

**FINAL
CONSTRUCTION REPORT
FOR THE
SPRING MEADOW LAKE RECLAMATION PROJECT
HELENA, MONTANA
MT DEQ MWCB CONTRACT NO. 410001**

Prepared for:

**Montana Department of Environmental Quality
Mine Waste Cleanup Bureau
P.O. Box 200901
Helena, Montana 59620-0901**



Historical View of the Stedman Foundry Site: date unknown

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ACRONYMS AND ABBREVIATIONS

CC	Centennial Concrete
CY	Cubic yards
DEQ	Department of Environmental Quality
EEE/CA	Expanded Engineering Evaluation and Cost Analysis
FWP	Fish, Wildlife and Parks
K&S	K&S Hydroseed
mg/kg	Milligrams per kilogram
MWCB	Mine Waste Cleanup Bureau
MWC	Montana Wildlife Center
RCRA	Resource Conservation and Recovery Act
RI	Reclamation Investigation
RPR	Resident project representative
RWP	Reclamation Work Plan
SML	Spring Meadow Lake
SY	Square Yards
TCLP	Toxicity Characteristic Leaching Procedure
TtEMI	Tetra Tech EM Inc.

1.0 INTRODUCTION

Tetra Tech EM Inc. (TtEMI) received task order No. 34 pursuant to Contract No. 407026 from the Montana Department of Environmental Quality Mine Waste Cleanup Bureau (DEQ MWCB) on November 18, 2008, to design, provide construction supervision, and prepare a report for an expedited removal of soil and sediment from the east arm of Spring Meadow Lake.

TtEMI received task order No. 53 pursuant to Contract No. 407026 from the DEQ MWCB on July 20, 2009, to provide construction supervision and prepare a construction report for the reclamation construction at the Spring Meadow Lake (SML) Reclamation Project. This construction report includes documentation of reclamation actions implemented during the SML Reclamation Project.

1.1 PROJECT DESCRIPTION

The SML project site includes portions of Spring Meadow State Park (State Park) and the Montana Wildlife Center (MWC). The MWC is the site of the historical Stedman Foundry and Machine Company. From the late 1800s to the early 1900s, the site was used for various manufacturing process including machinery, hardware, and fencing materials. In 1910, the Northwestern Metals Company operated an ore processing facility which deposited the first ore processing related wastes at the site. Northwestern Metals Company went bankrupt in 1915 and in 1916 the site was taken over by the New York-Montana Testing and Engineering Company. This company operated another ore processing facility until they closed their doors in 1920. Ore from Butte, Philipsburg, and local sources were processed and is responsible for the majority of the ore processing wastes at the site. From the early 1920s to early 1960s, the site was used for various gravel mining operations which resulted in the creation of Spring Meadow Lake. In 1981, the State of Montana purchased the 42-acre gravel pit and an additional 4.1 acre parcel. This property is the current location of Spring Meadow Lake State Park and the Montana Wildlife Center.

As a result of years of ore processing, the project site contained high levels of heavy metals in soil and sediment that posed a threat to human health and the environment. Prior to completion of reclamation activities, the SML Reclamation Project was listed first on the Montana DEQ MWCB Hard Rock Mine Priority Site List. The SML project site consisted of 12 acres of soil and sediment contaminated by heavy metals and the remnants of the foundry and ore processing facilities, including several old foundations and buried concrete channels, troughs, and sumps.

1.2 PROJECT LOCATION

The project site is located west of Helena, Montana, just north of Highway 12 in Lewis and Clark County and includes two separate work areas: the eastern part of Spring Meadow Lake State Park, and the northwestern portion of the Montana Wildlife Center within Section 23, Township 10 North and Range 4 West, Montana Principal Meridian.

The State Park is located at the site of a former gravel mining operation and includes the main pit lake, a shallow eastern arm of the lake, and surrounding land. The MWC is located on a bench south of the State Park. It encompasses one large stone masonry building, the Stedman Foundry, dating back to the late 1800s, several newer buildings, and wire cages used to house and care for injured and orphaned wild animals, including black bears. Both the State Park and MWC are administered by Montana Fish, Wildlife and Parks (FWP). Past activities at MWC site have included casting and molding metal, manufacturing of fencing supplies, and processing mineral ores. Ore processing activities contaminated soil and sediment within the State Park and MWC sites with arsenic, lead, manganese, and other heavy metals.

1.3 PROJECT HISTORY AND CONTAMINATION

The SML reclamation design was based on the information developed from the SML Draft Final Reclamation Investigation and Expanded Engineering Evaluation and Cost Analysis document (Tetra Tech 2006), which included a Reclamation Work Plan (RWP), Reclamation Investigation (RI), and an Expanded Engineering Evaluation and Cost Analysis (EEE/CA), and from the Design Memorandum for the Spring Meadow Lake Reclamation Project (Tetra Tech 2009). Laboratory analytical results from these documents suggested that the primary contaminants of concern for characterization at the SML site were arsenic and lead. Peak concentrations of these metals within the samples were as follows:

- Arsenic: 57,500 milligrams per kilogram (mg/kg)
- Lead: 39,000 mg/kg

As part of the EEE/CA, a risk assessment was completed that developed cleanup levels for arsenic and lead within the State Park and the MWC. Because of the different projected uses for these two areas, two different sets of cleanup levels were proposed. Cleanup standards for the State Park were based on child recreational user exposure, and cleanup standards for the MWC were based on on-site worker exposure.

Concentrations of 400 mg/kg lead and 550 mg/kg arsenic were determined to be the maximum acceptable contaminant levels for the State Park. The maximum acceptable contaminant levels for the MWC were determined to be 750 mg/kg lead and 230 mg/kg arsenic. DEQ decided for reclamation that a uniform set of cleanup levels that were protective of both exposure scenarios would be used for reclamation design. Cleanup levels of 400 mg/kg lead and 230 mg/kg arsenic were used to delineate the extent of sediment and soil removal for both the State Park and the MWC.

Soil removal for the reclamation began in February 2009. Under a limited construction contract, DEQ MWCB procured the low bidder, Helena Sand & Gravel, Inc., of Helena, Montana, to excavate and stockpile approximately 1,000 cubic yards (CY) of soil and sediment from the east arm of Spring Meadow Lake during the normal low water period. TtEMI provided oversight services during excavation and stockpiling activities. Excavation and placement of the material were complete on February 20, 2009. The sediment from this removal was disposed of with the other material from the State Park during the main reclamation construction, which began August 5, 2009.

The construction report for the sediment removal is included in Appendix A.

In March 2009, at the request of DEQ MWCB, TtEMI evaluated the structural integrity of the historic Pattern House structure located near the MWC that was badly burned in a fire in 2008. The evaluation was performed to assess the structural integrity of the historic structure as it related to the SML Reclamation Project. The structure was subsequently removed by FWP as part of an unrelated FWP project prior to the start of reclamation activities.

1.4 PROJECT OBJECTIVES

The primary objective of the SML Reclamation Project was to protect human health and the environment. Specifically, the reclamation action selected was implemented to limit human and environmental exposure to the contaminants in the sediment and soil and to reduce the mobility of the contaminants to prevent impacts to Spring Meadow Lake surface water and groundwater.

2.0 RESPONSIBLE PARTIES

The following sections provide an outline of responsible parties for the Spring Meadow Reclamation Project, including state coordinators and private contractors.

2.1 DEQ MWCB COORDINATION

The DEQ MWCB project manager for the Spring Meadow Lake Reclamation Project was Ms. Pebbles Clark. Her address, phone, and fax numbers are:

DEQ MWCB
P.O. Box 200901
Helena, Montana 59620-0901
Phone: (406) 841-5028
Fax: (406) 841-5024

2.2 RECLAMATION AND ENGINEERING PLAN

TtEMI was responsible for the engineering design and for preparing the reclamation bid document, design, and specifications. The project manager and engineer was Gary Sturm, P.E. TtEMI's address, phone and fax numbers are:

TtEMI
7 West 6th Avenue
Suite 612, Power Block Building
Helena, Montana 59601
Phone: (406) 442-5588
Fax: (406)442-7182

2.3 CONSTRUCTION MONITORING

TtEMI provided full time construction monitoring for this project. Mr. Sturm of TtEMI was the construction project engineer. Mr. Colin McCoy of TtEMI was the primary resident project representative (RPR). Ms. Kathie Roos, P.E. of TtEMI provided backup construction monitoring when Mr. Sturm and Mr. McCoy were unavailable.

2.4 CONTRACTOR

The successful low bidder for the sediment removal and stockpiling contract was Helena Sand and Gravel, of Helena, Montana. The on-site superintendent for the 2009 sediment removal was Steve Burch.

Helena Sand and Gravel
2209 Airport Road
Helena, Montana 59601
Phone: (406) 227-8585

The successful low bidder for the reclamation construction project was Mungas Company, Inc. (Mungas), of Philipsburg, Montana. The on-site superintendent for the 2009 reclamation construction season was Ray Bennett. Site foremen and back-up on-site superintendents were Karl Konrad and Barry Vest. The contractor's address, phone and fax numbers are:

Mungas Company, Inc.
P.O. Box 236
Philipsburg, Montana 59858
Phone: (406) 859-3203
Fax: (406) 859-3024

2.5 SUBCONTRACTORS

Helena Sand and Gravel did hire any subcontractors for the sediment removal work.

Mungas hired four subcontractors to help complete work at the SML Reclamation Project. Centennial Concrete (CC) Septic of Butte, Montana was hired to screen and treat excavated contaminated material at the MWC and screen excavated contaminated material at the State Park. CC's address and phone number are:

Centennial Concrete Septic
701 Centennial Avenue
Butte, Montana 59701
Phone: (406) 782-1241

Mungas subcontracted K&S Hydroseed (K&S) from Missoula, Montana, to seed and fertilize the site. The subcontractor's address and phone number are:

K&S Hydroseed
1375 Woodhill Court
Missoula, Montana 59802
Phone: (406) 546-6818

Schnell Excavating from Butte, Montana and Montana Express, LLC from Clancy, Montana were hired by Mungas to provide trucks and drivers to transport contaminated material. The subcontractors' addresses and phone numbers are:

Schnell Excavating, LLC
122133 Nissler Rd
Butte, MT 59701
Phone: (406) 723-5700

Montana Express, LLC
3 Jefferson Drive
Clancy, MT 59634
Phone: (406) 461-4252

3.0 RECLAMATION CONSTRUCTION EVENTS

The following sections present the notable events and contract dates for the reclamation portion of the SML Reclamation Project. Refer to Appendix A for notable events, contract dates, and project documents for the sediment removal and stockpiling portion of the SML Reclamation Project.

3.1 PRE-BID CONFERENCE

The SML Reclamation Project pre-bid conference was held at the site on June 22, 2009. The purpose of the pre-bid conference was to familiarize prospective bidders with the various locations and aspects of the work and to allow prospective bidders to ask questions about the project. DEQ MWCB, TtEMI, potential prime contractors, potential subcontractors, and potential material vendors and suppliers attended the conference.

3.2 BID OPENING

Bids were opened by DEQ MWCB at its office at 1100 North Last Chance Gulch in Helena, Montana, on July 9, 2009. Seven qualified bids were received. The bids ranged from \$2,366,318.00 to \$3,289,377.50 with the low bid submitted by Mungas in the amount of \$2,366,318.00. The engineer's estimate was \$2,478,250.00. The bid tabulations are included in Appendix B.

3.3 CONTRACT AWARD

A Notice of Award was issued to the low bidder, Mungas on July 13, 2009. The Notice of Award is included in Appendix C.

3.4 CONTRACT AGREEMENT

An Agreement for Contract No. 410001 was issued July 13, 2009, between Mungas and DEQ MWCB and became effective on August 5, 2009. DEQ MWCB issued the Notice to Proceed to Mungas on August 4, 2009. The Notice to Proceed required work to begin no later than August 5, 2009 and required all work be completed within 90 consecutive calendar days with a completion date of November 2, 2009. The Notice of Award is included in Appendix C.

3.5 CONSTRUCTION START-UP

A pre-construction meeting between DEQ MWCB, TtEMI, and Mungas (contractor) was held on July 29, 2009, at the DEQ, Last Chance Gulch, administration building. The purpose of the 2009 pre-construction meeting was to establish a working understanding among the parties as to the work, the requirements of the contract documents, schedules, and procedures for handling shop drawings and other submittals, processing applications for payment, and maintaining required records.

Meeting attendees were:

Pebbles Clark, DEQ
Gary Sturm, P.E., TtEMI
Colin McCoy, TtEMI
Ray Bennett, Mungas Construction Superintendent
Karl Konrad, Mungas Construction On-Site Superintendent
Rick Bonde, Mungas Engineer

The pre-construction meeting minutes are in Appendix D. The contractor began mobilizing to the site on August 5, 2009.

3.6 WORK DIRECTIVES AND CHANGE ORDERS

Five change orders and seven work directives were written for the SML Reclamation Project. Copies of the change orders and related documentation are in Appendix E. Copies of all work directives are in Appendix F.

Work Directive No. 1 was issued on August 7, 2009. It directed the contractor to relocate a pile of salvaged building stone and rock to the southwestern corner of the fenced enclosure southwest of the Stedman Foundry Building.

Work Directive No. 2 was issued on August 17, 2009. It directed the contractor to demolish and remove concrete troughs and sumps within the MWC and grade the excavated areas.

Work Directive No. 3 was issued on September 2, 2009. It directed the contractor to demolish and remove a large concrete block found during excavation in the western area of the State Park.

Work Directive No. 4 was issued on September 8, 2009. It directed the contractor to haul oversize rock from the MWC to the State Park area to be used as backfill.

Work Directive No. 5 was issued on October 8, 2009. It directed the contractor to eliminate the original north slope grading plan and grade the north to incorporate contours for an amphitheater as requested by FWP, eliminate the original gravel parking lot on the north side of the Steadman Building and construct a new parking lot on the west side of the Steadman Building, construct additional gravel walkway, and dismantle and reconstruct existing fence.

Work Directive No. 6 was issued on October 27, 2009. It directed the contractor to demolish and remove concrete foundations west of the Stedman building and concrete slabs from beneath the site of the future parking lot.

Work Directive No. 7 was issued on November 19, 2009. It directed the contractor to grade, compact, and apply and compact gravel at the existing parking lot and road at the MWC to repair damages by heavy and frequent equipment traffic during construction.

Change Order No. 1, executed on August 5, 2009, compensated the contractor for moving the rock pile as directed in Work Directive No. 1 and removing the concrete troughs and sumps as directed in Work Directive No. 2. This change order increased the contract cost by \$18,500.00 and extended the contract time by 6 calendar days, to November 8, 2009.

Change Order No. 2, executed on September 24, 2009, compensated the contractor for excavating and demolishing the large concrete block as directed in Work Directive No. 3 and hauling oversize rock from the MWC to the State Park area as directed in Work Directive No. 4. This change order increased the contract cost of the project by \$3,925.00 and extended the contract time by 2 calendar days to November 10, 2009.

Change Order No. 3, executed on November 29, 2009, compensated the contractor for additional work done to the MWC north slope and parking lot design as directed in Work Directive No. 5 and for the concrete demolition for Work Directive No. 6. This change order increased the contract cost by \$53,982.00 and extended the contract date by 18 calendar days (including 1 weather day), to November 28, 2009.

Change Order No. 4, executed on December 1, 2009, compensated the contractor for parking lot improvements and repair executed under Work Directive No. 7. It increased the contract cost by \$7,410.00 and extended the contract date by 3 calendar days, to December 1, 2009.

Change Order No. 5, executed on December 1, 2009, reconciled the contract pay quantities to reflect the actual quantities of work completed on each pay item. This change order decreased the contract cost by \$190,542.85.

The six change orders for this project totaled -\$106,725.85, a decrease of 4.5 percent of the original contract price. The six change orders added 29 days to the contract period, resulting in a total contract period of 119 days.

3.7 WEATHER DAYS AND WORK SUSPENSIONS

There was a weather day and several work suspensions during construction in 2009. A weather day was issued when work could not be conducted because of adverse site conditions. The weather day is listed below:

- Work was halted on November 13, 2009, because of snow at the site.

In addition to the weather days, work was stopped at the contractor's discretion on the following holidays:

- Work was halted on September 7, 2009, at the discretion of the contractor for the Labor Day holiday.
- Work was halted on November 26, 2008, at the discretion of the contractor for the Thanksgiving holiday.
- Work was halted on November 27, 2008, at the discretion of the contractor for the Thanksgiving holiday.

3.8 REQUESTS FOR PAYMENT

Mungas made five requests for payment during the project. The total amount paid for each pay request is the net payment after a one percent state withholding. Copies of these payment requests are in Appendix G.

Payment Request No. 1 was for the period August 5 through August 21, 2009. The total amount paid, less retainage, was \$371,350.05. Payment Request No. 1 was approved on August 26, 2009.

Payment Request No. 2 was for the period August 22 through September 18, 2009. The total amount paid, less retainage, was \$912,433.11. Payment Request No. 2 was approved on September 24, 2009.

Payment Request No. 3 was for the period September 19 through October 23, 2009. The total amount paid, less retainage, was \$447,988.99. Payment Request No. 3 was approved on October 23, 2009.

Payment Request No. 4 was for the period October 23, 2009 through November 24, 2009. The total amount paid, less retainage, was \$317,181.38. Payment Request No. 4 was approved on November 30, 2009.

Payment Request No. 5 (Final) was for the period November 24 through December 1, 2009. The total amount paid, including the retainage released was \$188,042.70. Payment Request No. 5 was approved on December 9, 2009.

3.9 SUBSTANTIAL COMPLETION

Mungas reached substantial completion on December 1, 2009, after Mr. Sturm (TtEMI), Ms. Clark (DEQ MWCB), and Mr. Bennet (Mungas Company, Inc.) conducted a site inspection on November 30, 2009.

Attendees at the inspection included:

- Pebbles Clark, DEQ MWCB
- Gary Sturm, TtEMI
- Colin McCoy, TtEMI
- Ray Bennett, Mungas Company, Inc

Two outstanding items were noted during the site inspection, and a punch list was provided to Mungas. A copy of the Certificate of Substantial Completion is provided in Appendix H.

3.10 CLOSEOUT DOCUMENTATION

Mungas completed the outstanding work items on November 30, 2009. A final site inspection was conducted on December 2, 2009 by Ms. Clark to ensure the punch list items were complete.

The following project construction closeout forms were executed on the dates outlined below:

- Certificate of Completion, December 9, 2009
- Affidavit on Behalf of Contractor, December 9, 2009
- Consent of Surety Company to Final Payment, December 7, 2010
- Certificate of Acceptance, December 9, 2010

Copies of these executed forms are in Appendix H.

3.11 FINAL PAYMENT

The final payment, Payment Request No. 5, of \$188,042.70 to Mungas was approved by John Koerth of DEQ MWCB on December 9, 2009. The final payment request included payment for outstanding work items, release of the retainage withheld, Change Order No. 4 which compensated the contractor for parking lot improvements and repair, and Change Order No. 5 which reconciled the contract pay quantities to reflect the actual quantities of work completed for each pay item.

4.0 CONSTRUCTION

The following section summarizes reclamation construction and describes the project plan, major equipment, and construction activities. Refer to Appendix A for construction details as they relate to the sediment removal and stockpiling portion of the SML Reclamation Project.

4.1 DESCRIPTION OF RECLAMATION ACTIVITIES

Final reclamation construction activities consisted of the following work:

- Removing 1,080 feet of fence and rebuilding 945 feet of fence in the locations specified in the plans.
- Moving the pile of salvaged building stone and rock at the MWC twice to prevent potential conflicts with proposed construction activities.
- Constructing a staging area at the State Park, including a double entrance access road.
- Excavating, screening, hauling, and disposing of 51,556 tons of contaminated materials from the State Park at a Resource Conservation and Recovery Act (RCRA) Subtitle D Class II Solid Waste Management Facility.
- Hand excavating around six specified trees.
- Excavating, screening, treating, hauling, and disposing of 4,850 tons of contaminated materials from the MWC at a RCRA Subtitle D Class II Solid Waste Management Facility (landfill).
- Separating, hauling, and disposing of debris from the north slope of the MWC.

- Obtaining, placing, and grading 32,370 cubic yards (CY) of cover soil at the State Park.
- Obtaining, placing, and grading 6,011 CY of cover soil at the MWC.
- Fertilizing, seeding, and mulching 12 acres of disturbed areas.
- Reconstructing 1,750 feet of gravel pathway.
- Obliterating and reclaiming temporary roadways.
- Grading the north slope of the MWC.
- Constructing two parking areas at the MWC with a total area of 1,778 Square Yards (SY).
- Resurfacing the gravel road at the MWC.

4.2 MAJOR EQUIPMENT LIST

An abbreviated list of equipment used on the Spring Meadow Reclamation Project is presented in Table 1.

**TABLE 1
MAJOR EQUIPMENT LIST
SPRING MEADOW RECLAMATION PROJECT**

Description	Number
CAT 330L Excavator	1
CAT 330L Excavator with jackhammer	1
Samsung Excavator (CC)	1
Komatsu 400 Excavator	1
CAT D8 Dozer	1
CAT D5 Dozer	1
Terex Loader (CC)	1
CAT Loader	2
John Deere Grader	1
Roller	1
Off-Road Haul Truck	3
Haul Truck	9
Fuel Truck	1
Cement Truck	2
Seeding Truck (K&S)	1
Tractor (K&S)	1
Gravel Truck	1
Screener	1
Screening Plant (CC)	1
Concrete Batch Plant (CC)	1

Notes:

CC – Equipment belonged to Centennial Concrete

K&S – Equipment belonged to K&S Hydroseed

4.3 CONSTRUCTION ACTIVITIES

Copies of the on-site inspector's daily reports are in Appendix I. These daily logs detail site conditions and reclamation activities during construction. Weekly summaries of construction and oversight activities are provided below.

August 5-7, 2009: The contractor mobilized equipment to the site. Fence was removed and rebuilt as shown in the plans. The rock pile at the MWC was moved. Dirt piles at the MWC were sorted and moved. Concrete from the MWC was loaded, hauled, and disposed of off site at a landfill.

August 10-14, 2009: Additional equipment was mobilized to the site. The screening plant was set up at the MWC. Contaminated materials at the MWC were excavated and stockpiled. Attempts were made to excavate underground concrete structures at the MWC. Contaminated materials at the State Park were excavated, screened, hauled, and disposed of off site. Concrete from the MWC was loaded, hauled, and disposed of off site at a landfill.

August 17-21, 2009: The screening plant was moved to the lower excavation area. Underground concrete structures and associated waste were excavated from the MWC. Concrete from the MWC was loaded, hauled, and disposed of. Contaminated materials and the State Park were excavated, screened, hauled, and disposed of off site at a landfill.

August 24-28, 2009: Contaminated materials from the State Park were excavated, screened, and hauled to a landfill for disposal. The western area of the State Park was cleared and grubbed. A bench-scale soil treatment study was performed. Silt fence was constructed near the lake.

August 31-September 4, 2009: Contaminated materials from the State Park were excavated, screened, and hauled to a landfill for disposal. The screening plant was moved back to the MWC to begin screening excavated contaminated materials there. The large concrete block in the State Park was excavated and demolished.

September 7-11, 2009: Contaminated materials from the State Park were excavated, screened, and hauled to a landfill for disposal. Excavated contaminated materials at the MWC were screened and stockpiled for treatment.

September 14-18, 2009: Contaminated materials from the State Park were excavated, screened, and hauled to a landfill for disposal. Contaminated material screening and stockpiling at the MWC were completed. Concrete batch plant construction began at the MWC. Brush was chipped at the State Park area.

September 21-25, 2009: Soil excavation, screening, and disposal were completed at the State Park area. Cover soil was hauled to the site to fill the excavated areas of the State Park. The concrete batch plant was constructed at the MWC and soil treatment began. The rock pile at the MWC was moved outside the southwestern fence of the MWC. Concrete was removed from the west- and north-facing slopes near the MWC. Silt fence was constructed upslope of the spring on the north-facing slope of the MWC.

September 28-October 2, 2009: Soil treatment at the MWC continued. Cover soil was hauled to the State Park, applied and graded.

October 5-8, 2009: Soil treatment at the MWC continued. Cover soil was hauled to the State Park, applied, and graded. Treated soil was disposed of at Valleyview Landfill.

October 12-15, 2009: Soil treatment at the MWC was completed. The concrete batch plant was disassembled. Cover soil was hauled to the State Park, applied, and graded. Treated soil was disposed of at Valleyview Landfill. The path for the trail was bladed and compacted.

October 19-23, 2009: The disposal of treated soil at Valleyview Landfill was completed. The concrete pad on the west side of the MWC was removed. Gravel was applied to the trail at the State Park and compacted. Cover soil was hauled to the State Park, applied, and graded.

October 26-30, 2009: Soil and concrete foundations were removed on the western side of the MWC. Cover soil was applied and graded at the MWC. Cover soil was hauled to the State Park, applied, and graded.

November 2-6, 2009: Concrete and debris were removed from the north slope at the MWC. Soil for the north slope backfill was stockpiled at the MWC. The perimeter fence at the MWC was dismantled and reconstructed as detailed in the Work Directive No. 5 revised drawings.

November 9-13, 2009: Fence was constructed at the MWC. Concrete and debris continued to be excavated from the north slope of the MWC. Straw wattles were placed on the slopes of the pond at the State Park.

November 16-20, 2009: Concrete and debris continued to be removed from the north slope of the MWC. The north slope of the MWC was graded to design specifications. The staging area at the State Park was removed, and the original fence and gate were reconstructed. The parking lot and trail were staked and constructed on the west side of the MWC. Parts of the State Park were hydro-seeded.

November 23-27, 2009: The State Park and MWC were seeded, mulched, and fertilized. The trail and parking lot on the west side of the MWC were completed. Silt barriers were installed on the slope on the north side of the MWC and around the trail on the west side. Gravel was applied to the existing road and parking lot at the MWC after they were graded and compacted.

November 30 - December 1, 2009: Seeding and crimping were completed. Repairs and improvements to the existing parking lot at the MWC were completed. Barrier rocks were placed at the west parking lot of the MWC and at the trailhead. Equipment was demobilized. The substantial completion inspection was performed.

4.4 TREATMENT AND SAMPLING

Sample TP 305 failed a toxicity characteristic leaching procedure (TCLP) for cadmium during waste characterization sampling at the MWC in November 2006. All soil is required to pass a TCLP test to legally dispose of material at a RCRA Class II Landfill. DEQ MWCB decided that contaminated material removed from the MWC would pass a TCLP before it would be allowed to be hauled off the site. Therefore, all contaminated material removed from the MWC was treated. No samples collected from the State Park failed TCLP; therefore, this material did not require treatment. The proposed treatment method was to mix the contaminated material with cement. Similar treatment at another DEQ site indicated that this method would allow the material to pass a TCLP. A bench-scale pilot test of the treatment procedure was performed by DEQ MWCB and TtEMI personnel to ensure the treatment would work. All samples treated with cement passed the TCLP. Based on the pilot test results, it was decided that the optimal treatment was to add 10 percent cement by soil weight. TCLP analytical results for the five pilot tests are included in Appendix J

The contractor used a cement batch plant and cement mixing trucks to complete the contaminated material treatment. After contaminated material had been screened, it was loaded into the hopper and weighed. Based on the material weight, a calculated amount of cement was added to the material as it was conveyed into the cement mixing trucks. The total mixture of contaminated material and cement was 10 percent cement by weight. The combinations were mixed in the trucks and then stockpiled on site. Once stockpiled, confirmation TCLP samples were collected from each batch of 525 tons of treated material. Eleven batches of treated material were produced; each of which was sampled and passed the TCLP. Once the analytical results for each batch were received and verified by DEQ MWCB that no samples failed TCLP, the treated material was loaded into haul trucks and transported to Valleyview Landfill for disposal.

TCLP analytical results for each of the eleven batches are included in Appendix J.

4.5 QUANTITIES COMPLETED

Work items were bid on a lump sum, actual quantity, and unit price basis. Table 2 lists each bid item, the bid item unit price, the estimated quantity, the actual quantity, and the units of measurement. All materials submitted were approved by the engineer before they were used at the site. Material submittals are included in Appendix K. Actual quantities were verified by construction oversight personnel and by

weigh tickets from the disposal facilities. Notable Bid Items that varied significantly from the estimated bid quantity are:

- Bid Item 2, Provide Water – Only 1,274 of the 2,000 KGAL of water estimated by the Engineer to be applied for dust control at the site was utilized.
- Bid Item 3, Silt Fence - 367 feet of additional silt fence was constructed on the eastern edge of the lake and around the spring to prevent silt from entering the lake.
- Bid Item 4, Silt Barriers – 175 feet of additional silt barriers were installed at the site on the north and west slopes of the MWC to prevent erosion.
- Bid Item 7, Dismantle Chain Link Fence – 330 feet of additional chain link fence were dismantled to incorporate changes to the MWC design requested by FWP.
- Bid Item 8, Reconstruct Chain Link Fence – 430 feet of additional chain link fence were constructed to incorporate changes to the MWC design requested by FWP.
- Bid Item 9, Excavate, Screen, Haul and Dispose of Contaminated Material from the State Park at a RCRA Subtitle D Class II Solid Waste Management Facility –The volume of rock greater than 4 inches in diameter was greater than the original quantity estimate which was based on test pits excavated during the sediment removal project. As a result, only 51,600 of the 65,000 tons of contaminated material estimated by the Engineer were disposed of.
- Bid Item 10, Excavate Around Designated Trees – At the request of FWP, one tree was added to the original five scheduled to be excavated around.
- Bid Item 11, Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from the Wildlife Center at a RCRA Subtitle D Class II Solid Waste Management Facility – Since a significant portion of the material that was excavated at the MWC was concrete rather than contaminated material only 4,850 of the 5,500 tons of contaminated material was screened, treated, hauled and disposed of under this Bid Item. The concrete that was excavated from this area was broken up and disposed of under Bid Item 13.
- Bid Item 13, Separate, Haul, and Dispose of Debris from the North Slope of the Wildlife Center – This bid item was originally intended to address a small amount of concrete lying on the surface of the north and west slopes of the MWC. However, during excavation 2,175 tons of buried concrete structures and debris were unearthed at the Wildlife Center and State Park and disposed of under this bid item.
- Bid Item 15, Obtain, Place and Grade Cover Soil on Wildlife Center – 2,000 CY of additional cover soil was required to replace the unexpected volume of concrete and debris removed from the north slope of the MWC under Bid Item 13 and to contour the north slope to the revised grading plan requested by FWP.
- Bid Item 19, Reconstruct Gravel Pathway – 550 feet of additional pathway were constructed to replace area disturbed by the removal of additional contaminated material at the north side of the State Park and to provide access to the bottom of the north slope of the MWC in accordance with the revised site plan requested by FWP.

