



Montana Department of
ENVIRONMENTAL QUALITY

WATER PROTECTION BUREAU

Agency Use
Permit No.:
Date Rec'd
Rec'd By

**FORM
GW-2**

**Ground Water Pollution Control System (MGWPCS)
Industrial & Other Wastewater - Permit Application**

This form must be accompanied by DEQ Form 1. Form GW-2 is to be used for facilities that discharge or propose to discharge waste from the process of business or industry or the development of any natural resource together with any sewage that may be present (industrial waste) or other waste, and fulfills the requirements of ARM 17.30.1023(4). Please read the attached instructions before completing this application. Do not leave blank spaces; if a question is not applicable put an 'NA' in the space provided. You must print or type legibly; applications that are not legible will be returned.

Section A – Facility/Site Information *(Must be the same as Form 1)*

Facility Name _____

Facility Location _____

Facility Contact / Title _____

Mailing Address _____

City, State, Zip _____

Telephone Number(s) _____

Vicinity Map:
The following information must be clearly labeled on a project vicinity map attached to this application. Please identify location and name of adjacent surface water, location and ownership of water supply wells, springs, and other ground water intake structures within 1 mile of the proposed or existing source(s).

Facility Site Plan:
Attach to this application a Facility Site Plan drawing(s) showing the topography of the area extending at least to the property lines of the facility. The map must show the outline of buildings, structures, parking areas, north arrow, scale and facilities directly pertinent to processes, structures and discharges to be covered by the permit that may be issued in response to this application. At minimum, the location of each of the existing and proposed structures must be clearly labeled on the map including but not limited to: wastewater collection and conveyance structures, wastewater treatment facilities, wastewater disposal structures/systems, and monitoring or supply well location(s). The required information must be clearly labeled on the Facility Site Plan. For facilities that cover larger land areas, specific portions of the Facility Plan may be included on separate drawing(s) at a smaller scale to provide necessary detail.

Section B – Application and Source Status *(Check all applicable boxes.)*

Application Status	Source Status
<input type="checkbox"/> New, no existing GWPCS Permit	<input type="checkbox"/> New or Proposed
<input type="checkbox"/> Permit Renewal	<input type="checkbox"/> Existing Source
<input type="checkbox"/> Permit Modification	<input type="checkbox"/> Other: _____
<input type="checkbox"/> Other: _____	_____

Section C – Outfall Location

For each outfall, provide the latitude and longitude, and method of wastewater disposal system. (See Section K)

Outfall Number <i>(list)</i>	Latitude			Longitude			Method of Disposal
	Deg	Min	Sec	Deg	Min	Sec	
001							
002							

Section D – Collection System Information

For each outfall list all operations contributing wastewater to the effluent stream, including process wastewater, sanitary wastewater, cooling water and stormwater runoff (i.e. stormwater, floor drains, sump collection, sanitary sewer, process wastewater, other).

Outfall #	Operation(s) Contributing Flow			
	Operation <i>(list)</i>	Average Daily Flow <i>(include units)</i>	Maximum Daily Flow <i>(include units)</i>	Average Annual % Contribution
001				
002				

Section E – Treatment System Capacity

For *new* treatment works, provide hydraulic design capacity information; for *existing* systems, provide *both* design and measured information.

	Design Capacity	Measured Flow		
		Two Years Ago	Last Year	This Year
Average Daily Flow, gpd				
Maximum Daily Flow, gpd				
Flow Measurement Device(s): Manufacturer: _____ Type: _____				

Section F - Treatment System Description

(Describe the treatment system(s) or best management practices (BMP's) used to reduce pollutants. Attach additional sheets if necessary.)

Line Drawing:

Attach a line drawing showing water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, any process water or waste holding ponds or impoundments and treatment units labeled to correspond to the more detailed descriptions in Section F. Construct a water balance on the line drawing showing design flow between intakes, operations, treatment units, flow measurement location(s), sampling locations and outfalls. If a water balance cannot be determined, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

Scheduled Improvements and Schedules of Implementation.

Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality or design capacity of the treatment works.

Yes No Are planned improvements or implementation schedule required by local, state or federal agencies?

