

# Corrective Action Plan #34969

**Noon's #436**  
**1420 First Avenue East**  
**Kalispell, MT 59901**  
**Facility ID# 15-02331, Release# 4393, WPID# 34969**

**Prepared for:**

**Hi-Noon Petroleum**  
**1420 1<sup>st</sup> Avenue East**  
**Kalispell, MT 59901**

**Prepared by:**

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**January 3, 2024**  
**WCEC Project No. 10-7544-70**

# WCEC

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Environmental



Emergency Response



Industrial Services

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## **1.0 Introduction**

West Central Environmental Consultants (WCEC) has prepared this Corrective Action Plan (CAP) for monitoring well abandonment at the former Noon's #436 (Facility ID# 15-02331, Release# 4393) as requested by the Montana Department of Environmental Quality (MTDEQ) in the letter dated November 14, 2024. The facility is located at 1420 First Avenue East, Kalispell, Montana [Figure 1].

### **1.1 Site Location**

The Noon's #436 facility is located at 1420 First Avenue East in Kalispell, Montana. A site location map is included as Figure 1 and a current site details map is included as Figure 2. The Public Land Survey System (PLSS) description for the site is the NW/4, SW/4, SW/4 of Section 17, T28N, R21W. The approximate geographic coordinates are Latitude 48.18526°, Longitude -114.30772°. Township, range, and section information was obtained using the United States Geological Survey (USGS) Kalispell, Montana 1:24,000 Quadrangle. The site is located within the Flathead Lake Hydrologic Unit.

## **2.0 Scope of Work**

### **2.1 Scope of Work**

The scope of work requested by the MTDEQ consists of:

- Complete a DEQ AC-08 form indicating you elect to maintain or abandon wells according to Montana Department of Natural Resources and Conservation (DNRC) regulations<sup>1</sup>.
- Submit a letter report that includes a description of the well abandonment method and a copy of the well abandonment form for each well abandoned.
- The letter report must be submitted to DEQ within 30 days of well abandonment and a copy submitted to DNRC according to their regulations.
- Use standardized DEQ WP and report formats found under the Forms dropdown at the Petroleum Tank Cleanup Section (PTCS) webpage<sup>2</sup>.
- Submit WP and reports electronically following the PTCS submittal requirements found online under the Guidance dropdown at the PTCS webpage<sup>2</sup>.

## **2.2 Monitoring Well Abandonment**

WCEC will complete monitoring well abandonment of MW-1R, MW-4R, MW-5R, MW6, MW7, and MW8. The monitoring well will be abandoned in accordance with ARM 36.21.810 and the Montana Board of Water Well Contractors requirements. If possible, the casing will be completely removed from the ground. The abandoned well will be completely filled with bentonite sealing material to within 6 inches of the ground surface, with any remaining void space filled with concrete to match the current grade of the paved surface. If the casing cannot be completely removed from the ground, it will be cut off at least 3 feet below the ground surface.

Details regarding monitoring well abandonment will be recorded for each well for preparation and submittal of monitoring well abandonment logs. Monitoring well abandonment will be overseen by WCEC's DNRC licensed well driller. All abandonment logs will be submitted to the DNRC within 30 days of well abandonment and abandonment logs will be included as an appendix to the well abandonment report.

## **2.3 Report Preparation**

WCEC will prepare and submit a monitoring well abandonment report following the completion of work detailed in this work plan. This letter report will include the date of monitoring well abandonment, method of abandonment, maps depicting the location of the former monitoring wells, and copies of the monitoring well abandonment forms submitted to the Montana DNRC. It is anticipated that the monitoring well abandonment will be completed in March or April of 2025.