Spring Meadow Lake Reclamation Project																									
BID TABULATION				Mungas Co.		Pay Request No. 1			Pay Request No. 2			Pay Request No. 3			Pay Request No. 4			Pay Request No. 5			Totals			Reconciliation	
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	% Complete	Quantity	Present Dollars	% Complete	Quantity	Present Dollars	Actual Quantity	Cost Change												
1	1	LS	Mobilization, Demobilization, Bonding, Insurance	\$104,600.00	\$104,600.00	50.0%	0.5	\$52,300.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	50.0%	0.5	\$52,300.00	100.0%	1.0	\$104,600.00	0.0	\$0.00
2	2,000	KGAL	Provide Water	\$33.50	\$67,000.00	6.5%	130.3	\$4,365.05	30.0%	599.2	\$20,073.20	24.9%	497.8	\$16,676.30	1.8%	35.1	\$1,175.85	0.6%	11.3	\$378.55	63.7%	1,273.7	\$42,668.95	-726.3	-\$24,331.05
3	180	LF	Silt Fence	\$5.00	\$900.00	0.0%	0.0	\$0.00	268.3%	483.0	\$2,415.00	35.6%	64.0	\$320.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	303.9%	547.0	\$2,735.00	367.0	\$1,835.00
4	250	LF	Silt Barriers	\$8.00	\$2,000.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	170.0%	425.0	\$3,400.00	0.0%	0.0	\$0.00	170.0%	425.0	\$3,400.00	175.0	\$1,400.00
5	1	LS	Construct Access Road and Staging Area	\$10,100.00	\$10,100.00	100.0%	1.0	\$10,100.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00	0.0	\$0.00
6	1	LS	Clearing and Grubbing	\$7,400.00	\$7,400.00	0.0%	0.0	\$0.00	100.0%	1.0	\$7,400.00	5.0%	0.05	\$370.00	0.0%	0.00	\$0.00	0.0%	0.0	\$0.00	105.0%	1.1	\$7,770.00	0.1	\$370.00
7	750	LF	Dismantle Chain-Link Fence	\$3.50	\$2,625.00	88.5%	664	\$2,324.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	55.5%	416.0	\$1,456.00	0.0%	0.0	\$0.00	144.0%	1,080.0	\$3,780.00	330.0	\$1,155.00
8	515	LF	Reconstruct Chain-Link Fence	\$10.00	\$5,150.00	66.0%	340	\$3,400.00	5.8%	30.0	\$300.00	0.0%	0.0	\$0.00	111.7%	575.0	\$5,750.00	0.0%	0.0	\$0.00	183.5%	945.0	\$9,450.00	430.0	\$4,300.00
9	65,000	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.60	\$1,534,000.00	18.3%	11,913	\$281,146.80	60.4%	39,243.3	\$926,141.88	0.6%	399.5	\$9,428.91	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	79.3%	51,555.8	\$1,216,717.59	-13,444.2	-\$317,282.41
10	5	Each	Excavate Around Designated Trees	\$400.00	\$2,000.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00	1.0	\$400.00
11	5,500	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste Management	\$33.19	\$182,545.00	0.0%	0	\$0.00	0.0%	0.0	\$0.00	73.9%	4,064.2	\$134,891.79	14.3%	785.0	\$26,054.15	0.0%	0.0	\$0.00	88.2%	4,849.2	\$160,945.94	-650.8	-\$21,599.06
12	1	AC	Grade North Slope of Wildlife Center	\$6,400.00	\$6,400.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	-1.0	-\$6,400.00
13	50	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	\$48.00	\$2,400.00	990.0%	495	\$23,760.00	312.6%	156.3	\$7,502.40	179.8%	89.9	\$4,316.16	3568.0%	1,784.0	\$85,632.00	0.0%	0.0	\$0.00	5050.4%	2,525.2	\$121,210.56	2,475.2	\$118,810.56
14	30,500	CY	Obtain, Place and Grade Cover Soil on State Park	\$11.50	\$350,750.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	88.5%	26,985.0	\$310,327.50	17.7%	5,385.0	\$61,927.50	0.0%	0.0	\$0.00	106.1%	32,370.0	\$372,255.00	1,870.0	\$21,505.00
15	4,000	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	\$12.50	\$50,000.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	150.3%	6,011.3	\$75,140.95	0.0%	0.0	\$0.00	150.3%	6,011.3	\$75,140.95	2,011.3	\$25,140.95
16	1,890	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	\$4.20	\$7,938.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	94.1%	1,777.8	\$7,466.67	0.0%	0.0	\$0.00	94.1%	1,777.8	\$7,466.67	-112.2	-\$471.33
17	12	AC	Fertilize and Seed Disturbed Areas	\$517.50	\$6,210.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	106.7%	12.8	\$6,624.00	106.7%	12.8	\$6,624.00	0.8	\$414.00
18	12	AC	Straw Mulch Disturbed Areas	\$1,035.00	\$12,420.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	106.7%	12.8	\$13,248.00	106.7%	12.8	\$13,248.00	0.8	\$828.00
19	1,200	LF	Reconstruct Gravel Pathway	\$6.15	\$7,380.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	145.8%	1,750.0	\$10,762.50	0.0%	0.0	\$0.00	145.8%	1,750.0	\$10,762.50	550.0	\$3,382.50
20	1	LS	Obliterate and Reclaim Temporary Roadways	\$4,500.00	\$4,500.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	100.0%	1.0	\$4,500.00	0.0%	0.0	\$0.00	100.0%	1.0	\$4,500.00	0.0	\$0.00
CO #1-1	1	LS	Relocate Salvage Stone			100.0%	1.0	\$1,110.00													100.0%	1.0	\$1,110.00		
CO #1-2	1	LS	Excavate Concrete Structures and Associated Wastes at MWC			100.0%	1.0	\$17,390.00													100.0%	1.0	\$17,390.00		
CO #2-1	1	LS	Separate, Haul and Place Large Rock from Wildlife Center in State Park Removal Area						100.0%	1	\$3,000.00										100.0%	1.0	\$3,000.00		
CO #2-2	1	LS	Demolish Large Concrete Block in State Park						100.0%	1	\$925.00										100.0%	1.0	\$925.00		
CO #3-1	1	LS	Re-construct North Slope of Wildlife Center												100.0%	1.0	\$50,477.00				100.0%	1.0	\$50,477.00		
CO #3-2	1	LS	Concrete Demolition West of Stedman Building												100.0%	1.0	\$3,505.00				100.0%	1.0	\$3,505.00		
CO #4-1	1	LS	Grading and Re-graveling of Wildlife Center Parking Lot															100.0%	1.0	\$7,410.00	100.0%	1.0	\$7,410.00		
CO #5	1	LS	Reconciliation																						-\$190,542.85
			TOTAL BID =		\$2,366,318.00																				
	7.0		TOTAL PAY REQUEST No. 1 CONTRACT PRICE =		\$2,384,818.00	16.6%		\$395,895.85																	
			TOTAL PAY REQUEST No. 2 CONTRACT PRICE =		\$2,388,743.00				40.61%		\$970,157.48														
			TOTAL PAY REQUEST No. 3 CONTRACT PRICE =		\$2,388,743.00							19.94%		\$476,330.66											Final Contract
			TOTAL PAY REQUEST No. 4 CONTRACT PRICE =		\$2,442,745.00										91.25%		\$337,247.61								Amount
			TOTAL PAY REQUEST No. 5 CONTRACT PRICE =		\$2,450,135.00													92.22%		\$79,960.55	92.50%		\$2,259,592.15		\$2,259,592.15

Notes:

- AC Acres
- CY Cubic yards
- KGAL Thousand gallons
- LF Linear feet
- LS Lump sum
- SY Square yard

5.0 PROJECT COSTS

The following sections outlines and summarizes all engineering and construction costs for the SML Reclamation Project.

5.1 TOTAL PROJECT COSTS

Engineering services provided during the SML Reclamation Project included site investigation activities, engineering design and evaluation, construction oversight, and report preparation totaled \$271,886.95.

The total cost for engineering services is summarized in Table 3.

TABLE 3
ENGINEERING SERVICES COST SUMMARY
SPRING MEADOW LAKE RECLAMATION PROJECT

ENGINEERING SERVICE	YEAR	COST
Hazardous Materials Inventory	2004	\$16,100.91
RWP, RI, EEE/CA	2005/2006	\$73,834.08
EEE/CA Addendum	2006	\$6,369.94
Sediment Removal Engineering Design, Construction Oversight, Report Preparation	2008	\$18,420.93
Pattern House Stabilization Evaluation	2008	\$8,273.15
Reclamation Engineering Design and Bid Document Preparation	2009	\$44,624.94
Construction Engineering Administration, Oversight, and Report Preparation	2009	\$104,263.00
Total Engineering Services		\$271,886.95

Helena Sand and Gravel's original bid to complete the sediment removal and stockpiling work was \$9,400.00 with one change order that increased the cost by \$280.00. Mungas's original bid for reclamation construction was \$2,366,318 with five change orders that decreased the cost by \$106,726. The total project construction cost for the Spring Meadow Reclamation Project including sediment removal and stockpiling and reclamation was \$2,269,272.15. The total construction costs are summarized in Table 4.

TABLE 4

**CONSTRUCTION COST SUMMARY
SPRING MEADOW LAKE RECLAMATION PROJECT**

DEQ CONTRACT NO. 409005 SEDIMENT REMOVAL & STOCKPILINE	
Helena Sand & Gravel Original Contract	\$9,400.00
DEQ CONTRACT NO. 406005 CHANGE ORDERS	
Change Order No. 1	\$280.00
Total Change Order	\$280.00
DEQ CONTRACT NO. 410001 RECLAMATION	
Mungas Original Contract	\$2,366,318.00
DEQ CONTRACT NO. 410001 CHANGE ORDERS	
Change Order No. 1	\$18,500.00
Change Order No. 2	\$3,925.00
Change Order No. 3	\$53,982.00
Change Order No. 4	\$7,410.00
Change Order No. 5	-\$190,542.85
Total Changer Order	-\$106,725.85
TOTAL CONSTRUCTION COST	
Helena Sand & Gravel: Sediment Removal	\$9,680.00
Mungas: Reclamation Construction	\$2,259,592.15
TOTAL CONSTRUCTION COST	\$2,269,272.15

An analysis of engineering and construction costs for the project is summarized in Table 5.

TABLE 5

**ANALYSIS OF ENGINEERING AND CONSTRUCTION COSTS INCURRED
 SPRING MEADOW LAKE RECLAMATION PROJECT
 LEWIS AND CLARK COUNTY, MONTANA**

ENGINEERING SERVICES	AMOUNT	PERCENTAGE OF TOTAL CONSTRUCTION COSTS	PERCENTAGE OF TOTAL ENG. & CONST. PROJECT COSTS
Hazardous Materials Inventory	\$16,100.91	0.71%	0.63%
RWP, RI and EEE/CA	\$73,834.08	3.25%	2.91%
EEE/CA Addendum	\$6,369.94	0.28%	0.25%
Sediment Removal Engineering Design, Construction Oversight, Report Preparation	\$18,420.93	0.81%	0.72%
Pattern House Stabilization Evaluation	\$8,273.15	0.36%	0.33%
Reclamation Engineering Design and Bid Document Preparation	\$44,624.94	1.97%	1.76%
Construction Engineering Administration, Oversight, and Report Preparation	\$104,263.00	4.59%	4.10%
Total Engineering Costs	\$271,886.95	11.98%	10.70%
CONSTRUCTION SERVICES	AMOUNT	PERCENTAGE OF TOTAL CONSTRUCTION COSTS	PERCENTAGE OF TOTAL PROJECT COSTS
Helena Sand & Gavel, Contract No. 406005	\$9,400.00	0.41%	0.37%
Change Orders	\$280.00	0.01%	0.01%
Mungas Construction, Inc., Contract No. 410001	\$2,366,318.00	104.28%	93.12%
Change Orders	-\$106,725.85	-4.70%	-4.20%
Total Construction Costs	\$2,269,272.15	100.00%	89.30%
Total Engineering & Construction Costs	\$2,541,159.10	-	100.00%

6.0 PROJECT SUMMARY

Reclamation Activities at Spring Meadow Lake included two separate construction contracts. The first contract was awarded in February of 2009 to remove and stockpile 1,000 CY of sediment and soil from the east arm of SML for disposal during reclamation. The excavation and stockpiling of the sediment and soil began on February 19, 2009 and was completed on February 20, 2009.

The main contract was for reclamation construction which began on August 5, 2009, and was completed on December 1, 2009. The project included removing, screening, and disposing of 51,556 CY of sediment and soil contaminated by heavy metals from the State Park and removing, screening, and treating 4,849 CY of soil contaminated by heavy metals from the MWC.

The successful bidder for the sediment removal and stockpiling contract was Helena Sand and Gravel of Helena, MT. The successful bidder for the reclamation contract was Mungas Company, Inc., of Philipsburg, Montana. Helena Sand and Gravel's original contract bid was \$9,400.00 with one work directive and one change order, which resulted in a change to the total sediment removal contract of \$280.00. Mungas's original contract bid was \$2,366,318 with seven work directives and five change orders, which resulted in a change to the total reclamation construction cost of \$-106,726. Total construction costs including both the sediment removal and stockpiling project and the reclamation project were \$2,269,272.15. Total engineering costs were \$271,886.95. The total engineering and construction project cost was \$2,541,159.10.

The Spring Meadow Lake Reclamation project site addressed by this action has been reclaimed according to the contract design and specifications. Exposure hazards associated with this site have been mitigated to the extent feasible.

6.1 SITE MAINTENANCE

Seeding and mulching of the site were completed in December 2009. The site will be checked by DEQ MWCB periodically according to a schedule to be set by DEQ MWCB. Reclaimed areas, especially the steeper slopes along the northwest boundary of the wildlife center and adjacent to the south portion of the east arm of Spring Meadow Lake, are susceptible to erosion before vegetation becomes established and should be monitored for signs of soil movement, sloughing, and channeling. Any areas exhibiting signs of erosion before vegetation becomes established should be repaired. These repairs would likely include replacing cover soil, reseeding, and applying straw mulch. Areas where vegetation does not become

established may be reseeded and mulched. Construction of additional straw bale barriers or silt barriers may be helpful to limit erosion in susceptible areas.

6.2 DRAWINGS AND PHOTO LOG

As-constructed drawings are in Appendix L. A photographic log of the construction is in Appendix M.

REFERENCES

- Tetra Tech EM Inc. (TtEMI). 2006. *Draft Final Reclamation Investigation and Expanded Engineering Evaluation and Cost Analysis*. Prepared for the Mine Waste Cleanup Bureau, Montana Department of Environmental Quality. January.
- TtEMI. 2009. *Construction Report for the Spring Meadow Lake State Park-Soil/Sediment Removal*. Prepared for the Mine Waste Cleanup Bureau, Montana Department of Environmental Quality. March.
- TtEMI. 2009. *Design Memorandum for the Spring Meadow Lake Reclamation Project*. Prepared for the Mine Waste Cleanup Bureau, Montana Department of Environmental Quality. May.

APPENDIX A

CONSTRUCTION REPORT
FOR THE SPRING MEADOW LAKE STATE PARK
SOIL/SEDIMENT REMOVAL

**CONSTRUCTION REPORT
FOR THE
SPRING MEADOW LAKE STATE PARK - SOIL/SEDIMENT REMOVAL
LEWIS & CLARK COUNTY, MONTANA
MT DEQ CONTRACT NO. 409005**



Spring Meadow Lake East Arm Sediment Removal – February 2009

Prepared for:
Montana Department of Environmental Quality
Mine Waste Cleanup Bureau
P.O. Box 200901
Helena, Montana 59620-0901

Prepared by:
Tetra Tech EM Inc.
7 West 6th Avenue, Suite 612
Helena, Montana 59601

March 2009

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**CONSTRUCTION REPORT
FOR THE
SPRING MEADOW LAKE STATE PARK - SOIL/SEDIMENT REMOVAL
LEWIS & CLARK COUNTY, MONTANA
MT DEQ CONTRACT NO. 409005**

1.0 INTRODUCTION

Tetra Tech EM Inc. (TtEMI) received Task Order No. 34 from the Montana Department of Environmental Quality (DEQ)/Mine Waste Cleanup Bureau (MWCB) on November 18, 2008 to design and provide construction oversight for an expedited removal of soil and sediment from the east arm of Spring Meadow Lake. This soil and sediment removal is part of the Spring Meadow Lake Reclamation Project which includes reclamation of mineral processing contaminated areas in portions of Spring Meadow Lake State Park and the Montana Wildlife Center located in Lewis & Clark County.

2.0 DESIGN AND BIDDING

A Limited Construction Contract bid package was prepared by TtEMI to procure a Contractor to excavate and stockpile approximately 1,000 cubic yards (CY) of soil and sediment from the east arm of Spring Meadow Lake during the normal low water period (February and March). The work was bid on January 20, 2009. A total of 15 contractors bid the work with bids ranging from a low of \$9,400.00 to a high of \$42,000.00. The low bidder was Helena Sand & Gravel, Inc. of Helena, Montana. The bid tabulation is included in Appendix A.

3.0 CONSTRUCTION

Helena Sand & Gravel, Inc. (HSG) was awarded the contract on January 26, 2009 to excavate soil and sediment from the east arm of the Spring Meadow Lake and to transport, place and cover the excavated material in an on-site stockpile. A summary of all contract documents and corresponding dates is provided in Table 1. The construction agreement was executed on February 6, 2008. A pre-construction meeting was held on February 13, 2009 to review the required work and to discuss HSG's proposed personnel, equipment and work schedule.

HSG began to mobilize equipment to the site on February 19, 2009. Excavation and placement of the soil and sediment was completed on February 20, 2009. Additional work on fence restoration and on the stockpile tarp anchoring was completed on February 24 and February 27, 2008 respectively. Daily construction reports summarizing the work completed on these four days are included in the Appendix A.

The final inspection of the work was completed on March 6, 2009 and the work accepted by the DEQ on that date.

Two work directives and one change order were issued during the project. Work Directive No. 1 was issued on February 19, 2009, and instructed HSG to dig several test holes within the contaminated area of the State Park to help determine if waste screening would result in a significant reduction in volume of waste requiring off-site disposal. Work Directive No. 2, was issued on February 24, 2009, and instructed HSG to eliminate the use of landscape spikes as part of stockpile tarp anchoring system and to provide additional sandbags as a no-cost alternative. Change Order No. 1 was executed on February 26, 2009, and modified the contract to pay for the excavation of the test pits included in the work by Work Directive No. 1 (\$280.00).

Contract documentation including the Notice of Award, Pre-Construction Meeting Minutes, Notice to Proceed, Work Directives No. 1 and No. 2, Change Order No. 1, Affidavit on Behalf of the Contractor, Contractor's Certificate of Completion, Certificate of Acceptance, and Final Payment Request are included in Appendix B.

**TABLE 1
CONTRACT NO. 409005 DOCUMENT SUMMARY**

Document	Action	Date	Amount
Bid Closing Date		January 20, 2009	\$9,400.00
Notice of Award	Issued	January 26, 2009	
	Accepted	February 6, 2009	
Construction Agreement Executed		February 6, 2009	
Pre-Construction Meeting		February 13, 2009	
Notice to Proceed	Issued	February 17, 2009	
	Accepted	February 17, 2009	
Work Directive No. 1	Issued	February 19, 2009	\$280.00
	Accepted	February 19, 2009	
Work Directive No. 2	Issued	February 24, 2009	
	Accepted	February 24, 2009	
Change Order No. 1 Executed	Issued	February 25, 2009	
	Accepted	February 26, 2009	
Final Inspection		March 6, 2009	
Affidavit on Behalf of Contractor		March 6, 2009	
Contractor's Certificate of Completion		March 6, 2009	
Certificate of Acceptance		March 6, 2009	
Payment Request, Final		March 16, 2009	\$9,680.00

APPENDIX A
BID TABULATIONS

SPRING MEADOW LAKE STATE PARK - SOIL/SEDIMENT REMOVAL
CONTRACT #409005
BID TABULATION
January 2009

BID ITEM	1		2		3		4		TOTAL BID
	Mobilization/Demobilization		Soil Excavation, Haul and Stockpile		Cover Stockpile with One (1) Singular Heavy Duty Polyethylene Tarp, Anchor with Sandbags on 5 foot grid, and Secure with Landscape Spikes and Washers		Re-grade Excavation and Bank Slopes		
UNIT	LS		CY		SY		LS		TOTAL BID
QUANTITY	1		1000		500		1		
BIDDER	Cost per Unit	Total Cost	Cost per Unit	Total Cost	Cost per Unit	Total Cost	Cost per Unit	Total Cost	TOTAL BID
Helena Sand & Gravel, Inc.	\$1,650.00	\$1,650.00	\$5.00	\$5,000.00	\$5.00	\$2,500.00	\$250.00	\$250.00	\$9,400.00
Thompson Contracting Inc.	\$1,200.00	\$1,200.00	\$5.98	\$5,980.00	\$3.08	\$1,540.00	\$760.00	\$760.00	\$9,480.00
Stalnaker Transport & Construction	\$800.00	\$800.00	\$8.00	\$8,000.00	\$4.00	\$2,000.00	\$500.00	\$500.00	\$11,300.00
Bullock Contracting LLC	\$2,000.00	\$2,000.00	\$7.43	\$7,430.00	\$6.60	\$3,300.00	\$250.00	\$250.00	\$12,980.00
Mungus Co. Inc. Mining & Construction	\$5,300.00	\$5,300.00	\$5.50	\$5,500.00	\$5.80	\$2,900.00	\$900.00	\$900.00	\$14,600.00
Stream Works Inc.	\$2,000.00	\$2,000.00	\$9.83	\$9,830.00	\$4.02	\$2,010.00	\$1,300.00	\$1,300.00	\$15,140.00
Northwind, Inc.	\$2,754.00	\$2,754.00	\$9.73	\$9,730.00	\$6.30	\$3,150.00	\$1,125.00	\$1,125.00	\$16,759.00
Hoffman's R&M Services	\$3,340.00	\$3,340.00	\$8.85	\$8,850.00	\$7.03	\$3,515.00	\$1,700.00	\$1,700.00	\$17,405.00
Western Reclamation	\$6,068.00	\$6,068.00	\$7.03	\$7,030.00	\$7.80	\$3,900.00	\$750.00	\$750.00	\$17,748.00
Shumaker Truckign & Excavating Contractors, Inc.	\$8,500.00	\$8,500.00	\$8.50	\$8,500.00	\$6.00	\$3,000.00	\$440.00	\$440.00	\$20,440.00
Vernon Campbell Excavation, Inc.	\$5,000.00	\$5,000.00	\$10.00	\$10,000.00	\$9.00	\$4,500.00	\$1,500.00	\$1,500.00	\$21,000.00
Montana Underground Construcion Co.	\$5,000.00	\$5,000.00	\$12.50	\$12,500.00	\$8.64	\$4,320.00	\$1,937.00	\$1,937.00	\$23,757.00
Omdahl Excavation & Utilities, Inc.	\$3,500.00	\$3,500.00	\$10.00	\$10,000.00	\$30.00	\$15,000.00	\$1,500.00	\$1,500.00	\$30,000.00
Diamond Construction	\$10,000.00	\$10,000.00	\$14.00	\$14,000.00	\$10.00	\$5,000.00	\$2,800.00	\$2,800.00	\$31,800.00
Trapper Peak Construction, Inc.	\$12,000.00	\$12,000.00	\$15.00	\$15,000.00	\$15.00	\$7,500.00	\$7,500.00	\$7,500.00	\$42,000.00

APPENDIX B
CONSTRUCTION DAILY REPORTS

SPRING MEADOW LAKE EAST ARM SEDIMENT REMOVAL

DEQ CONTRACT NO. 409005

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** February 19, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Helena Sand & Gravel, Inc

WEATHER: Partly Cloudy & cool
TEMP: 27-46 °F **WATER LEVEL:** NA

PERSONNEL ON SITE:

TtEMI: RPR : GLS **RPR Arrival time:** 7:30 **Mileage:** 23752
Other : **Departure Time:** 17:10 **Mileage:** 23846
DEQ: RPM: Pebbles Clark 94
Trapper: Supt: Steve Burch, On-Site Superintend
Other: NA

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330C Trackhoe	1	7.	
2. CAT 730 Haul Truck	1	8.	
3. JD 650J Dozer	1	9.	
4.		10.	
5.		11.	
6.		12.	

Contractor Arrival: 8:00 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Mobilizing equipment to site including excavator, haul truck, and small dozer. 2. Excavated three test pits per Work Directive #1. 3. Constructed two post space opening in fence to allow waste haul into fenced area. 4. Commenced waste excavation in northeast corner of removal area. 5. Placed two loads of waste and vegetation at designated stockpile location.

ISSUES/CONCERNS:

1. Reemphasized safety and security concerns including park users and fence reconnection at end of work shift.

PHOTOGRAPHS:

Photo Number: 1 Date: 2/20/2009 Time 10:09

Description: Test pit 401 located east of removal area near sample site TP-128. Depth to cobble level at bottom of pit about 54 inches.

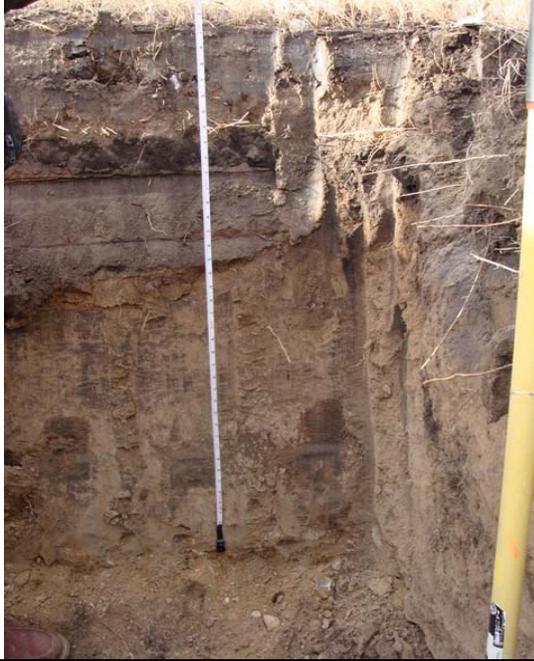


Photo Number: 2 Date: 2/20/2009 Time 10:32

Description: Test pit 402 located east of removal area near sample site TP-119. Depth to cobble level at bottom of pit about 48 inches.



PHOTOGRAPHS:

Photo Number: 3 Date: 2/20/2009 Time 16:31

Description: Loading waste excavated from east side of removal area into haul truck.



Photo Number: 4 Date: 2/20/2009 Time 17:28

Description: Excavating waste from area around trees on east portion of removal area.



SPRING MEADOW LAKE EAST ARM SEDIMENT REMOVAL

DEQ CONTRACT NO. 409005

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** February 20, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Helena Sand & Gravel, Inc

WEATHER: Overcast and cool
TEMP: 33-44 °F **WATER LEVEL:** NA

PERSONNEL ON SITE:

TtEMI: RPR : GLS **RPR Arrival time:** 7:00 **Mileage:** 24320
Other : **Departure Time:** 14:45 **Mileage:** 24327
DEQ: RPM: Pebbles Clark 7
Trapper: Supt: Steve Burch, On-Site Superintend
Other: Ed Rosenbloom, Excavator Opera
 Brian Cullen, Truck Driver

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330C Trackhoe	1	7.	
2. CAT 730 Haul Truck	1	8.	
3. JD 650J Dozer	1	9.	
4.		10.	
5.		11.	
6.		12.	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavating and relocation waste to designated waste stockpile. 2. Layout of tarp over stockpile required modifications to anchoring system. Used soil to anchor bottom edge on north side of stockpile and folded over tarp on other edges to minimize area of tarp on ground. 3 Secured fence at end of work shift.

ISSUES/CONCERNS:

1. Held tail gate safety/progress meeting first thing in morning with special emphasize on safety and security concerns including park users and fence reconnection at end of work shift. 2. Gormet spacing on tarp in excess of 18 inches in specs also Contractor did not have landscape spikes. May need to develop alternative anchoring procedure for bottom edge of tarp. 3. Decided to keep park closed until fence is totally restored.

PHOTOGRAPHS:

Photo Number: 1 Date: 2/20/2009 Time 10:03
Description: Excavating blue gray sediment near center of removal area.



Photo Number: 2 Date: 2/20/2009 Time 11:18
Description: Dumping waste on stockpile.



PHOTOGRAPHS:

Photo Number: 1 Date: 2/20/2009 Time 13:08

Description: Removal area looking toward MWC after excavation.



Photo Number: 2 Date: 2/20/2009 Time 17:28

Description: Test pit 404 located northeast of removal area near sample site TP-156. Depth to cobble level at bottom of pit about 42 inches.



PHOTOGRAPHS:

Photo Number: 1 Date: 2/24/2009 Time 10:09
Description: Removal area looking north with large portion flooded by groundwater post excavation.



Photo Number: _____ 2 Date: _____ Time _____
Description: _____

PHOTOGRAPHS:

Photo Number: 1 Date: 2/27/2009 Time 13:41
Description: Placing additional sandbags along outer edge of top of stockpile per Work Directive #2.



Photo Number: 2 Date: 2/27/2009 Time 14:19
Description: Restretching barb wire on fence south of removal area.



APPENDIX C
CONSTRUCTION DOCUMENTATION

DEQ ORIGINAL

NOTICE OF AWARD

TO: Helena Sand & Gravel, Inc.
P.O. Box 5960
Helena, MT 59604

DATE: January 26, 2009
PROJECT: Spring Meadow Lake State Park -
Soil/Sediment Removal
DEQ Contract No.: 409005

PROJECT DESCRIPTION: This reclamation project involves removing waste materials from the East Arm portion of Spring Meadow Lake State Park, transporting the waste to an onsite stockpile location, stockpiling the waste material, covering and securing the material with a tarp, and re-grading the excavation bank slope.

The Owner has considered the Bid submitted by you for the above-described Work in response to its Invitation for Bid dated January 8, 2009.

You are hereby notified that your bid has been accepted for items in the amount of \$9,400.00.

Within five (5) days after receipt of this Notice of Award (Saturdays, Sundays and legal holidays excluded) or as Owner and Contractor otherwise mutually agree, you shall execute and deliver to Owner a copy of the Acceptance of Notice of Award, all executed copies of the Agreement, and all Certificates of Insurance and copies of applicable insurance policies and/or certificates as set forth in Article 12(3) of the Agreement.

If you fail to execute said Agreement and to furnish said Insurance within five (5) days after receipt of this Notice of Award (Saturdays, Sundays and legal holidays excluded) or as Owner and Contractor otherwise mutually agree, said Owner will be entitled to consider all your rights (arising out of the Owner's acceptance of your Bid) as abandoned. The Owner will be entitled to exercise such other and further rights as may be granted by law.

Please return an acknowledged copy of this Notice of Award to the Owner.

Dated 2nd day of February 2009.

OWNER:

DEPARTMENT OF ENVIRONMENTAL QUALITY

By: 
John Koerth

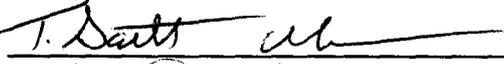
Title: AML Program Manager

ACCEPTANCE OF NOTICE OF AWARD

Receipt of the above Notice of Award is hereby acknowledged this 6 day of February 2009.

CONTRACTOR:

Helena Sand & Gravel, Inc.

