ID Number: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

### Section 4 - Storage Tank(s) Information

	Actual Annual Amount (bbl/year)	Requested Annual Permit Limit <sup>5</sup> (bbl/year)
Produced Water Throughput:		

From what year is the *actual annual amount*? \_\_\_\_\_

Tank design:     Fixed roof                       Internal floating roof                       External floating roof

Storage Tank ID	# of Liquid Manifold Storage Vessels in Storage Tank	Total Volume of Storage Tank (bbl)	Installation Date of Most Recent Storage Vessel in Storage Tank (month/year)	Date of First Production (month/year)

Wells Serviced by this Storage Tank or Tank Battery <sup>6</sup> (E&P Sites Only)		
API Number	Name of Well	Newly Reported Well
- -		<input type="checkbox"/>

<sup>5</sup> Requested values will become permit limitations or will be evaluated for exempt status, as applicable, and should consider future process growth. Requested values are required on all APENs, including APEN updates.

<sup>6</sup> The E&P Storage Tank APEN Addendum (Form APCD-212) should be completed and attached when additional space is needed to report all wells that are serviced by the equipment reported on this APEN form.

### Section 5 - Geographical/Stack Information

Geographical Coordinates (Latitude/Longitude or UTM)

Check box if the following information is not applicable to the source because emissions will not be emitted from a stack. If this is the case, the rest of this section may remain blank.

Operator Stack ID No.	Discharge Height Above Ground Level (Feet)	Temp. (°F)	Flow Rate (ACFM)	Velocity (ft/sec)

Indicate the direction of the stack outlet: (check one)

- Upward                                       Downward                                       Upward with obstructing raincap  
 Horizontal                                       Other (describe): \_\_\_\_\_

Indicate the stack opening and size: (check one)

- Circular                      Interior stack diameter (inches): \_\_\_\_\_  
 Square/rectangle                      Interior stack width (inches): \_\_\_\_\_ Interior stack depth (inches): \_\_\_\_\_  
 Other (describe): \_\_\_\_\_

Permit Number: \_\_\_\_\_

AIRS ID Number: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

**Section 6 - Control Device Information**

Check this box if no emission control equipment or practices are used to reduce emissions, and skip to the next section.

<input type="checkbox"/>	Pollutants Controlled:	_____	
	Vapor Recovery Unit (VRU):	Size:	Make/Model:
		_____	_____
		Requested Control Efficiency:	%
		_____	_____
	VRU Downtime or Bypassed (emissions vented):	%	_____

<input type="checkbox"/>	Pollutants Controlled:	_____		
	Combustion Device:	Rating:	MMBtu/hr	_____
		_____	_____	_____
		Type:	Make/Model:	_____
		_____	_____	_____
		Requested Control Efficiency:	%	_____
		Manufacturer Guaranteed Control Efficiency:	%	_____
	Minimum Temperature:	Waste Gas Heat Content:	Btu/scf	
	_____	_____	_____	
	Constant Pilot Light:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pilot Burner Rating:	MMBtu/hr
			_____	_____

<input type="checkbox"/>	Description of the closed loop system:	_____		
	Closed Loop System	_____		
		_____		
		_____		
		_____		

<input type="checkbox"/>	Pollutants Controlled:	_____	
	Other:	Description:	_____
		_____	_____
	Control Efficiency Requested:	%	_____

**Section 7 - Gas/Liquids Separation Technology Information (E&P Sites Only)**

What is the pressure of the final separator vessel prior to discharge to the storage tank(s)? \_\_\_\_\_ psig

Describe the separation process between the well and the storage tanks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Permit Number: \_\_\_\_\_

AIRS ID Number: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

### Section 8 - Criteria Pollutant Emissions Information

Attach all emissions calculations and emission factor documentation to this APEN form<sup>7</sup>.

