

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

AUTHORIZATION TO DISCHARGE UNDER THE MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with Montana Water Quality Act, Title 75, Chapter 5, Montana Code Annotated (MCA) and the Federal Water Pollution Control Act (the "Clean Water Act"), 33 U.S.C. § 1251 *et seq.*,

Paleo Search Inc.

is authorized to discharge from its **Paleo Search Inc. Suction Dredge Project**

located approximately $\frac{1}{2}$ mile below **Canyon Ferry Dam on Hauser Lake**

to five locations in receiving water named **Hauser Lake,**

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein. Authorization for discharge is limited to those outfalls specifically listed in the permit.

This permit shall become effective on May 1, 2018.

This permit and the authorization to discharge shall expire at midnight April 30, 2023.

FOR THE MONTANA DEPARTMENT OF
ENVIRONMENTAL QUALITY



Jon Kenning, Chief
Water Protection Bureau
Water Quality Division

Issuance Date: 3/27/2018

TABLE OF CONTENTS

Cover Sheet--Issuance and Expiration Dates

I.	EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS & OTHER CONDITIONS	3
A.	Description of Discharge Points and Mixing Zone	3
B.	Effluent Limitations	5
C.	Monitoring Requirements	6
D.	Special Conditions	10
II.	MONITORING, RECORDING AND REPORTING REQUIREMENTS	11
A.	Representative Sampling.....	11
B.	Monitoring Procedures.....	11
C.	Penalties for Tampering	11
D.	Reporting of Monitoring Results.....	11
E.	Compliance Schedules	11
F.	Additional Monitoring by the Permittee	11
G.	Records Contents	12
H.	Retention of Records.....	12
I.	Twenty-four Hour Notice of Noncompliance Reporting	12
J.	Other Noncompliance Reporting	13
K.	Inspection and Entry	13
III.	COMPLIANCE RESPONSIBILITIES	14
A.	Duty to Comply.....	14
B.	Penalties for Violations of Permit Conditions.....	14
C.	Need to Halt or Reduce Activity not a Defense	14
D.	Duty to Mitigate	14
E.	Proper Operation and Maintenance.....	14
F.	Removed Substances.....	15
G.	Bypass of Treatment Facilities.....	15
H.	Upset Conditions	16
I.	Toxic Pollutants	16
J.	Changes in Discharge of Toxic Substances	16
IV.	GENERAL REQUIREMENTS	18
A.	Planned Changes	18
B.	Anticipated Noncompliance	18
C.	Permit Actions.....	18
D.	Duty to Reapply	18
E.	Duty to Provide Information	18
F.	Other Information.....	18
G.	Signatory Requirements	18
H.	Penalties for Falsification of Reports.....	19
I.	Availability of Reports	20
J.	Oil and Hazardous Substance Liability	20
K.	Property Rights.....	20
L.	Severability	20
M.	Transfers.....	20
N.	Fees	20
O.	Reopener Provisions.....	21
V.	DEFINITIONS	22

I. EFFLUENT LIMITATIONS, MONITORING REQUIREMENTS & OTHER CONDITIONS

A. Description of Discharge Points and Mixing Zone

The authorization to discharge provided under this permit is limited to those outfalls specially designated below as discharge locations. Discharges at any location not authorized under an MPDES permit is a violation of the Montana Water Quality Act and could subject the person(s) responsible for such discharge to penalties under the Act. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge within a reasonable time from first learning of an unauthorized discharge could subject such person to criminal penalties as provided under Section 75-5-632 of the Montana Water Quality Act.

<u>Outfall</u>	<u>Description</u>
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001	Location: Composed of the three sluice boxes on the 8-inch suction dredge barge discharging into Hauser Lake at the following five locations:
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S-1: The length of the area is 1,800 feet and the width is 150 feet. The water depth in the area is approximately 16 - 18 feet. The project will be 20 feet from the bank on the west side of Hauser Lake across from Riverside Campground. The latitude is 46° 39' and the longitude is 111° 44', which is located in Township 10N Range 1W Section 4.