By: 

Title: Vice President

RECEIVED BY DEQ
FINANCIAL SERVICES
2009 FEB 11 AM 10:57

**SPRING MEADOW LAKE PARK
EAST ARM SEDIMENT REMOVAL PROJECT
PRE-CONSTRUCTION CONFERENCE
CONTRACT #409005
FRIDAY, FEBRUARY 13, 2009**

ATTENDING PERSONNEL

Pebbles Clark, Project Manager
Mine Waste Cleanup Bureau
Department of Environmental Quality
1100 Last Chance Gulch
P.O. Box 200901
Helena, MT 59620-0901
Phone: 406.841.5028
Fax: 406.841.5024
E-mail – Pclark2@mt.gov

Gary Sturm, Project Engineer
Tetra Tech EMI
7 West 6th Avenue, Suite 612
Helena, MT 59601
Phone: 406.444.5588 Fax: 406.442.7182
E-mail: gary.sturm@ttemi.com

Van Hildreth, Contractor/Project Supervisor/QA-CC Officer
Helena Sand & Gravel, Inc..
P.O. Box 5960
Helena, MT 59601
Phone: 406.459.2003 (Cell)
Fax: 406.449.7669
E-mail: vhildreth@helenasandandgravel.com

Subcontractors: None

DISCUSSION ITEMS

1) Terms of Contract

- Pay request at end of work. One lump sum.
- Go over each item in Contract

2) Survey and Measurement

- Tetra Tech will stake removal area
- Tetra Tech will complete post construction pay quantity measurements

3) Submittals

- Signed Contract
- Insurance Documents
- Health and Safety Plan
- Hazwoper Certifications
- Material submittals – tarp, spikes
- We discussed that no bonds were required under this contract

4) Clarifications

- None at this time.

5) Other issues

- Potential change order to dig test pits in park between removal area and entrance gate. Van quoted us \$140/hr for the excavator and operator. DEQ told him that a work directive would be issued for this work.
- Fence reconnection at end of work day
- DEQ/TT will block off bridges and post signs
- TT part time oversight
- How long does HSG expect work to take? HSG stated that they would have all the digging done in one (1) day.
- When does HSG plan to start work? HSG stated that they anticipated they would be completely done by Friday, February 27, 2009.
- Notice to Proceed – I will issue once I have looked over all the insurance documents, health and safety plan, and Hazwoper certs. Van delivered the Hazwoper certifications and the health and safety plan.

We also discussed the following items.

- DEQ will issue a work directing and change order for the test pits at \$140/hr for two hours for a total of \$280.
- HSG will be mobbing their equipment to the site on Thursday, February 19, 2009. They also plan on taking down the fence this day and having the utility locate completed. DEQ will close off the park this day and post signs. TT will mark off the excavation area.
- Van asked if they could work on Saturday, February 21, 2009. Gary Sturm, TT told him he would have to request this in writing to DEQ.

- We discussed that DEQ would open the gate at the Montana Wildlife Center to let the utility locate guy into to complete the locate within the fenced area. HSG will not have the fence down until the afternoon.
- Three HSG employees will be working on the project.
 - Ed Rosenbloom, excavator operator
 - Brian Cullen, haul truck driver
 - Steve Burch, superintendent

NOTICE TO PROCEED

TO: Helena Sand and Gravel
2209 Airport Road

P.O. Box 5960

Helena, MT 59604-5960

DATE: February 17, 2009
PROJECT: **Spring Meadow Lake State Park –
Soil/Sediment Removal**

DEQ Contract No. **409005**

In accordance with the Agreement dated February 6, 2009, you are hereby notified to commence Work no later than February 19, 2009, and you are to complete the Work by March 15, 2009. The date of completion of all Work is, therefore, March 15, 2009.

OWNER:

DEPARTMENT OF ENVIRONMENTAL QUALITY

By:

John Koerth
John Koerth

Title: DEQ-AMS Supervisor

ACCEPTANCE OF NOTICE TO PROCEED

Receipt of the above Notice to Proceed is hereby acknowledged this 17 day of FEB, 2009.

CONTRACTOR:

Helena Sand and Gravel

By:

Van [Signature]
Title: PROJECT MANAGER

RECEIVED

FEB 17 2009

Dept. of Environmental Quality
Remediation Division

WORK DIRECTIVE CHANGE

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be issued.

B. COMPLETING THE WORK DIRECTIVE CHANGE

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer to indicate the following and attach the same hereto:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Indicate the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Price, the space for estimated increase (decreased) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Indicate the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves and increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed this form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed for final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 01

PROJECT: Spring Meadow Lake East Arm Sediment Removal Project

DATE OF ISSUANCE: 02/19/2009

CONTRACTOR: Helena Sand & Gravel, Inc.
Helena, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 409005

CONTRACT FOR: AMLReclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor will dig three test pits at the locations indicated on the attached map to a depth of 4 feet to allow DEQ to collect samples for additional testing. Contractor will be compensated based on a cost of \$140.00 per hour for use of excavator including operator.

Purpose of Work Directive Change: To provide information on potential waste volume reduction for anticipated site-wide reclamation project.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase (decrease) in Contract Price: \$280.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Time: NA days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: _____

Daryl J. Stone
T+EMI
Engineer

AUTHORIZED:

By: _____

Pebbles Clark
DEQ-AML
Owner

ACCEPTED:

By: _____

M. Stone
HSG
Contractor

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 02

PROJECT: Spring Meadow Lake State Park – Soil/Sediment Removal

DATE OF ISSUANCE: 02/24/2009

CONTRACTOR: Helena Sand & Gravel, Inc.
Helena, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 409005

CONTRACT FOR: AMLReclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor will substitute 100 additional sand bags in lieu of contract specified landscape spikes to secure tarp covering the excavated soil stockpile. Substitution of sand bags for landscape spike will be accomplished at no change in contract price.

Purpose of Work Directive Change: To provide more suitable tarp anchoring based on final stockpile configuration and to eliminate possible tarp ripping due to use of landscape spikes.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase (decrease) in Contract Price: NA. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase (decrease) in Contract Time: NA days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: Mary L. Stone Tetra Tech EM Inc
Engineer

AUTHORIZED:

By: Pebbles Clark
Owner

ACCEPTED:

By: [Signature]
Contractor

WORK DIRECTIVE CHANGE

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed for use in situations involving changes in the Work which, if not processed expeditiously, might delay the Project. These changes are often initiated in the field and may affect the Contract Price or the Contract Time. This is not a Change Order, but only a directive to proceed with Work that may be included in a subsequent Change Order.

For supplemental instructions and minor changes not involving a change in the Contract Price or the Contract Time, a Field Order may be issued.

B. COMPLETING THE WORK DIRECTIVE CHANGE

Engineer initiates the form, including a description of the items involved and attachments.

Based on conversations between Engineer and Contractor, Engineer to indicate the following and attach the same hereto:

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT PRICE: Indicate the method to be used in determining the final cost of Work involved and the net effect on the Contract Price. If the change involves an increase in the Contract Price and the estimated amount is approached before the additional or changed work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Price, the space for estimated increase (decreased) should be marked "Not Applicable".

METHOD OF DETERMINING CHANGE, IF ANY, IN CONTRACT TIME: Indicate the method to be used in determining the change in Contract Time and the estimated increase or decrease in Contract Time. If the change involves an increase in the Contract Time and the estimated time is approached before additional or changed Work is completed, another Work Directive Change must be issued to change the time or Contractor may stop the changed Work when the estimated time is reached. If the Work Directive Change is not likely to change the Contract Time, the space for estimated increase (decrease) should be marked "Not Applicable".

Once Engineer has completed and signed this form, all copies should be sent to Owner for authorization because Engineer alone does not have authority to authorize changes in Price or Time. Once authorized by Owner, a copy should be sent by Engineer to Contractor.

Once the Work covered by this directive is completed for final cost and time determined, Contractor should submit documentation for inclusion in a Change Order.

THIS IS A DIRECTIVE TO PROCEED WITH A CHANGE THAT MAY AFFECT THE CONTRACT PRICE OR THE CONTRACT TIME. A CHANGE ORDER, IF ANY, SHOULD BE CONSIDERED PROMPTLY.

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake State Park – Soil/Sediment Removal CHANGE ORDER NO.: 1

DEQ Contract No.: 409005

CONTRACT DATE: February 6, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Helena Sand and Gravel

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1-1	Excavation of four test pits on park land to ascertain quantity of large cobble and to collect soil samples. Two hours excavator time at \$140.00 per hour.			280.00			280.00
TOTAL COST						<u>280.00</u>	
GRAND TOTAL - THIS CHANGE ORDER						<u>280.00</u>	

Original Contract Price:	\$ 9,400.00
Current Contract Price Adjusted by Previous Change Order:	\$ 9,400.00
Cost this Change Order (+ or -):	\$ 280.00
New Contract Price including this Change Order:	\$ 9,680.00

The completion date as set forth in the Contract Documents shall be increased by 0 calendar days.

The date for completion of all work will be March 15, 2009.

Description and Justification for Change:

1. Additional test pits required to determine whether or not waste screening will result in significant waste volume reduction and to allow collection of additional soil sampling for TCLP analysis.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order.

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: NA

Seal

Recommended by:

Gary L. Stum
Engineer

02/25/2009

Date

Accepted by:

Gary L. Stum
Contractor

02/26/2009

Date

Approved by:

Pebbles Clark
Owner

02/25/2005

Date

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Montana Department of DATE: 3/6/2009
Environmental Quality, Mine Waste PROJECT TITLE: Spring Meadow Lake State Park
Cleanup Bureau Soil/Sediment Removal

DEQ Contract No. 409005
ATTN: Engineer Tetra Tech EM Inc. CONTRACT DATE: February 6, 2009

FROM: Helena Sand and Gravel
(Firm or Corporation)

This is to certify that I, VAN HEDRETH, am an authorized official of Helena Sand and Gravel, working in the capacity of PROJECT MANAGER and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your substantial completion inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: Helena Sand and Gravel
By: [Signature]
Title

- Distribution:
- 1. Project Manager
 - 2. Field Office
 - 3. File

CERTIFICATE OF ACCEPTANCE

TO: Mine Waste Cleanup Bureau, State of Montana, Department of Environmental Quality (OWNER)

PROJECT TITLE: Spring Meadow Lake State Park – Soil/Sediment Removal

DEQ Contract No. 409005

CONTRACT DATE: February 6, 2009

LOCATION: Lewis & Clary County, Montana

FINAL ACCEPTANCE DATE:

DEQ INSPECTION DATE: 03/06/2009

ENGINEER: Tetra Tech EM Inc.

PROJECT OR PART SHALL INCLUDE:

Spring Meadow Lake State Park – Soil/Sediment Removal, East Arm Portion of the Park

PERFORMANCE BOND NO: Not Required

DATE OF BOND: NA

SURETY: NA

CONTRACTOR: Helena Sand and Gravel

MONTANA AGENT: NA

ADDRESS: PO Box 5960, Helena, MT 59604

ADDRESS: NA

TELEPHONE NO: (406) 442-1185

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be totally completed and accepted on the above date.

ENGINEER: Tetra Tech EM Inc.

By [Signature]
Authorized Representative

03/06/2009
Date

The Contractor accepts the above Certificate of Acceptance.

CONTRACTOR: Helena Sand and Gravel

By [Signature]
Authorized Representative

3/6/09
Date

The Owner accepts the Project as totally complete, and final payment is due to the Contractor as provided in the contract documents.

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

By [Signature]
Authorized Representative

3/6/09
Date

SPRING MEADOW LAKE STATE PARK - SOIL / SEDIMENT REMOVAL LEWIS & CLARK COUNTY, MONTANA

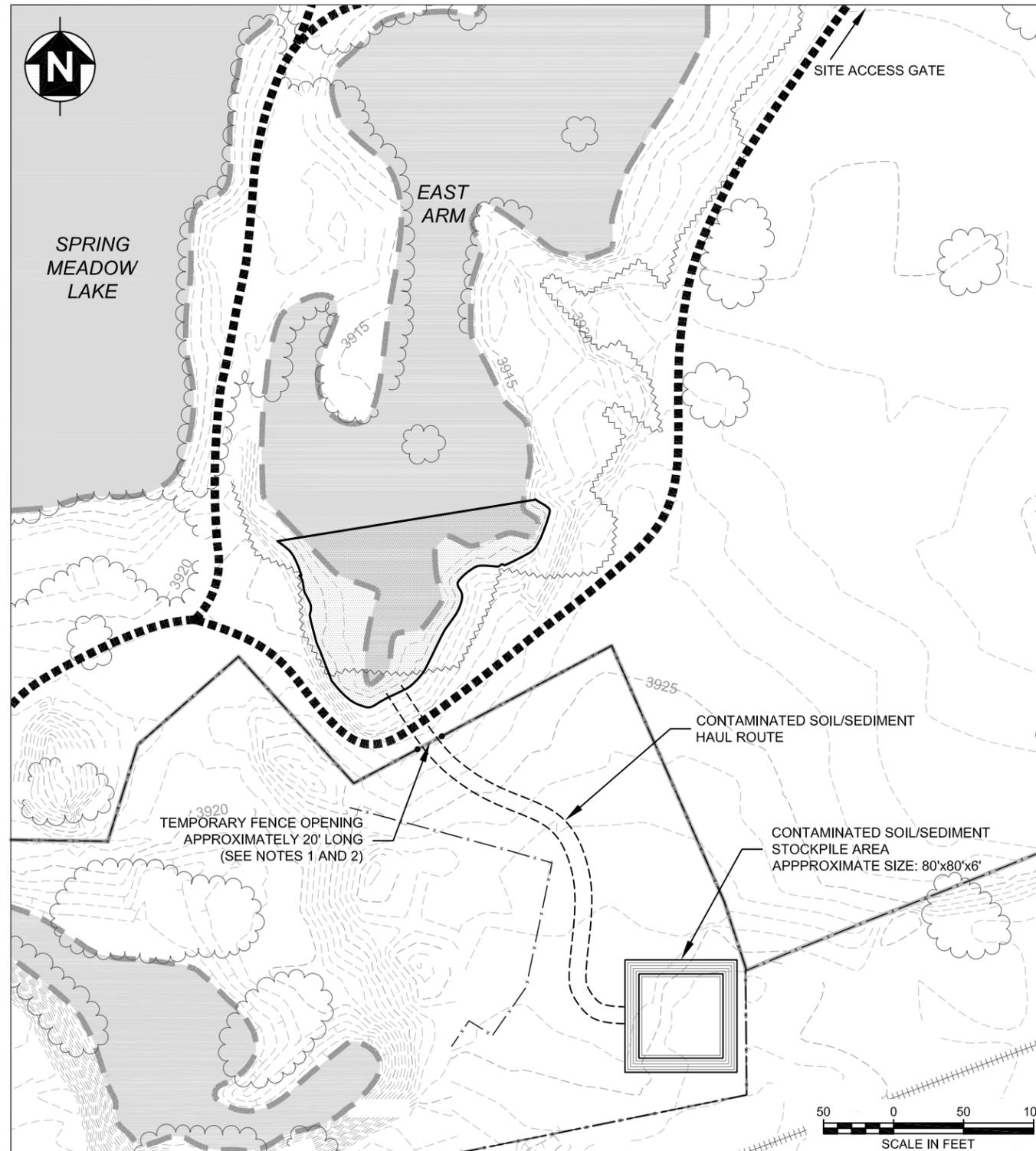
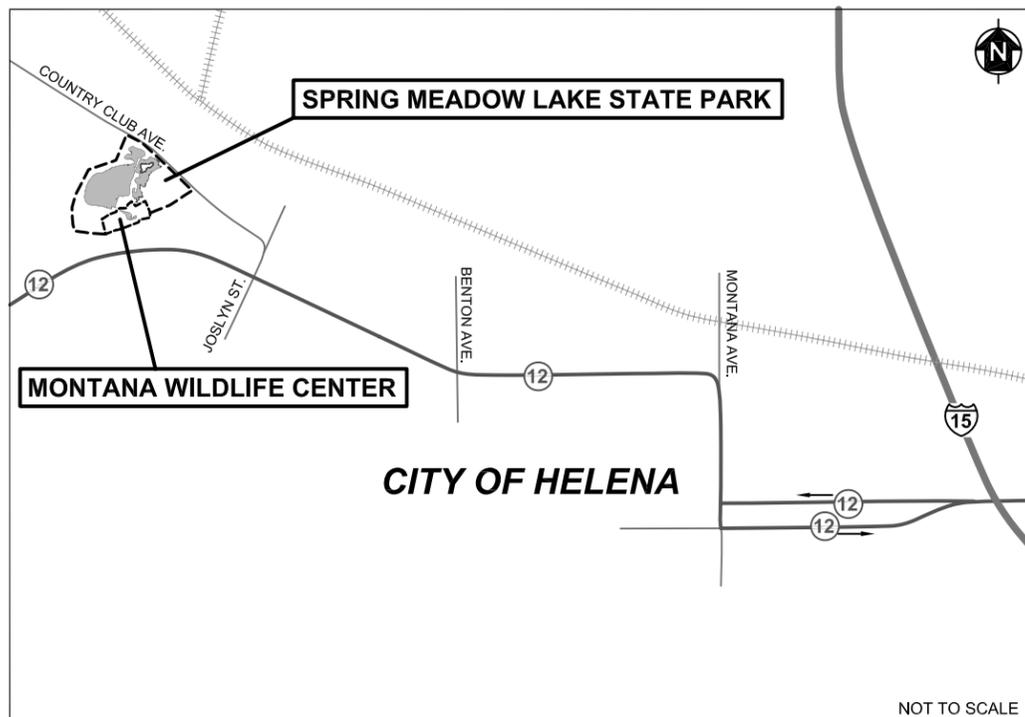
PREPARED FOR:
MINE WASTE CLEANUP BUREAU
MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
HELENA, MONTANA

LEGEND

-  SOIL / SEDIMENT REMOVAL AREA
- GENERAL FEATURES:**
-  ELEVATION CONTOUR-MAJOR (5' INTERVAL)
-  ELEVATION CONTOUR-MINOR (1' INTERVAL)
-  FENCE
-  FORMER RAILROAD TRACK
-  PEDESTRIAN TRAIL
-  TREE
-  MONTANA WILDLIFE CENTER PROPERTY LINE
-  SPRING MEADOW LAKE STATE PARK PROPERTY LINE

NOTES

1. DISMANTLE FENCE AS REQUIRED TO ALLOW WASTE HAUL. RESTORE FENCE AFTER WORK IS COMPLETE.
2. CHAIN LINK FABRIC TO BE RECONNECTED TO POST AT END OF EACH WORK SHIFT TO MAINTAIN SITE SECURITY.



REVISIONS

NO.	DESCRIPTION	DATE	BY:

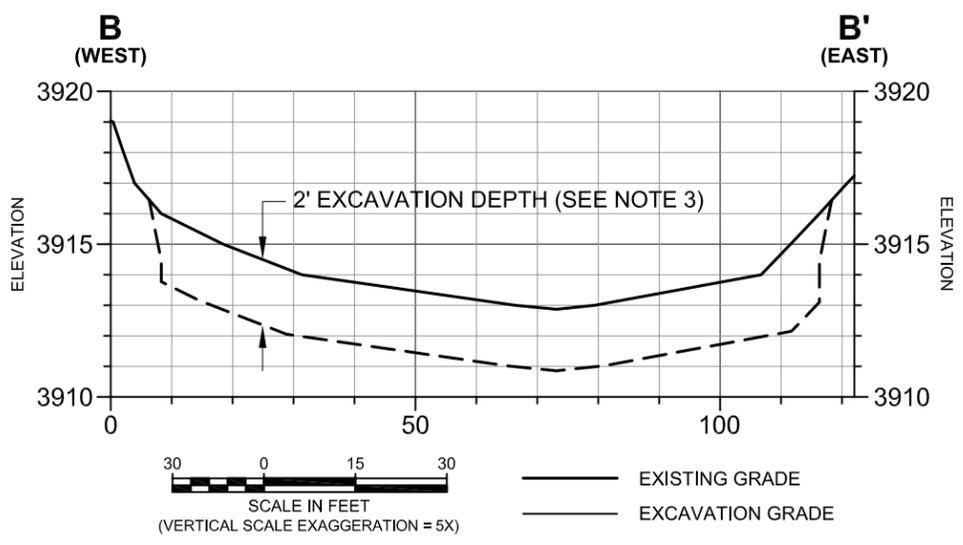
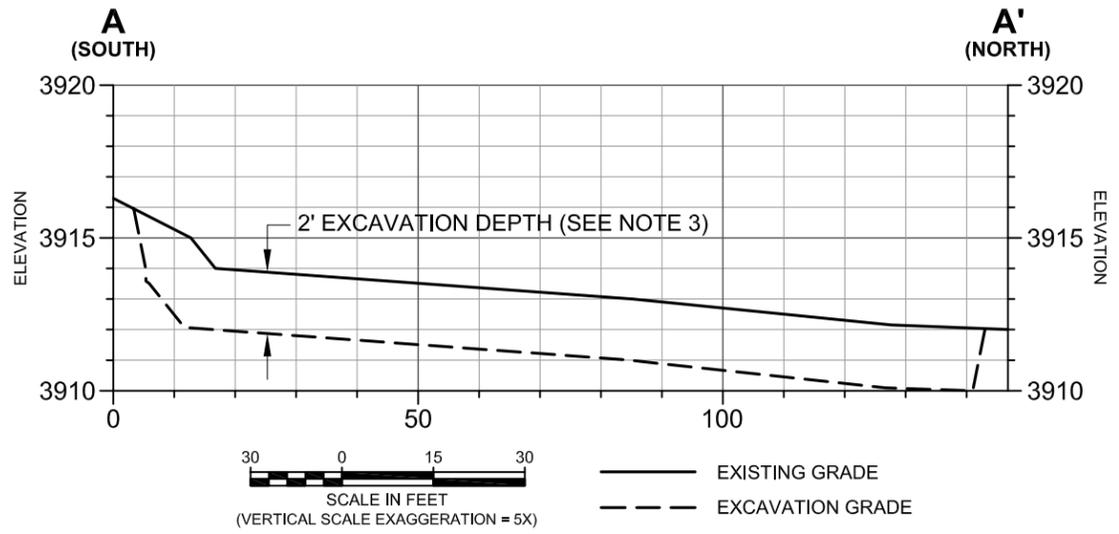
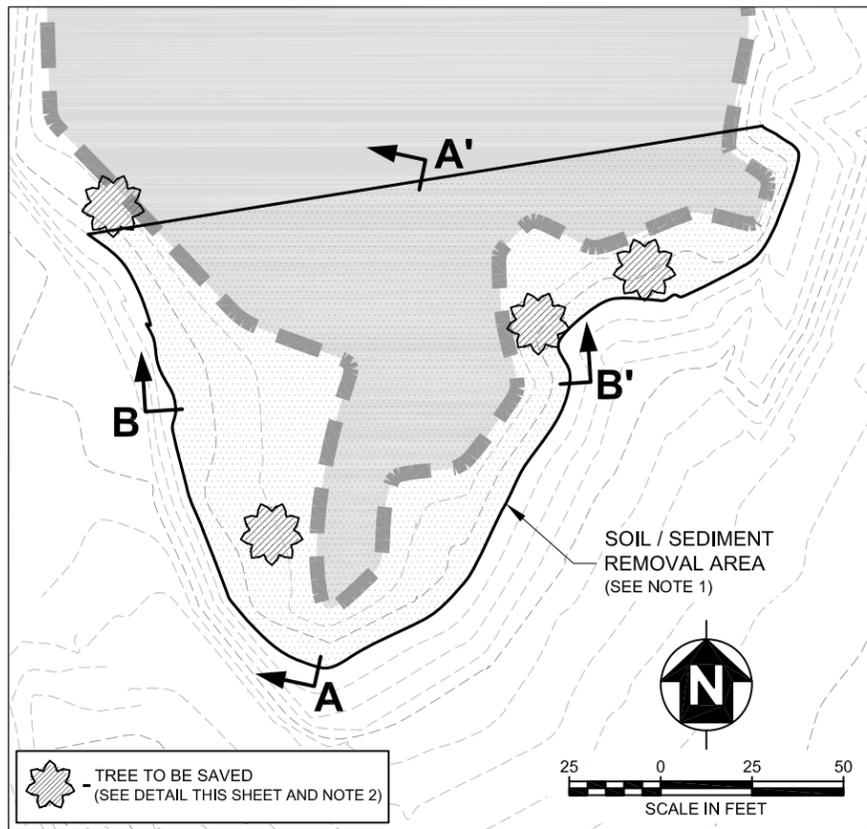
Spring Meadow Lake State Park
Lewis & Clark County, Montana
Contract No. 409005

**TITLE SHEET
AND LOCATION MAPS**

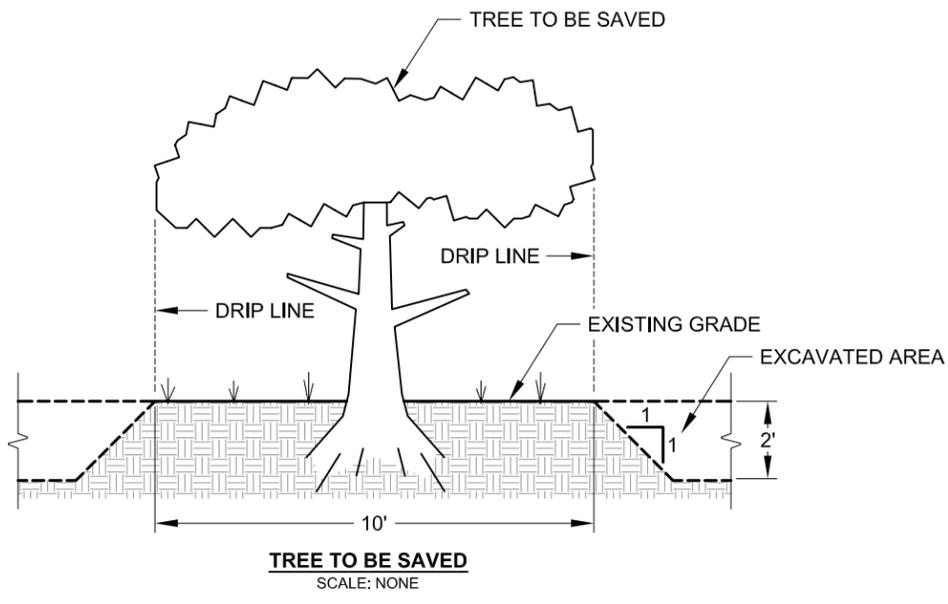


Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

DRAWING NAME	Sheet 1-Title											
PROJECT NUMBER	103DS1613034-02											
DRAWN BY: D.W.H.	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">SHEET</td> <td rowspan="5" style="text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center; font-size: 2em;">1</td> <td style="text-align: center; font-size: 2em;">OF</td> </tr> <tr> <td style="text-align: center; font-size: 2em;">2</td> <td> </td> </tr> </table> </td> </tr> <tr> <td>CHK'D BY: C.E.M.</td> </tr> <tr> <td>APPR. BY: G.L.S.</td> </tr> <tr> <td>DATE: 1 / 2009</td> </tr> <tr> <td>REV. NO.</td> </tr> <tr> <td>DATE:</td> </tr> </table>	SHEET	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center; font-size: 2em;">1</td> <td style="text-align: center; font-size: 2em;">OF</td> </tr> <tr> <td style="text-align: center; font-size: 2em;">2</td> <td> </td> </tr> </table>	1	OF	2		CHK'D BY: C.E.M.	APPR. BY: G.L.S.	DATE: 1 / 2009	REV. NO.	DATE:
SHEET		<table border="1" style="width: 100%;"> <tr> <td style="text-align: center; font-size: 2em;">1</td> <td style="text-align: center; font-size: 2em;">OF</td> </tr> <tr> <td style="text-align: center; font-size: 2em;">2</td> <td> </td> </tr> </table>		1	OF	2						
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CHK'D BY: C.E.M.												
APPR. BY: G.L.S.												
DATE: 1 / 2009												
REV. NO.												
DATE:												



- NOTES**
1. EXTENT OF EXCAVATION TO BE MARKED IN FIELD BY ENGINEER.
 2. TREES TO BE SAVED TO BE MARKED IN FIELD BY ENGINEER.
 3. AFTER FINAL EXCAVATION OF SOIL / SEDIMENT IS COMPLETE, REGRADE EXCAVATION TO PROVIDE UNIFORM 1:1 BANK SLOPE.



REVISIONS

NO.	DESCRIPTION	DATE	BY:

Spring Meadow Lake State Park
Lewis & Clark County, Montana
Contract No. 409005

EXCAVATION DETAIL AND CROSS SECTIONS

0 1"
If Bar Does Not Scale Out To 1 Inch, This Set Of Plans Has Been Reduced.

Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

DRAWING NAME	Sheet 2-Details						
PROJECT NUMBER	103DS1613034-02						
DRAWN BY: D.W.H.	<table border="1"> <tr> <td>SHEET</td> <td rowspan="5">2</td> </tr> <tr> <td>CHK'D BY: C.E.M.</td> </tr> <tr> <td>APPR. BY: G.L.S.</td> </tr> <tr> <td>DATE: 1 / 2009</td> </tr> <tr> <td>REV. NO.</td> </tr> </table>	SHEET	2	CHK'D BY: C.E.M.	APPR. BY: G.L.S.	DATE: 1 / 2009	REV. NO.
SHEET		2					
CHK'D BY: C.E.M.							
APPR. BY: G.L.S.							
DATE: 1 / 2009							
REV. NO.							
DATE: 1 / 2009							
REV. NO.							
DATE:							

OF 2

APPENDIX B
BID TABULATIONS

Spring Meadow Lake Reclamation Project DEQ Contract No. 410001

BID TABULATION				Engineers Estimate		Mungas Co., Inc.		MK Weeden		Helena Sand & Gravel		Shumaker Trucking		Nelcon, Inc.		Trapper Peak		JEM Contracting	
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
1	1	LS	Mobilization, Demobilization, Bonding, and Insurance	\$150,000.00	\$150,000.00	\$104,600.00	\$104,600.00	\$169,500.00	\$169,500.00	\$265,830.00	\$265,830.00	\$200,000.00	\$200,000.00	\$115,000.00	\$115,000.00	\$95,000.00	\$95,000.00	\$127,500.00	\$127,500.00
2	2,000	KGAL	Provide Water	\$20.00	\$40,000.00	\$33.50	\$67,000.00	\$27.00	\$54,000.00	\$28.00	\$56,000.00	\$35.00	\$70,000.00	\$20.99	\$41,980.00	\$25.00	\$50,000.00	\$22.50	\$45,000.00
3	180	LF	Silt Fence	\$5.00	\$900.00	\$5.00	\$900.00	\$4.80	\$864.00	\$6.00	\$1,080.00	\$5.00	\$900.00	\$5.00	\$900.00	\$5.00	\$900.00	\$4.25	\$765.00
4	250	LF	Silt Barriers	\$5.00	\$1,250.00	\$8.00	\$2,000.00	\$3.45	\$862.50	\$5.00	\$1,250.00	\$5.00	\$1,250.00	\$4.00	\$1,000.00	\$5.00	\$1,250.00	\$5.50	\$1,375.00
5	1	LS	Construct Access Road and Staging Area	\$10,000.00	\$10,000.00	\$10,100.00	\$10,100.00	\$51,000.00	\$51,000.00	\$30,000.00	\$30,000.00	\$15,000.00	\$15,000.00	\$46,000.00	\$46,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
6	1	LS	Clearing and Grubbing	\$10,000.00	\$10,000.00	\$7,400.00	\$7,400.00	\$26,500.00	\$26,500.00	\$12,000.00	\$12,000.00	\$15,000.00	\$15,000.00	\$4,500.00	\$4,500.00	\$29,000.00	\$29,000.00	\$12,000.00	\$12,000.00
7	750	LF	Dismantle Chain-Link Fence	\$10.00	\$7,500.00	\$3.50	\$2,625.00	\$4.60	\$3,450.00	\$10.00	\$7,500.00	\$5.00	\$3,750.00	\$4.00	\$3,000.00	\$10.00	\$7,500.00	\$3.00	\$2,250.00
8	515	LF	Reconstruct Chain-Link Fences	\$20.00	\$10,300.00	\$10.00	\$5,150.00	\$11.50	\$5,922.50	\$24.00	\$12,360.00	\$10.00	\$5,150.00	\$6.00	\$3,090.00	\$17.00	\$8,755.00	\$6.50	\$3,347.50
9	65,000	Ton	Excavate, Screen, Treat, Haul, and Dispose of Contaminated Material From State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.00	\$1,495,000.00	\$23.60	\$1,534,000.00	\$24.58	\$1,597,700.00	\$26.00	\$1,690,000.00	\$27.90	\$1,813,500.00	\$24.00	\$1,560,000.00	\$29.00	\$1,885,000.00	\$26.96	\$1,752,400.00
10	5.0	Each	Excavation Around Designated Trees	\$500.00	\$2,500.00	\$400.00	\$2,000.00	\$345.00	\$1,725.00	\$250.00	\$1,250.00	\$500.00	\$2,500.00	\$650.00	\$3,250.00	\$1,000.00	\$5,000.00	\$700.00	\$3,500.00
11	5,500	Ton	Excavate, Screen, Treat, Haul, and Dispose of Contaminated Material From Wildlife Center at a RCRA Subtitle D Class II Solid Waste Management Facility	\$30.00	\$165,000.00	\$33.19	\$182,545.00	\$44.33	\$243,815.00	\$65.00	\$357,500.00	\$40.60	\$223,300.00	\$50.00	\$275,000.00	\$41.00	\$225,500.00	\$54.75	\$301,125.00
12	1.0	AC	Grade North Slope of Wildlife Center	\$15,000.00	\$15,000.00	\$6,400.00	\$6,400.00	\$21,600.00	\$21,600.00	\$7,800.00	\$7,800.00	\$3,500.00	\$3,500.00	\$12,000.00	\$12,000.00	\$10,000.00	\$10,000.00	\$500.00	\$500.00
13	50.0	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife	\$100.00	\$5,000.00	\$48.00	\$2,400.00	\$85.00	\$4,250.00	\$100.00	\$5,000.00	\$45.00	\$2,250.00	\$60.00	\$3,000.00	\$55.00	\$2,750.00	\$100.00	\$5,000.00
14	30,500	CY	Obtain, Place, and Grade Cover Soil on State Park	\$14.00	\$427,000.00	\$11.50	\$350,750.00	\$14.15	\$431,575.00	\$11.00	\$335,500.00	\$14.55	\$443,775.00	\$22.00	\$671,000.00	\$18.00	\$549,000.00	\$28.28	\$862,540.00
15	4,000	CY	Obtain, Place, and Grade Cover Soil on Wildlife Center	\$15.00	\$60,000.00	\$12.50	\$50,000.00	\$14.15	\$56,600.00	\$13.00	\$52,000.00	\$14.55	\$58,200.00	\$25.00	\$100,000.00	\$18.00	\$72,000.00	\$28.28	\$113,120.00
16	1,890	SY	Obtain and Place Gravel Surfacing at Wildlife Center	\$20.00	\$37,800.00	\$4.20	\$7,938.00	\$8.00	\$15,120.00	\$9.00	\$17,010.00	\$6.00	\$11,340.00	\$14.00	\$26,460.00	\$6.85	\$12,946.50	\$9.50	\$17,955.00
17	12.0	AC	Fertilize and Seed Disturbed Areas	\$1,000.00	\$12,000.00	\$517.50	\$6,210.00	\$383.00	\$4,596.00	\$367.50	\$4,410.00	\$500.00	\$6,000.00	\$1,650.00	\$19,800.00	\$900.00	\$10,800.00	\$350.00	\$4,200.00
18	12.0	AC	Straw Mulch Disturbed Areas	\$1,000.00	\$12,000.00	\$1,035.00	\$12,420.00	\$345.00	\$4,140.00	\$840.00	\$10,080.00	\$500.00	\$6,000.00	\$580.00	\$6,960.00	\$900.00	\$10,800.00	\$800.00	\$9,600.00
19	1,200.0	LF	Reconstruct Gravel Walkway	\$10.00	\$12,000.00	\$6.15	\$7,380.00	\$8.00	\$9,600.00	\$1.50	\$1,800.00	\$5.00	\$6,000.00	\$7.00	\$8,400.00	\$13.00	\$15,600.00	\$6.00	\$7,200.00
20	1.0	LF	Obliterate and Reclaim Temporary Roadways	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00	\$5,750.00	\$5,750.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$4,200.00	\$4,200.00	\$12,000.00	\$12,000.00	\$5,000.00	\$5,000.00
			TOTAL BID =	\$2,478,250.00	\$2,478,250.00	\$2,366,318.00	\$2,366,318.00	\$2,708,570.00	\$2,708,570.00	\$2,870,870.00	\$2,870,870.00	\$2,889,915.00	\$2,889,915.00	\$2,905,540.00	\$2,905,540.00	\$3,018,801.50	\$3,018,801.50	\$3,289,377.50	\$3,289,377.50

APPENDIX C
CONTRACT DOCUMENTS

AGREEMENT

OWNER: The Montana Department of Environmental Quality

CATEGORY OF IMPROVEMENTS: Mine Waste Reclamation

CONTRACT TITLE: Spring Meadow Lake Reclamation Project

CONTRACT NUMBER: DEQ Contract No. 410001

THIS AGREEMENT made as of the 13th day of July, 2009, by and

between the Montana Department of Environmental Quality, hereinafter called Owner, and

Mungas Company, Inc. with legal address and principal place of business at 108 Sansome Street, PO Box 236, Phillipsburg, Montana 59858 hereinafter called Contractor. Owner and Contractor in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK

1.1 Contractor shall perform the work as indicated in the Contract Documents. The work is summarized in the Special Provisions.

ARTICLE 2. ENGINEER

2.1 Tetra Tech EM Inc. 7 West 6th Ave Suite 612, Helena, MT 59601 will act as Engineer in connection with completion of the work in accordance with the Contract Documents, unless another engineer is designated by Owner.

ARTICLE 3. CONTRACT TIMES

3.1 The work will commence as provided in Article 2 of the Conditions of the Contract. All Work shall be substantially complete, as defined in the General Conditions, **within 90 consecutive calendar days**, as adjusted under Article 12 of the Contract Documents.

3.2 Contractor agrees that the work shall be prosecuted regularly, diligently and uninterruptedly at such rate of progress as will insure full completion thereof within the Contract Times stated above. It is expressly understood and agreed that the Contract Times are reasonable for the completion of the work, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

ARTICLE 4. CONTRACT PRICE

4.1 Owner will pay Contractor for performance of the work in accordance with the Contract Documents in current funds at the Total Contract Price appearing in the Contractor's Bid Form attached to this Agreement.

ARTICLE 5. APPLICATIONS FOR PAYMENT

5.1 Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

ARTICLE 6. PROGRESS AND FINAL PAYMENTS

6.1 Owner will make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment as recommended by Engineer, monthly during construction as provided below. All progress payments will be on the basis of the progress of the work provided for in Paragraph 14.02 of the General Conditions.

6.2 Prior to Substantial Completion, and so long as Contractor is performing by the terms of the Agreement, progress payments will be in an amount equal to 95 percent of the value of the work completed, less, in each case, the aggregate of payments previously made [less the additional retainage of \$1000 dollars per Section 18-2-404(2)]. Owner reserves the right, without prejudice to any other remedy, to increase the retainage, if Owner determines that Contractor is not performing in accordance with the terms of this Agreement.

6.3 Upon Substantial Completion of the principal elements of the Work, Owner may, at its discretion, deliver a portion of the retainage to Contractor.

6.4 Upon final inspection and acceptance of all of the work, in accordance with Paragraph 14.07. of the General Conditions, Owner will pay the remainder of the Contract Price as recommended by Engineer, retaining \$1,000 until termination of the Agreement as required by Section 18-2-404(2), MCA.

ARTICLE 7. LIQUIDATED DAMAGES

7.1 Owner and Contractor acknowledge that time is of the essence in the performance of the work required under this Agreement and that Owner will suffer financial and other losses if the work is not completed within the Contract Times (specified in Article 3 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions). They also recognize the delay, expense, and difficulty involved in proving, in a legal or arbitration proceeding, the actual loss suffered by Owner if the work is not completed on time. Accordingly, to avoid the time, expense, delay, and difficulty in proving or disputing such damages and to provide certainty and predictability for both parties, Owner and Contractor agree that Contractor shall pay Owner as liquidated damages for delay (and not as a penalty) the amount of \$750.00 per day for each day beyond the Contract Time that the work is not substantially complete.

The completion dates specified here are subject to adjustment in accordance with Paragraph 12.03 of the General Conditions, provided that Contractor shall furnish Owner the required notification of such delays in accordance with Paragraph 12.02 of the General Conditions.

ARTICLE 8. CONTRACT DOCUMENTS

8.1 The Contract Documents which, together with this executed document, comprise the Agreement between Owner and Contractor are attached hereto and made a part hereof and consist of the following:

8.1.1 The Instructions to Bidders

8.1.2 Contractor's submitted Bid Form and Questionnaire Responses, together with any properly and timely submitted amendments or supplements thereto, and other documentation requested by Owner and submitted by Contractor with the Bid or prior to the Notice of Award;

8.1.3 The required and properly issued Construction Performance Bond, Construction Payment Bond and other required bonds and certificates of insurance;

8.1.4 Notice of Award;

8.1.5 Notice to Proceed;

8.1.6 General Conditions, EJCDC Document 1910-8, 1996 Edition (modified);

8.1.7 Supplementary Conditions, Parts I and II;

8.1.8 Special Provisions;

8.1.9 Technical Specifications;

8.1.10 Drawings: Sheets 1 through 8

8.1.11 Addenda numbers 1 through 2 modifying documents which are part of this Agreement; and

8.1.12 All properly executed or issued amendments and modifications of this Agreement, including Written Amendments, Change Orders, Work Change Directives, Field Orders or Engineer's written interpretations and clarifications issued after execution of this Agreement.

ARTICLE 9. LIAISONS

9.1 Notices to be given by one party to the other shall, unless the Contract Documents provide otherwise, be sent to the following contacts for each party. Required written notices shall be sent by registered or certified mail, return receipt requested, or by similar service. A party may change a contact person(s) or address given below by notifying the other party in writing.

For DEQ/Owner:

Department of Environmental Quality
Attention: Pebbles Clark
Remediation Division
P.O. Box 200901
1100 N. Last Chance Gulch
Helena, MT 59620
(406) 841-5028

For Contractor:

Mungas Company, Inc.
Attention: Ray Bennett
P.O. Box 236
108 Sansome St.
Philipsburg, MT 59858
(406) 439-9034

with a copy to:

Department of Environmental Quality
Attention: Mr. Thomas E. Root - Legal Counsel
P.O. Box 200901
1100 N. Last Chance Gulch
Helena, MT 59620
(406) 841-5022

ARTICLE 10. MISCELLANEOUS

10.1 Terms used in this Agreement which are defined in Article 1 of the Conditions of the Contract shall have the meanings assigned in the Conditions of the Contract.

10.2 Neither Owner nor Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part his/her interest under any of the Contract Documents; and, specifically but without limitation, Contractor shall not assign any monies due or to become due without the prior written consent of Owner. In case Contractor, with Owner's written consent, assigns all or any part of any monies due or to become due under this Contract, the instrument of assignment shall contain a clause providing that the right of the assignee in and to any monies due or to become due to Contractor shall be subject to prior claims of all persons, firms, and corporations for services rendered or materials supplied for the performance of the work called for in this Contract.

10.3 Owner and Contractor each binds himself, his/her partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.4 The Contract Documents constitute the entire agreement between Owner and Contractor and, except as expressly provided in the Contract Documents themselves, may be altered, amended, or repealed only by a Written Modification signed by both parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement. All portions of the Contract Documents have been signed or identified by Owner and Contractor or by Engineer on their behalf.

This Agreement shall become effective on August 5th, 2009.

OWNER:

Montana Department of Environmental Quality

By: Vicki Woodrow

Vicki Woodrow
Contracts Officer, DEQ
Financial Services
1520 E. Sixth Avenue
Helena, MT 59620-0901

Approved for legal content by:

Thomas E. Root
Thomas E. Root
DEQ Legal Counsel, DEQ

CONTRACTOR:

Mungas Company, Inc.

By: Joe Mungas
Joe Mungas
President, Mungas Company, Inc.
108 Sansome St., P.O. Box 236
Philipsburg, MT 59858

Date: 7/15/09

Tax ID No. 81-0402462



Note: If Contractor is a corporation, a certificate evidencing the principal's authority to sign on behalf of the corporation must accompany the executed Agreement.

Spring Meadow Lake Reclamation Project DEQ Contract No. 410001

BID TABULATION				Engineers Estimate		Mungas Co., Inc.	
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
1	1	LS	Mobilization, Demobilization, Bonding, and Insurance	\$150,000.00	\$150,000.00	\$104,600.00	\$104,600.00
2	2,000	KGAL	Provide Water	\$20.00	\$40,000.00	\$33.50	\$67,000.00
3	180	LF	Silt Fence	\$5.00	\$900.00	\$5.00	\$900.00
4	250	LF	Silt Barriers	\$5.00	\$1,250.00	\$8.00	\$2,000.00
5	1	LS	Construct Access Road and Staging Area	\$10,000.00	\$10,000.00	\$10,100.00	\$10,100.00
6	1	LS	Clearing and Grubbing	\$10,000.00	\$10,000.00	\$7,400.00	\$7,400.00
7	750	LF	Dismantle Chain-Link Fence	\$10.00	\$7,500.00	\$3.50	\$2,625.00
8	515	LF	Reconstruct Chain-Link Fences	\$20.00	\$10,300.00	\$10.00	\$5,150.00
9	65,000	Ton	Excavate, Screen, Haul, and Dispose of Contaminated Material From State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.00	\$1,495,000.00	\$23.60	\$1,534,000.00
10	5.0	Each	Excavation Around Designated Trees	\$500.00	\$2,500.00	\$400.00	\$2,000.00
11	5,500	Ton	Excavate, Screen, Treat, Haul, and Dispose of Contaminated Material From Wildlife Center at a RCRA Subtitle D Class II Solid Waste Management Facility	\$30.00	\$165,000.00	\$33.19	\$182,545.00
12	1.0	AC	Grade North Slope of Wildlife Center	\$15,000.00	\$15,000.00	\$6,400.00	\$6,400.00
13	50.0	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife	\$100.00	\$5,000.00	\$48.00	\$2,400.00
14	30,500	CY	Obtain, Place, and Grade Cover Soil on State Park	\$14.00	\$427,000.00	\$11.50	\$350,750.00
15	4,000	CY	Obtain, Place, and Grade Cover Soil on Wildlife Center	\$15.00	\$60,000.00	\$12.50	\$50,000.00
16	1,890	SY	Obtain and Place Gravel Surfacing at Wildlife Center	\$20.00	\$37,800.00	\$4.20	\$7,938.00
17	12.0	AC	Fertilize and Seed Disturbed Areas	\$1,000.00	\$12,000.00	\$517.50	\$6,210.00
18	12.0	AC	Straw Mulch Disturbed Areas	\$1,000.00	\$12,000.00	\$1,035.00	\$12,420.00
19	1,200.0	LF	Reconstruct Gravel Walkway	\$10.00	\$12,000.00	\$6.15	\$7,380.00
20	1.0	LF	Obliterate and Reclaim Tempory Roadways	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00
				TOTAL BID =	\$2,478,250.00	TOTAL BID =	\$2,366,318.00

NOTICE TO PROCEED

TO: Mungas Company, Inc.
108 Sansome St.

P.O. Box 236
Philipsburg, Montana 59858

DATE: August 4, 2009
PROJECT: **Spring Meadow Lake Reclamation Project**
DEQ Contract No. **410001**

In accordance with the Agreement dated July 13, 2009, you are hereby notified to commence Work no later than August 5, 2009, and you are to complete the Work within 90 consecutive calendar days. The date of completion of all Work is, therefore, November 2, 2009.

OWNER: DEPARTMENT OF ENVIRONMENTAL QUALITY

By: Dewin Clony for John Koerth
Title: Abandoned Mines Supervisor

ACCEPTANCE OF NOTICE TO PROCEED

Receipt of the above Notice to Proceed is hereby acknowledged this 4th day of Aug, 2009.

CONTRACTOR:

Mungas Co. Inc.
By: Shawn L. Mungas
Title: Sec. Treas

NOTICE OF AWARD

TO: Mungas Company, Inc.

DATE: July 13, 2009

108 Sansome St.

PROJECT: Spring Meadow Lake Reclamation Project

P.O. Box 236

Philpeburg, Montana 59858

DEQ Contract No.: 410001

PROJECT DESCRIPTION: This reclamation project involves the removal of waste materials from designated areas and disposal at a RCRA Subtitle D Class II Solid Waste Management Facility, as well as reclamation of the site.

The Owner has considered the Bid submitted by you for the above-described Work in response to its Invitation for Bid dated July 9, 2009 and Instructions to Bidders.

You are hereby notified that your bid has been accepted for items in the amount of \$2,366,318.00.

Within five (5) days after receipt of this Notice of Award (Saturdays, Sundays and legal holidays excluded) or as Owner and Contractor otherwise mutually agree, you are required (Article 13, Instructions to Bidders) to execute and deliver to Owner a copy of the Acceptance of Notice of Award, all executed copies of the Agreement and the properly issued and effective Performance and Payment Bonds, Certificates of Insurance and copies of applicable insurance policies.

If you fail to execute said Agreement and to furnish said Bonds and Insurance within five (5) days from the date of this Notice, said Owner will be entitled to consider all your rights (arising out of the Owner's acceptance of your Bid) as abandoned and to forfeit your Bid Bond. The Owner will be entitled to exercise such other and further rights as may be granted by law.

Please return an acknowledged copy of this Notice of Award to the Owner.

Dated 13th day of July, 2009.

OWNER:

DEPARTMENT OF ENVIRONMENTAL QUALITY

RECEIVED

JUL 17 2009

Dept. of Environmental Quality
Remediation Division

By: John Koeltz

Title: AMS Program Manager

ACCEPTANCE OF NOTICE OF AWARD

Receipt of the above Notice of Award is hereby acknowledged this 15th day of July, 2009.

CONTRACTOR:

Mungas Company, Inc.

By: Joe Mungas

Title: President

APPENDIX D
PRE-CONSTRUCTION MEETING MINUTES

**SPRING MEADOW LAKE RECLAMATION PROJECT
PRE-CONSTRUCTION CONFERENCE AGENDA
WEDNESDAY, JULY 29, 2009
10:00 AM, DEQ-LCG BUILDING**

ATTENDING PERSONNEL

Pebbles Clark, Project Manager

Mine Waste Cleanup Bureau
Department of Environmental Quality
1100 Last Chance Gulch
P.O. Box 200901
Helena, MT 59620-0901
Phone: 406.841.5028
Fax: 406.841.5024
E-mail - PClark2@mt.gov

Gary Sturm, Project Engineer

Colin McCoy, Resident Project Representative

Tetra Tech EMI
7 West 6th Avenue, Suite 612
Helena, MT 59601
Phone: 406.444.5588 RPR Cell: 406.422-9735
Fax: 406.442.7182
E-mail: gary.sturm@ttemi.com
E-mail: colin.mccoy@ttemi.com

Ray Bennett, General Manager/Project Superintendent

Mungas Company, Inc..
P.O. Box 236
Phillipsburg, MT 59858
Phone: 406.439-9034 (Cell)
Office: 406.859-3203
E-mail: mungasco@blackfoot.net

Rick Bondy, Project Engineer

Mungas Company, Inc..
Phone: 406.431.9446 (Cell)
E-mail: mungasco@blackfoot.net

Karl Konrad, Foreman/QA-QC Officer

Mungas Company, Inc..
Phone: 406.431.9042 (Cell)
E-mail: mungasco@blackfoot.net

**SPRING MEADOW LAKE RECLAMATION PROJECT
PRE-CONSTRUCTION CONFERENCE AGENDA
WEDNESDAY, JULY 29, 2009
10:00 AM, DEQ-LCG BUILDING**

Subcontractors:

1. Coentennial Concrete: Wildlife Center Waste Screening and Treatment and State Park Waste Screening.
2. Schnell Excavating: Waste Material and Cover Soil Transport
3. Mark Stanishell Trucking: Waste Material and Cover Soil Transport
4. Barkell Trucking: Waste Material and Cover Soil Transport

Major Suppliers:

1. Valley Sand and Gravel: Gravel products
2. Treasure State Seed: Seed

DISCUSSION ITEMS

1) Terms of Contract

- Pay requests on 30 day cycle (no later than third Friday of month)
- First pay request due by August 21, 2009.
- DEQ will accept billing for 50% of Bid Item # 1 (\$52,300) as soon as mobilization is complete.
- DEQ will require on a monthly basis that disposal facilities are being paid.
- 90 day construction contract
- \$750 per day liquidated damages
- Montana Prevailing Wage Rates for Heavy & Highway Construction / Davis-Bacon. Mungas must submit certified weekly payrolls in accordance with Labor Standards Provisions for Federal and Federally Assisted Contracts which are included in the construction documents..

2) Survey and Measurement

- DEQ/Tetra Tech will provide control points for excavation boundaries.
- Mungas will employ Quality Control/Quality Assurance individual (SP 10, pages III-4 and III-5) and will be responsible for setting supplementary stakes necessary to control work and meet accuracy requirements of Contract (SP 14, page III-20). Undisturbed soil pillars located on a 50 to 100 foot grid will be used on the State Park excavated areas for depth control. Excavation depths at the Wildlife Center will be determined from the edge of the excavation.
- If a survey boundary point is removed during excavation, Contractor is responsible for replacement, including survey if necessary
-

**SPRING MEADOW LAKE RECLAMATION PROJECT
PRE-CONSTRUCTION CONFERENCE AGENDA
WEDNESDAY, JULY 29, 2009
10:00 AM, DEQ-LCG BUILDING**

3) Submittals

- Permits. Centennial Concrete screening plant is permitted. An application for moving the plant to the site has been submitted. No stormwater permit is required.
- Health and Safety Plan (SP 6, Page III-3)
- Quality Control Plan (SP 10, page III-4)
- Dust Control Plan (SP 22, page III-23)
- Traffic Control Plan (SP 23, page III-23), city reviewed?
- Material submittals – fertilizer and seed (SP 26, page III-24); cement, gravel.
- Source approvals for cover soil. Need test results for cover soil and location map of borrow area.
- Schedule for Construction
- 40-hr HAZWOPER certificates for all on-site employees.
- Resumes of supervisory personnel - received

4) Quantity Measurement

- Tetra Tech will determine the quantity measurement of each bid item.
- Discuss each bid item quantity measurement and how it will be measured so DEQ, Tetra Tech, and Mungas are all clear

5) Clarifications

- None at this time.

6) Other issues

- Discuss scope of work and approach as Mungas understands it so we are all on the same page. Specifically the order of work and fence dismantling/reinstalling.
- Proposed waste treatment process. A work directive will be issued to pay for moving the salvaged building stone to the southwest corner of the fenced area.
- Site security. Fence installation, access road, etc. Mungas would like to remove additional fence at Wildlife Center to facilitate access. DEQ will request permission to remove additional fence but will need map indicating what fence from Mungas. If gate at Wildlife Center is removed, DEQ would like to see it reinstalled as part of re-located fence at east end of Wildlife Center.
- Coordination with FWP. Mungas would like to modify access to Wildlife Center to allow a circular truck access. DEQ will request permission for alternative access but will need map showing plan from Mungas.
- Progress meetings?

SPRING MEADOW LAKE RECLAMATION PROJECT
PRE-CONSTRUCTION CONFERENCE AGENDA
WEDNESDAY, JULY 29, 2009
10:00 AM, DEQ-LCG BUILDING

- Hours of Operation: Proposing 7 AM to 5 PM until hauling starts then would like to go to a 6:30 AM to 4:30 PM schedule to avoid high traffic periods. Mungas needs to request work outside of the standard 7 AM to 7 PM period.
- No work on weekends unless requested and approved by Engineer and DEQ in writing
- Water Source: Water will be obtained from city using a metered connection to a fire hydrant. Payment will be based on this metered quantity rather than on a count of water truck loads used as identified in the bid item description.
- Equipment. Haul trucks will be parked overnight off site.
- Daily Weight Tickets from Landfill must be submitted to RPR
- Possible changes to Sheets 6 and 7 based on FWP needs
- Ray Bennett identified as both general manager and project superintendent. Mungas will need to identify someone to act in his place if he is going to be offsite frequently. Must be in writing and must be approved by DEQ in writing.
- Karl Konrad has been designated as the Quality Control field grade checker/setter (Paragraph 10, Special Provisions). This designation needs to be submitted in writing to the DEQ.
- Screening of top 6 inches of State Park excavation areas. Mungas would like to dispose of this material without screening to prevent damage and overloading of screening equipment associated with grass, brush, roots, etc. Mungas needs to submit this request in writing outlining their reasons for the request for DEQ review and approval.

APPENDIX E
CHANGE ORDERS

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 1

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungae Company, Inc.

Change Orders must include an Itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'L'S.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
1-1	Work Directive No. 1: Relocate salvage stone to southwest corner of wildlife center to clear designated screening and treatment area.				Lump Sum	1,110.00	1,110.00
1-2	Work Directive No. 2: Remove concrete troughs and sumps along with waste material within and adjacent to concrete structures.			\$185.00 per hour	94 hrs	17,390.00	17,390.00
TOTAL COST						18,500.00	
GRAND TOTAL - THIS CHANGE ORDER						18,500.00	

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,366,318.00
Cost this Change Order (+ or -):	\$ 18,500.00
New Contract Price Including this Change Order:	\$ 2,384,818.00

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 2

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungas Company, Inc.

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC	TOTAL UNIT COST	
2-1 WD#4	Removal and placement of oversize rock from Wildlife Center to State Park area.					3,000.00	3,000.00
2-2 WD#3	Demolition of large concrete block located in western area of State Park.					925.00	925.00
TOTAL COST						3,925.00	
GRAND TOTAL - THIS CHANGE ORDER						3,925.00	

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,384,818.00
Cost this Change Order (+ or -):	\$ 3,925.00
New Contract Price including this Change Order:	\$ 2,388,743.00

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 3

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungas Company, Inc.

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL UNIT COST	TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC.			
3-1	Work Directive No. 5: Wildlife Center Improvements				Lump Sum	50,477.00	50,477.00	
3-2	Work Directive No. 6: Concrete Demolition West of the Stedman Building			\$185.00 per hour	Lump Sum (\$1,100 mobilization) 13 hrs	3,505.00	3,505.00	
TOTAL COST							53,982.00	53,982.00
GRAND TOTAL - THIS CHANGE ORDER							53,982.00	53,982.00

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,388,743.00
Cost this Change Order (+ or -):	\$ 53,982.00
New Contract Price including this Change Order:	\$ 2,442,725.00

The completion date as set forth in the Contract Documents shall be increased by 17 calendar days.

A weather day was approved by DEQ for November 13, 2009 and shall increase the Contract Documents by 1 calendar day.

The date for completion of all work will be November 28, 2009.

Description and Justification for Change:

1. The north slope and the area around the Wildlife Center were graded and improved to a design requested by Montana Fish Wildlife and Parks.
2. Concrete that was backfilled with mineral processing waste was excavated and disposed of.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order.

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____ Seal _____

Recommended by: *[Signature]* Tetra Tech EN Inc. 11/29/09
Engineer Date

Accepted by: *[Signature]* 11/29/09
Contractor Date

Approved by: *[Signature]* 11/30/2009
Owner Date

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 4

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungas Company, Inc.

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC	TOTAL UNIT COST	
4-1	Grade, apply gravel and compact the road at the Wildlife Center as directed in Work Directive 07.					7,410.00	7,410.00
TOTAL COST						<u>\$7,410.00</u>	
GRAND TOTAL - THIS CHANGE ORDER						<u>\$7,410.00</u>	

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,442,725.00
Cost this Change Order (+ or -):	\$ 7,410.00
New Contract Price including this Change Order:	\$ 2,450,135.00

The completion date as set forth in the Contract Documents shall be increased by 3 calendar days.

The date for completion of all work will be December 1, 2009.

Description and Justification for Change:

- 1. This construction will grade and resurface the road at the Wildlife Center which was damaged by heavy equipment traffic.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order.

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____

Recommended by: Tetra Tech EM Inc. Gary P. [Signature] 12/01/2009
Engineer Date

Accepted by: Ray Bennett Mengas Co. 12/1/09
Contractor Date

Approved by: Pubby Hank 12/1/09
Owner Date

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 5

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungas Company, Inc.

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MIS	UNIT COST	
5-1	Reconciliation of Actual Water Used	-726.3 KGAL				33.50	-24,331.05
5-2	Reconciliation of Actual Silt Fence Built	367 LF				5.00	1,835.00
5-3	Reconciliation of Actual Silt Barriers Used	175 LF				8.00	1,400.00
5-4	Reconciliation of Actual Area of Clearing and Grubbing	0.1 AC				7,400.00	370.00
5-5	Reconciliation of Actual Chain Link Fence Dismantled	330 LF				3.50	1,155.00
5-6	Reconciliation of Actual Chain Link Fence Built	430 LF				10.00	4,300.00
5-7	Reconciliation of Tons of Soil Excavated, Screened, Hauled and Disposed of from State Park	-13,444 Ton				23.60	-317,282.41
5-8	Reconciliation of Actual Trees Excavated Around	1.0				400.00	400.00
5-9	Reconciliation of Tons of Soil Excavated, Screened, Treated, Hauled and Disposed of from Wildlife Center	-650.8 Ton				33.19	-21,599.06
5-10	Reconciliation of Acres Graded at the North Slope of the Wildlife Center	-1.0 AC				6,400.00	-6,400.00
5-11	Reconciliation of Debris Disposed of from the North Slope of the Wildlife Center	2,475.2 Ton				48.00	118,810.56
5-12	Reconciliation of Tons of Soil Obtained, Placed and Graded at State Park	1,870 Ton				11.50	21,505.00
5-13	Reconciliation of Tons of Soil Obtained, Placed and Graded at Wildlife Center	2,011.3 Ton				12.50	25,140.95
5-14	Reconciliation of Gravel Obtained, Placed and Graded at the Wildlife Center	-112.2 SY				4.20	-471.33
5-15	Reconciliation of Acres of Disturbed Area Fertilized and Seeded	0.8 AC				517.50	414.00

5-16	Reconciliation of Acres of Disturbed Area Straw Mulched	0.8 AC				1,035.00	828.00
5-17	Reconciliation of Feet of Gravel Pathway Constructed at State Park	550 LF				6.15	3,382.50
						TOTAL COST	\$-190,542.85
						GRAND TOTAL - THIS CHANGE ORDER	\$-190,542.85

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,450,135.00
Cost this Change Order (+ or -):	\$ -190,542.85
New Contract Price including this Change Order:	\$ 2,259,592.15

The completion date as set forth in the Contract Documents shall be increased by 0 calendar days.