Is any emission control equipment or practice used to reduce emissions?  Yes  No

If yes, describe the control equipment AND state the requested control efficiencies (report the overall, or combined, values if multiple emission control methods were identified in Section 6):

Pollutant	Control Equipment Description	Overall Requested Control Efficiency (% reduction in emissions)
VOC		
NO <sub>x</sub>		
CO		
HAPs		
Other:		

From what year is the following reported *actual annual emissions* data? \_\_\_\_\_

Use the following table to report the criteria pollutant emissions from source:

Pollutant	Emission Factor <sup>7</sup>			Actual Annual Emissions		Requested Annual Permit Emission Limit(s) <sup>5</sup>	
	Uncontrolled Basis	Units	Source (AP-42, Mfg., etc.)	Uncontrolled Emissions (tons/year)	Controlled Emissions <sup>8</sup> (tons/year)	Uncontrolled Emissions (tons/year)	Controlled Emissions (tons/year)
VOC							
NO <sub>x</sub>							
CO							

<sup>5</sup> Requested values will become permit limitations or will be evaluated for exempt status, as applicable, and should consider future process growth. Requested values are required on all APENs, including APEN updates.

<sup>7</sup> Attach produced water laboratory analysis, stack test results, and associated emissions calculations if you are requesting site specific emissions factors according to the guidance in PS Memo 14-03.

<sup>8</sup> Annual emission fees will be based on actual controlled emissions reported. If source has not yet started operating, provide projected emissions.

### Section 9 - Non-Criteria Pollutant Emissions Information

Does the emissions source have any uncontrolled actual emissions of non-criteria pollutants (e.g. HAP - hazardous air pollutant) equal to or greater than 250 lbs/year?  Yes  No

If yes, use the following table to report the non-criteria pollutant (HAP) emissions from source:

Chemical Name	Chemical Abstract Service (CAS) Number	Emission Factor <sup>7</sup>			Actual Annual Emissions	
		Uncontrolled Basis	Units	Source (AP-42, Mfg., etc.)	Uncontrolled Emissions (lbs/year)	Controlled Emissions <sup>8</sup> (lbs/year)
Benzene	71432					
Toluene	108883					
Ethylbenzene	100414					
Xylene	1330207					
n-Hexane	110543					
2,2,4-Trimethylpentane	540841					

<sup>7</sup> Attach produced water laboratory analysis, stack test results, and associated emissions calculations if you are requesting site specific emissions factors according to the guidance in PS Memo 14-03.

<sup>8</sup> Annual emission fees will be based on actual controlled emissions reported. If source has not yet started operating, provide projected emissions.

Permit Number: \_\_\_\_\_

AIRS ID Number: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

**Section 10 - Applicant Certification**

I hereby certify that all information contained herein and information submitted with this application is complete, true, and correct. If this is a registration for coverage under General Permit GP05 or GP08, I further certify that this source is and will be operated in full compliance with each condition of the applicable General Permit.

\_\_\_\_\_  
Signature of Legally Authorized Person (not a vendor or consultant)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name (print)

\_\_\_\_\_  
Title

**Check the appropriate box to request a copy of the:**

- Draft permit prior to issuance
- Draft permit prior to public notice

(Checking any of these boxes may result in an increased fee and/or processing time)

This emission notice is valid for five (5) years. Submission of a revised APEN is required 30 days prior to expiration of the five-year term, or when a reportable change is made (significant emissions increase, increase production, new equipment, change in fuel type, etc.). See Regulation No. 3, Part A, II.C. for revised APEN requirements.

Send this form along with \$216.00 and the General Permit registration fee of \$353.13, if applicable, to:

**Colorado Department of Public Health and Environment**  
Air Pollution Control Division  
APCD-SS-B1  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

Make check payable to:

**Colorado Department of Public Health and Environment**

For more information or assistance call:

**Small Business Assistance Program**  
(303) 692-3175  
OR  
(303) 692-3148

**APCD Main Phone Number**  
(303) 692-3150