List the outfall number for each outfall that is covered by this implementation schedule: _____

Section G – Process Water or Waste Holding Ponds/Impoundments

Type/Purpose: _____

Total Capacity: _____ Units _____

Dimension: Length _____ Units _____

Width _____ Units _____

Design Depth: _____ Units _____

Detention Time: _____ Units _____

Liner Type: _____

Liner Specification:

Material: _____

Thickness: _____ Units _____

Permeability: _____ Units _____

Depth to ground water from bottom of excavation: _____ Units _____

Emergency overflow structure: Yes No

Leak Detection System: Yes No

Describe: _____

Other Information: _____

Attach the results of any seepage tests that have been conducted for this facility:

Section H – Engineering Report(s)

A. If there is any technical evaluation concerning your wastewater collection & treatment, including engineering reports or pilot plant studies, check the appropriate box below.

Report Available, copy attached No Report

B. Provide the name and location of any existing facilities which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater collection & treatment.

Name:

Location:

C. Other Information

(Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.)

Section I – Chemical Additions

List all chemical(s), product(s) used in industrial process or facility maintenance. Attach additional pages where necessary. Submit a complete list of chemicals; include products used even on a temporary basis (Material Safety Data Sheets – MSDS – may be submitted in addition to the list).

Name(s): _____	Name(s): _____
Manufacture(s): _____	Manufacture(s): _____
Name(s): _____	Name(s): _____
Manufacture(s): _____	Manufacture(s): _____
Name(s): _____	Name(s): _____
Manufacture(s): _____	Manufacture(s): _____

Section J – Sludge

Identify transporter and treatment works facility responsible for sludge removal and/or treatment. If sludge is not removed from facility, identify means of disposal.

Transporter

Name _____
Address _____
Telephone _____

Treatment works facility

Name _____
Address _____
Telephone _____

Sludge Disposal

Indicate the method(s) used for disposal of sludge generated during wastewater treatment.

<input type="checkbox"/> Composting Facility	<input type="checkbox"/> Land application
<input type="checkbox"/> Disposal at WWTP	<input type="checkbox"/> Landfill (Municipal, Hazardous Waste)
<input type="checkbox"/> Other - Describe: _____	

Section K – Disposal System

Indicate the method of wastewater disposal for this outfall. *(Check one)*

- Well injection
 Drainfield
 Rapid Infiltration
 Evapotranspiration
 Overland Flow
 Infiltration/Absorption Trenches
 Slow Infiltration
 Land Application (see form LA-1)
 Infiltration/Percolation
 Other(s) Explain: _____

Depth below ground surface _____ ft Distance above ground level _____ ft

Check all that may apply:

Is discharge: continuous intermittent seasonal

If seasonal indicate the month(s) the outfall discharges:

Jan Feb March April May June July Aug Sept Oct Nov Dec

Yes No Is the operator of the wastewater treatment system requesting a mixing zone pursuant to the Administrative Rule of Montana (ARM) Title 17, chapter 30, subchapter 5?

Standard Mixing Zone for Ground Water (ARM 17.30.517)

Source Specific Mixing Zone (ARM 17.30.518)

Section L – Ground Water Characteristics *(See Instructions)*

Test	Units	Minimum Value	Maximum Value	Average Value	No. of Measurements	Source of Data
Specific Conductivity	µS/cm					
Total Dissolved Solids (TDS)	mg/L					
pH	s.u.					
Chloride	mg/L					
Escherichia Coli*	No./100ml					
Kjeldahl Nitrogen, Total, as N	mg/L					
Nitrate + Nitrite, as N	mg/L					
Total Organic Carbon (TOC)	mg/L					
Other:						

*Fecal Coliform Bacteria will be accepted as substitute

Describe how the above estimates were obtained. Attach relevant supplemental information as necessary.

Section M – Local Hydrogeology and Mixing Zone Information

Depth to shallowest ground water _____ ft
 Depth to shallowest bedrock _____ ft
 Depth to shallowest impermeable geologic strata (if known) _____ ft
 Direction of ground water flow _____ (azimuth or bearing)

Describe how these values were obtained. Attach relevant supplemental information as necessary:

Name of all surface waters within 1 mile	Distance	Direction

Standard Mixing Zone - (Required Information*)

Hydraulic Gradient * (I) _____ ft/ft
 Hydraulic Conductivity * (K) _____ ft/day
 Maximum width of source perpendicular to the direction of ground water flow * _____ ft
 Depth of Mixing Zone _____ ft
 Width of Mixing Zone _____ ft
 Length of Mixing Zone _____ ft
 Distance from source to facility property boundary _____ ft
 Volume of ground water in Mixing Zone _____ cubic ft/day

Describe how these values were obtained. Attach relevant supplemental information as necessary:

Source Specific Mixing Zone ARM 17.30.518

If source specific mixing zone is being requested, provide justification in accordance with ARM 17.30.518. Submit all supplemental data documenting how hydraulic gradient, background concentrations, effluent concentrations and hydraulic conductivity were determined. This includes but is not limited to well logs, aquifer test methods and calculations, potentiometric maps and hydrogeologic reports of studies conducted in the area.