The date for completion of all work will be December 1, 2009.

Description and Justification for Change:

1. This change order reconciles bid pay quantities to final pay quantities.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order.

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____

Seal

Recommended by: _____

Ray Bennett
Engineer

Tetra Tech EM Inc.

12/01/2009

Date

Accepted by: _____

Ray Bennett
Contractor

Morgan Co.

12/01/09

Date

Approved by: _____

Pubby Clark
Owner

12/1/09

Date

APPENDIX F
WORK DIRECTIVES

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 01

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 08/07/2009

CONTRACTOR: Mungas Company, Inc.
108 Sansome St.
P.O. Box 238
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 410001

CONTRACT FOR: AML Reclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall relocate pile of salvaged building stone and rock to southwest corner of fenced enclosure southwest of the Stedman Foundry building.

Purpose of Work Directive Change: Building stone/rock requires relocation to restore the available work space indicated on the construction drawings.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

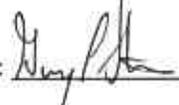
Estimated Increase in Contract Price: \$1,110.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase in Contract Time: 1 day. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

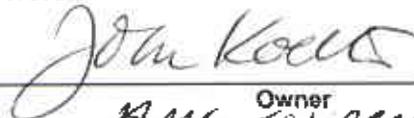
RECOMMENDED:

By:  Tetra Tech EM Inc.
Engineer

ACCEPTED:

By: 
Contractor

AUTHORIZED:

By:  Owner
AMS  Supervisor

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 02

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 08/17/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 410001

CONTRACT FOR: AMLReclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall excavate concrete troughs and sumps within Wildlife Center. Excavation shall be completed using a trackhoe mounted jack hammer, a trackhoe with thumb, and an off road articulated haul truck. After excavation is complete the resulting excavation shall be graded using a bull dozer to provide a bowl for placement of backfill and screening reject material. All three items of equipment shall be charged at a cost of \$185.00 per hour which shall include include equipment maintenance, fuel, and operator wages and benefits.

Purpose of Work Directive Change: In order to remove all waste material contained within the troughs and sumps, it is necessary to completely remove the concrete structures. In order to allow acceptable compaction, it is necessary to re-grade the resulting excavation.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

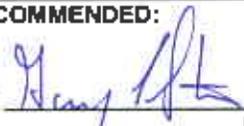
Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase in Contract Price: \$16,500.00.
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase in Contract Time: 5 days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By:  08/17/2009
Engineer

AUTHORIZED:

By: 
Owner

ACCEPTED:

By: 
Contractor

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 03

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 09/02/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 410001

CONTRACT FOR: AML Reclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall excavate concrete block at the northwest corner of the State Park excavation area. Excavation shall be completed using a trackhoe mounted jack hammer and a trackhoe with thumb. After the block is broken using the jack hammer, the concrete will be loaded into a haul truck using a trackhoe with a thumb. The concrete will be piled with other concrete material excavated from the State Park site and will then be disposed of in accordance with Bid Item 13. All three items of equipment shall be charged at a cost of \$185.00 per hour which shall include equipment maintenance, fuel, and operator wages and benefits.

Purpose of Work Directive Change: To remove the concrete block at the northwest corner of the State Park excavation area.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase in Contract Price: \$925.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase in Contract Time: 1 day. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: Ray Pitt 09/02/2009
Engineer

AUTHORIZED:

By: John Koel 9/3/09
Owner

ACCEPTED:

By: Ray Bennett 09/02/09
Contractor

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 04

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 09/08/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau
DEQ Contract No.: 410001

CONTRACT FOR: AML Reclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall remove rock with an average dimension greater than 12 Inches (oversize rock) from the material to be screened at the Wildlife Center. The oversize rock will then be loaded by an excavator into a haul truck and transported to the State Park excavation area to be used as backfill with the other large screened material from that area. Payment will be made by the number of loads of oversize rock hauled from the Wildlife Center to the State Park area. The unit price will be \$300.00 per load of oversized rock for up to 10 loads. This price shall include all equipment, equipment maintenance, fuel, and operator wages and benefits necessary to complete the above stated work.

Purpose of Work Directive Change: It is expected that the excavation area at the Wildlife Center will not have adequate volume to accommodate the volume of excess oversize rock encountered during excavation. These actions will separate the oversize rock from the other screened material that will be used as backfill and relocate the oversize rock to the State Park where the rock will be used as backfill.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated Increase in Contract Price: \$3,000.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated Increase in Contract Time: 1 day. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: Harry L. [Signature] 09/08/2009
Engineer

ACCEPTED:

By: Gray Bennett 9/8/09
Contractor

AUTHORIZED:

By: John Kocera 9/8/09
Owner DEQ MWS

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 05

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 10/08/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau
DEQ Contract No.: 410001

CONTRACT FOR: AML Reclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall complete the following work in accordance with the Revised Sheets 6 and 7 construction drawings (Attached):

1. Reconstruct north slope of the Wildlife Center
2. Construct new parking lot
3. Construct additional gravel walkway
4. Dismantle existing fence
5. Reconstruct security fence using dismantled material
6. Demolish concrete slab and grade area

The Stedman Building gravel parking area as shown on the original bid document Sheet 6 is eliminated and is being replaced by the new parking lot referenced above. The north slope grading plan as shown on the original bid item Sheet 7 is eliminated and is being replaced by the new grading plan referenced above. Portions of this work will be paid for using existing Bid Items as indicated on the attached Wildlife Center Improvements Cost Estimate (\$20,373.50). Portions of the work that are not covered by existing Bid Items will be paid as a lump sum based on the quantities indicated on the attached Wildlife Center Improvements Cost Estimate (\$50,447.00).

Purpose of Work Directive Change: To clean up and construct a revised north slope that will accommodate future site improvements and to provide post reclamation security of the Wildlife Center.

Attachments: Revised Sheets 6 & 7
Wildlife Center Improvements Cost Estimate

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
 Unit Prices
 Lump Sum
 Other _____

Method of determining change in Contract Time:

- Contractor's Records
 Engineer's Records
 Other _____

Estimated increase in Contract Price: \$70,820.50.
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase in Contract Time: 14 days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: Ray Bennett
Engineer

AUTHORIZED:

By: Robert Kar
Owner

ACCEPTED:

By: Ray Bennett
Contractor

WORK DIRECTIVE CHANGE

(Instructions on Reverse Side)

No. 06

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 10/27/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau
DEQ Contract No.: 410001

CONTRACT FOR: AMLReclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall demolish and remove concrete foundations west of Stedman Building and concrete foundations and slabs within footprint of proposed parking lot. Demolition and removal of concrete shall be accomplished using a trackhoe mounted jack hammer and a trackhoe with thumb. Contractor shall be paid a lump sum of \$1,100.00 to mobilize trackhoe with jack hammer to site. Both items of equipment shall be charged at a cost of \$185.00 per hour which shall include equipment maintenance, fuel, and operator wages and benefits.

Purpose of Work Directive Change: Concrete foundation and slabs must be removed in order to remove waste material and to allow construction of improvements.

Attachments: None

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

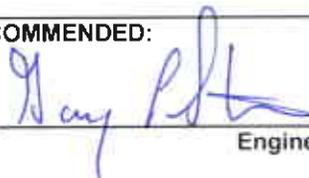
Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

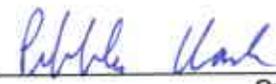
Estimated increase in Contract Price: \$9,980.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase in Contract Time: 3 days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

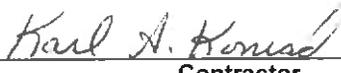
RECOMMENDED:

By:  _____
Engineer

AUTHORIZED:

By:  _____
Owner

ACCEPTED:

By:  _____
Contractor

WORK DIRECTIVE CHANGE

No. 07

(Instructions on Reverse Side)

PROJECT: Spring Meadow Lake Reclamation Project DATE OF ISSUANCE: 11/19/2009

CONTRACTOR: Mungas Company, Inc.
Phillipsburg, Montana

OWNER: Montana DEQ, Mine Waste Cleanup Bureau

DEQ Contract No.: 410001

CONTRACT FOR: AML Reclamation

ENGINEER: Tetra Tech EM Inc.

You are directed to proceed promptly with the following change(s):

Description: Contractor shall grade, compact, apply 80 cubic yards of gravel, spread and grade the gravel and compact the newly applied gravel on the existing impacted road and adjacent parking lots from Broadwater Ave to the newly constructed gate that separates the Wildlife Center from the State Park. The total price for this work directive will be \$7,410.00 which includes \$1,820.00 for gravel, \$4,810.00 for equipment (26 hours) and \$780.00 (12 hours) for hand and supervisory labor.

Purpose of Work Directive Change: This work directive will repair and improve the road and parking lot that were impacted by heavy use and heavy equipment transport during this reclamation project.

Attachments: Cost Estimate

If a claim is made that the above change(s) have affected Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining change in Contract Price:

- Time and Materials
- Unit Prices
- Lump Sum
- Other _____

Method of determining change in Contract Time:

- Contractor's Records
- Engineer's Records
- Other _____

Estimated increase in Contract Price: \$7,410.00. If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Estimated increase in Contract Time: 3 days. If the change involves an increase, the estimated time is not to be exceeded without further authorization.

RECOMMENDED:

By: _____

Engineer

AUTHORIZED:

By: _____

Owner

ACCEPTED:

By: _____

Contractor

APPENDIX G
PAYMENT REQUESTS

MEMO

Date: December 4, 2009

To: File, Spring Meadow Lake Construction Report

From: Pebbles Clark, Project Manager

RE: Correction to Payment Request No. 1 Retainage Value

On December 4, 2009, Virginia Wooley, DEQ noticed an error in the formula used to calculate the retainage in Pay Request No. 1. The correct retainage, gross payment, and net payments for Pay Request No. 1 through 5 should read as follows:

DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$395,895.85	\$20,794.79		\$375,101.06	\$3,751.01	\$371,350.05
9/18/2009	2	\$970,157.48	\$48,507.87		\$921,649.61	\$9,216.50	\$912,433.11
9/23/2009	3	\$476,330.66	\$23,816.53		\$452,514.13	\$4,525.14	\$447,988.99
11/24/2009	4	\$337,247.61	\$16,862.38		\$320,385.23	\$3,203.85	\$317,181.38
12/3/2009	FINAL REQUEST	\$79,960.55		\$109,981.57	\$189,942.12	\$1,899.42	\$188,042.70
TOTAL TO DATE		\$2,259,592.15	\$109,981.57	\$109,981.57	\$2,259,592.15	\$22,595.92	\$2,236,996.23

I corrected the retainage value in Pay Request 1 through 4 and attached a new print out of the payment request (no signature) to the original signed payment requests in the file so that the file would accurately reflect the retainage amounts withheld.

The error was corrected for Payment Request No. 5 so that this payment request would accurately reflect the retainage withheld.

DEQ PAYMENT REQUEST

PAYMENT REQUEST NO. 1

PAYMENT PERIOD: 08/05/2009 -08/21/2009

PROJECT NAME: Sping Meadow Lake Reclamation Project

DEQ CONTRACT NO.: 410001

NAME OF THE CONTRACTOR: Mungas Company, Inc.

ADDRESS OF THE CONTRACTOR: P.O.Box 236, Phillipsburg, MT 69868

PAYMENT SUMMARY INFORMATION							
DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$ 395,895.85	\$ 20,744.79		\$ 375,151.06	\$ 3,751.51	\$ 371,399.55
			\$ -		\$ -	\$ -	\$ -
			\$ -		\$ -	\$ -	\$ -
			\$ -		\$ -	\$ -	\$ -
	FINAL REQUEST			\$ -	\$ -	\$ -	\$ -
TOTAL TO DATE		\$ 395,895.85	\$ 20,744.79	\$ -	\$ 375,151.06	\$ 3,751.51	\$ 371,399.55

DATE	CONTRACT PRICE SUMMARY	
8/5/2009	Original	\$ 2,366,318.00
8/24/2009	C.O. #1	\$ 18,500.00
CONTRACT PRICE TO DATE		\$ 2,384,818.00

MISCELLANEOUS INFORMATION	
TOTAL UNCOMPLETED TO DATE	83.40%
PERCENT COMPLETE TO DATE	16.60%

*RETAINAGE WITHHELD IS 5% PLUS \$1,000
LIGHTLY SHADED AREAS ARE AUTOMATICALLY CALCULATED

CURRENT PAYMENT REQUEST	
EARNED	\$ 395,895.85
RETAINAGE WITHHELD	\$ 20,744.79
RETAINAGE RELEASED	\$ -
GROSS PAYMENT	\$ 375,151.06
TAX (1%)	\$ 3,751.51
NET PAYMENT	\$ 371,399.55

REQUESTED BY:	CONTRACTOR: <u>Mungas Co</u>
	SIGNATURE: <u>[Signature]</u>
	DATE: <u>8/25/09</u>
RECOMMENDED BY:	ENGINEER: <u>Tetra Tech EM Inc.</u>
	COMPANY: <u>[Signature]</u>
	DATE: <u>08/25/2009</u>
APPROVED BY:	OWNER: <u>John Koeltz</u>
	SIGNATURE: <u>DEQ MWCB-AMS</u>
	DATE: <u>8/26/09</u>

PAY ESTIMATE #1

PAY PERIOD 08/05/2009 THROUGH 08/21/2009

Bid Item	Unit	Description	Estimated Plan Quantity	Unit Price Bid	Units of Work Completed to Date	Total Cost of Complete Work	Percent Complete
1	LS	Mobilization, Demobilization, Bonding, Insurance	1	\$104,600.00	0.5	\$52,300.00	50.0%
2	KGAL	Provide Water	2,000	\$33.50	130.3	\$4,365.05	6.5%
3	LF	Silt Fence	180	\$5.00	0.0	\$0.00	0.0%
4	LF	Silt Barriers	250	\$8.00	0.0	\$0.00	0.0%
5	LS	Construct Access Road and Staging Area	1	\$10,100.00	1.0	\$10,100.00	100.0%
6	LS	Clearing and Grubbing	1	\$7,400.00	0.0	\$0.00	0.0%
7	LF	Dismantle Chain-Link Fence	750	\$3.50	664	\$2,324.00	88.5%
8	LF	Reconstruct Chain-Link Fence	515	\$10.00	340	\$3,400.00	66.0%
9	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	65,000	\$23.60	11,913	\$281,146.80	18.3%
10	Each	Excavate Around Designated Trees	5	\$400.00	0.0	\$0.00	0.0%
11	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste Management Facility	5,500	\$33.19	0	\$0.00	0.0%
12	AC	Grade North Slope of Wildlife Center	1	\$6,400.00	0.0	\$0.00	0.0%
13	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	50	\$48.00	495	\$23,760.00	990.0%
14	CY	Obtain, Place and Grade Cover Soil on State Park	30,500	\$11.50	0.0	\$0.00	0.0%
15	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	4,000	\$12.50	0.0	\$0.00	0.0%
16	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	1,890	\$4.20	0.0	\$0.00	0.0%
17	AC	Fertilize and Seed Disturbed Areas	12	\$517.50	0.0	\$0.00	0.0%
18	AC	Straw Mulch Disturbed Areas	12	\$1,035.00	0.0	\$0.00	0.0%
19	LF	Reconstruct Gravel Pathway	1,200	\$6.15	0.0	\$0.00	0.0%
20	LS	Obliterate and Reclaim Temporary Roadways	1	\$4,500.00	0.0	\$0.00	0.0%
CO #1-1	LS	Relocate Salvage Stone	1	\$1,110.00	1.0	\$1,110.00	100.0%
CO #1-2	LS	Excavate Concrete Structures and Associated Wastes at MWC	1	\$17,390.00	1.0	\$17,390.00	100.0%
		Total Pay Estimate #1				\$395,895.85	
		Percent of Total Contract				16.60%	

DEQ PAYMENT REQUEST

PAYMENT REQUEST NO. 2

PAYMENT PERIOD: 08/22/2009 -09/18/2009

PROJECT NAME: Spring Meadow Lake Reclamation Project

DEQ CONTRACT NO.: 410001

NAME OF THE CONTRACTOR: Mungas Company, Inc.

ADDRESS OF THE CONTRACTOR: P.O.Box 236, Phillipsburg, MT 59858

PAYMENT SUMMARY INFORMATION							
DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$ 395,895.85	\$ 20,744.79		\$ 375,151.06	\$ 3,751.51	\$ 371,399.55
9/18/2009	2	\$ 970,157.48	\$ 48,507.87		\$ 921,649.61	\$ 9,216.50	\$ 912,433.11
		\$ -	\$ -		\$ -	\$ -	\$ -
		\$ -	\$ -		\$ -	\$ -	\$ -
	FINAL REQUEST						
TOTAL TO DATE		\$ 1,366,053.33	\$ 69,252.66	\$ -	\$ 1,296,800.67	\$ 12,968.01	\$ 1,283,832.66

DATE	CONTRACT PRICE SUMMARY	
8/5/2009	Original	\$ 2,366,318.00
8/24/2009	C.O. #1	\$ 18,500.00
9/24/2009	C.O. #2	\$ 3,925.00
CONTRACT PRICE TO DATE		\$ 2,388,743.00

MISCELLANEOUS INFORMATION	
TOTAL UNCOMPLETED TO DATE	42.81%
PERCENT COMPLETE TO DATE	57.19%

*RETAINAGE WITHHELD IS 5% PLUS \$1,000

LIGHTLY SHADED AREAS ARE AUTOMATICALLY CALCULATED

CURRENT PAYMENT REQUEST	
EARNED	\$ 970,157.48
RETAINAGE WITHHELD	\$ 48,507.87
RETAINAGE RELEASED	\$ -
GROSS PAYMENT	\$ 921,649.61
TAX (1%)	\$ 9,216.50
NET PAYMENT	\$ 912,433.11

REQUESTED BY: CONTRACTOR: Mungas Co
SIGNATURE: Clay Burnett
DATE: 9/24/09

RECOMMENDED BY: ENGINEER: Way P. Ste...
COMPANY: Tetra Tech EM Inc
DATE: 09/24/2009

APPROVED BY: OWNER: D20 - LMS
SIGNATURE: John P. Ste...
DATE: 9/24/09

Spring Meadow Lake Reclamation Project, DEQ Contract No. 410001

BID TABULATION			Mungas Co.	Total Previously Billed		Billed This Period (Pay Request No. 2)		Total Billed to Date					
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	Quantity	Present Dollars	% Complete	Quantity	Present Dollars	% Complete	Quantity	Present Dollars
1	1	LS	Mobilization, Demobilization, Bonding, Insurance	\$104,600.00	\$104,600.00	0.5	\$52,300.00	0.0%	0.0	\$0.00	50.0%	0.5	\$52,300.00
2	2,000	KGAL	Provide Water	\$33.50	\$67,000.00	130.3	\$4,365.05	30.0%	599.2	\$20,073.20	36.5%	729.5	\$24,438.25
3	180	LF	Silt Fence	\$5.00	\$900.00	0.0	\$0.00	268.3%	483.0	\$2,415.00	268.3%	483.0	\$2,415.00
4	250	LF	Silt Barriers	\$8.00	\$2,000.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
5	1	LS	Construct Access Road and Staging Area	\$10,100.00	\$10,100.00	1.0	\$10,100.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00
6	1	LS	Clearing and Grubbing	\$7,400.00	\$7,400.00	0.0	\$0.00	100.0%	1.0	\$7,400.00	100.0%	1.0	\$7,400.00
7	750	LF	Dismantle Chain-Link Fence	\$3.50	\$2,625.00	664.0	\$2,324.00	0.0%	0.0	\$0.00	88.5%	664.0	\$2,324.00
8	515	LF	Reconstruct Chain-Link Fence	\$10.00	\$5,150.00	340.0	\$3,400.00	5.8%	30.0	\$300.00	71.8%	370.0	\$3,700.00
9	65,000	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.60	\$1,534,000.00	11,913.0	\$281,146.80	60.4%	39,243.3	\$926,141.88	78.7%	51,156.3	\$1,207,288.68
10	5	Each	Excavate Around Designated Trees	\$400.00	\$2,000.00	0.0	\$0.00	120.0%	6.0	\$2,400.00	120.0%	6.0	\$2,400.00
11	5,500	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste	\$33.19	\$182,545.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
12	1	AC	Grade North Slope of Wildlife Center	\$6,400.00	\$6,400.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
13	50	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	\$48.00	\$2,400.00	495.0	\$23,760.00	312.6%	156.3	\$7,502.40	1302.6%	651.3	\$31,262.40
14	30,500	CY	Obtain, Place and Grade Cover Soil on State Park	\$11.50	\$350,750.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
15	4,000	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	\$12.50	\$50,000.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
16	1,890	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	\$4.20	\$7,938.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
17	12	AC	Fertilize and Seed Disturbed Areas	\$517.50	\$6,210.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
18	12	AC	Straw Mulch Disturbed Areas	\$1,035.00	\$12,420.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
19	1,200	LF	Reconstruct Gravel Pathway	\$6.15	\$7,380.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
20	1	LS	Obliterate and Reclaim Temporary Roadways	\$4,500.00	\$4,500.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
CO #1-1	1	LS	Relocate Salvage Stone			1.0	\$1,110.00				100.0%	1.0	\$1,110.00
CO #1-2	1	LS	Excavate Concrete Structures and Associated Wastes at MWC			1.0	\$17,390.00				100.0%	1.0	\$17,390.00
CO #2-1	1	LS	Separate, Haul and Place Large Rock from Wildlife Center in State Park Removal Area					100.0%	1	\$3,000.00	100.0%	1.0	\$3,000.00
CO #2-2	1	LS	Demolish Large Concrete Block in State Park					100.0%	1	\$925.00	100.0%	1.0	\$925.00
			TOTAL =		\$2,366,318.00		\$395,895.85			\$970,157.48			\$1,366,053.33

DEQ PAYMENT REQUEST

PAYMENT REQUEST NO. 3

PAYMENT PERIOD: 9/19/2009 -10/23/2009

PROJECT NAME: Sping Meadow Lake Reclamation Project

DEQ CONTRACT NO.: 410001

NAME OF THE CONTRACTOR: Mungas Company, Inc.

ADDRESS OF THE CONTRACTOR: P.O.Box 236, Phillipsburg, MT 59858

PAYMENT SUMMARY INFORMATION							
DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$ 395,895.85	\$ 20,744.79		\$ 375,151.06	\$ 3,751.51	\$ 371,399.55
9/18/2009	2	\$ 970,157.48	\$ 48,507.87		\$ 921,649.61	\$ 9,216.50	\$ 912,433.11
9/23/2009	3	\$ 476,330.66	\$ 23,816.53		\$ 452,514.13	\$ 4,525.14	\$ 447,988.99
			\$ -		\$ -	\$ -	\$ -
	FINAL REQUEST		\$ -		\$ -	\$ -	\$ -
TOTAL TO DATE		\$ 1,842,383.99	\$ 93,069.19	\$ -	\$ 1,749,314.80	\$ 17,493.15	\$ 1,731,821.65

DATE	CONTRACT PRICE SUMMARY	
8/5/2009	Original	\$ 2,366,318.00
8/24/2009	C O #1	\$ 18,500.00
9/24/2009	C O #2	\$ 3,925.00
CONTRACT PRICE TO DATE		\$ 2,388,743.00

MISCELLANEOUS INFORMATION	
TOTAL UNCOMPLETED TO DATE	22.87%
PERCENT COMPLETE TO DATE	77.13%

*RETAINAGE WITHHELD IS 5% PLUS \$1,000
LIGHTLY SHADED AREAS ARE AUTOMATICALLY CALCULATED

CURRENT PAYMENT REQUEST	
EARNED	\$ 476,330.66
RETAINAGE WITHHELD	\$ 23,816.53
RETAINAGE RELEASED	\$ -
GROSS PAYMENT	\$ 452,514.13
TAX (1%)	\$ 4,525.14
NET PAYMENT	\$ 447,988.99

REQUESTED BY:	CONTRACTOR: <u>Mungas Co.</u>
	SIGNATURE: <u>Clay Bennett</u>
	DATE: <u>10/23/09</u>
RECOMMENDED BY:	ENGINEER: <u>Hayden Sten</u>
	COMPANY: <u>Tetra Tech EM 12</u>
	DATE: <u>10/23/2009</u>
APPROVED BY:	OWNER: <u>DEQ Admin</u>
	SIGNATURE: <u>John Koehn</u>
	DATE: <u>10/26/09</u>

Spring Meadow Lake Reclamation Project, DEQ Contract No. 410001													
BID TABULATION				Mungas Co.	Total Previously Billed (Pay Request No. 1 & 2)			Billed This Period (Pay Request No. 3)		Total Billed to Date			
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	Quantity	Present Dollars	% Complete	Quantity	Present Dollars	% Complete	Quantity	Present Dollars
1	1	LS	Mobilization, Demobilization, Bonding, Insurance	\$104,600.00	\$104,600.00	0.5	\$52,300.00	0.0%	0.0	\$0.00	50.0%	0.5	\$52,300.00
2	2,000	KGAL	Provide Water	\$33.50	\$67,000.00	729.5	\$24,438.25	24.9%	497.8	\$16,676.30	61.4%	1,227.3	\$41,114.55
3	180	LF	Silt Fence	\$5.00	\$900.00	483.0	\$2,415.00	35.6%	64.0	\$320.00	303.9%	547.0	\$2,735.00
4	250	LF	Silt Barriers	\$8.00	\$2,000.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
5	1	LS	Construct Access Road and Staging Area	\$10,100.00	\$10,100.00	1.0	\$10,100.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00
6	1	LS	Clearing and Grubbing	\$7,400.00	\$7,400.00	1.0	\$7,400.00	5.0%	0.1	\$370.00	105.0%	1.1	\$7,770.00
7	750	LF	Dismantle Chain-Link Fence	\$3.50	\$2,625.00	664.0	\$2,324.00	0.0%	0.0	\$0.00	88.5%	664.0	\$2,324.00
8	515	LF	Reconstruct Chain-Link Fence	\$10.00	\$5,150.00	370.0	\$3,700.00	0.0%	0.0	\$0.00	71.8%	370.0	\$3,700.00
9	65,000	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.60	\$1,534,000.00	51,156.3	\$1,207,288.68	0.6%	399.5	\$9,428.91	79.3%	51,555.8	\$1,216,717.59
10	5	Each	Excavate Around Designated Trees	\$400.00	\$2,000.00	6.0	\$2,400.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00
11	5,500	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste	\$33.19	\$182,545.00	0.0	\$0.00	73.9%	4,064.2	\$134,891.79	73.9%	4,064.2	\$134,891.79
12	1	AC	Grade North Slope of Wildlife Center	\$6,400.00	\$6,400.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
13	50	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	\$48.00	\$2,400.00	651.3	\$31,262.40	179.8%	89.9	\$4,316.16	1482.4%	741.2	\$35,578.56
14	30,500	CY	Obtain, Place and Grade Cover Soil on State Park	\$11.50	\$350,750.00	0.0	\$0.00	88.5%	26,985.0	\$310,327.50	88.5%	26,985.0	\$310,327.50
15	4,000	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	\$12.50	\$50,000.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
16	1,890	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	\$4.20	\$7,938.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
17	12	AC	Fertilize and Seed Disturbed Areas	\$517.50	\$6,210.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
18	12	AC	Straw Mulch Disturbed Areas	\$1,035.00	\$12,420.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
19	1,200	LF	Reconstruct Gravel Pathway	\$6.15	\$7,380.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
20	1	LS	Obliterate and Reclaim Temporary Roadways	\$4,500.00	\$4,500.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
CO #1-1	1	LS	Relocate Salvage Stone			1.0	\$1,110.00				100.0%	1.0	\$1,110.00
CO #1-2	1	LS	Excavate Concrete Structures and Associated Wastes at MWC			1.0	\$17,390.00				100.0%	1.0	\$17,390.00
CO #2-1	1	LS	Separate, Haul and Place Large Rock from Wildlife Center in State Park Removal Area			1.0	\$3,000.00				100.0%	1.0	\$3,000.00
CO #2-2	1	LS	Demolish Large Concrete Block in State Park			1.0	\$925.00				100.0%	1.0	\$925.00
			TOTAL =		\$2,366,318.00		\$1,366,053.33			\$476,330.66			\$1,842,383.99

DEQ PAYMENT REQUEST

PAYMENT REQUEST NO. 4

PAYMENT PERIOD: 10/23/2009-11/24/2009

PROJECT NAME: Sping Meadow Lake Reclamation Project

DEQ CONTRACT NO.: 410001

NAME OF THE CONTRACTOR: Mungas Company, Inc.

ADDRESS OF THE CONTRACTOR: P.O.Box 236, Phillipsburg, MT 59858

PAYMENT SUMMARY INFORMATION							
DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$ 395,895.85	\$ 20,744.79		\$ 375,151.06	\$ 3,751.51	\$ 371,399.55
9/18/2009	2	\$ 970,157.48	\$ 48,607.87		\$ 921,649.61	\$ 9,216.50	\$ 912,433.11
9/23/2009	3	\$ 476,330.66	\$ 23,818.53		\$ 452,514.13	\$ 4,525.14	\$ 447,988.99
11/24/2009	4	\$ 337,247.61	\$ 16,862.38		\$ 320,385.23	\$ 3,203.85	\$ 317,181.38
	FINAL REQUEST				\$ -	\$ -	\$ -
TOTAL TO DATE		\$ 2,179,631.60	\$ 109,931.57	\$ -	\$ 2,069,700.03	\$ 20,697.00	\$ 2,049,003.03

DATE	CONTRACT PRICE SUMMARY	
8/5/2009	Original	\$ 2,366,318.00
8/24/2009	C.O. #1	\$ 18,500.00
9/24/2009	C.O. #2	\$ 3,925.00
11/24/2009	C.O. #3	\$ 53,982.00
CONTRACT PRICE TO DATE		\$ 2,442,725.00

MISCELLANEOUS INFORMATION	
TOTAL UNCOMPLETED TO DATE	10.77%
PERCENT COMPLETE TO DATE	89.23%

*RETAINAGE WITHHELD IS 5% PLUS \$1,000
LIGHTLY SHADED AREAS ARE AUTOMATICALLY CALCULATED

CURRENT PAYMENT REQUEST	
EARNED	\$ 337,247.61
RETAINAGE WITHHELD	\$ 16,862.38
RETAINAGE RELEASED	\$ -
GROSS PAYMENT	\$ 320,385.23
TAX (1%)	\$ 3,203.85
NET PAYMENT	\$ 317,181.38

REQUESTED BY:	CONTRACTOR: <u>Mungas Co</u>	
	SIGNATURE: <u>[Signature]</u>	
	DATE: <u>11-25-09</u>	
RECOMMENDED BY:	ENGINEER: <u>[Signature]</u>	
	COMPANY: <u>Tetra Tech EN Inc</u>	
	DATE: <u>11/25/2009</u>	
APPROVED BY:	OWNER: <u>Montana DBO - AMS</u>	
	SIGNATURE: <u>[Signature]</u>	
	DATE: <u>11/30/09</u>	

CHANGE ORDER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

CHANGE ORDER NO.: 3

DEQ Contract No.: 410001

CONTRACT DATE: August 5, 2009

OWNER: Montana Department of Environmental Quality

CONTRACTOR: Mungas Company, Inc.