S-2: The length of the area is 2,500 feet and the width is 150 feet. The water depth in the area is approximately 16 - 30 feet. The project will be 20 feet from the bank on the west side of Hauser Lake up from Brown's Gulch. The latitude is 46° 39' and the longitude is 111° 46' which is located in Township 10N Range 1W Sections 5 and 6.

S-3: The length of the area is 2,250 feet and the width is 150 feet. The water depth in the area is approximately 16 - 23 feet. The project will be 20 feet from the bank on the west side of Hauser Lake and is 600 feet up from Spokane Creek Bay. The latitude is 46° 39' 15" and the longitude is 111° 47' 45" which is located in Township 10N Range 2W Section 1 and Township 11N Range 2W Section 36.

S-4: The length of the area is 6,500 feet and the width is 600-800 feet. The water depth in the area is approximately 26 feet. The project will be 10 - 20 feet from the bank on the east side of Hauser Lake and goes from Devil's Elbow up to Metropolitan bar. The latitude is 46° 41' 30" and the longitude is 111° 48' 45" which is located in Township 11N Range 2W Sections 23, 24, and 26.

S-5: The length of the area is 650 feet and the width is 125 feet. The water depth in the area is approximately 30 - 50 feet. The project will be 35 feet from the bank on the east side of Hauser Lake and is outside of the Trout Creek bay. The latitude is 46° 42' 45" and the longitude is 111° 48' 30" which is located in Township 11N Range 2W Section 13.

Mixing Zone: The maximum extent of the mixing zone in Hauser Lake for turbidity is 500 feet directly downstream from the 8-inch suction dredge barge.

Treatment Works: none

002

Location: At the end of the three discharge structures (dump chutes) on the 16-inch suction dredge barge discharging into Hauser Lake at the following five locations:

S-1: The length of the area is 1,800 feet and the width is 150 feet. The water depth in the area is approximately 16 - 18 feet. The project will be 20 feet from the bank on the west side of Hauser Lake across from Riverside Campground. The latitude is 46° 39' and the longitude is 111° 44', which is located in Township 10N Range 1W Section 4.

S-2: The length of the area is 2,500 feet and the width is 150 feet. The water depth in the area is approximately 16 - 30 feet. The project will be 20 feet from the bank on the west side of Hauser Lake up from Brown's Gulch. The latitude is 46° 39' and the longitude is 111° 46' which is located in Township 10N Range 1W Sections 5 and 6.

S-3: The length of the area is 2,250 feet and the width is 150 feet. The water depth in the area is approximately 16 - 23 feet. The project will be 20 feet from the bank on the west side of Hauser Lake and is 600 feet up from Spokane Creek Bay. The latitude is 46° 39' 15" and the longitude is 111° 47' 45" which is located in Township 10N Range 2W Section 1 and Township 11N Range 2W Section 36.

S-4: The length of the area is 6,500 feet and the width is 600-800 feet. The water depth in the area is approximately 26 feet. The project will be 10 - 20 feet from the bank on the east side of Hauser Lake and goes from Devil's Elbow up to Metropolitan bar. The latitude is 46° 41' 30" and the longitude is 111° 48' 45" which is located in Township 11N Range 2W Sections 23, 24, and 26.

S-5: The length of the area is 650 feet and the width is 125 feet. The water depth in the area is approximately 30 - 50 feet. The project will be 35 feet from the bank on the east side of Hauser Lake and is outside of the Trout Creek bay. The latitude is 46° 42' 45" and the longitude is 111° 48' 30" which is located in Township 11N Range 2W Section 13.

Mixing Zone: The maximum extent of the mixing zone in Hauser Lake for turbidity is 500 feet directly downstream from the 16-inch suction dredge barge.

