2016/2017 (Final) Activities
Scope of Work
New World Mining District
Response and Restoration Project

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PRESENTED TO

USDA Forest Service
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1.0 INTRODUCTION

Tasks completed in conjunction with response and restoration activities for the New World Mining District Response and Restoration Project in Park County, Montana (**Figure 1**) are described in annual work plans prepared between 1999 and 2010 (Maxim, 1999; 2000; 2001; 2002; 2003; 2004; 2005; 2006a; Tetra Tech 2007, 2008, 2009a, 2010).

Following completion of the response and restoration phase of the project, a Site-Wide Long-Term Operations and Maintenance Plan (Tetra Tech, 2012) was prepared. This plan describes annual monitoring tasks that will be completed to evaluate water quality conditions and to determine whether additional maintenance of reclaimed sites and the repository is needed, and estimated costs of site-wide monitoring and maintenance. This long-term operations and maintenance plan for the project began in 2012 after reclamation actions were complete and covers activities that will occur for the following 20 years (through 2032). This Plan is intended to modify the Overall Work Plan (Maxim, 1999), and the Repository Monitoring Plan (Maxim, 2006b) during the years of its implementation.

1.1 SITE LOCATION AND DESCRIPTION

The New World Mining District falls within the Custer Gallatin National Forest and lies adjacent to Yellowstone National Park's northeast corner. The Absaroka-Beartooth Wilderness Area bounds the District to the north and east, with the Montana-Wyoming state line forming the southern boundary of the District. The District lies entirely within Park County, Montana.

The District covers an area of about 10,360 hectares (25,600 acres) and is located at an elevation that ranges from 2,400 meters (7,900 feet) to over 3,170 meters (10,400 feet) above sea level. The site is snow-covered for much of the year and only one route of travel is open on a year-round basis -- the highway between Mammoth and Cooke City. The Sunlight Basin road accesses the District from northwestern Wyoming during the spring, summer, and fall but only allows access to within a few miles of the District in winter. The Beartooth Highway allows access to the District from the east but is closed during winter.

The topography of the District is mountainous with prominent glacial erosional and depositional features, and is situated at the headwaters of three river systems that all flow into the Yellowstone River. The three tributaries are the Clarks Fork of the Yellowstone, the Stillwater, and the Lamar. The Lamar River flows through Yellowstone Park. The major tributary streams in the District include Daisy, Miller, Fisher, Goose, Sheep, Lady of the Lake, Republic, Woody, and Soda Butte creeks.

1.2 PURPOSE AND OBJECTIVES

The primary purpose of this scope of work is to guide project activities that will be conducted in the District in accordance with the Long-Term Operations and Maintenance Plan (Tetra Tech, 2012) between September, 2016 and April, 2018. Field activities will be completed by October 2017 however report preparation would likely continue through early 2018. A separate scope of work describes field activities that were completed between April, 2016 and August, 2016 (Tetra Tech, 2016).

Primary objectives for work covered in the Long-Term Operations and Maintenance Plan are to document and monitor the effectiveness of reclamation response and restoration actions; to provide for maintenance actions as required to ensure long-term stability of erosion controls and reclamation covers; to monitor surface and groundwater quality and to satisfy the requirements of the rule allowing adoption of temporary water quality standards.

2.0 SCOPE OF WORK

The work for the fifth year (beginning September 1, 2016) and sixth year (2017-2018) under the Site-Wide, Long-Term Operations and Maintenance Plan (Tetra Tech, 2012) will include the following activities:

- Maintain community relations. It is anticipated that up to two meetings may be held annually. A summer meeting may be held in Cooke City and a winter technical meeting may be held in Bozeman.
- Update and maintain the project database.
- Continue monitoring surface water and groundwater quality in the District as required by the BER for verification that temporary water quality standards are being met.
- Continue monitoring surface water and groundwater quality in the District, including monitoring surface water and groundwater conditions downstream of the Como Basin capped reclamation area, downstream of the closed Glengarry Adit, and downstream and within the capped McLaren Pit. In connection with this monitoring, the USFS will continue to work with the State to determine the actions necessary to support an administrative wrap-up of the temporary water quality standards and the project, such as site specific standards if necessary or other resolution.
- Continue to monitor the New World Waste Repository at the Repository Sump and select groundwater monitoring well locations. Solution accumulating within the Repository Sump will be pumped as necessary and pumping events are estimated to occur once a year.
- Provide construction oversight during construction of the proposed repository sump drainage system at the New World Waste Repository and prepare associated construction reports and as-built drawings.
- Prepare an abbreviated annual water resources monitoring report that presents monitoring data gathered. An annual activities memo will be prepared to summarize work completed during the year and to delineate the work that will be performed the following year, if known. A report summarizing vegetation monitoring and results will also be prepared and attached to the annual activities memo.