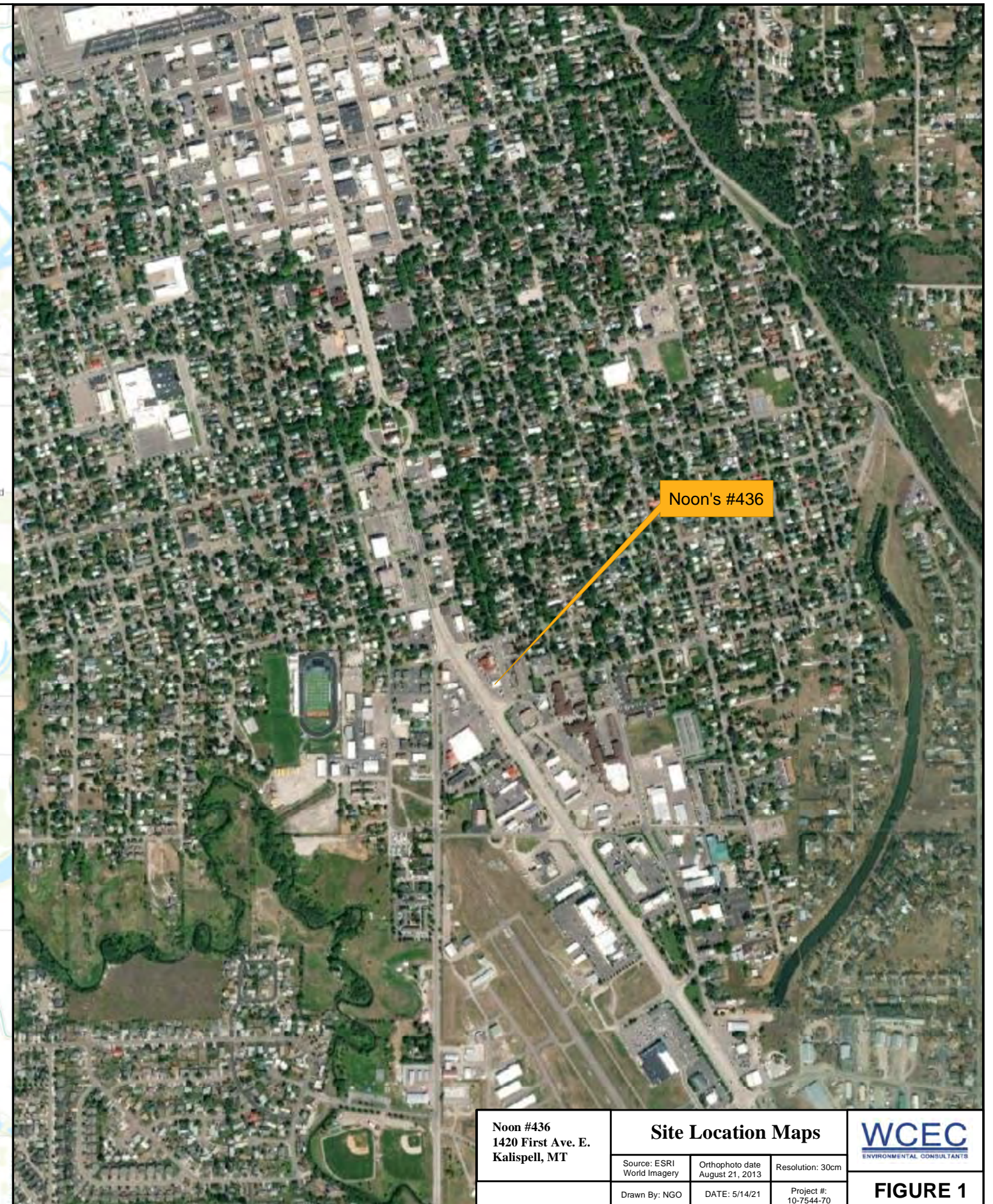
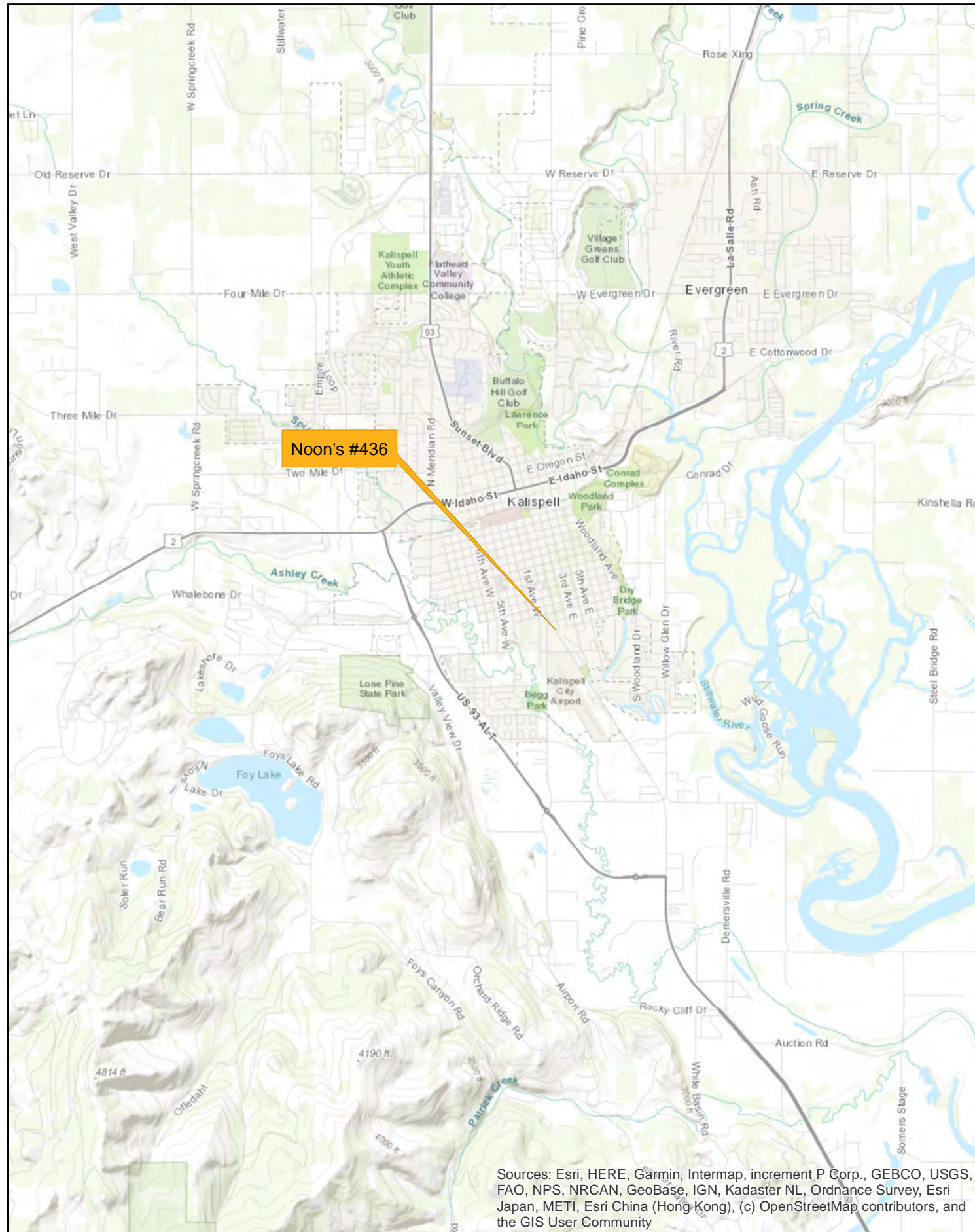
### **3.0 Time Line and Costs**