Treatment Works: none

B. Effluent Limitations

Outfall 001 and Outfall 002

Beginning on the effective date of the permit and lasting through the term of the permit, the quality of effluent discharged by the facility shall, as a minimum, meet the limitations as set forth below:

Table 1: Final Effluent Limits				
Parameter	Units	Effluent Limitations ⁽¹⁾		
		Average Monthly Limit	Average Weekly Limit	Maximum Daily Limit
Turbidity ⁽²⁾⁽³⁾	NTU	--	5 NTU increase above naturally occurring turbidity	--
Oil and Grease	mg/L	--	--	10
Footnotes: (1) See definitions in the permit. (2) Compliance with the turbidity limit shall be determined based upon the weekly average difference between the upstream turbidity value and the downstream turbidity value, collected at the downstream end of the 500 foot mixing zone, during a period of facility discharge. (3) If the turbidity limit is exceeded, Paleo Search must cease discharging and make operations changes to reduce turbidity and comply with the turbidity limit.				

There shall be no discharge which causes visible oil sheen in the receiving stream.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

C. Monitoring Requirements

Outfall 001 and Outfall 002

All analytical procedures must comply with the specifications of 40 CFR Part 136. Samples shall be collected, preserved and analyzed in accordance with approved procedures listed in 40 CFR 136. Starting with the effective date of the permit and lasting for the duration of the permit cycle, self-monitoring of effluent discharged at Outfalls 001 and 002 shall be conducted at the discharge structure and samples will reflect the volume and nature of the monitored discharge.

1. Effluent Monitoring

a. **Outfall 001 - 8-inch Suction Dredge**

To obtain representative effluent samples, equal volumes of effluent must be obtained from the three discharge structures and combined before sample parameters are analyzed.

b. **Outfall 002 - 16-inch Suction Dredge**

To obtain representative effluent samples, equal volumes of effluent must be obtained from the three discharge structures and combined before sample parameters are analyzed.

c. Flow

The average daily flow of the suction dredge must be estimated using the manufacturer's pump capacity or pump curves for each dredge. The average daily flow, maximum flow and number of hours the pump operates each day must be recorded in the logbook.

2. Receiving stream (Hauser Lake) monitoring

a. Upstream receiving water

Upstream receiving water samples must be obtained within 4 inches of the water surface of Hauser Lake at the front (or side) of the barge away from divers supplied air bubbles.

b. Downstream receiving water

The downstream turbidity sample shall be collected and analyzed as a composite of three equal volumes of the downstream receiving water. The samples must be obtained within 4 inches of the water surface of Hauser Lake,

no more than 500 feet downstream from the barge, while the facility is discharging.

3. Estimating cubic yards of raw material (gravel, cobbles and rocks)

The diver operating the suction dredge intake must mark the starting point where dredging will occur each day. After completing suction dredging each day, the diver must estimate the length and width (in feet) of the area and estimate the average depth (in feet) of raw material dredged. Multiply the length times the width of the area dredged times the average depth of raw material to calculate cubic feet of raw material dredged. Divide the number of cubic feet of material by 27 to calculate the total number of cubic yards of material dredged each day. Multiply the number of cubic yards dredged by 1.4 tons per cubic yard to calculate the number of tons of raw material processed. Record the cubic yards and tons of raw material dredged each day in the logbook. Total the tons of raw material dredged each month and report on the DMR form.

Table 2: Monitoring and Reporting Requirements						
Parameter	Monitoring Location	Units	Sample Type ⁽¹⁾	Minimum Sample Frequency	Reporting Metric	Required Reporting Value
Turbidity	Upstream	NTU	Grab	Daily	Daily Minimum	NA
Turbidity	Downstream	NTU	Composite ⁽²⁾	Daily	Daily Maximum	NA
Net Turbidity ⁽³⁾	Net Turbidity	NTU	Calculated	Daily	Maximum Weekly Average	NA
Flow	Effluent	mgd	Calculated	Daily	Maximum Daily and Monthly Average	NA
Oil and Grease ⁽⁴⁾	Effluent	mg/L	Visual / Grab	Daily	Daily Maximum	NA
Total tons of raw material processed ⁽⁵⁾	Intake	Tons/Day	Calculated	Daily	Maximum Weekly Average and Monthly Average	0
Whole Effluent Toxicity Testing, acute	Effluent	% Effluent	Composite ⁽⁶⁾	Semi-Annual	Pass/Fail	---

Footnotes: NA=Not applicable

(1) See definition section at end of permit for explanation of terms.