A more complete description of each of these activities is presented below.

2.1 COMMUNITY RELATIONS

A Community Relations Plan was developed for the project and is included in the Overall Project Work Plan (Maxim, 1999c). This plan describes community relation strategies used to share information with the public and obtain timely input on proposed project activities during the response and restoration project.

As many as two public meetings may be held in 2017. At these meetings, summary monitoring data, results, and other items that may be of public interest will be presented as appropriate, and the meeting facilitated by a USFS representative. Tetra Tech will provide the technical support necessary to provide updated site information and any other logistical support for the meetings.

2.2 MAINTAIN PROJECT DATABASE

Environmental data that have been collected at the New World site are cataloged in a Microsoft Access® database, and this database will continue to be updated as new project information is collected through 2018. Four copies of the updated database will be provided annually to the Forest Service on compact discs. Queries of the database will be made available on compact disc upon request from the USFS.

2.3 SURFACE WATER QUALITY MONITORING

Surface water quality monitoring will be conducted at the 12 sampling stations identified in the Long-Term Operations and Maintenance Plan (Tetra Tech, 2012). These stations include the seven stations required for monitoring for compliance with temporary water quality standards (Stanley and Maxim 1998; and Maxim 2003c). Sampling sites for surface water during implementation of this Scope of Work are listed in **Table 1**. Samples will be collected twice during higher flow conditions in the spring (June/July 2017), and during low flow conditions in the fall (September 2017 and 2018).

Surface water samples will be collected and analyzed in accordance with procedures and methods described in the Site-Wide Sampling and Analysis Plan (SAP) (Appendix B in Maxim, 1999). In addition to the analytical methods described in the Site-Wide SAP, analysis of dissolved metals will be added to the parameter list for all sites. Total recoverable and dissolved arsenic analysis will also be completed in response to inquiries made by BER.

Table 2 lists surface water field parameters and standard operating procedures (SOPs) from the Site-Wide SAP. **Table 3** lists preservation and bottle requirements and **Table 4** lists surface water analytical requirements and practical quantification limits (PQLs).

TABLE 1
SURFACE WATER SAMPLE SITES
Long-term Operations and Maintenance Plan

Site Name	Location	Monitoring Objective
Daisy Creek Drainage		
DCT-8	Daisy Cr. tributary south of McLaren Pit	Measures contribution of impacts from McLaren capped area to Daisy Creek.
DC-2*	Daisy Creek below confluence of McLaren tributaries	Temporary water quality standard required monitoring station.
DC-5*	Daisy Creek above confluence with Stillwater River	Temporary water quality standard required monitoring station
SW-7*	Stillwater River at Stillwater Trail Crossing	Temporary water quality standard required monitoring station
Fisher Creek Drainage		
FCT-11	Tributary below Como Basin	Measures contribution of impacts from Como Basin capped area to Fisher Creek
SW-3*	Fisher Creek below former Glengarry Adit	Temporary water quality standard required monitoring station
SW-4*	Fisher Creek at Lulu Pass Road Crossing	Temporary water quality standard required monitoring station
CFY-2*	Fisher Creek above Clarks Fork confluence	Temporary water quality standard required monitoring station
Clarks Fork River Drainage		
SW-6*	Clarks Fork Yellowstone River at Saw Mill Road	Temporary water quality standard required monitoring station
Soda Butte Creek Drainage		
SBMS-US	Soda Butte Creek above confluence with Miller Creek	Measures water quality in Soda Butte Creek above McLaren tailings and mill-site, and above junction with Miller Creek.
SBC-2	Soda Butte Creek below McLaren Tailings	Measures water quality in Soda Butte Creek below McLaren tailings and mill-site, and below junction with Miller Creek.
SBC-4	Soda Butte Creek at Park Boundary	Measures water quality at the Park Boundary

* Indicates stations required for temporary water quality sampling by BER.