The attached *Estimated Cost Spreadsheet – Corrective Action Plan 34969* is based on typical project costs to complete the MTDEQ required scope of work. Three subcontractor bids are included with the estimated cost sheet. The scope of work outlined in this work plan will be conducted following approval of the MTDEQ. It is anticipated that this work will be completed in March or April of 2025.

## List of Figures

Figure 1: Site Location Maps

Figure 2: Site Details Map



<b>Noon #436</b> 1420 First Ave. E. Kalispell, MT	<b>Site Location Maps</b>			
	Source: ESRI World Imagery	Orthophoto date August 21, 2013	Resolution: 30cm	
Drawn By: NGO	DATE: 5/14/21	Project #: 10-7544-70	<b>FIGURE 1</b>	





MW-7

MW-1R



MW-6

MW-8

MW-4R

MW-5R

**Legend**

-  Monitoring Well
-  Petrofix Injection



Feet 1 in = 15 ft



Noon's #436  
 1420 First Ave E  
 Kalispell, MT 59901

**Site Details Map**



**FIGURE 2**

JOB NO.: 10-7544-70    DATE: 05/13/24    DRAWN BY: TCP    IMAGE SOURCE: ESRI

**Corrective Action Plan 34969**

Noon's #436

Kalispell, MT

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## **DEQ AC-08 Monitoring Well Abandonment Work Plan and Budget Format Sheet**



AC-08
MONITORING WELL ABANDONMENT WORK PLAN
and BUDGET FORMAT

This Monitoring Well Abandonment Work Plan (WP) is for the routine abandonment of monitoring wells no longer needed for petroleum release investigation or cleanup, or needed by the owner/operator for their own purposes. Monitoring wells to which this WP applies include groundwater monitoring wells, soil vapor extraction wells, recovery wells, observation wells, sparge/injection wells, and piezometers.