(2) A composite sample for downstream turbidity sampling shall consist of three equal volumes of the downstream receiving water.

(3) Net turbidity is calculated by subtracting the upstream turbidity value measured at the front of the barge from the turbidity value measured in the receiving stream at the downstream end of the 500-foot mixing zone [Turbidity at the end of the downstream 500-foot mixing zone (Downstream) - Turbidity in receiving water at the front of barge (Upstream) = Net turbidity].

(4) If a visual examination of the effluent indicates the presence of hydrocarbons, by sheen, odor or other sign, the permittee must stop operations, eliminate the source and is required to collect a sample for Oil and Grease and analyze it using EPA Method 1664A or equivalent.

(5) The total tons of raw material processed each day must be calculated using the method described in Section VI.C and recorded in the daily logbook. The total tons of raw material processed each month must be reported on the DMR.

(6) Conduct composite sampling for whole effluent toxicity testing as defined in Section V.8 of this permit.

4. Whole Effluent Toxicity Testing – Acute Toxicity

Starting in the first semi-annual period following the effective date of the permit, the permittee shall conduct an acute static replacement toxicity test on a composite sample of the effluent in accordance with the above monitoring table. Testing will employ two species and will consist of five effluent concentrations (100, 50, 25, 12.5, and 6.25 percent effluent) and a control. Dilution water and the control shall consist of the receiving water.

The static renewal WET tests shall be conducted in general accordance with the procedures set out in the latest revision of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA

821/R-02/012) and the *Region VIII EPA NPDES Acute Test Conditions - Static Renewal Whole Effluent Toxicity Test*. The permittee shall conduct an acute 48-hour static renewal toxicity test using *Ceriodaphnia dubia* and an acute 96-hour static renewal toxicity test using fathead minnows (*Pimephales promelas*). Test solutions must be renewed every 24 hours. The control of pH in the WET test utilizing CO₂ enriched atmospheres is allowed to prevent rising pH drift. The target pH selected must represent the pH value of the receiving water at the time of sample collection.

Acute toxicity occurs when 50 percent or more mortality is observed for either test species at any effluent concentration. If more than 10 percent control mortality occurs, the test is considered invalid and shall be repeated until satisfactory control survival is achieved, unless a specific individual exception is granted by DEQ. This exception may be granted if less than 10 percent mortality was observed at the dilutions containing high effluent concentrations.

If acute toxicity occurs in a routine test, resampling for an additional test (a resample test) shall be conducted within 14 days of the date the permittee is informed of the test failure. If acute toxicity occurs in the resample test, then the permittee is required to:

- a. Increase the WET testing frequency from semi-annual to quarterly until further notified by DEQ; and
- b. Undertake a Toxicity Identification Evaluation /Toxicity Reduction Evaluation.

In all cases, the results of all WET tests must be submitted to DEQ in accordance with Part II of this permit.

The WET test results from the laboratory shall be reported along with the DMR submitted for the end of the reporting period (e.g., the WET test results for the reporting period ending on June 30th shall be reported with the June DMR due July 28th; the remaining WET test results shall be submitted with the December DMR respectively). The format for the laboratory report shall be consistent with the latest revision of the *Region VIII Guidance for Acute Whole Effluent Reporting* and shall include all chemical and physical data as specified.

If the results for four consecutive semi-annual periods of WET testing indicate no acute toxicity, the permittee may request a reduction to annual acute WET testing for the two species. DEQ may approve or deny the request based on the results and other available information without an additional public notice. If the request is approved, the test procedures are to be the same as specified above for the test species.

D. Special Conditions

1. Best Management Practices

The permittee shall develop, maintain and implement a Best Management Plan for fuel storage, handling, and transportation. The Plan must address spill responses and shall be updated as necessary to incorporate changes in fuel storage, handling, and transportation procedures. A copy of the plan must be located at the facility and the plan must be available to DEQ during inspections.