Sections K, L, M, N must be completed for each outfall identified in Section C

Outfall #: _____

Section N – Effluent Characteristics (See Instructions)

Pollutant or Parameter	Maximum		Average		No. of Samples	Analytical Method	ML	Source of Estimate
	Concentration	Units	Concentration	Units				
Conventional Pollutants								
pH (Minimum)								
pH (Maximum)								
Total Suspended Solids (TSS)								
Biochemical Oxygen Demand (BOD ₅)								
Oil & Grease								
Chlorine, Total Residual (TRC)								
Escherichia Coli								
Dissolved Oxygen								
Ammonia, as N								
Kjeldahl Nitrogen, Total, as N								
Nitrate + Nitrite, as N								
Phosphorus, Total, as P								
Total Dissolved Solids								
Specific Conductivity								
Chloride								
Sulfate								
Alkalinity, as CaCO ₃								
Iron, Total Recoverable								
Manganese, Total Recoverable								
Metals (Total Recoverable), Cyanide, Phenols and Hardness								
Antimony								
Arsenic								
Beryllium								
Cadmium								
Chromium								
Copper								
Lead								
Mercury								
Nickel								
Selenium								
Silver								
Thallium								
Zinc								
Cyanide								
Total Phenolic Compounds								
Hardness (as CaCO ₃)								
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer:								
Volatile Organic Compounds								
Acrolein								
Acrylonitrile								
Benzene								

Pollutant or Parameter	Maximum		Average		No. of Samples	Analytical Method	ML	Source of Estimate
	Concentration	Units	Concentration	Units				
Bromoform								
Carbon Tetrachloride								
Clorobenzene								
Chlorodibromo-Methane								
Chloroethane								
2-Chloro-Ethylvinyl Ether								
Chloroform								
Dichlorobromo-Methane								
1,1-Dichloroethane								
1,2-Dichloroethane								
Trans-1,2-Dichloro-Ethylene								
1,1-Dichloroethylene								
1,2-Dichloropropane								
1,3-Dichloro-Propylene								
Ethylbenzene								
Methyl Bromide								
Methyl Chloride								
Methylene Chloride								
1,1,2,2-Tetrachloro-Ethane								
Tetrachloro-Ethylene								
Toluene								
1,1,1-Trichloroethane								
1,1,2-Trichloroethane								
Trichlorethylene								
Vinyl Chloride								
Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer:								
Acid-Extractable Compounds								
P-Chloro-M-Cresol								
2-Chlorophenol								
2,4,-Dichlorophenol								
2,4-Dimethylphenol								
4,6-Dinitro-O-Cresol								
2,4-Dinitrophenol								
2-Nitrophenol								
4-Nitrophenol								
Pentachlorophenol								
Phenol								
2,4,6-Trichlorophenol								
Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer:								
Base-Neutral Compounds								
Acenaphthene								
Acenaphthylene								
Anthracene								
Benzidine								
Benzo(a)Anthracene								

Pollutant or Parameter	Maximum		Average		No. of Samples	Analytical Method	ML	Source of Estimate
	Concentration	Units	Concentration	Units				
Benzo(a)Pyrene								
3,4 Benzo-Fluoranthene								
Benzo(ghi)Perylene								
Benzo(k)Fluoranthene								
Bis (2-Chloroethoxy) Methane								
Bis (2-Chloroethyl)-Ether								
Bis (2-Chloroiso-Propyl) Ether								
Bis (2-Ethylhexyl) Phthalate								
4-Bromophenyl Phenyl Ether								
Butyl Benzyl Phthalate								
2-Chloronaphthalene								
4-Chlorophenyl Phenyl Ether								
Chrysene								
Di-N-Butyl Phthalate								
Di-N-Octyl Phthalate								
Dibenzo(A,H) Anthracene								
1,2-Dichlorobenzene								
1,3-Dichlorobenzene								
1,4-Dichlorobenzene								
3,3-Dichlorobenzidine								
Diethyl Phthalate								
Dimethyl Phthalate								
2,4-Dinitrotoluene								
2,6-Dinitrotoluene								
1,2-Diphenylhydrazine								
Fluoranthene								
Fluorene								
Hexachlorobenzene								
Hexachlorobutadiene								
Hexachlorocyclo-Pentadiene								
Hexachloroethane								
Indeno(1,2,3-CD)Pyrene								
Isophorone								
Naphthalene								
Nitrobenzene								
N-Nitrosodi-N-Propylamine								
N-Nitrosodi-Methylamine								
N-Nitrosodi-Phenylamine								
Phenanthrene								
Pyrene								
1,2,4-Trichlorobenzene								
Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer:								
Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer:								