Change Orders must include an itemized cost breakdown. You shall comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL UNIT COST	TOTAL COST
		MAT'LS.	LABOR	EQUIP.	MISC.			
3-1	Work Directive No. 5: Wildlife Center Improvements				Lump Sum	50,477.00	50,477.00	
3-2	Work Directive No. 6: Concrete Demolition West of the Stedman Building			\$185.00 per hour	Lump Sum (\$1,100 mobilization) 13 hrs	3,505.00	3,505.00	
TOTAL COST						<u>53,982.00</u>		
GRAND TOTAL - THIS CHANGE ORDER						<u>53,982.00</u>		

Original Contract Price:	\$ 2,366,318.00
Current Contract Price Adjusted by Previous Change Order:	\$ 2,388,743.00
Cost this Change Order (+ or -):	\$ 53,982.00
New Contract Price including this Change Order:	\$ 2,442,725.00

The completion date as set forth in the Contract Documents shall be increased by 17 calendar days.

A weather day was approved by DEQ for November 13, 2009 and shall increase the Contract Documents by 1 calendar day.

The date for completion of all work will be November 28, 2009.

Description and Justification for Change:

1. The north slope and the area around the Wildlife Center were graded and improved to a design requested by Montana Fish Wildlife and Parks.
2. Concrete that was backfilled with mineral processing waste was excavated and disposed of.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order.

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____ Seal

Recommended by: Darryl P. [Signature] Tetra Tech EM Inc. 11/24/2009
Engineer Date

Accepted by: Harold Konrad 11/29/09
Contractor Date

Approved by: [Signature] 11/30/2009
Owner Date

Spring Meadow Lake Reclamation Project, DEO Contract No. 410001

ESTIMATED QUANTITY		UNIT	DESCRIPTION	Mingos Co.		Total Previously Billed (Pay Request No. 1, 2, & 3)		Billed This Period (Pay Request No. 4)		Total Billed to Date		
Bid Item	QUANTITY			UNIT PRICE	TOTAL PRICE	Quantity	Present Dollars	% Complete	Quantity	Present Dollars	% Complete	Quantity
1	1	LS	\$104,600.00	\$104,600.00	0.5	\$52,300.00	0.0%	0.0	\$0.00	50.0%	0.5	\$52,300.00
2	2,000	KGAL	\$33.50	\$67,000.00	1,227.3	\$41,114.55	24.9%	35.1	\$1,175.85	63.1%	1,262.4	\$42,290.40
3	180	LF	\$5.00	\$900.00	547.0	\$2,735.00	35.6%	0.0	\$0.00	303.9%	547.0	\$2,735.00
4	250	LF	\$8.00	\$2,000.00	0.0	\$0.00	0.0%	425.0	\$3,400.00	170.0%	425.0	\$3,400.00
5	1	LS	\$10,100.00	\$10,100.00	1.0	\$10,100.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00
6	1	LS	\$7,400.00	\$7,400.00	1.1	\$7,770.00	5.0%	0.00	\$0.00	105.0%	1.1	\$7,770.00
7	750	LF	\$3.50	\$2,625.00	664.0	\$2,324.00	0.0%	416.0	\$1,456.00	144.0%	1,080.0	\$3,780.00
8	515	LF	\$10.00	\$5,150.00	370.0	\$3,700.00	0.0%	575.0	\$5,750.00	183.5%	945.0	\$9,450.00
9	65,000	Ton	\$23.60	\$1,534,000.00	51,555.8	\$1,216,717.59	0.6%	0.0	\$0.00	79.3%	51,555.8	\$1,216,717.59
10	5	Each	\$400.00	\$2,000.00	6.0	\$2,400.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00
11	5,500	Ton	\$33.19	\$182,545.00	4,064.2	\$134,891.79	73.9%	785.0	\$26,054.15	88.2%	4,849.2	\$160,945.94
12	4	AC	\$6,400.00	\$6,400.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
13	50	Ton	\$48.00	\$2,400.00	741.2	\$35,578.56	179.8%	1,784.0	\$85,632.00	505.04%	2,525.2	\$121,210.56
14	30,500	CY	\$11.50	\$350,750.00	26,985.0	\$310,327.50	88.5%	5,385.0	\$61,927.50	106.1%	32,370.0	\$372,255.00
15	4,000	CY	\$12.50	\$50,000.00	0.0	\$0.00	0.0%	6,011.3	\$75,140.95	150.3%	6,011.3	\$75,140.95
16	1,890	SY	\$4.20	\$7,938.00	0.0	\$0.00	0.0%	1,777.8	\$7,466.67	94.1%	1,777.8	\$7,466.67
17	12	AC	\$517.50	\$6,210.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
18	12	AC	\$1,035.00	\$12,420.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
19	1,200	LF	\$6.15	\$7,380.00	0.0	\$0.00	0.0%	1,750.0	\$10,762.50	145.8%	1,750.0	\$10,762.50
20	1	LS	\$4,500.00	\$4,500.00	0.0	\$0.00	0.0%	1.0	\$4,500.00	100.0%	1.0	\$4,500.00
CO #1-1	1	LS			1.0	\$1,110.00				100.0%	1.0	\$1,110.00
CO #1-2	1	LS			1.0	\$17,390.00				100.0%	1.0	\$17,390.00
CO #2-1	1	LS			1.0	\$3,000.00				100.0%	1.0	\$3,000.00
CO #2-2	1	LS			1.0	\$925.00				100.0%	1.0	\$925.00
CO #3-1	1	LS					100.0%	1.0	\$50,477.00	100.0%	1.0	\$50,477.00
CO #3-2	1	LS					100.0%	1.0	\$3,505.00	100.0%	1.0	\$3,505.00
				TOTAL =		\$2,366,318.00			\$337,247.61			\$2,179,631.60

BID TABULATION		Spring Meadow Lake Reclamation Project																			
Bid Item	ESTIMATED QUANTITY	UNIT	DESCRIPTION	Mingus Co.		Pay Request No. 1			Pay Request No. 2			Pay Request No. 3			Pay Request No. 4			Totals			
				UNIT PRICE	TOTAL PRICE	% Complete	Quantity	Present Dollars													
1	1	LS	Mobilization, Demobilization, Bonding, Insurance	\$104,600.00	\$104,600.00	50.0%	0.5	\$2,300.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	50.0%	0.5	\$2,300.00	
2	2,000	KGAL	Provide Water	\$33.50	\$67,000.00	6.5%	130.3	\$4,365.05	30.0%	599.2	\$20,073.20	24.9%	497.8	\$16,676.30	1.8%	35.1	\$1,175.85	63.1%	1,262.4	\$42,290.40	
3	180	LF	Silt Fence	\$5.00	\$900.00	0.0%	0.0	\$0.00	268.3%	483.0	\$2,415.00	35.6%	64.0	\$320.00	0.0%	0.0	\$0.00	303.9%	547.0	\$2,735.00	
4	250	LF	Silt Barriers	\$8.00	\$2,000.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	170.0%	425.0	\$3,400.00	170.0%	425.0	\$3,400.00	
5	1	LS	Construct Access Road and Staging Area	\$10,100.00	\$10,100.00	100.0%	1.0	\$10,100.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00	
6	1	LS	Clearing and Grubbing	\$7,400.00	\$7,400.00	0.0%	0.0	\$0.00	100.0%	1.0	\$7,400.00	5.0%	0.05	\$370.00	0.0%	0.0	\$0.00	105.0%	1.1	\$7,770.00	
7	750	LF	Diamond Chain-Link Fence	\$3.50	\$2,625.00	88.5%	664	\$2,324.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	55.5%	416.0	\$1,456.00	144.0%	1,080.0	\$3,780.00	
8	515	LF	Reconstruct Chain-Link Fence	\$10.00	\$5,150.00	66.0%	340	\$3,400.00	5.8%	30.0	\$300.00	0.0%	0.0	\$0.00	111.7%	575.0	\$5,750.00	183.5%	945.0	\$9,450.00	
9	65,000	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.60	\$1,534,000.00	18.3%	11,913	\$281,146.80	60.4%	39,243.3	\$926,141.88	0.6%	399.5	\$9,428.91	0.0%	0.0	\$0.00	79.3%	51,555.8	\$1,216,717.59	
10	5	Each	Excavate Around Designated Trees	\$400.00	\$2,000.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00	
11	5,500	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste	\$33.19	\$182,545.00	0.0%	0	\$0.00	0.0%	0.0	\$0.00	73.9%	4,064.2	\$134,891.79	14.3%	785.0	\$26,054.15	88.2%	4,849.2	\$160,945.94	
12	1	AG	Grade-Nonch Slope of Wildlife Center	\$6,400.00	\$6,400.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	
13	50	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	\$48.00	\$2,400.00	990.0%	495	\$23,760.00	312.6%	156.3	\$7,502.40	179.8%	89.9	\$4,316.16	358.0%	1,784.0	\$85,632.00	5050.4%	2,525.2	\$121,210.56	
14	30,500	CY	Obtain, Place and Grade Cover Soil on State Park	\$11.50	\$350,750.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	88.5%	26,985.0	\$310,327.50	17.7%	5,385.0	\$61,927.50	106.1%	32,370.0	\$372,255.00	
15	4,000	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	\$12.50	\$50,000.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	150.3%	6,011.3	\$75,140.95	150.3%	6,011.3	\$75,140.95	
16	1,890	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	\$4.20	\$7,938.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	94.1%	1,777.8	\$7,466.67	94.1%	1,777.8	\$7,466.67	
17	12	AC	Fertilize and Seed Disturbed Areas	\$517.50	\$6,210.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	
18	12	AC	Straw Mulch Disturbed Areas	\$1,035.00	\$12,420.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	
19	1,200	LF	Reconstruct Gravel Pathway	\$6.15	\$7,380.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	145.8%	1,750.0	\$10,762.50	145.8%	1,750.0	\$10,762.50	
20	1	LS	Obtain and Reclaim Temporary Roadways	\$4,500.00	\$4,500.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00	100.0%	1.0	\$4,500.00	100.0%	1.0	\$4,500.00	
CO #1-1	1	LS	Reclaim Salvage Stone		\$1,110.00	100.0%	1.0	\$1,110.00										100.0%	1.0	\$1,110.00	
CO #1-2	1	LS	Excavate Concrete Structures and Associated Wastes at MWC		\$17,390.00	100.0%	1.0	\$17,390.00										100.0%	1.0	\$17,390.00	
CO #2-1	1	LS	Separate, Haul and Place Large Rock from Wildlife Center in State Park Removal Area		\$3,000.00	100.0%	1	\$3,000.00										100.0%	1.0	\$3,000.00	
CO #2-2	1	LS	Demolish Large Concrete Block in State Park		\$925.00	100.0%	1	\$925.00										100.0%	1.0	\$925.00	
CO #3-1	1	LS	Montana Wildlife Center Improvements															100.0%	1.0	\$50,477.00	
CO #3-2	1	LS	Remove Concrete Foundations on West side of Sackman Building															100.0%	1.0	\$3,505.00	
TOTAL BID =					\$2,366,318.00			\$395,895.83			\$970,157.48										
TOTAL PAY REQUEST No. 1 CONTRACT PRICE =					\$2,384,818.00	16.6%															
TOTAL PAY REQUEST No. 2 CONTRACT PRICE =					\$2,388,743.00				40.61%												
TOTAL PAY REQUEST No. 3 CONTRACT PRICE =					\$2,388,743.00							19.94%		\$476,330.66							
TOTAL PAY REQUEST No. 4 CONTRACT PRICE =					\$2,442,725.00														13.81%		\$537,247.61
																				89.23%	\$2,179,631.60

DEQ PAYMENT REQUEST

PAYMENT REQUEST NO. 5 (FINAL)

PAYMENT PERIOD: 11/24/2009-12/1/2009

PROJECT NAME: Sping Meadow Lake Reclamation Project

DEQ CONTRACT NO.: 410001

NAME OF THE CONTRACTOR: Mungas Company, Inc.

ADDRESS OF THE CONTRACTOR: P.O.Box 236, Phillipsburg, MT 59858

PAYMENT SUMMARY INFORMATION							
DATE	PAYMENT REQUEST #	EARNED	RETAINAGE WITHHELD*	RETAINAGE RELEASED	GROSS PAYMENT	TAX 1%	NET PAYMENT
8/24/2009	1	\$ 395,895.85	\$ 20,794.79		\$ 375,101.06	\$ 3,751.01	\$ 371,350.05
9/18/2009	2	\$ 970,157.48	\$ 48,507.87		\$ 921,649.61	\$ 9,216.50	\$ 912,433.11
9/23/2009	3	\$ 476,330.66	\$ 23,816.53		\$ 452,514.13	\$ 4,525.14	\$ 447,988.99
11/24/2009	4	\$ 337,247.61	\$ 16,862.38		\$ 320,385.23	\$ 3,203.85	\$ 317,181.38
12/3/2009	FINAL REQUEST	\$ 79,960.55		\$ 109,981.57	\$ 189,942.12	\$ 1,899.42	\$ 188,042.70
TOTAL TO DATE		\$ 2,259,592.15	\$ 109,981.57	\$ 109,981.57	\$ 2,259,592.15	\$ 22,595.92	\$ 2,236,996.23

DATE	CONTRACT PRICE SUMMARY	
8/5/2009	Original	\$ 2,366,318.00
8/24/2009	C.O. #1	\$ 18,500.00
9/24/2009	C.O. #2	\$ 3,925.00
11/24/2009	C.O. #3	\$ 53,982.00
12/3/2009	C.O. #4	\$ 7,410.00
12/3/2009	C.O. #5	\$ (190,542.85)
CONTRACT PRICE TO DATE		\$ 2,259,592.15

MISCELLANEOUS INFORMATION	
TOTAL UNCOMPLETED TO DATE	0.00%
PERCENT COMPLETE TO DATE	100.00%

*RETAINAGE WITHHELD IS 5% PLUS \$1,000

LIGHTLY SHADED AREAS ARE AUTOMATICALLY CALCULATED

CURRENT PAYMENT REQUEST	
EARNED	\$ 79,960.55
RETAINAGE WITHHELD	\$ -
RETAINAGE RELEASED	\$ 109,981.57
GROSS PAYMENT	\$ 189,942.12
TAX (1%)	\$ 1,899.42
NET PAYMENT	\$ 188,042.70

REQUESTED BY: CONTRACTOR: Mungas Co.
SIGNATURE: Blay Beasly
DATE: 12/9/09

RECOMMENDED BY: ENGINEER: Wang P. Stevens
COMPANY: Tetra Tech EM Inc.
DATE: 12/09/2009

APPROVED BY: OWNER: DEQ - Abandoned Mines Section
SIGNATURE: John Koebke
DATE: 12/9/09

Spring Meadow Lake Reclamation Project, DEQ Contract No. 410001

ESTIMATED QUANTITY		BID TABULATION		Mungas Co.		Total Previously Billed (Pay Request No. 1, 2, 3, 4)		Billed This Period (Pay Request No. 5)		Total Billed to Date		
Bid Item	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE	Quantity	Present Dollars	% Complete	Quantity	Present Dollars	% Complete	Quantity	Present Dollars
1	LS	Mobilization, Demobilization, Bonding, Insurance	\$104,600.00	\$104,600.00	0.5	\$52,300.00	0.0%	0.5	\$52,300.00	100.0%	1.0	\$104,600.00
2	KGAL	Provide Water	\$33.50	\$67,000.00	1,262.4	\$42,290.40	24.9%	11.3	\$378.55	63.7%	1,273.7	\$42,668.95
3	LF	Silt Fence	\$5.00	\$900.00	547.0	\$2,735.00	35.6%	0.0	\$0.00	303.9%	547.0	\$2,735.00
4	LF	Silt Barriers	\$8.00	\$2,000.00	425.0	\$3,400.00	0.0%	0.0	\$0.00	170.0%	425.0	\$3,400.00
5	LS	Construct Access Road and Staging Area	\$10,100.00	\$10,100.00	1.0	\$10,100.00	0.0%	0.0	\$0.00	100.0%	1.0	\$10,100.00
6	LS	Clearing and Grubbing	\$7,400.00	\$7,400.00	1.1	\$7,770.00	5.0%	0.0	\$0.00	105.0%	1.1	\$7,770.00
7	LF	Dismantle Chain-Link Fence	\$3.50	\$2,625.00	1,080.0	\$3,780.00	0.0%	0.0	\$0.00	144.0%	1,080.0	\$3,780.00
8	LF	Reconstruct Chain-Link Fence	\$10.00	\$5,150.00	945.0	\$9,450.00	0.0%	0.0	\$0.00	183.5%	945.0	\$9,450.00
9	Ton	Excavate, Screen, Haul and Dispose of Contaminated Material from State Park at a RCRA Subtitle D Class II Solid Waste Management Facility	\$23.60	\$1,534,000.00	51,555.8	\$1,216,717.59	0.6%	0.0	\$0.00	79.3%	51,555.8	\$1,216,717.59
10	Each	Excavate Around Designated Trees	\$400.00	\$2,000.00	6.0	\$2,400.00	0.0%	0.0	\$0.00	120.0%	6.0	\$2,400.00
11	Ton	Excavate, Screen, Treat, Haul and Dispose of Contaminated Material from Wildlife Center at a RCRA Subtitle D Class II Solid Waste	\$33.19	\$182,545.00	4,849.2	\$160,945.94	73.9%	0.0	\$0.00	88.2%	4,849.2	\$160,945.94
12	AG	Grade North Slope of Wildlife Center	\$6,400.00	\$6,400.00	0.0	\$0.00	0.0%	0.0	\$0.00	0.0%	0.0	\$0.00
13	Ton	Separate, Haul and Dispose of Debris from North Slope of Wildlife Center	\$48.00	\$2,400.00	2,525.2	\$121,210.56	179.8%	0.0	\$0.00	505.04%	2,525.2	\$121,210.56
14	CY	Obtain, Place and Grade Cover Soil on State Park	\$11.50	\$350,750.00	32,370.0	\$372,255.00	88.5%	0.0	\$0.00	106.1%	32,370.0	\$372,255.00
15	CY	Obtain, Place and Grade Cover Soil on Wildlife Center	\$12.50	\$50,000.00	6,011.3	\$75,140.95	0.0%	0.0	\$0.00	150.3%	6,011.3	\$75,140.95
16	SY	Obtain, and Place Gravel Surfacing at Wildlife Center	\$4.20	\$7,938.00	1,777.8	\$7,466.67	0.0%	0.0	\$0.00	94.1%	1,777.8	\$7,466.67
17	AC	Fertilize and Seed Disturbed Areas	\$517.50	\$6,210.00	0.0	\$0.00	0.0%	12.8	\$6,624.00	106.7%	12.8	\$6,624.00
18	AC	Straw Mulch Disturbed Areas	\$1,035.00	\$12,420.00	0.0	\$0.00	0.0%	12.8	\$13,248.00	106.7%	12.8	\$13,248.00
19	LF	Reconstruct Gravel Pathway	\$6.15	\$7,380.00	1,750.0	\$10,762.50	0.0%	0.0	\$0.00	145.8%	1,750.0	\$10,762.50
20	LS	Obliterate and Reclaim Temporary Roadways	\$4,500.00	\$4,500.00	1.0	\$4,500.00	0.0%	0.0	\$0.00	100.0%	1.0	\$4,500.00
CO #1-1	LS	Relocate Salvage Stone			1.0	\$1,110.00				100.0%	1.0	\$1,110.00
CO #1-2	LS	Excavate Concrete Structures and Associated Wastes at MWC			1.0	\$17,390.00				100.0%	1.0	\$17,390.00
CO #2-1	LS	Separate, Haul and Place Large Rock from Wildlife Center in State Park Removal Area			1.0	\$3,000.00				100.0%	1.0	\$3,000.00
CO #2-2	LS	Demolish Large Concrete Block in State Park			1.0	\$925.00				100.0%	1.0	\$925.00
CO #3-1	LS	Montana Wildlife Center Improvements			1.0	\$50,477.00				100.0%	1.0	\$50,477.00
CO #3-2	LS	Remove Concrete Foundations on West side of Stedman Building			1.0	\$3,505.00				100.0%	1.0	\$3,505.00
CO #4-1	LS	Grading and Re-graveling of Wildlife Center Parking Lot			1.0	\$7,410.00		1.0	\$7,410.00	100.0%	1.0	\$7,410.00
CO #5	LS	Reconciliation										
				TOTAL =		\$2,366,318.00			\$79,960.55			\$2,259,592.15

APPENDIX H
PROJECT COMPLETION FORMS

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF MONTANA

DEQ Contract No.: 410001

COUNTY OF LEWIS AND CLARK

: ss

DATE: DECEMBER 9, 2009

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between Montana Department of Environmental Quality, the Owner, and Mungas Company, Inc., the Contractor, dated July 4th, August 5 2009 for the Spring Meadow Lake Reclamation Project, DEQ Contract No. 410001, and further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This affidavit is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 9 day of December, 2009, at Helena, Montana.

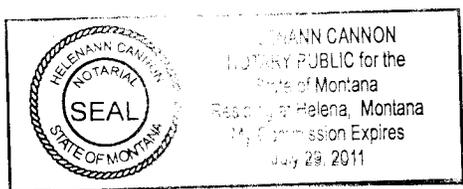
CONTRACTOR: Mungas Company, Inc.

By: Ray Bennett
Title: General Manager

Subscribed and sworn to before me this 10 day of December, 2009.

Helena Ann Cannon
Notary Public for the State of Montana
Residing at Helena
My commission expires July 29, 2011

(SEAL)



CERTIFICATE OF ACCEPTANCE

TO: Montana Department of Environmental Quality (OWNER)

PROJECT TITLE: Spring Meadow Lake Reclamation Project

DEQ Contract No. 410001
CONTRACT DATE: August 5, 2009
LOCATION: Spring Meadow Lake State Park,
Helena, Montana

PROJECT OR PART SHALL INCLUDE: Removal
of heavy metal contaminated soils from the site.

CONTRACTOR: Mungas Company, Inc.
ADDRESS: P.O. Box 236 Phillipsburg, MT 59858

TELEPHONE NO: (406) 859-3203

FINAL ACCEPTANCE DATE: December 9, 2009
DEQ INSPECTION DATE: December 2, 2009
ENGINEER: Gary Sturm, Tetra Tech EM Inc.

PERFORMANCE BOND NO: 0135820
DATE OF BOND: August 5, 2009
SURETY: Berkley Regional Insurance Company
MONTANA AGENT: Payne Financial Group, Inc.
ADDRESS: 1200 N. Montana Ave, Helena, MT 59604

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be totally completed and accepted on the above date.

ENGINEER: Tetra Tech EM, Inc.

By Gary Sturm 12/09/2009
Gary Sturm, PE Date

The Contractor accepts the above Certificate of Acceptance and agrees to abide by the conditions of the one-year warranty period which began on the substantial completion date.

CONTRACTOR: Mungas Company, Inc.

By Ray Bennett 12/9/09
Ray Bennet Date

The Owner accepts the Project as totally complete, and final payment is due to the Contractor as provided in the contract documents.

OWNER: Montana Department of Environmental Quality

By Pebbles Clark 12/9/2009
Pebbles Clark Date

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: Montana Department of Environmental Quality OWNER

PROJECT TITLE: Spring Meadow Lake Reclamation Project

DEQ Contract No. 410001
CONTRACT DATE: August 5, 2009

LOCATION: Spring Meadow Lake State Park,
Helena, Montana

PROJECT OR PART SHALL INCLUDE: Removal
of heavy metal contaminated soils from the site.

CONTRACTOR: Mungas Company, Inc.
ADDRESS: P.O. Box 236 Phillipsburg, MT 59858

TELEPHONE NO: (406) 859-3203

SUBSTANTIAL COMPLETION DATE: December 1, 2009

DEQ INSPECTION DATE: November 30, 2009

ENGINEER: Gary Sturm, Tetra Tech EM Inc.

PERFORMANCE BOND NO: 0135820

DATE OF BOND: August 5, 2009

SURETY: Berkley Regional Insurance Company

MONTANA AGENT: Payne Financial Group, Inc.

ADDRESS: 1200 N. Montana Ave, Helena, MT 59604

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or use it for the purpose for which it is intended.

A tentative list of items to be completed is appended hereto. This list is not exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER: Tetra Tech EM, Inc.

By Gary Sturm
Gary Sturm, PE

12/01/2009
Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR: Mungas Company, Inc.

By Ray Bennett
Ray Bennett

12/01/09
Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at 1700 (time), on 12/01/2009 (date). The responsibility for heat, utilities, security, and insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER:

Montana Dept Env Quality

By Pebbles Clark
Pebbles Clark, MDEQ

12/01/2009
Date

Remarks: (Attach additional sheet, if necessary)

Items to be completed at the site:

- 1. Move the rock at the trailhead.**
- 2. Place large rocks across the entrance to the parking lot on the west side of the Wildlife Center.**

**CONSENT OF
SURETY COMPANY
TO FINAL PAYMENT**
(From AIA Document G707)

OWNER []
ENGINEER []
CONTRACTOR []
SURETY []
OTHER []

PROJECT: ~~Spring Meadow Lake State Park and Montana Wildlife Center~~ *Spring Meadow Lake Reclamation Project* ^{pc} Reclamation Project

TO (Owner)

Montana Dept. of Environmental Quality
Remediation Division
Mine Waste Cleanup Bureau
P.O. Box 200901
Helena, MT 59620-0901

DEQ Contract No.: 410001

CONTRACT FOR: Reclamation Construction

CONTRACT DATE: ~~August 5, 2009~~

July 13, 2009 pc pc
August 5, 2009

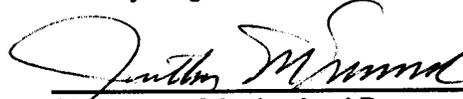
CONTRACTOR:

In accordance with the provisions of the contract between the Owner and the Contractors indicated above,

the Berkley Regional Insurance Company, SURETY COMPANY, on bond of Mungas Company, Inc., CONTRACTOR, hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to Montana Department of Environmental Quality, P.O. Box 200901, Helena, MT 59620-0901, OWNER, as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF, the Surety Company has hereunto set its hand this 7 day of DECEMBER, 2009.

Berkley Regional Insurance Company



Signature of Authorized Representative

ATTORNEY-IN-FACT
Title

Attest:
(Seal)

NOTE: This form is to be used as a companion document to the Affidavit on Behalf of Contractor (current edition)

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Montana Department of
Environmental Quality

DATE: December 9, 2009

PROJECT TITLE: Spring Meadow Lake Reclamation Project

DEQ Contract No. 410001

ATTN: Engineer, Gary Sturm, PE

CONTRACT DATE: August 5, 2009
~~July 13, 2009~~
pc

FROM: Mungas Company, Inc.

(Firm or Corporation)

This is to certify that I, Ray Bennett, am an authorized official of Mungas Company, Inc., working in the capacity of General Manager and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your substantial completion inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR:

Ray Bennett Mungas Co.

By:

General Manager

Title

Distribution: 1. Project Manager
3. File

APPENDIX I
DAILY CONSTRUCTION REPORTS

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 5, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas

WEATHER: Overcast

TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:**

PERSONNEL ON SITE:

TtEMI:	RPR : Colin McCoy	RPR Arrival time: 9:30	Mileage: 80520
	Other : Gary Sturm	Departure Time: 16:45	Mileage: 80550
DEQ:	RPM: Pebbles Clark		
Mungas:	Supt: Ray Bennet		
	Other: Barry Vest, Jim, Bob, Jeff		

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator		6.	
2.		7.	
3.		8.	
4.		9.	
5.		10.	

Contractor Arrival: 8:00 **Contractor Departure:** 5:00

CONSTRUCTION ACTIVITIES:

1. Mobilization of Equipment to Site 2. Fence Removal 3. Fence Foundation Removal 4. Tt marked MWC excavation boundaries 5. Trees to be saved were flagged. 6. Temporary Barrier of snow fence was erected to prevent public access to MWC 7. Gate to western access was built 8. Fence at MWC was built.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 6, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas

WEATHER: Overcast
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI:	RPR : Colin McCoy	RPR Arrival time: 6:55	Mileage: 80550
	Other : Gary Sturm	Departure Time: 17:40	Mileage: 80573
DEQ:	RPM: Pebbles Clark		
Mungas:	Supt: Ray Bennet		
	Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff		

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator		6.	
2. CAT D8 Dozer		7.	
3. Terex Loader		8.	
4. Samsung Excavator		9.	
5.		10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:45

CONSTRUCTION ACTIVITIES:

1. Mobilization of Equipment to Site 2. Fence Removal 3. Removal of concrete from fence posts with jackhammer 4. Chain link fence placed at MWC for the night.

ISSUES/CONCERNS:

Drift fence placed at MWC was removed during the night. Craig and Zach of FWP reported nothing missing. Komatsu haul truck mobilized to site was dirty with several inches of soil. RPR refused to allow the truck onsite.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 7, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas

WEATHER: Overcast
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 80573
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80594
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet, Rich Bonde
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Martin, Mark

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator		6. Komatsu 400 Haul Truck	
2. CAT D8 Dozer		7.	
3. Terex Loader		8.	
4. Samsung Excavator		9.	
5. Bobcat 753		10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:45

CONSTRUCTION ACTIVITIES:

1. Mobilization of Equipment to Site 2. Fence Construction 3. Relocating MWC rock pile with loader.
4. Meeting with Chris and Craig from FWP 5. Separating materials in pile at MWC.

ISSUES/CONCERNS:

Meeting discussed haul route at MWC; Traffic barriers to be moved next to building; creating snow fence partition; Use of MWC building granted to Contractor/Engineer; Tentative status meeting scheduled for every two weeks.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 10, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas

WEATHER: Sunny
TEMP: 85 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI:	RPR : Colin McCoy	RPR Arrival time: 7:00	Mileage: 80594
	Other : Gary Sturm	Departure Time: 17:30	Mileage: 80608
DEQ:	RPM: John Koerth		
Mungas:	Supt: Ray Bennet, Rich Bonde		
	Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy		

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator		6. Komatsu 400 Haul Truck	
2. CAT D8 Dozer		7. Komatsu 400 Excavator	
3. Terex Loader		8. Roller	
4. Samsung Excavator		9. Side dump haul truck	
5. Bobcat 753		10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:45

CONSTRUCTION ACTIVITIES:

1. Mobilization of Equipment to Site 2. Fence Construction 3. Ripping and excavation of contaminated soils near MWC 4. Line locate completed 5. Staging area excavation begun 6. Large slabs of concrete taken to Valleyview Landfill 7. Secondary gate at MWC removed.