No chemical addition for the enhancement of gold, sapphires or mineral recovery is allowed in any operation covered under this permit.

Dredging of concentrated silt and clay shall be avoided. The permittee must use reasonable care to avoid dredging silt and clay materials that would result in a significant increase in turbidity or other pollutants. Reasonable care includes moving the dredge to a new location or reducing the volume of effluent discharge by limiting the pumping rate of the suction dredge.

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

A. Representative Sampling

Samples taken in compliance with the monitoring requirements established under Part I of the permit shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge.

B. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under Part 136, Title 40 of the Code of Federal Regulations, unless other test procedures have been specified in this permit. All flow-measuring and flow-recording devices used in obtaining data submitted in self-monitoring reports must indicate values within 10 percent of the actual flow being measured.

C. Penalties for Tampering

The Montana Water Quality Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six months, or by both.

D. Reporting of Monitoring Results

Monitoring results must be reported within a Discharge Monitoring Report (DMR). Monitoring results must be submitted electronically (NetDMR web-based application) no later than the 28th day of the month following the end of the monitoring period. If no discharge occurs during the reporting period, "No Discharge" must be reported within the respective DMR. All other reports must be signed and certified in accordance with Part IV.G 'Signatory Requirements' of this permit and submitted to the Department at the following address:

Montana Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, Montana 59620-0901
Phone: (406) 444-3080

E. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using approved analytical methods as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report. Such increased frequency shall also be indicated.

G. Records Contents

Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The initials or name(s) of the individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The time analyses were initiated;
5. The initials or name(s) of individual(s) who performed the analyses;
6. References and written procedures, when available, for the analytical techniques or methods used; and
7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

H. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time. Data collected on site, copies of Discharge Monitoring Reports, and a copy of this MPDES permit must be maintained on site during the duration of activity at the permitted location.

I. Twenty-four Hour Notice of Noncompliance Reporting

1. The permittee shall report any serious incidents of noncompliance as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of the circumstances. The report shall be made to the Water Protection Bureau at (406) 444-3080 or the Office of Disaster and Emergency Services at (406) 324-4777. The following examples are considered serious incidents:
 - a. Any noncompliance which may seriously endanger health or the environment;
 - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See Part III.G of this permit, "Bypass of Treatment Facilities"); or

- c. Any upset which exceeds any effluent limitation in the permit (see Part III.H of this permit, "Upset Conditions").
2. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. a description of the noncompliance and its cause;
 - b. the period of noncompliance, including exact dates and times;
 - c. the estimated time noncompliance is expected to continue if it has not been corrected; and
 - d. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
3. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Protection Bureau, by phone, (406) 444-3080.
4. Reports shall be submitted to the addresses in Part II.D of this permit, "Reporting of Monitoring Results".

J. Other Noncompliance Reporting

Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for Part II.D of this permit are submitted. The reports shall contain the information listed in Part II.I.2 of this permit.

K. Inspection and Entry

The permittee shall allow the head of the Department or the Director, or an authorized representative thereof, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance, any substances or parameters at any location.

III. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give the Department or the Regional Administrator advance notice of any planned changes at the permitted facility or of an activity which may result in permit noncompliance.

B. Penalties for Violations of Permit Conditions

The Montana Water Quality Act provides that any person who violates a permit condition of the Act is subject to civil or criminal penalties not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions of the Act is subject to a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than 2 years, or both, for subsequent convictions. MCA 75-5-611(a) also provides for administrative penalties not to exceed \$10,000 for each day of violation and up to a maximum not to exceed \$100,000 for any related series of violations. Except as provided in permit conditions on Part III.G of this permit, "Bypass of Treatment Facilities" and Part III.H of this permit, "Upset Conditions", nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. However, the permittee shall operate, as a minimum, one complete set of each main line unit treatment process whether or not this process is needed to achieve permit effluent compliance.