TABLE 2
SURFACE WATER FIELD PARAMETERS
Long-Term Operations and Maintenance Plan

Parameter	SOP Number [1]	SOP Title	Event
Specific Conductance	SOP-05	Field Measurement of Specific Conductance	All
pH	SOP-06	Field Measurement of pH	All
Water Temperature	SOP-07	Field Measurement of Water Temperature	All
Flow	SOP-01	Stream Flow Measurement; Wading Technique	All

[1] Standard Operating Procedures (Appendix B of Maxim 1999)

TABLE 3
SURFACE WATER SAMPLING REQUIREMENTS
Long-Term Operations and Maintenance Plan

Parameter	Preparation / Preservation [1]	Bottle Size / Type
Total Recoverable Metals	HNO3 to pH < 2; Iced to 4°C	250 milliliter polyethylene
Dissolved Metals	Filtered through 0.45 micron filter; HNO3 to pH < 2; Iced to 4°C	250 milliliter polyethylene
Common Ions/Physicochemical	Iced to 4°C	500 milliliter polyethylene

[1] HNO_3 = nitric acid

TABLE 4
SURFACE WATER ANALYTICAL REQUIREMENTS
Long-Term Operations and Maintenance Plan

Parameter	PQL (mg/L) [1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity (mS/cm)	1	2310B	28 days
pH (standard units)	0.1	150.1	Upon arrival at lab
Total Dissolved Solids	1	2340C	7 days
Total Suspended Solids	1	160.2	7 days
Hardness	1	2340B	6 months
Acidity	1	305.1	14 days
Total Recoverable and Dissolved Metals [2]			
Aluminum	0.05	200.8/200.7	6 months
Arsenic	0.003	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations [3]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions [3]			
Sulfate	1.0	375.2	28 Days
Bicarbonate	1.0	2320B	14 Days
Carbonate	1.0	2320B	14 Days
Chloride	1.0	325.3	28 Days
Other			
Cation / Anion Balance	None	Calculation	None

[1] PQL = Practical Quantitation Limit in milligrams per liter (mg/L) unless noted otherwise. If specified PQL is not technologically achievable due to matrix interference etc. then the Method Detection Limit should meet the specified PQL value.

[2] Surface water will be analyzed for total recoverable (unfiltered) and for dissolved metals for all stations.

[3] Common cations and anions are to be analyzed as total recoverable for use in determining cation/anion balance.

2.4 GROUNDWATER QUALITY MONITORING

Groundwater monitoring will be conducted in July, 2017 at the wells listed in **Table 5**. The groundwater monitoring event would involve measuring water levels, measuring field parameters, and collecting samples for laboratory analysis (**Tables 6**, **7**, and **8**).

2.4.1 New World Repository Monitoring

Groundwater monitoring would be conducted in 2017 at one well pair location (SBGW-107, and -107T) at the New World waste repository in accordance with the methods and procedures described in the Long-Term Operations and Maintenance Plan (Tetra Tech, 2012). These wells will be monitored in June during the high flow surface water monitoring event in order to ensure that the SBGW-107T well contains sufficient groundwater to provide a sample for submittal to the analytical laboratory.

Groundwater monitoring will include maintaining and downloading water level data from the continuous water level measuring instrument installed in well SBGW-107T and collecting water quality samples. Repository wells will be sampled once in July. Prior to 2012, these monitoring wells were monitored in May when repository groundwater levels are typically highest. Groundwater samples will be submitted to an analytical laboratory for analysis of parameters listed in **Table 8**.

Monitoring would also include maintaining and downloading water level data from the continuous water level instrument installed in the repository sump. If necessary, water in the sump will be pumped into water trucks and disposed of at the Cody, Wyoming, sewage treatment ponds at the end of each field season in late September or early October.

Prior to pumping, a sample will be collected from the sump for analysis. This sample will be analyzed for the same suite of parameters as the other groundwater samples and also for an expanded list of parameters per the request of the Cody, Wyoming sewage treatment plant operators. These additional parameters for the sump sample are listed in **Table 8**.

TABLE 5
GROUNDWATER MONITORING WELLS
Long-Term Operations and Maintenance Plan

Well Identification	Year Installed	Completion Formation	Monitoring Event	
			June	July
Daisy Creek / McLaren Area				
DCGW-101S	2001	Colluvium	—	**X**
DCGW-101D	2001	Lulu Pass Rhyodacite Porphyry	—	**X**
DCGW-104	2001	Waste Rock	—	**X, W**
DCGW-105	2001	Waste Rock	—	**X, W**
DCGW-132	2002	Colluvium	—	**X**
Fisher Creek Area				
EPA-11	1996	Tertiary Intrusive Dike	—	**X**
EPA-12	1996	Scotch Bonnet Diorite	—	**X**
FCGW-100	2004	Glengarry Adit Workings	—	**X**
MW-1	1989	Wolsey Shale	—	**X**
MW-9A	1990	Alluvium	—	**X**
MW-9B	1990	Precambrian	—	**X**
Tracer-5	1997	Fisher Mtn. Intrusive	—	**X**
Repository Sump	2002	Not Applicable	—	**S, W**
SBGW-107T	1999	Till	**X**	**W**
SBGW-107	1999	Granite	**X**	—

X Samples collected and analyzed for full suite of laboratory parameters.