Section O - Alternative Water Supply and Alternate Disposal

In the space provided below describe proposed measures to be taken to provide alternative water supplies, treatment and alternative disposal practices in the event any domestic, municipal, agricultural, or commercial/industrial well is adversely affected by the operation of the source.

Section P – Land Ownership

New sources or new applicants must submit a list of surface owners and leasees of land within 1 mile of the proposed source, as required by ARM 17.30.1023(4)(d).

CERTIFICATION

Section Q – Applicant Information: This application must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Applicants Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system or those persons directly responsible for gathering the information, it is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violation.

A. Applicant Name (Owner/Operator) *(Must be the same as Form 1)*

B. Name and Official Title (Type or Print)

C. Phone No.

D. Signature

E. Date Signed

INSTRUCTIONS FOR

Form GW2 – Ground Water Pollution Control System (MGWPCS)

Who Must File Form GW-2

Form GW-2 must be completed in conjunction with DEQ Form 1. This form may be used by facilities which discharge or propose to discharge industrial wastes, or other wastes, to ground water through infiltration, percolation or other methods of subsurface disposal. Your application will not be considered complete unless you have answered every question on this form and Form 1. If an item does not apply to you, enter “NA” (for ‘not applicable’) to show that you considered the question. If the applicant is providing supplemental information in fulfillment of the required information in this form, attach the material to the application and reference the material in the space provided.

The applicant shall keep records of all data used to complete permit applications and any supplemental information submitted under this application for a period of at least three years from the date the application is signed. ARM 17.30.1322(16)

Attaching Additional Information:

The applicant is required to provide the requested information in the space(s) provided. However, several sections of the application require the submittal of additional information, or for the applicant to attach additional information to clarify how the requested information was derived. Attachments should be clearly labeled as ‘Attachment X.Y’ where ‘X’ refers to the Section of the application where the material is requested, and ‘Y’ refers to the sequential number of the attachment determined by the applicant based on the number of attachments in a specific section.

For example: Section F states that additional sheets may be attached if necessary. This material would be labeled ‘Attachment F.1’, if included. A line drawing is also requested in this section (required material). This drawing should be labeled ‘Attachment F.2’, if supplemental treatment information is submitted or: ‘Attachment F.1’ if it is not submitted.

Section A - Facility/Site Information:

Enter Facility Name and other information as it appears on DEQ Form 1.

Section B - Application and Source Status:

Check the box that most accurately describes the category of the proposed permit application.

Section C - Outfall Location:

An outfall is the physical location where an effluent is discharged from the facility (disposal system). Provide the longitude and latitude to the nearest 15 seconds, and a brief description of the wastewater disposal method for each outfall. Outfalls should be numbered in consecutive order, starting with the lowest number. For example: 001, 002, 003 . . . See Section K for typical methods of disposal. List each outfall (drain field, infiltration unit, land application etc.) from which wastewater will be or is discharged.

Section D - Collection System information:

List all sources of wastewater to each outfall. Operations may be described in general terms (*for example, “dye-making reactor” or “distillation tower”*). You may estimate the flow contributed by each source if no data are available. For stormwater discharges you may estimate the average flow, but you must indicate the rainfall event upon which the estimate is based and the method of estimation. Include infiltration and inflow to the system.

Section E - Treatment System Capacity:

Provide the hydraulic design capacity of the treatment system. The design average flow is the average of the daily volumes to be received for a continuous 12-month period expressed as a volume per unit time (gallons per day). However, the design average flow for facilities having critical seasonal high hydraulic loading periods must be based on the daily average flow during the seasonal period. The design maximum day flow is the largest volume of flow to be received during a continuous 25-hour period expressed as a volume per unit time. For an existing system, provide the measured volume of wastewater contributed to the treatment system. List the type of flow measuring devices employed, manufacture and model of flow measurement device and the frequency at which it is calibrated. If no measurement device is employed, provide a description of how flows are estimated.