F. Removed Substances

Collected screenings, grit, solids, sludges, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard.

G. Bypass of Treatment Facilities

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.G.2 and III.G.3 of this permit.

2. Notice:

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part II.I of this permit, "Twenty-four Hour Reporting".

3. Prohibition of bypass:

a. Bypass is prohibited and the Department may take enforcement action against a permittee for a bypass, unless:

1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3) The permittee submitted notices as required under Part III.G.2 of this permit.

b. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part III.G.3.a of this permit.

H. Upset Conditions

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part III.H.2 of this permit are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review (i.e. Permittees will have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with technology-based permit effluent limitations).
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under Part II.I of this permit, "Twenty-four Hour Notice of Noncompliance Reporting"; and
 - d. The permittee complied with any remedial measures required under Part III.D of this permit, "Duty to Mitigate".
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

I. Toxic Pollutants

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

J. Changes in Discharge of Toxic Substances

Notification shall be provided to the Department as soon as the permittee knows of, or has reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. One hundred micrograms per liter (100 µg/L);

- b. Two hundred micrograms per liter (200 $\mu\text{g/L}$) for acrolein and acrylonitrile; five hundred micrograms per liter (500 $\mu\text{g/L}$) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - d. The level established by the Department in accordance with 40 CFR 122.44(f).
2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
- a. Five hundred micrograms per liter (500 $\mu\text{g/L}$);
 - b. One milligram per liter (1 mg/L) for antimony;
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - d. The level established by the Department in accordance with 40 CFR 122.44(f).

IV. GENERAL REQUIREMENTS

A. Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutant discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit.

B. Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

C. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application must be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for revoking, modifying and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

F. Other Information

When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Department, it shall promptly submit such facts or information with a narrative explanation of the circumstances of the omission or incorrect submittal and why they weren't supplied earlier.

G. Signatory Requirements

All applications, reports or information submitted to the Department or the EPA shall be signed and certified.

1. All permit applications shall be signed as follows:

a. For a corporation: by a responsible corporate officer;

- b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
 - c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
2. All reports required by the permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is considered a duly authorized representative only if:
- a. The authorization is made in writing by a person described above and submitted to the Department; and
 - b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or an individual occupying a named position.)
3. Changes to authorization. If an authorization under Part IV.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part IV.G.2 of this permit must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make 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 person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted 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 violations.”

H. Penalties for Falsification of Reports

The Montana Water Quality Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document

submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$25,000 per violation, or by imprisonment for not more than six months per violation, or by both.

I. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by the Clean Water Act, permit applications, permits and effluent data shall not be considered confidential.

J. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

K. Property Rights

The issuance of this permit does not convey any property of any sort, or any exclusive privileges.

L. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers

This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Department at least 30 days in advance of the proposed transfer date;
2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them;
3. The Department does not notify the existing permittee and the proposed new permittee of an intent to revoke or modify and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part IV.M.2 of this permit; and
4. Required annual and application fees have been paid.

N. Fees

The permittee is required to submit payment of an annual fee as set forth in ARM 17.30.201. If the permittee fails to pay the annual fee within 90 days after the due date for the payment, the Department may:

1. Impose an additional assessment consisting of 15% of the fee plus interest on the required fee computed at the rate established under 15-31-510(3), MCA, or
2. Suspend the processing of the application for a permit or authorization or, if the nonpayment involves an annual permit fee, suspend the permit, certificate or authorization for which the fee is required. The Department may lift suspension at any time up to one year after the suspension occurs if the holder has paid all outstanding fees, including all penalties, assessments and interest imposed under this sub-section. Suspensions are limited to one year, after which the permit will be terminated.

O. Reopener Provisions

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary), or other appropriate requirements if one or more of the following events occurs:

1. **Water Quality Standards:** The water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
2. **Water Quality Standards are Exceeded:** If it is found that water quality standards or trigger values in the receiving stream are exceeded either for parameters included in the permit or others, the department may modify the effluent limits or water management plan.
3. **TMDL or Wasteload Allocation:** TMDL requirements or a wasteload allocation is developed and approved by the Department and/or EPA for incorporation in this permit.
4. **Water Quality Management Plan:** A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit.
5. **Toxic Pollutants:** A toxic standard or prohibition is established under Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit.