F Samples collected and monitored for field parameters only.

S Repository Sump sample submitted for analysis of a different analytical suite compared to other groundwater samples. Refer to **Table 8**.

W Continuous water level monitoring.

-- Indicates no monitoring.

TABLE 6
GROUNDWATER FIELD PARAMETERS
Long-Term Operations and Maintenance Plan

Parameter	SOP Number [1]	SOP Title	Event
Specific Conductance	SOP-05	Field Measurement of Specific Conductance	All
pH	SOP-06	Field Measurement of pH	All
Water Temperature	SOP-07	Field Measurement of Water Temperature	All
Oxidation-Reduction	SOP-28	Field Measurement of Redox Potential (Eh)	All
Dissolved Oxygen	SOP-08	Field Measurement of Dissolved Oxygen	All
Depth to Water	SOP-20	Field Measurement of Groundwater Level	All

1 Standard Operating Procedures (Appendix B of Maxim 1999)

TABLE 7
GROUNDWATER SAMPLING REQUIREMENTS
Long-Term Operations and Maintenance Plan

Parameter	Preparation / Preservation [1]	Bottle Size / Type
Dissolved Metals	Filtered through 0.45 micron filter; HNO3 to pH < 2; Iced to 4°C	250 milliliter polyethylene
Common Ions/Physicochemical	Iced to 4°C	500 milliliter polyethylene

1 HNO_3 = nitric acid

TABLE 8
GROUNDWATER ANALYTICAL REQUIREMENTS
Long-Term Operations and Maintenance Plan

Parameter	PQL (mg/l) [1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity (mS/cm)	1.0	2310B	28 days
pH (standard units)	0.1	150.1	Upon arrival at lab
Total Dissolved Solids	1.0	2340C	7 days
Total Suspended Solids [2]	1.0	160.2	7 days
Hardness	1.0	2340B	6 months
Acidity	1.0	305.1	14 days
Metals [3]			
Aluminum	0.05	200.8/200.7	6 months
Arsenic [2]	0.003	200.8/200.7	6 months
Barium [2]	0.005	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Chromium [2]	0.004	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Mercury	0.001	245.1	6 Months
Selenium [2]	0.0005	200.8/200.7	6 months
Silver [2]	0.0005	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations [4]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions [4]			
Sulfate	1.0	300.0	28 Days
Bicarbonate	1.0	300.0	14 Days
Carbonate	1.0	300.0	14 Days
Chloride	1.0	300.0	28 Days
Other			
Cation / Anion Balance	None	Calculation	None

[1] PQL = Practical Quantitation Limit in milligrams per liter (mg/L) unless noted otherwise. If specified PQL is not technologically achievable due to matrix interference etc. then the Method Detection Limit should meet the specified PQL value.

[2] Shaded parameters only analyzed from Repository Sump sample.

[3] Groundwater parameters will be analyzed as dissolved constituents as filtered through a 0.45 micron filter. Repository Sump sample analyzed for total recoverable metals in addition to dissolved.

[4] Common cations and anions are to be analyzed as total recoverable for use in determining cation/anion balance.

2.5 MAINTENANCE AND EROSION CONTROL

Maintenance and erosion control work would be conducted as required to address failures or potential failures associated with reclamation work and this task order would be amended to address any additional work. Such work may include, but is not limited to, re-grading, ditch and culvert maintenance, installation of new monitoring wells, repair of old monitoring wells, abandonment of wells no longer needed for the project, re-seeding, and/or installation and maintenance of silt fences and erosion matting. For the purpose of cost estimation, it is assumed that maintenance would require a backhoe and operator for one day. The manhole outside the McLaren Adit will be inspected under this task. Tetra Tech shall visit the site with a Forest Service representative to determine an acceptable method for inspection of the McLaren Adit infiltration system. This method will then be used for future inspections.

2.6 REPOSITORY SUMP DRAINAGE SYSTEM CONSTRUCTION OVERSIGHT

This work shall include oversight of construction activities during installation of a sump drainage system at the New World waste repository. These activities will include the items described below.