Section F - Treatment System Description:

Use the space provided to describe the treatment system or best management practice used to reduce pollutant loads prior to discharge. Also attach a line drawing showing the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. The water balance should show the design flow [Section E]. Show all significant losses of water to products, atmosphere, and discharge. An example of an acceptable line drawing appears in Figure 1 to these instructions.

Section G - Process Water or Waste Holding Ponds/Impoundments

ARM 17.30.1023(5) requires that the applicant provide specific information regarding the nature of any proposed or existing pond sealants and linings. If multiple ponds are located at this facility, copy this section and complete for each pond.

Section H - Engineering Reports:

Attach the requested information or describe in space provided. If no report(s) are available, check the applicable box.

Section I - Chemical Additions:

List all chemical(s), product(s) used in industrial process or facility maintenance. Attach additional pages where necessary. Submit a complete list of chemicals; include products used even on a temporary basis (Material Safety Data Sheets – MSDS – may be submitted in addition to the list).

Sections J, K, L, M must be completed for each outfall identified in Section C

Section J - Sludge:

Indicate how any sludge or treatment byproducts will be disposed. This includes screenings, grit, solids or semi-solid wastes.

Section K - Disposal System (Outfalls):

Indicate the method and frequency of discharge. A discharge is intermittent unless it occurs without interruption, except for infrequent shutdowns for maintenance, process changes or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year.

A mixing zone is a limited area of a surface water body or a portion of an aquifer where initial dilution of a discharge takes place and where water quality changes may occur and where certain water quality standards may be exceeded. A person applying for a mixing zone must specify the type of mixing zone and provide the applicable information required by the Department. Mixing zones are described in Title 17, Chapter 30, Subchapter 5 of the Administrative Rules of Montana (ARM). A mixing zone may or may not be granted by the Department based on the criteria established in this rule.

Section L - Ground Water Characteristics:

ARM 17.30.123(5)(a) requires that the applicant provide information describing the local groundwater characteristics. In the space provided, record the analytical results for the parameters listed for the (hydrogeological) ground water to which the discharge will be discharged (receiving water). Samples must be collected from an upgradient source (well) or from a portion of the receiving ground water unaffected by the discharge (for existing source). The upgradient well or other source must be within 1,000 feet of the disposal system and be representative of the first 15 feet of the saturated zone, unless otherwise approved by the Department. This approval must be in writing and submitted prior to submittal of the application. A minimum of three samples must be collected within the two year period prior to date of submittal of the application. Samples must be collected during separate calendar quarters (e.g. between January 1 and March 31, etc) and at least one sample collected during a quarter containing the seasonal high ground water level based on measurement of static water levels (SWL) in the vicinity of the source. Montana water use classifications are based on the natural specific conductance of the receiving water ARM 17.30.1005(4).

In the blank rows, provide additional information for any parameters for which the applicant is requesting a mixing zone (See ARM 17.30.501, et seq) or believes would provide useful information to characterize the receiving water.

The location of the wells or other source used to obtain this information must be shown on vicinity or site map requested in Section A. Attach copies of the analytical data sheets or other source of estimates information. Sample collection methods, sample preservation, and analytical methods must be in accordance with ARM 17.30.1007.

Section M - Local Hydrogeology and Mixing Zone Information:

ARM 17.30.1023(5) requires that the applicant provide a description of local hydrogeologic conditions; additional information is necessary if the discharges are requesting a mixing zone. Provide, at minimum, the required information for a standard mixing zone. If a source specific mixing zone is requested, the applicant must provide the information described in ARM 17.30.518 as an attachment to this application form.

Hydraulic gradient is a measure of the slope of the water table determined by the change in static head per unit distance in a given direction. Three applicable methods for acquiring this data are: static water elevations measured in onsite/near-site wells, published water table or potentiometric maps of the shallowest aquifer, or calculation of one-third of regional topographic slope. The most accurate method to determine the hydraulic gradient in a horizontal direction is to measure the static water elevations in a minimum of three wells in accordance with the following procedures:

A minimum of three wells (not oriented in a straight line in map view) will be required to define the plane of the ground water table. Each well will be screened in the same aquifer (i.e., shallowest ground water beneath the site) using the minimal length of screen (10 feet) plus any additional screen length to allow for seasonal ground water level fluctuations. The elevation of the measuring point of each well (top of casing) shall be surveyed to the nearest 0.01 foot. All static water levels shall be measured to the nearest 0.01 foot, on the same day to minimize the potential for variable external factors (e.g., weather, irrigation). The wells shall be located on a USGS topographic map or suitable scaled site map to construct the ground water flow map.