V. DEFINITIONS

1. **“Act”** means the Montana Water Quality Act, Title 75, chapter 5, MCA.
2. **“Administrator”** means the administrator of the United States Environmental Protection Agency.
3. **“Acute Toxicity”** occurs when 50 percent or more mortality is observed for either species (See Part I.C of this permit) at any effluent concentration. Mortality in the control must simultaneously be 10 percent or less for the effluent results to be considered valid.
4. **“Arithmetic Mean” or “Arithmetic Average”** for any set of related values means the summation of the individual values divided by the number of individual values.
5. **“Average Monthly Limitation”** means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
6. **“Bypass”** means the intentional diversion of waste streams from any portion of a treatment facility.
7. **“Chronic Toxicity”** means when the survival, growth, or reproduction, as applicable, for either test species, at the effluent dilution(s) designated in this permit (see Part I.C.), is significantly less (at the 95 percent confidence level) than that observed for the control specimens.
8. **“Composite samples”** shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
 - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
 - c. Constant sample volume, time interval between samples proportional to flow (i.e. sample taken every “X” gallons of flow); and,
 - d. Continuous collection of sample, with sample collection rate proportional to flow rate.

9. **"Daily Discharge"** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
10. **"Daily Maximum Limit"** means the maximum allowable discharge of a pollutant during a calendar day. Expressed as units of mass, the daily discharge is cumulative mass discharged over the course of the day. Expressed as a concentration, it is the arithmetic average of all measurements taken that day.
11. **"Department"** means the Montana Department of Environmental Quality (MDEQ). Established by 2-15-3501, MCA.
12. **"Director"** means the Director of the Montana Department of Environmental Quality.
13. **"Discharge"** means the injection, deposit, dumping, spilling, leaking, placing, or failing to remove any pollutant so that it or any constituent thereof may enter into state waters, including ground water.
14. **"EPA"** means the United States Environmental Protection Agency.
15. **"Federal Clean Water Act"** means the federal legislation at 33 USC 1251, *et seq.*
16. **"Grab Sample"** means a sample which is taken from a waste stream on a one-time basis without consideration of flow rate of the effluent or without consideration for time.
17. **"Instantaneous Maximum Limit"** means the maximum allowable concentration of a pollutant determined from the analysis of any discrete or composite sample collected, independent of the flow rate and the duration of the sampling event.
18. **"Instantaneous Measurement"**, for monitoring requirements, means a single reading, observation, or measurement.
19. **"Minimum Level"** (ML) of quantitation means the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte, as determined by the procedure set forth at 40 CFR 136. In most cases the ML is equivalent to the Required Reporting Value (RRV) unless otherwise specified in the permit. (ARM 17.30.702(22))
19. **"Mixing zone"** means a limited area of a surface water body or aquifer where initial dilution of a discharge takes place and where certain water quality standards may be exceeded.

20. **"Nondegradation"** means the prevention of a significant change in water quality that lowers the quality of high-quality water for one or more parameters. Also, the prohibition of any increase in discharge that exceeds the limits established under or determined from a permit or approval issued by the Department prior to April 29, 1993.
21. **"Regional Administrator"** means the administrator of Region VIII of EPA, which has jurisdiction over federal water pollution control activities in the state of Montana.
22. **"Severe property damage"** means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
23. **"TIE"** means a toxicity identification evaluation.
24. **"TMDL"** means the total maximum daily load limitation of a parameter, representing the estimated assimilative capacity for a water body before other designated uses are adversely affected. Mathematically, it is the sum of wasteload allocations for point sources, load allocations for non-point and natural background sources, and a margin of safety.
25. **"TRE"** means a toxicity reduction evaluation.
26. **"TSS"** means the pollutant parameter total suspended solids.
27. **"Upset"** means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.