2.6.1 Pre-Construction Meeting

This task includes a pre-construction meeting with Tetra Tech technical staff, USDA Forest Service personnel, and the construction contractor personnel to discuss the project schedule, work tasks, and any design element clarifications needed to implement the work. The meeting will be held upon finalization of all contracting and prior to field mobilization.

2.6.2 Daily Construction Oversight

Tetra Tech will provide the following Construction Quality Assurance and Quality Control Oversight services:

- Review construction contractor submittals for compliance with contract documents.
- Provide daily project construction inspection/oversight to assist the Forest Service.
- Ensure construction material and methods are in compliance with contract documents and industry standards.
- Document field activities through field notes and photographs.
- Prepare daily construction reports and submit to the Forest Service at the end of each construction day. The report shall be submitted electronically via email.
- Review construction contractor payment requests and make recommendations for payment.
- Provide clarification and interpretation of contract.
- Develop and modify the contract and task orders, as needed, in consultation with the Forest Service.
- Prepare Work Directives and Change Orders as directed by the Forest Service.
- Attend project related meetings as requested by Forest Service.

2.6.3 Construction Completion Report and As-Built Drawings

Tetra Tech will prepare and submit to the Forest Service both a Draft Construction Report and Final Construction Report, consisting of the following:

- A description of the project site and objectives.
- Identification of responsible parties and roles related to the construction contract including Forest Service personnel, engineer, project representative(s), and construction contractor personnel involved in construction.
- Summary of construction events and progress, which shall include pre-bid conference, bid opening, notice of award and contract agreement, pre-construction meeting, construction start-up, description of change orders and work directives, weather days and work suspensions, requests for payment, substantial completion, closeout documentation, and final payment.
- Summary of overall project including details of construction activities, corresponding dates, and significant variations in final bid quantities from the estimated quantities.
- Summary of project costs and quantities completed.
- Summary of major equipment used during the project.
- As-constructed drawings.
- Color photograph documentation of project including a description of the contents of each photograph. This may be submitted as an electronic appendix (CD) to the report. The CD must be bound to the back cover of each report.
- Copies of daily construction reports, pre-construction and other meeting minutes, payment requests, change orders, work directives, project completion forms, and all other pertinent documents shall be included as appendices to the report.
- Copies of all project documents included in the report must include a copy of the executed document and must be legible.

Upon receipt, Tetra Tech shall incorporate Forest Service comments on the Draft Construction Report and shall prepare and submit a Final Construction Report to the Forest Service.

2.7 PREPARE ANNUAL REPORTS

Two annual project documents will be prepared that include discussions of many of the items discussed in Section 2.0. These documents are summarized in **Table 10** along with a description of the document contents and approximate delivery schedule.

TABLE 10
PROJECT DOCUMENT LIST
Long-Term Operations and Maintenance Plan

Deliverable Title	Contents	Estimated Delivery Schedule (of draft documents for USFS review)
Repository Sump Drainage System Final Construction Report	Draft and final reports including as-built drawings (refer to Section 2.6.3 for more detail).	30 days after completion of construction
Annual Surface Water / Groundwater Monitoring Report	Results and analyses of ongoing surface water and groundwater monitoring.	March 1, 2017 and March 1, 2018
Annual Project Activities Report (including vegetation monitoring memo[1]).	Summary of project activities (e.g. maintenance) and vegetation monitoring.	March 1, 2017 and March 1, 2018

[1] Refer to Tetra Tech (2016) for discussion of vegetation monitoring to be completed in August 2016.

2.8 PROJECT MANAGEMENT AND AGENCY LIAISON

This work shall include project management activities such as budget tracking and progress reporting along with various discussions of technical data and issues at the site, construction issues related to reclamation, and potential implementation of maintenance activities. Technical memos may be requested by the Forest Service to document this work. Data and reports related to TMDL, temporary water quality standards review, and use attainability studies may also need to be prepared for presentation to DEQ, BER, Consent Decree participants, and other interested parties for formal meetings and discussions. These meetings / data collection activities will involve both contractor and US Forest Service personnel coordination to produce the required working documents and deliverables. Tetra Tech may also attend meetings with USFS and DEQ to facilitate completion of a Use Attainability Study for the District.

Technical support related to updates to the USFS-maintained project website or other items may also be required.

Under this Task Order there may be a need for technical coordination and the development of documents in support of DEQ's Use Attainability Analysis or other work in support of administrative wrap-up of the project with regard to temporary water quality standards which are set to expire in 2019.

3.0 REFERENCES

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