Section N - Effluent Characteristics:

All pollutant levels must be reported as concentration or as total mass (except for discharge flow, pH, specific conductance and temperature). Total mass is the total weight of pollutants discharged over a day. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/AC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Grab samples must be used for pH, temperature, total residual chlorine, oil and grease, and fecal coliform. For all other pollutants, 24-hour composite samples must be used. The applicant need not submit data which has been previously reported to the Department on discharge monitoring reports (DMRS). Any further questions on sampling or analysis should be directed to the Department.

All facilities must provide data for all parameters in the “Conventional” Pollutant/Parameter group. Facilities that discharge treated or untreated process wastewater must submit data for parameters listed in Pollutant/Parameter groups as indicated by Table 1. Process wastewater means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product. Facilities that discharge only non contact cooling water or blowdown wastewater are required to analyze for conventional pollutant and metals only.

1. Existing Sources

You are required to provide at least one analysis for each pollutant or parameter listed by filling in the requested information under the applicable column. Data reported must be representative of the facility’s current operation (average daily value over the previous 365 days should be reported). Do not include data which was collected more than 3 years from the submittal date of this application.

2. New Dischargers

You are required to provide an estimated maximum daily and average daily value for each pollutant or parameter (exceptions noted on the form). Please note that follow-up testing and reporting are required no later than 2 years after the facility starts to discharge. Sampling and analysis are not required at this time. If, however, data from such analyses are available, then such data should be reported. The source of the estimates is also required. Base your determination of whether a pollutant will be present in your discharge on your knowledge of the proposed facility’s use of maintenance chemicals, and any analyses of your effluent

or of any similar effluent. In providing the estimates, use the codes in the following table to indicate the source of such information.

<u>Engineering Study</u>	<u>Code</u>
Actual data from pilot plants	1
Estimates from other engineering studies	2
Data from other similar plants	3
Best professional estimates	4
Others	specify on the form

3. Testing Waiver

To request a waiver from reporting any of these pollutants or parameters, the applicant (whether a new or existing discharger) must submit to the Department a written request specifying which pollutants or parameters should be waived and the reasons for requesting a waiver. This request should be submitted to the Department before or with the permit application. The Department may waive the requirements for information about any pollutant or parameter if it determines that less stringent reporting requirements are adequate to support issuance of the permit.

Section O - Alternative Water Supply and Alternate Disposal:

ARM 17.30.1023(5)(c) requires that the applicant's proposed measures to be taken provide alternative water supplies or treatment in the event any domestic, municipal, agricultural, or commercial/industrial well is adversely affected by the operation of the source.

Section P - Land Ownership:

New sources or new applicants must submit a list of surface owners and leasees of land within 1 mile of the proposed source, as required by ARM 17.30.1023(4)(d).

Table 1 - Testing requirements for toxic pollutants by industry category

Industrial Category	GCMS fraction Pollutant/Parameter Group			
	Metals	Volatile	Acid-Extractable	Base-Neutral
Adhesives and Sealants		X	X	X
Aluminum forming	X	X	X	X
Auto and other laundries	X	X	X	X
Battery manufacturing	X	X		X
Coal mining	X			
Coil coating	X	X	X	X
Copper forming	X	X	X	X
Electric and electronic compounds	X	X	X	X
Electroplating	X	X	X	X
Explosives manufacturing			X	X
Foundries		X	X	X
Gum and wood		X	X	
Gum and wood tall oil rosin		X	X	X
Gum and wood rosin based derivatives		X	X	X
Inorganic chemicals manufacturing	X	X	X	X
Iron and steel manufacturing	X	X	X	X
Leather tanning and finishing	X	X	X	X
Mechanical products manufacturing	X	X	X	X
Nonferrous metal manufacturing	X	X	X	X
Ore mining (base metals and precious metals)	X		X	
Organic chemicals manufacturing	X	X	X	X
Paint and ink formulation		X	X	X
Pesticides	X	X	X	X
Petroleum refining	X	X	X	X
Pharmaceutical preparations		X	X	X
Photographic equipment and supplies	X	X	X	X
Plastic and synthetic materials manufacturing		X	X	X
Plastic processing		X		
Porcelain enameling				
Printing and Publishing	X	X	X	X
Pulp and paperboard mills	X	X	X	
Rubber processing		X	X	X
Soap and detergent manufacturing		X	X	X
Steam electric power plants	X	X	X	
Textile mills		X	X	X
Timber products processing	X	X	X	X

Figure 1 – Example of Line Drawing of Applicant’s Facility