ISSUES/CONCERNS:

1. 15 ft concrete slab excavated from edge of building. No visible damage to building. 2. Sprinkler pipe broken and removed. Pipe will be capped with a flush valve when line is relocated.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 11, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Construction, Inc.

WEATHER: Sunny
TEMP: 91 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80608
 Other : Gary Sturm, Surbrugg **Departure Time:** 17:00 **Mileage:** 80621
DEQ: **RPM:** Tom Henderson
Mungas: **Supt:** Ray Bennet, Rich Bonde
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy
FWP: Paul Valle, Bardell Mangum

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Haul Truck	1
2. CAT D8 Dozer	1	7. Komatsu 400 Excavator	1
3. Terex Loader	1	8. Roller	1
4. Samsung Excavator	1	9. Side dump haul truck	2
5. Bobcat 753	1	10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:45

CONSTRUCTION ACTIVITIES:

1. Fence Construction 2. Piling and excavation of contaminated soils near MWC 3. Staging area excavation begun 4. Large slabs of concrete taken to Valleyview Landfill 5. Secondary gate at MWC removed 6. Discussed slope grading with LA's from FWP.

ISSUES/CONCERNS:

1. Mungas used umetered water from the wildlife center, running a hose from the center to the fence line to add to the concrete. FWP (Zach) is wondering about reimbursement for the hose running all day.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 12, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Construction, Inc.

WEATHER: Sunny
TEMP: 82 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:55 **Mileage:** 80621
 Other : Gary Sturm, Surbrugg **Departure Time:** 17:00 **Mileage:** 80632
DEQ: **RPM:** Tom Henderson, Tom Root, Bill Botsford
Mungas: **Supt:** Ray Bennet, Rich Bonde
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy, Brian
FWP: Paul Valle, Bardell Mangum

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Haul Truck	1
2. CAT D8 Dozer	1	7. Komatsu 400 Excavator	1
3. Terex Loader	1	8. Roller	1
4. Samsung Excavator	1	9. Side dump haul truck	2
5. Bobcat 753	1	10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:45

CONSTRUCTION ACTIVITIES:

1. Fence completed 2. Piling and excavation of contaminated soils near MWC 3. Piling and excavation of 'pits' of multi-colored material 4. Construction of screening plant at MWC.

ISSUES/CONCERNS:

1. Several pits and troughs of multi-colored clay-like material excavated. Not all were excavated. Need direction from DEQ whether or not to continue excavation and remove the concrete.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 13, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Construction, Inc.

WEATHER: Partly Cloudy
TEMP: 80 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 80632
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80662

DEQ: **RPM:** John Koerth
Mungas: **Supt:** Ray Bennet, Rick Bonde
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	8
4. Samsung Excavator	1	9.	
5. Komatsu 400 Haul Tru	2	10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Safety Meeting for truck drivers held. Haul routes driven. 2. John Koerth of DEQ instructed Engineer and Contractor to remove all concrete pits and associated waste. Contractor will be paid for excavation and handling of the material. 3. Qwest drilled underneath road to transfer existing telephone line on the west side of Country Club to the east side. 4. Excavation, transport and disposal of top soil from excavation area.

ISSUES/CONCERNS:

1. Joggers entering construction site. More signs may be necessary at eastern site entrance. Snow fence erected to keep joggers out.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 14, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Construction, Inc.

WEATHER: Cloudy
TEMP: 70 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 80662
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80674

DEQ: **RPM:** John Koerth
Mungas: **Supt:** Ray Bennet, Rick Bonde
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	8
4. Samsung Excavator	1	9.	
5. Komatsu 400 Haul Truck	2	10.	

Contractor Arrival: 6:45 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Excavation of pits and associated waste at MWC 2. Excavation, transport and disposal of top soil from excavation area. 3. Waste screening at MWC 4. Clearing and grubbing at northeast area of site

ISSUES/CONCERNS:

1. 4 hours of excavator used to try to excavate concrete and associated waste at the MWC. Many large concrete foundations were unearthed during excavation. Engineer requested further guidance from DEQ. DEQ instructed Engineer to excavate all concrete and associated waste. After negotiating a price for removal with Contractor, Engineer will issue a work directive for the excavation and disposal of the concrete foundations and waste. 2. 2.5 hours for 400. 2.5 hours for haul truck. 2 hours for green loader. Contractor hauled until 16:30, screened until 15:00.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 17, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Construction, Inc.

WEATHER: Cloudy
TEMP: 70 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 80674
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80688
DEQ: **RPM:** Pebbles Clark, Devin Clary
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9.	
5. Komatsu 400 Haul Truck	2	10.	

Contractor Arrival: 6:30 **Contractor Departure:** 16:30

CONSTRUCTION ACTIVITIES:

1. Concrete broken into smaller manageable pieces using jackhoe 2. Underground concrete structures at MWC broken and excavated. 3. Excavation, transport and disposal of top soil from excavation area.

ISSUES/CONCERNS:

Jackhoe: 4.5 hours. Excavator and haul truck 7 hours.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 18, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Cloudy
TEMP: 70 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:40 **Mileage:** 80688
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80699
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9.	
5. Komatsu 400 Haul Truck	2	10.	

Contractor Arrival: 6:30 **Contractor Departure:** 16:30

CONSTRUCTION ACTIVITIES:

1. Concrete broken into smaller manageable pieces using jackhoe 2. Underground concrete structures at MWC broken and excavated. 3. Waste from structures removed and stockpiled. 4. Transport and disposal of concrete from MWC to Valleyview Landfill 5. Excavation, transport and disposal of top soil from excavation area.

ISSUES/CONCERNS:

Jackhoe: 7 hours. Excavator and haul truck 9 hours. Substitution Request from Mungas received for Alternative Specification for Cover Soil

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 19, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Cloudy
TEMP: 70 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80699
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80712
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9.	
5. Komatsu 400 Haul Truck	2	10.	

Contractor Arrival: 6:45 **Contractor Departure:** 16:30

CONSTRUCTION ACTIVITIES:

1. Concrete broken into smaller manageable pieces using jackhoe 2. Underground concrete structures at MWC broken and excavated. 3. Waste from structures removed and stockpiled. 4. Transport and disposal of concrete from MWC to Valleyview Landfill 5. Excavation, transport and disposal of top soil from excavation area.

ISSUES/CONCERNS:

At MWC: Jackhoe- 7 hours. Excavator- 9 hours. Haul Truck- 8 hours. Substitution Request from Mungas received for Alternative Specification for Cover Soil. Screening plant began operating at 14:30. Groundwater encountered when excavating at MWC.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 20, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80712
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80720
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Komatsu 400 Haul Truck	2	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:15

CONSTRUCTION ACTIVITIES:

1. Excavation at MWC 2. Filling excavations at MWC 3. Grading MWC with CAT D8R 4. Excavation, screening, transport and disposal of material at northeast side of the site 5. Preparation of test batch of screened material and cement for TCLP analysis

ISSUES/CONCERNS:

At MWC: Jackhoe- 2 hours. Excavator- 5.5 hours. Haul Truck- 5 hours CAT D8R- 3 hours.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 21, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 95 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80720
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80739
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Komatsu 400 Haul Truck	2	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Loading and disposal of concrete and MWC.

ISSUES/CONCERNS:

Extra work at MWC completed in 94 hours. Screening plant broke a belt at 13:30 and was unoperational for the rest of the day.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 24, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 95 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80739
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80753
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Komatsu 400 Haul Truck	2	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Sandbags and tarp removed from previously excavated soil pile.

ISSUES/CONCERNS:

Pay request items were discussed by Engineer and Contractor. Contractor requested and Engineer approved of not screening previously excavated soil pile due to willow roots clogging the screen. Soil will be directly shipped the landfill.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 25, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 85 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80753
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80767

DEQ: **RPM:** Pebbles Clark, Devin Clary

Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Karl Konrad, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Topsoil removal at west side of state park excavation area. 3. Pay Request #1 was signed.

ISSUES/CONCERNS:

1. On previous Friday Contractor was informed of complaints to the police from residents on Brady St. about truck traffic speeding and using air brakes. Police found no validity to the complaints after investigation. 2. More clay textured waste was unearthed during excavation of the state park.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 26, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80767
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80789

DEQ: **RPM:** Pebbles Clark

Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Topsoil removal at west side of state park excavation area. 3. Soil/cement samples taken and given to lab for TCLP analysis.

ISSUES/CONCERNS:

Main gate cable was cut overnight. All other gates were undamaged. No Mungas equipment was stolen or appears damaged or tampered with.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 27, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80789
 Other : Gary Sturm, Kathi Roos **Departure Time:** 17:00 **Mileage:** 80809
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian
FWP: Paul Valley, Bardell Magnum

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Topsoil removal at west side of state park excavation area. 3. Clearing and grubbing near lakeside excavation area. 4. Silt fence constructed near excavation area.

ISSUES/CONCERNS:

1. DEQ received complaint about dust from the site, uncovered trucks and dirt on the road. Pictures were taken of an uncovered truck on Country Club not belonging to Mungas or Schnell. The truck was followed to Valley Excavating. 2. Silt fence needs to have wire backing installed.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 28, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 8:45 **Mileage:** NA
 Other : Gary Sturm **Departure Time:** 3:30 **Mileage:** NA
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Mark, Tony, Willy, Chester
FWP: Paul Valley, Bardell Magnum

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Screening, transport and disposal of material at northeast side of the site.

ISSUES/CONCERNS:

1. DEQ received complaint about dust from the site, uncovered trucks and dirt on the road. Gravel was brought in Thursday night (8/26/09). The entrance and exit road was graveled to cut down the dust. 2. Gary checked the barriers in the morning and the gates on Country Club in the evening. Contractor will improve Country Club gates starting 8/31/09.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** August 31, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Water Meter #1: 2827600 **Water Meter #2:** 131900

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:10 **Mileage:** 80809
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80827
DEQ: **RPM:** Pebbles Clark, John Koerth
Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian
DNRC: Alice Stanley

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at northeast side of the site 2. Topsoil removal at west side of state park excavation area.

ISSUES/CONCERNS:

1. Zach of FWP confronted Karl Konrad of Mungas on Friday about apparent issues at the site. 2. Haul truck was in traffic accident at corner of Country Club and Hwy 12 at 10am. Minor damage was done to right fuel tank. Truck continued hauling after incident. 3. Due to traffic incident, DEQ obtained permission from City Traffic Control to close north right turn lane from Hwy 12 to Country Club for the remainder of the haul period.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 1, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 80827
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80852
DEQ: **RPM:** Pebbles Clark, Steve
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at the state park site 2. Waste excavation at west side of state park excavation area. 3. Gate at east entrance of MWC replaced.

ISSUES/CONCERNS:

1. Work Directive 03 will direct the Contractor to excavate the concrete block at the southwest area of the state park excavation area in 5 hours. 2. Silt fence will be placed around the pond in that area as well. 3. Contractor will not be working Friday or Monday (Monday due to the Labor Day weekend).

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 2, 2009

TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny

TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Water Meter #1: 2899100

Water Meter #2: 131900

PERSONNEL ON SITE:

TtEMI: RPR : Colin McCoy **RPR Arrival time:** 6:50 **Mileage:** 80852

Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80868

DEQ: RPM: Pebbles Clark

Mungas: Supt: Ray Bennet

Other:

Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willie, Brian, Chester, Rick

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30

Contractor Departure: 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at the state park site 2. Waste excavation at west side of state park excavation area under Engineer's direction. 3. Silt fence installation at state park excavation area bordering pond.

ISSUES/CONCERNS:

1. 900-1000 tons of material was overexcavated from the northwest area of the State Park excavation area to remove additional waste encountered during excavation.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 3, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:50 **Mileage:** 80868
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80887
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other:
 Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willie, Brian, Chester, Rick

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation, screening, transport and disposal of material at the state park site 2. Waste excavation at west side of state park excavation area under Engineer's direction. 3. Screening plant disassembled and moved to MWC. 4. Large concrete block at northwestern area of State Park partially broken with jackhoe.

ISSUES/CONCERNS:

1. Marc Houg was hired by Mungas for a haul truck driver. His ID and 40-hr certificate are on file with the Engineer. 2. Concrete block worked on for 3 hours with jackhoe.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 4, 2009

TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny

TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** **Mileage:** 80887
 Other : Gary Sturm **Departure Time:** **Mileage:** 80896

DEQ: **RPM:**
Mungas: **Supt:**
 Other:

FWP:

EQUIPMENT ON SITE:

	Description	#		Description	#
1.	CAT 330L Excavator	1	6.	Komatsu 400 Excavator	1
2.	CAT D8 Dozer	1	7.	Roller	1
3.	Terex Loader	1	8.	Haul Truck	9
4.	Samsung Excavator	1	9.	CAT Loader	2
5.	Off-road haul truck	3	10.	Fuel Truck	1

Contractor Arrival:

Contractor Departure:

CONSTRUCTION ACTIVITIES:

No construction activities at the site

ISSUES/CONCERNS:

All entrances are locked and trail signs are in place for the Labor Day Weekend. Contractor will email State to request permission to water the site for dust control one day over the weekend.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 8, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 74 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Water Meter #1: 3012200 **Water Meter #2:** 131900

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:30 **Mileage:** 80896
 Other : Gary Sturm **Departure Time:** 17:30 **Mileage:** 80928
DEQ: **RPM:** Pebbles Clark, John Koerth
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Screening, loading, and hauling waste from State Park excavation area 2. Breaking up concrete block in northwest part of State Park excavation area was completed. 3. Assembling screening plant at MWC. 4. Soil removal and screening at 2-foot State Park excavation area.

ISSUES/CONCERNS:

1. Over the weekend the water truck worked 8 hours on Saturday and 5 hours on Sunday. 2. Work Directive 04 was signed instructing the Contractor to move excess rock from the Wildlife Center to the State Park to be used for backfill.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 9, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 80 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:40 **Mileage:** 80928
 Other : Gary Sturm **Departure Time:** 17:30 **Mileage:** 80946

DEQ: **RPM:** Pebbles Clark

Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

	Description	#		Description	#
1.	CAT 330L Excavator	1	6.	Komatsu 400 Excavator	1
2.	CAT D8 Dozer	1	7.	Roller	1
3.	Terex Loader	1	8.	Haul Truck	9
4.	Samsung Excavator	1	9.	CAT Loader	2
5.	Off-road haul truck	3	10.	Fuel Truck	1
Contractor Arrival: 6:30			Contractor Departure: 17:00		

CONSTRUCTION ACTIVITIES:

1. Screening, loading, and hauling waste from State Park excavation area 2. Soil screening at MWC 3. Soil removal at 3-foot State Park excavation area.

ISSUES/CONCERNS:

Concrete pad at Wildlife Center will be removed.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 10, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Partly Cloudy
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:40 **Mileage:** 80946
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80968

DEQ: **RPM:** Pebbles Clark

Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Screening, loading, and hauling waste from State Park excavation area 2. Soil screening at MWC 3. Soil removal at 2-foot State Park excavation area.

ISSUES/CONCERNS:

1. Informed that HWY 12, Joslyn and Country Club will be closed tomorrow while the Williams St bridge is relocated. 2. Water meter malfunction. 3. Snow fence erected to prevent public access to MWC screening area

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 11, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Partly Cloudy
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:30 **Mileage:** 80968
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 80995
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Jim, Bob, Jeff, Mark, Marty, Tony, Willy, Brian
FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Screening, loading, and hauling waste from State Park excavation area 2. Soil screening at MWC 3. Soil removal at 2-foot State Park excavation area.

ISSUES/CONCERNS:

Trucking shut down for 0.5 hours for bridge transport. Meeting about MWC slope grading. Trail will not be a 5% grade. Only Centennial Concrete will work Monday. Barry Vest will be the on-site supervisor.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 14, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Water Meter #1: 3132800 **Water Meter #2:** 146000

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 8:00 **Mileage:** 80995
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 81011
DEQ: **RPM:** Devin Clary
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Mark, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Soil screening at MWC. 2. Water application for dust control 3. Loading and disposal of concrete from the MWC.

ISSUES/CONCERNS:

City of Helena fixed the water meters.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 15, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:40 **Mileage:** 81011
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81025

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Completed soil excavation and screening at MWC. 2. Water application for dust control 3. Loading and disposal of concrete from the MWC. 4. Clearing, grubbing and excavation of northern State Park area 5. Screening, transport and disposal of material from State Park area

ISSUES/CONCERNS:

1. Black/gray material encountered beyond excavation boundaries of northwestern State Park area. Additional material will be excavated beyond the original boundaries. 2. Extra material was also excavated from the MWC outside the original excavation boundaries.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 16, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81025
 Other : Gary Sturm **Departure Time:** 16:00 **Mileage:** 81034
DEQ: **RPM:** Devin Clary, John Koerth
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

	Description	#		Description	#
1.	CAT 330L Excavator	1	6.	Komatsu 400 Excavator	1
2.	CAT D8 Dozer	1	7.	Roller	1
3.	Terex Loader	1	8.	Haul Truck	9
4.	Samsung Excavator	1	9.	CAT Loader	2
5.	Off-road haul truck	3	10.	Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Water application for dust control. 2. Clearing, grubbing and additional excavation of northern State Park area 3. Screening, transport and disposal of material from State Park area 4. Treatment plant construction begins at MWC.

ISSUES/CONCERNS:

1. Black/gray material encountered beyond excavation boundaries of northwestern State Park area. Extra material excavated per DEQ authorization. 2. DEQ requested additional excavation of dark waste material near MWC.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 17, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:30 **Mileage:** 81034
 Other : Gary Sturm **Departure Time:** 12:30 **Mileage:** 81045

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Screening, transport and disposal of material from State Park area 2. Treatment plant construction continued at MWC. 3. Brush chipping at State Park area

ISSUES/CONCERNS:

1. County wants Contractor to provide dust control on Head Lane

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 18, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 90 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81045
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81061

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Completed screening, transport and disposal of material from State Park area 2. Treatment plant construction continued at MWC. 3. Brush chipping at State Park area

ISSUES/CONCERNS:

Monday only work to be done will include batch plant construction and equipment cleaning and transport in preparation for soil hauling.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 21, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Water Meter #1: 3265100 **Water Meter #2:** 150700

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 12:45 **Mileage:** 81061
 Other : Gary Sturm **Departure Time:** 15:30 **Mileage:** 81070
DEQ: **RPM:** Devin Clary
Mungas: **Supt:** Ray Bennet
 Other: Barry Vest, Mark, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Komatsu 400 Excavator	1
2. CAT D8 Dozer	1	7. Roller	1
3. Terex Loader	1	8. Haul Truck	9
4. Samsung Excavator	1	9. CAT Loader	2
5. Off-road haul truck	3	10. Fuel Truck	1

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Batch Plant Construction 2. Cleaing and transporting equipment to soil excavation area

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 22, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81070
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81082

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Roller	1
2. Cement Truck	2	7. Haul Truck	4
3. Terex Loader	1	8. CAT Loader	2
4. Samsung Excavator	1	9. Fuel Truck	1
5. Off-road haul truck	3	10. CAT D5G Dozer	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Completed screening, transport and disposal of material from State Park area 2. Begin hauling top soil from Head Lane to site 3. Spreading topsoil

ISSUES/CONCERNS:

Manhole present where rock pile is to be moved

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 23, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 85 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81082
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:**

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Roller	1
2. Cement Truck	2	7. Haul Truck	4
3. Terex Loader	1	8. CAT Loader	2
4. Samsung Excavator	1	9. Fuel Truck	1
5. Off-road haul truck	3	10. CAT D5G Dozer	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Completed screening, transport and disposal of material from State Park area 2. Begin hauling top soil from Head Lane to site 3. Spreading topsoil

ISSUES/CONCERNS:

1. Contractor was inadvertently trespassing on soil borrow area road. Issue was resolved. 2. Gas line was breached during stripping at soil borrow area. Contractor was notified at 11:30pm Tuesday night. Line was fixed.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** 9/24/2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny

TEMP: 85 °F

Morning Barrier Check: Yes

Evening Barrier Check: Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81098
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81115

DEQ: **RPM:** Devin Clary

Mungas: **Supt:** Ray Bennet

Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Roller	1
2. Cement Truck	2	7. Haul Truck	4
3. Terex Loader	1	8. CAT Loader	2
4. Samsung Excavator	1	9. Fuel Truck	1
5. Off-road haul truck	3	10. CAT D5G Dozer	1

Contractor Arrival: 6:30

Contractor Departure: 17:30

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Remove concrete from slope near MWC 3. Built silt fence around spring below MWC 4. Pay Request #2 was submitted to DEQ 5. First treated soil sample submitted for analysis

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 25, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 85 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81115
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81138
DEQ: **RPM:** John Koerth
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy
FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Roller	1
2. Cement Truck	2	7. Haul Truck	4
3. Terex Loader	1	8. CAT Loader	2
4. Samsung Excavator	1	9. Fuel Truck	1
5. Off-road haul truck	3	10. CAT D5G Dozer	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Hauling and applying soil from Head Lane to the site for backfill 3. Spreading soil at the site

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 28, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81138
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 81158

DEQ: **RPM:** Pebbles Clark

Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	6. Roller	1
2. Cement Truck	2	7. Haul Truck	4
3. Terex Loader	1	8. CAT Loader	2
4. Samsung Excavator	1	9. Fuel Truck	1
5. Off-road haul truck	3	10. CAT D5G Dozer	1

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Hauling and applying soil from Head Lane to the site for backfill 3. Spreading soil at the site

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 29, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Sunny
TEMP: 75 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81158
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81176

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Hauling and applying soil from Head Lane to the site for backfill 3. Spreading soil at the site

ISSUES/CONCERNS:

Scale computer malfunction caused delay in screening. Subsequently not enough material was screened for a sample to be collected.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** September 30, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 55 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81176
 Other : Gary Sturm, Roos **Departure Time:** 17:00 **Mileage:** 82201

DEQ: **RPM:**
Mungas: **Supt:** Karl Konrad
 Other: Mark, Marty, Tony

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

- 1. Treatment of soil at MWC

ISSUES/CONCERNS:

Rainy weather caused mud which prevented working in the State Park today.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 1, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 50 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

Sample Submitted: Yes **Number:** WC-SS-005

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:10 **Mileage:** 81201
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 81234
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff
FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 19:00

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Excavation and hauling of borrow soil from Head Lane to State Park 3. Spreading cover soil

ISSUES/CONCERNS:

Mud on site caused delay in hauling. Hauling began at 11:00.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 2, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 70 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: RPR : Colin McCoy **RPR Arrival time:** 7:10 **Mileage:** 81234
Other : **Departure Time:** 17:00 **Mileage:** 81249
DEQ: RPM: Pebbles Clark
Mungas: Supt: Ray Bennet
Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff
FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2
Contractor Arrival: 7:00		Contractor Departure: 18:00	

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Excavation and hauling of borrow soil from Head Lane to State Park 3. Spreading cover soil

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 5, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: Yes **Number:** WC-SS-006, WC-SS-007

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81249
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81268
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 7:00 **Contractor Departure:** 18:00

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Excavation and hauling of borrow soil from Head Lane to State Park 3. Spreading cover soil

ISSUES/CONCERNS:

City removed water meters from hydrants.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 6, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: Yes **Number:** WC-SS-008

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81268
 Other : Gary Sturm **Departure Time:** 16:40 **Mileage:** 81293
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2
Contractor Arrival: 6:30		Contractor Departure: 17:00	

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Excavation and hauling of borrow soil from Head Lane to State Park 3. Spreading cover soil

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 7, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 6:45 **Mileage:** 81293
 Other : Gary Sturm **Departure Time:** 17:00 **Mileage:** 81321

DEQ: **RPM:**
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff, Kay

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 18:00

CONSTRUCTION ACTIVITIES:

1. Treatment of soil at MWC 2. Excavation and hauling of borrow soil from Head Lane to State Park 3. Spreading cover soil 4. Hauled treated soil to landfill (WC-SS-001,2,3)

ISSUES/CONCERNS:

Engineer requested roads be rinsed by Contractor. Treatment delayed in morning due to weather.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 12, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 10 °F (am) 30 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 8:00 **Mileage:** NA
 Other : Gary Sturm **Departure Time:** 16:00 **Mileage:** NA

DEQ: **RPM:**

Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Mark, Marty, Tony, Willy, Chester, Brian, Bob, Jeff, Kay

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 18:00

CONSTRUCTION ACTIVITIES:

1. Finished treatment of soil at MWC
2. Excavation and hauling of borrow soil from Head Lane to State Park
3. Spreading cover soil

ISSUES/CONCERNS:

Treatment and hauling borrow soil slowed and delayed in the morning due to weather. Gary checked the barriers in the morning and evening before Kathie arrived.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 26, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 36 °F (am) 62 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 10:00 **Mileage:** 81521
 Other : Gary Sturm **Departure Time:** 15:00 **Mileage:** 81532
DEQ: **RPM:** John Koerth
Mungas: **Supt:** Karl Konrad
 Other: Bob, Tony, Chester, Bob, Barry
FWP: Pebbles Clark

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2
Contractor Arrival: 7:00		Contractor Departure: 17:00	

CONSTRUCTION ACTIVITIES:

1. Spread rock and cobble in area north of Stedman Foundry Building. Left at least two feet for fill dirt. 2. Excavation of area west of Wildlife Center fence. Investigated concrete pad. Work directive 06 will be prepared to deal with this pad and concrete foundations west of Stedman Foundry Building. 3. Built ramp over natural gas line on borrow area haul road. 4. Terex hauled offsite. 5. Roller hauled offsite, scheduled to be back tomorrow. 6. Gary Sturm was on site from 8:00 to 10:00 and 2:00 to 5:00.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 27, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 37 °F (am) 43 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 10:00 **Mileage:** 81532
 Other : Gary Sturm **Departure Time:** 15:00 **Mileage:** 81548
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Marty, Tony, Chester, Brian, Bob, Jeff, Russ, Dave, Jim, Russ

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	0	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2
Contractor Arrival: 7:00		Contractor Departure: 17:00	

CONSTRUCTION ACTIVITIES:

1. Haul and spread fill soil on top of rock\cobble north of Stedman Foundry. 2. Remove, load, haul debris\concrete\asphalt from west of Wildlife Center fence. 3. Excavate "top soil" from new borrow area. 4. Brought roller back, hauled water truck off. 5. Began to bring top soil in and spread on top of fill dirt north of Stedman Foundry. 6. Gary Sturm was on site from 7:30 to 10:00 and 2:30 to 5:00.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 28, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 32 °F (am) 42 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 10:00 **Mileage:** 81548
 Other : Gary Sturm **Departure Time:** 15:00 **Mileage:** 81555

DEQ: **RPM:**
Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Jim, Tony, Chester, Brian, Bob, Jeff, Russ, Dave (Swaney)

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	0	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	1	12. CAT Loader	2

Contractor Arrival: 7:00 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Haul and spread top soil north of Stedman Foundry. 2. Remove, load, haul debris\concrete\asphalt from west of Wildlife Center fence. 3. Brought in CAT 322B Excavator with hammer. 4. Used the 322B one hour. 5. Used Cat 330L Excavator to break up concrete for 2 hours on 10/27/09. 6. Removed Cat D400E off-road haul truck offsite. 7. Gary Sturm was on site from 8:00 to 10:30 and 3:00 to 5:00.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 29, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast-partly sunny
TEMP: 22 °F (am) 39 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 10:00 **Mileage:** 81555
 Other : Gary Sturm **Departure Time:** 14:30 **Mileage:** 81561
DEQ: **RPM:** Devin Clary and Scott Gestring
Mungas: **Supt:** Karl Konrad
 Other: Ray, Barry Vest, Jim, Tony, Chester, Brian, Bob, Jeff, Russ, Dave (Swaney)
FWP: Paul Valle

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	0	9. John Deere Grader	1
4. Samsung Excavator	0	10. Fuel Truck	1
5. Off-road haul truck	1	11. CAT D5G Dozer	1
6. Water Truck	1	12. CAT Loader	1

Contractor Arrival: 7:00 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Haul and spread cover soil north of Stedman Foundry. 2. Remove, load, haul debris\concrete\asphalt from west of Wildlife Center fence. 3. Used hammer excavator to break concrete (4 hours). 4. Remove and stockpile concrete from west (track hoe to remove concrete 2 hours) 5. Paul Valle and Gary Sturm identified bench locations along rebuilt gravel walkway. Contrator installed benches per Sturm instructions. 6. Sturm was on site from 8:00 to 1:00 and 2:00 to 4:30.

ISSUES/CONCERNS:

1. The listing of equipment on site has been updated to reflect actual conditions. One CAT Loader and one dozer are located the cover soil borrow site. The Samsung Excavator and one CAT Loader shown on the 10/28/09 daily report are no longer at the site. 2. When the Contractor began removing the concrete foundations west of the Stedman Foundry a strong chemical odor was noticed. Sturm instructed the Contractor to cease work in this area until the source of the odor could be determined. Devin Clary from DEQ came out to site to assess the situation and took two soil samples for possible analysis. 3. Sturm also asked Paul Valle with FWP to come out to site so FWP was aware of potential issue with foundation removal and chemical odor. Scott Gestring (DEQ) and Devin Clary visited the site and agreed that concrete could be stockpiled until Pebbles arrived to determine the next step.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** October 30, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 36 °F (am) 45 °F (pm)

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

TCLP Sample Submitted: No **Number:**

PERSONNEL ON SITE:

TtEMI: **RPR :** Kathie Roos **RPR Arrival time:** 10:00 **Mileage:** 81561
 Other : Gary Sturm **Departure Time:** 15:00 **Mileage:** 81580
DEQ: **RPM:** Pebble Clark and Devin Clary
Mungas: **Supt:** Karl Konrad
 Other: Barry Vest, Brian, Tony, Chester, Russ, Dave (Swaney)
FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	0	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	1	11. CAT D5G Dozer	1
6. Water Truck	1	12. CAT Loader	1
Contractor Arrival: 7:00		Contractor Departure: 17:30	

CONSTRUCTION ACTIVITIES:

1. Haul and spread cover soil north of Stedman Foundry. 2. Remove, load, haul debris\concrete\asphalt from west of Stedman Foundry. 3. Remove, load, haul soil to landfill from west of Stedman Foundry. 4. Haul and spread cover soil area east of the lake. 5. Gary Sturm was on site from 7:30 to 10:30 and from 1:00 to 1:30. 6. Kathie Roos left at 3:00 and came back to check barriers at 5:30.