Administrative Rules of Montana (ARM) 36.21.810 sets forth the legal requirements for properly abandoning monitoring wells. ARM 36.21.810 is attached and may be found at the following Internet address: http://www.mtrules.org/gateway/RuleNo.asp?RN=36.21.810.

Return this WP to: Petroleum Tank Cleanup Section, Montana Department of Environmental Quality, P.O. Box 200901, Helena, MT 59620-0901. Please note that incomplete and/or unsigned WPs will be returned and may delay processing of claims submitted to the Petroleum Tank Release Compensation Board.

Facility Name Noon's 436 Facility ID# Facility ID 15-02331 Release # 4393
Facility Address 1420 1st Avenue East, Kalispell, Flathead County, Montana
Owner/Operator Name Hi-Noon Petroleum
Owner/Operator mailing address, if different from above: PO Box 7578 Missoula, MT 59807

Consultant's name, address, and phone number: WCEC, 1030 South Ave. W., Missoula, MT 59804
Nathan Olson 406-549-8487

List monitoring wells by name and number to be abandoned: MW-1R, MW-4R, MW-5R, MW6, and MW7

List monitoring wells by name and number to be maintained: No wells will be maintained

Specify the method by which the monitoring wells will be abandoned: Casing will be removed from ground with void space filled from bottom of well to 6 inches below grade. Surface patch with concrete.

Target date for abandonment of the monitoring well(s): March 31, 2025

Unit cost per monitoring well for abandonment (include mobilization, Portland cement, grout or bentonite, equipment, and consultant or contractor labor costs): \$ /well \$ /ft

Total cost of abandoning the above-listed monitoring wells: \$ See attached

\*\*\*\*\*

I elect to maintain the monitoring wells located at the above-referenced Facility and will monitor the wells at least every three years and in accordance with applicable requirements of the Montana Department of Natural Resources & Conservation Division.

I elect to abandon the monitoring wells located at the above-referenced Facility and certify that the above-referenced monitoring wells are to be properly abandoned in accordance with the provisions ARM 36.21.810 and other applicable requirements of the Montana Department of Natural Resources & Conservation Division.

(Signature of Facility owner or operator or authorized representative)

01/02/2025
(date)

## 36.21.810 ABANDONMENT

(1) Wells which have not been monitored for more than three years shall be deemed abandoned unless written permission is obtained from the board to maintain the well.

(2) Monitoring wells that have outlived their useful purpose shall be abandoned by one of the following methods:

(a) if the casing and screen are left in place, the casing and screen shall be sealed from the bottom up by the following methods:

(i) using a pump and hose or tremie pipe to conduct the sealing material to the bottom of the well; or

(ii) by filling the casing and screen with bentonite pellets or chips placed in a manner that will prevent bridging. Metal casings shall be cut off three feet below the ground surface and the last three feet backfilled with naturally occurring soils;

(b) the department recommends that the casing be removed in all possible instances. If the casing and/or screen are removed, the hole shall be filled with sealing material, concrete, or bentonite pellets or chips from the bottom up, as the casing and/or screen is removed. From six to three feet from the surface, bentonite shall be added to the well. The last three feet shall be filled with naturally occurring soils;

(c) the sealing material shall be bentonite pellets or chips, bentonite clay grout, neat cement grout, or concrete. The material may contain nonbiodegradable fluidizing admixtures, provided they will not contaminate the groundwater. Sealing materials which settle shall be topped to provide a continuous column of grout to within three feet of the surface; or

(d) other methods for abandonment with prior board approval.

(3) For flowing wells, the abandonment procedures outlined in ARM [36.21.671](#) shall apply.

(4) A properly abandoned well shall not produce water nor serve as a channel for movement of water.

(5) A water well log report, fully describing all abandonment procedures, shall be submitted to the Ground Water Information Center (GWIC) of the MBMG within 60 days of abandoning the well.

History: [37-43-202](#), MCA; [IMP, 37-43-202](#), MCA; [NEW](#), 1990 MAR p. 739, Eff. 4/13/90; [AMD](#), 1991 MAR p. 913, Eff. 6/14/91; [AMD](#), 1997 MAR p. 65, Eff. 1/17/97; [AMD](#), 2010 MAR p. 1614, Eff. 7/16/10.

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For additional information or requirements for abandoning or maintaining monitoring wells, please contact the Montana Department of Natural Resources & Conservation, Board of Water Well Contractors at (406) 444-6643.