ISSUES/CONCERNS:

Pebbles and Devin visited site at 0830 and instructed contractor to haul concrete, debris and waste material from west of Stedman Foundry to landfill. 2. Chris Smith of FWP visited site at 0900. Sturm updated him on handling soils and debris west of the Stedman Foundry.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 6, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Windy, Partly Cloudy
TEMP: 55 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 81679
 Other : **Departure Time:** 15:00 **Mileage:** 81696

DEQ: **RPM:**
Mungas: **Supt:**
 Other: Karl Konrad, Tony, Chester, Brian, Dave

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 15:00

CONSTRUCTION ACTIVITIES:

1. Building fence at the MWC. 2. Excavation of debris from the North Slope.

ISSUES/CONCERNS:

Contractor cleaned dirt from gutters at Country Club

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 9, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 55 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 81696
 Other : G. Sturm, D. Herold **Departure Time:** 17:00 **Mileage:** 81724

DEQ: **RPM:**

Mungas: **Supt:**
 Other: Karl Konrad, Tony, Chester, Brian, Dave, Bob, Jeff

FWP: Chris Smith

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Building fence at the MWC. 2. Excavation of debris from the North Slope. 3. North slope was staked in preparation for grading

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 10, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 60 °F

Morning Barrier Check: Yes

Evening Barrier Check: Yes

PERSONNEL ON SITE:

TtEMI: RPR : Colin McCoy **RPR Arrival time:** 7:00 **Mileage:** 81724
Other : **Departure Time:** 17:00 **Mileage:** 81746

DEQ: RPM:

Mungas: Supt:
Other: Karl Konrad, Tony, Chester, Brian, Dave, Bob, Jeff

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	4
3. Terex Loader	1	9. John Deere Grader	1
4. Samsung Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12. CAT Loader	2

Contractor Arrival: 6:30

Contractor Departure: 17:00

CONSTRUCTION ACTIVITIES:

1. Excavation of debris from the North Slope. 2. Placing straw waddles on the slopes of the pond at the State Park.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 11, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear
TEMP: 34 °F 48 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: RPR : Kathie Roos **RPR Arrival time:** 8:15 **Mileage:** NA
 Other : **Departure Time:** 16:30 **Mileage:** NA

DEQ: RPM:
Mungas: Supt:
 Other: Karl Konrad, Tony, Chester, Brian, Dave (Swanie), Bob, Jeff

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	1
3. Terex Loader	0	9. John Deere Grader	0
4. Samsung Excavator	0	10. Fuel Truck	0
5. Off-road haul truck	1	11. CAT D5G Dozer	1
6. Water Truck	1	12. CAT Loader	0

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavate debris from the North Slope until CAT 330L excavator developed a hydraulic oil leak. CAT 330L excavator parked and excavation activities were shut down. Expect a replacement excavator on site 11/12/09. Tony, Brian and Bob only worked a half of a day. 2. Two cement trucks were taken off site today. 3. The onsite equipment list has been updated.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 12, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear
TEMP: 30 °F 40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: RPR : Gary Sturm **RPR Arrival time:** 7:45 **Mileage:** NA
Other : **Departure Time:** 16:30 **Mileage:** NA

DEQ: RPM:
Mungas: Supt:
Other: Karl Konrad, Chester, Brian, Dave (Swanie), Bob, Jeff

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 330L Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	1
3. Terex Loader	0	9. John Deere Grader	0
4. Komatus Excavator	1	10. Fuel Truck	0
5. Off-road haul truck	1	11. CAT D5G Dozer	1
6. Water Truck	1	12. CAT Loader	0

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Excavating debris from the North Slope using Cat 322 excavator. 2. Komatsu excavator returned to site from soil borrow area in PM and began excavation of soil from east end of north slope. 3. Large quantity of concrete and asphalt debris exposed in this area. 4. Due to limit work being done on site, RPR not on site all day. Sturm on site three separate times for a total of 3 hours.

ISSUES/CONCERNS:

1. Discussed large quantities of debris being exposed on north slope with Pebbles Clark. Removal of debris will probably require additional imported borrow to meet design grades.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 16, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 28 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: RPR : Colin McCoy **RPR Arrival time:** 8:00 **Mileage:** 81755

Other : Gary Sturm **Departure Time:** 16:30 **Mileage:**

DEQ: RPM: Pebbles Clark

Mungas: Supt: Ray Bennet

Other: Karl Konrad, Chester, Bob, Jeff, Tony, Brian

FWP:

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12.	2

Contractor Arrival: 7:00

Contractor Departure: 16:30

CONSTRUCTION ACTIVITIES:

1. Shaping north slope of wildlife center with excavator, dozer and haul truck. 2. Staging area at State Park was removed, fence and gate were reconstructed.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 17, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 60 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 8:00 **Mileage:** 81763
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 81777

DEQ: **RPM:**

Mungas: **Supt:**
 Other: Karl Konrad, Chester, Bob, Jeff

FWP: Chris Smith, Craig Marr, Bardell Mangum, Sharon

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12.	2

Contractor Arrival: 6:30 **Contractor Departure:** 17:00

CONSTRUCTION ACTIVITIES:

1. Shaping north slope of wildlife center with excavator, dozer and haul truck. 2. Removal and disposal of debris and concrete from the north slope of the wildlife center.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 18, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 40 °F

Morning Barrier Check: Yes

Evening Barrier Check: Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 8:00 **Mileage:** 81777
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 81785

DEQ: **RPM:**

Mungas: **Supt:**

Other: Karl Konrad, Chester, Bob, Jeff

FWP: Chris Smith, Craig Marr, Bardell Mangum, Sharon

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12.	2

Contractor Arrival: 6:30

Contractor Departure: 17:00

CONSTRUCTION ACTIVITIES:

1. Shaping north slope of wildlife center with excavator, dozer and haul truck. 2. Removal and disposal of debris and concrete from the north slope of the wildlife center. 3. Staking the parking lot and trail on the west side of the wildlife center.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 19, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Thursday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 50 °F

Morning Barrier Check: Yes

Evening Barrier Check: Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Colin McCoy **RPR Arrival time:** 8:00 **Mileage:** 81785
 Other : Gary Sturm **Departure Time:** 16:30 **Mileage:** 80108
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:**
 Other: Karl Konrad, Chester, Bob, Jeff
FWP: Chris Smith, Craig Marr, Bardell Mangum, Sharon

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	2	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	2	11. CAT D5G Dozer	1
6. Water Truck	2	12.	2

Contractor Arrival: 6:30

Contractor Departure: 17:00

CONSTRUCTION ACTIVITIES:

1. Shaping north slope of wildlife center with excavator, dozer and haul truck. 2. Removal and disposal of debris and concrete from the north slope of the wildlife center. 3. Excavating the base for the parking lot and trail on the west side of the wildlife center.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 20, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Friday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear & Windy
TEMP: 30-40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Gary Sturm **RPR Arrival time:** 7:30 **Mileage:** NA
 Other : Kathie Roos **Departure Time:** 16:30 **Mileage:** NA
DEQ: **RPM:** Pebbles Clark and John Koerth
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry, Chester, Bob, Jeff, Tony, Brian, K&S Hydroseed crew.
FWP: None

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	1
5. Off-road haul truck	1	11.	
6. Water Truck	1	12.	

Contractor Arrival: 7:30 **Contractor Departure:** 17:30

WEATHER:

1. Shaping and placing top soil on north slope of wildlife center with excavator, dozer and haul truck. 2. Excavating and placing gravel on west parking lot of Wildlife Center. 3. Contractor used 2 hours equipment time (WD #6) go break up concrete from southwest corner of parking lot west of Stedman Building. 4. K&S Hydroseed mobilized to site in PM and completed hydroseeding of steep slope, small pond area and along fence in State Park.

ISSUES/CONCERNS:

1. Seeding subcontractor (K&S Hydroseed) will be conducting seeding operation at Head Lane borrow site over weekend. They will require access to Wildlife Center to mobilize equipment and material to and from borrow area. Kathie Roos with Tetra Tech will check gates Saturday afternoon. 2. While on site John Koerth, DEQ, expressed concern in regard to drainage from area north of Stedman Building. Instructed Contractor to place additional cover soil along temporary fence to eliminate low area. 3. After moving disabled pup trailer off of disturbed state park area the lift cylinder began leaking hydraulic fluid. Contractor use absorbant pads to contain leak. Contractor will need to complete clean up after trailer is removed from area.

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 23, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear
TEMP: 35-45 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Gary Sturm **RPR Arrival time:** 7:30 **Mileage:** NA
 Other : Kathie Roos **Departure Time:** 16:30 **Mileage:** NA
DEQ: **RPM:** None
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry, Chester, Bob, Jeff, Tony, Brian, K&S Hydroseed crew.
FWP: None

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	0
5. Off-road haul truck	1	11.	
6. Water Truck	1	12.	

Contractor Arrival: 7:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Shaping and placing top soil on north slope of wildlife center with excavator, dozer and haul truck. 2. Excavating and placing gravel on west parking lot of Wildlife Center. 3. Excavating gravel walkway west of Wildlife Center. 4. Disking and drill seeding of State Park completed by K & S Hydroseed, Inc. 5. Fuel truck demobilized and removed from site.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 24, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Tuesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 30 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Gary Sturm **RPR Arrival time:** 7:30 **Mileage:** NA
 Other : Colin McCoy **Departure Time:** 16:30 **Mileage:** NA
DEQ: **RPM:** None
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry, Chester, Bob, Jeff, Tony, Brian, K&S Hydroseed crew.
FWP: None

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	1	10. Fuel Truck	0
5. Off-road haul truck	1	11.	
6. Water Truck	1	12.	

Contractor Arrival: 7:30 **Contractor Departure:** 17:30

CONSTRUCTION ACTIVITIES:

1. Excavating and placing gravel on west parking lot of Wildlife Center. 2. Contractor used 2 hours equipment time (WD #6) to break up concrete from southwest corner of parking lot west of Stedman Building. 3. Placing and compacting gravel on walkway west of Wildlife Center. 4. Spreading and crimping straw on State Park by K & S Hydroseed. 5. Hydroseeding of north slope by K&S Hydroseed.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 25, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Wednesday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Overcast
TEMP: 30 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Gary Sturm **RPR Arrival time:** 7:30 **Mileage:** NA
 Other : Colin McCoy **Departure Time:** 14:30 **Mileage:** NA
DEQ: **RPM:** None
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry, Chester, Bob, Jeff, Tony, Brian
FWP: None

EQUIPMENT ON SITE:

	Description	#		Description	#
1.	CAT 322B Excavator	1	7.	Roller	1
2.	Cement Truck	0	8.	Haul Truck	2
3.	CAT D5G Dozer	1	9.	John Deere Grader	1
4.	Komatsu Excavator	0	10.	Fuel Truck	0
5.	Off-road haul truck	0	11.		
6.	Water Truck	0	12.		

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Hauling, placing and compacting gravel on west parking lot of Wildlife Center. 2. Hauling, grading, placing gravel and compacting the road and parking lot north of the wildlife center. 3. Placed large rocks to block parking lot west of Wildlife Center. 4. Removing equipment from the site.

ISSUES/CONCERNS:

SPRING MEADOW LAKE RECLAMATION PROJECT

DEQ CONTRACT NO. 410001

DEQ PROJECT MANAGER: Pebbles Clark **DATE:** November 30, 2009
TtEMI PROJECT MANAGER: Gary Sturm **DAY:** Monday

CONSTRUCTION CONTRACTOR: Mungas Co., Inc.

WEATHER: Clear

TEMP: 40 °F

Morning Barrier Check: Yes **Evening Barrier Check:** Yes

PERSONNEL ON SITE:

TtEMI: **RPR :** Gary Sturm **RPR Arrival time:** 7:30 **Mileage:** NA
 Other : Colin McCoy **Departure Time:** 16:30 **Mileage:** NA
DEQ: **RPM:** Pebbles Clark
Mungas: **Supt:** Ray Bennet
 Other: Karl Konrad, Barry, Chester, Bob, Jeff, Tony, Brian
FWP: None

EQUIPMENT ON SITE:

Description	#	Description	#
1. CAT 322B Excavator	1	7. Roller	1
2. Cement Truck	0	8. Haul Truck	2
3. CAT D5G Dozer	1	9. John Deere Grader	1
4. Komatsu Excavator	0	10. Fuel Truck	0
5. Off-road haul truck	0	11.	
6. Water Truck	0	12.	

Contractor Arrival: 7:30 **Contractor Departure:** 16:00

CONSTRUCTION ACTIVITIES:

1. Hauling, placing and compacting gravel on west parking lot of Wildlife Center. 2. Hauling, grading, placing gravel and compacting the road and parking lot north of the wildlife center. 3. Placed large rocks to block parking lot west of Wildlife Center. 4. Removing equipment from the site. 5. Hydroseeding the west slope near the Wildlife Center. 6. Placing barrier rocks at Wildlife Center western parking lot and trail. 7. Substantial Completion walkthrough performed

ISSUES/CONCERNS:

Both items on punch list of substantial completion were completed today.

APPENDIX J
TCLP SAMPLE RESULTS



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-001
Client Sample ID: Soil/Cement #1

Report Date: 09/08/09
Collection Date: 08/26/09 15:25
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:06 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:06 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	09/03/09 06:06 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:06 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	09/03/09 06:06 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:11 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:06 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:06 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-002
Client Sample ID: Soil / Cement #2

Report Date: 09/08/09
Collection Date: 08/26/09 15:22
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:15 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:15 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	09/03/09 06:15 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:15 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	09/03/09 06:15 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:17 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:15 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:15 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-003
Client Sample ID: Soil / Cement #3

Report Date: 09/08/09
Collection Date: 08/26/09 15:20
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:19 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:19 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	09/03/09 06:19 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:19 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	09/03/09 06:19 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:19 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:19 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:19 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-004
Client Sample ID: Soil / Cement #4

Report Date: 09/08/09
Collection Date: 08/26/09 15:27
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:24 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:24 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	09/03/09 06:24 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:24 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	09/03/09 06:24 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:22 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:24 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:24 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-005
Client Sample ID: Soil / Cement #5

Report Date: 09/08/09
Collection Date: 08/26/09 15:30
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:29 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:29 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	09/03/09 06:29 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:29 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	09/03/09 06:29 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:26 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:29 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:29 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09080324-006
Client Sample ID: Wildlife Center Screened soil_14pt

Report Date: 09/08/09
Collection Date: 08/20/09 15:00
Date Received: 08/26/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TOTAL							
Arsenic	2610	mg/kg		5		SW6010B	09/04/09 00:14 / eli-b
Barium	118	mg/kg		5		SW6010B	09/04/09 00:14 / eli-b
Cadmium	17	mg/kg		1		SW6010B	09/04/09 00:14 / eli-b
Chromium	9	mg/kg		5		SW6010B	09/04/09 00:14 / eli-b
Lead	1890	mg/kg		5		SW6010B	09/04/09 00:14 / eli-b
Mercury	1.3	mg/kg		1.0		SW7471A	09/04/09 10:50 / eli-b2
Selenium	ND	mg/kg		5		SW6020	09/04/09 07:06 / eli-b
Silver	14	mg/kg		5		SW6010B	09/04/09 00:14 / eli-b
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	09/03/09 06:52 / eli-b
Barium	ND	mg/L		10	100	SW6020	09/03/09 06:52 / eli-b
Cadmium	0.2	mg/L		0.1	1	SW6020	09/03/09 06:52 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	09/03/09 06:52 / eli-b
Lead	2.5	mg/L		0.5	5	SW6020	09/03/09 06:52 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/02/09 15:28 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	09/03/09 06:52 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	09/03/09 06:52 / eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_41190										
Sample ID: MB-41190	6	Method Blank					Run: SUB-B135464			09/03/09 23:58
Arsenic		ND	mg/kg	0.9						
Barium		0.08	mg/kg	0.07						
Cadmium		ND	mg/kg	0.05						
Chromium		ND	mg/kg	0.1						
Lead		ND	mg/kg	0.5						
Silver		ND	mg/kg	0.2						
Sample ID: LCS3-41190	6	Laboratory Control Sample					Run: SUB-B135464			09/04/09 00:02
Arsenic		178	mg/kg	5.0	104	70	130			
Barium		356	mg/kg	5.0	100	70	130			
Cadmium		55.3	mg/kg	1.0	101	70	130			
Chromium		114	mg/kg	5.0	101	70	130			
Lead		126	mg/kg	5.0	103	70	130			
Silver		68.1	mg/kg	5.0	105	70	130			
Sample ID: H09080324-006A	6	Sample Matrix Spike					Run: SUB-B135464			09/04/09 00:18
Arsenic		3020	mg/kg	5.0		75	125			A
Barium		228	mg/kg	5.0	176	75	125			S
Cadmium		50.6	mg/kg	1.0	107	75	125			
Chromium		66.8	mg/kg	5.0	94	75	125			
Lead		2540	mg/kg	5.0		75	125			A
Silver		46.1	mg/kg	5.0	104	75	125			
Sample ID: H09080324-006A	6	Sample Matrix Spike Duplicate					Run: SUB-B135464			09/04/09 00:22
Arsenic		3090	mg/kg	5.0		75	125	2.3	20	A
Barium		184	mg/kg	5.0	107	75	125	21	20	R
Cadmium		50.0	mg/kg	1.0	105	75	125	1.3	20	
Chromium		65.1	mg/kg	5.0	91	75	125	2.5	20	
Lead		4430	mg/kg	5.0		75	125	54	20	AR
Silver		47.8	mg/kg	5.0	110	75	125	3.7	20	
Sample ID: B09090296-001ADIL	6	Serial Dilution					Run: SUB-B135464			09/04/09 00:30
Arsenic		ND	mg/kg	8.4		0	0		10	
Barium		ND	mg/kg	5.0		0	0		10	
Cadmium		ND	mg/kg	1.0		0	0		10	
Chromium		ND	mg/kg	5.0		0	0		10	
Lead		ND	mg/kg	5.0		0	0		10	
Silver		ND	mg/kg	5.0		0	0		10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B								Analytical Run: SUB-B135464		
Sample ID: QCS		6 Initial Calibration Verification Standard						09/03/09 11:21		
Arsenic		0.798	mg/L	0.10	100	90	110			
Barium		0.806	mg/L	0.10	101	90	110			
Cadmium		0.393	mg/L	0.010	98	90	110			
Chromium		0.788	mg/L	0.050	99	90	110			
Lead		0.811	mg/L	0.050	101	90	110			
Silver		0.400	mg/L	0.010	100	90	110			
Sample ID: ICSA		6 Interference Check Sample A						09/04/09 05:08		
Arsenic		0.0245	mg/L	0.10		-0.1	0.1			
Barium		0.000560	mg/L	0.10		-0.005	0.0005			
Cadmium		0.00226	mg/L	0.010		-0.001	0.001			
Chromium		0.00454	mg/L	0.050		-0.01	0.01			
Lead		-0.115	mg/L	0.050		-0.01	0.01			
Silver		0.000640	mg/L	0.010		-0.005	0.005			
Sample ID: ICSAB		6 Interference Check Sample AB						09/04/09 05:12		
Arsenic		1.08	mg/L	0.10	108	80	120			
Barium		0.508	mg/L	0.10	102	80	120			
Cadmium		0.942	mg/L	0.010	94	80	120			
Chromium		0.481	mg/L	0.050	96	80	120			
Lead		0.873	mg/L	0.050	87	80	120			
Silver		1.05	mg/L	0.010	97	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW6020											
Batch: B_41157											
Sample ID: MB-41157	Z	Method Blank			Run: SUB-B135403			09/03/09 05:24			
Arsenic		0.0003	mg/L	2E-05							
Barium		0.3	mg/L	2E-05							
Cadmium		3E-05	mg/L	5E-06							
Chromium		0.001	mg/L	1E-05							
Lead		0.0003	mg/L	2E-05							
Selenium		0.0002	mg/L	2E-05							
Silver		0.0001	mg/L	2E-05							
Sample ID: MBS-41157	Z	Laboratory Fortified Blank			Run: SUB-B135403			09/03/09 05:28			
Arsenic		0.556	mg/L	0.50	111	75	125				
Barium		6.71	mg/L	1.0	117	75	125				
Cadmium		0.294	mg/L	0.10	118	75	125				
Chromium		0.559	mg/L	0.50	112	75	125				
Lead		0.578	mg/L	0.50	115	75	125				
Selenium		0.541	mg/L	0.10	108	75	125				
Silver		0.0567	mg/L	0.50	113	75	125				
Sample ID: MBSD-41157	Z	Laboratory Fortified Blank Duplicate			Run: SUB-B135403			09/03/09 05:51			
Arsenic		0.550	mg/L	0.50	110	75	125	1.1	20		
Barium		6.47	mg/L	1.0	113	75	125	3.6	20		
Cadmium		0.279	mg/L	0.10	112	75	125	5.2	20		
Chromium		0.558	mg/L	0.50	111	75	125	0.2	20		
Lead		0.559	mg/L	0.50	112	75	125	3.3	20		
Selenium		0.525	mg/L	0.10	105	75	125	3.1	20		
Silver		0.0537	mg/L	0.50	107	75	125		20		
Sample ID: H09080324-001A	Z	Serial Dilution			Run: SUB-B135403			09/03/09 06:10			
Arsenic		0.214	mg/L	0.50		0	0		10		
Barium		0.503	mg/L	1.0		0	0		10		
Cadmium		ND	mg/L	0.10		0	0		10		
Chromium		0.0962	mg/L	0.50		0	0		10		
Lead		0.000782	mg/L	0.50		0	0		10	N	
Selenium		0.00200	mg/L	0.10		0	0		10	N	
Silver		ND	mg/L	0.50		0	0		10		
Sample ID: H09080324-006A	Z	Sample Matrix Spike			Run: SUB-B135403			09/03/09 06:56			
Arsenic		0.990	mg/L	0.50	109	75	125				
Barium		7.32	mg/L	1.0	118	75	125				
Cadmium		0.508	mg/L	0.10	113	75	125				
Chromium		0.576	mg/L	0.50	115	75	125				
Lead		2.93	mg/L	0.50		75	125			A	
Selenium		0.556	mg/L	0.10	111	75	125				
Silver		0.0586	mg/L	0.50	114	75	125				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Batch: B_41157		
Sample ID: B09082399-009AMS5	Z	Sample Matrix Spike				Run: SUB-B135403		09/03/09 07:24		
Arsenic		0.548	mg/L	0.50	108	75	125			
Barium		8.76	mg/L	1.0	119	75	125			
Cadmium		0.309	mg/L	0.10	119	75	125			
Chromium		0.564	mg/L	0.50	112	75	125			
Lead		0.630	mg/L	0.50	121	75	125			
Selenium		0.541	mg/L	0.10	108	75	125			
Silver		0.0558	mg/L	0.50	112	75	125			
Method: SW6020								Batch: B_41190		
Sample ID: MB-41190		Method Blank				Run: SUB-B135459		09/04/09 06:48		
Selenium		0.03	mg/kg	0.0001						
Sample ID: LCS3-41190		Laboratory Control Sample				Run: SUB-B135459		09/04/09 06:52		
Selenium		116	mg/kg	0.10	125	70	130			
Sample ID: H09080324-006A		Sample Matrix Spike				Run: SUB-B135459		09/04/09 07:11		
Selenium		60.3	mg/kg	5.0	97	75	125			
Sample ID: H09080324-006A		Sample Matrix Spike Duplicate				Run: SUB-B135459		09/04/09 07:15		
Selenium		56.2	mg/kg	5.0	91	75	125	7.1	20	
Sample ID: B09090218-001ADIL		Serial Dilution				Run: SUB-B135459		09/04/09 07:48		
Selenium		0.245	mg/kg	0.10		0	0	21	20	R

Qualifiers:

RL - Analyte reporting limit.
 R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: SUB-B135403		
Sample ID: QCS-090602A,090609		Z Initial Calibration Verification Standard						09/03/09 01:14		
Selenium		0.049	mg/L	0.0010	98	90	110			
Arsenic		0.049	mg/L	0.0010	98	90	110			
Barium		0.050	mg/L	0.0010	100	90	110			
Cadmium		0.026	mg/L	0.0010	104	90	110			
Chromium		0.049	mg/L	0.0010	98	90	110			
Lead		0.050	mg/L	0.0010	101	90	110			
Silver		0.026	mg/L	0.0010	102	90	110			
Sample ID: ICSA-ME090423A		Z Interference Check Sample A						09/03/09 01:18		
Selenium		6.7E-05	mg/L	0.0010						
Arsenic		6.2E-05	mg/L	0.0010						
Barium		7.8E-05	mg/L	0.0010						
Cadmium		0.00040	mg/L	0.0010						
Chromium		0.00071	mg/L	0.0010						
Lead		0.00051	mg/L	0.0010						
Silver		0.00013	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09		Z Interference Check Sample AB						09/03/09 01:23		
Selenium		0.010	mg/L	0.0010	101	70	130			
Arsenic		0.0100	mg/L	0.0010	100	70	130			
Barium		8.2E-05	mg/L	0.0010		0	0			
Cadmium		0.010	mg/L	0.0010	101	70	130			
Chromium		0.020	mg/L	0.0010	102	70	130			
Lead		0.00051	mg/L	0.0010		0	0			
Silver		0.020	mg/L	0.0010	100	70	130			
Method: SW6020								Analytical Run: SUB-B135459		
Sample ID: QCS-090602A,090609		Initial Calibration Verification Standard						09/03/09 11:40		
Selenium		0.050	mg/L	0.0010	100	90	110			
Sample ID: ICSA-ME090423A		Interference Check Sample A						09/03/09 11:44		
Selenium		0.00010	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09		Interference Check Sample AB						09/03/09 11:49		
Selenium		0.0098	mg/L	0.0010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 09/08/09
 Work Order: H09080324

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A Batch: B_41176										
Sample ID: MB-41176		Method Blank					Run: SUB-B135378			09/02/09 14:52
Mercury		ND	mg/L	0.0003						
Sample ID: MBMS-41176		Sample Matrix Spike					Run: SUB-B135378			09/02/09 14:54
Mercury		0.0094	mg/L	0.0010	94	85	115			
Sample ID: MBMSD-41176		Sample Matrix Spike Duplicate					Run: SUB-B135378			09/02/09 14:56
Mercury		0.0095	mg/L	0.0010	95	85	115	0.5	20	
Sample ID: H09080324-004A		Serial Dilution					Run: SUB-B135378			09/02/09 15:24
Mercury		ND	mg/L	0.020		0	0		10	N
Sample ID: H09080324-006A		Sample Matrix Spike					Run: SUB-B135378			09/02/09 15:30
Mercury		0.010	mg/L	0.020	100	75	125			
Method: SW7470A Analytical Run: SUB-B135378										
Sample ID: QCS		Initial Calibration Verification Standard								09/02/09 13:41
Mercury		0.0020	mg/L	0.0010	99	90	110			
Method: SW7471A Batch: B_41130										
Sample ID: MB-41130		Method Blank					Run: SUB-B135498			09/04/09 10:24
Mercury		ND	mg/kg	0.05						
Sample ID: LCS3-41130		Laboratory Control Sample					Run: SUB-B135498			09/04/09 10:26
Mercury		5.3	mg/kg	1.0	106	70	130			
Sample ID: B09082713-001ADIL		Serial Dilution					Run: SUB-B135498			09/04/09 12:30
Mercury		ND	mg/kg-dry	1.9		0	0		20	N
Sample ID: B09082713-001AMS3		Sample Matrix Spike					Run: SUB-B135498			09/04/09 12:33
Mercury		370	mg/kg-dry	17	107	70	130			
Sample ID: B09082713-001AMSD3		Sample Matrix Spike Duplicate					Run: SUB-B135498			09/04/09 12:35
Mercury		420	mg/kg-dry	17	120	70	130	11	30	
Method: SW7471A Analytical Run: SUB-B135498										
Sample ID: QCS		Initial Calibration Verification Standard								09/04/09 10:16
Mercury		0.0020	mg/kg	1.0	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



ANALYTICAL SUMMARY REPORT

October 05, 2009

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09090337

Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 9/24/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09090337-001	WC-SS-001	09/24/09 13:50	09/24/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005

eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002

eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006

eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945

eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012

eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
 Project: Spring Meadow Lake
 Lab ID: H09090337-001
 Client Sample ID: WC-SS-001

Report Date: 10/02/09
 Collection Date: 09/24/09 13:50
 Date Received: 09/24/09
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.2	mg/L		0.5	5	SW6020	10/01/09 15:31 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/01/09 22:58 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	10/01/09 15:31 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	10/01/09 15:31 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	10/01/09 15:31 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/30/09 14:18 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/01/09 15:31 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/01/09 15:31 / eli-b

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: B_41776
Sample ID: MB-41776		Method Blank								10/01/09 21:21
Barium		0.001	mg/L	0.0002						
Sample ID: LCS5-41776		Laboratory Control Sample								10/01/09 21:25
Barium		5.46	mg/L	1.0	99	85	115			
Sample ID: LCS5D-41776		Laboratory Control Sample Duplicate								10/01/09 21:29
Barium		5.64	mg/L	1.0	103	85	115	3.2	20	
Sample ID: H09090349-001A		Sample Matrix Spike								10/01/09 23:11
Barium		6.15	mg/L	1.0	103	75	125			
Sample ID: B09092721-022ADIL		Serial Dilution								10/01/09 23:23
Barium		1.04	mg/L	1.0		0	0	5.7	10	
Sample ID: H09090337-001A		Sample Matrix Spike								10/01/09 23:02
Barium		6.08	mg/L	1.0	101	75	125			
Method: SW6010B										Analytical Run: SUB-B136904
Sample ID: QCS		Initial Calibration Verification Standard								10/01/09 10:22
Barium		0.763	mg/L	0.10	95	90	110			
Sample ID: ICSA		Interference Check Sample A								10/01/09 10:38
Barium		0.000260	mg/L	0.10		-0.005	0.0005			
Sample ID: ICSAB		Interference Check Sample AB								10/01/09 10:42
Barium		0.494	mg/L	0.10	99	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9020 Batch: B_41776										
Sample ID: MB-41776	5	Method Blank				Run: SUB-B136903				10/01/09 14:21
Arsenic		0.0002	mg/L	2E-05						
Cadmium		8E-05	mg/L	5E-06						
Chromium		0.001	mg/L	1E-05						
Lead		5E-05	mg/L	2E-05						
Selenium		0.0001	mg/L	2E-05						
Silver		0.0003	mg/L	2E-05						
Sample ID: LCS5-41776 10/01/09 14:31										
	5	Laboratory Control Sample				Run: SUB-B136903				
Arsenic		0.495	mg/L	0.50	99	85	115			
Cadmium		0.271	mg/L	0.10	108	85	115			
Chromium		0.504	mg/L	0.50	101	85	115			
Lead		0.545	mg/L	0.50	109	85	115			
Selenium		0.476	mg/L	0.10	95	85	115			
Silver		0.0502	mg/L	0.50	100	85	115			
Sample ID: LCS5D-41776 10/01/09 14:35										
	5	Laboratory Control Sample				Run: SUB-B136903				
Arsenic		0.515	mg/L	0.50	103	85	115			
Cadmium		0.281	mg/L	0.10	112	85	115			
Chromium		0.524	mg/L	0.50	105	85	115			
Lead		0.565	mg/L	0.50	113	85	115			
Selenium		0.487	mg/L	0.10	97	85	115			
Silver		0.0539	mg/L	0.50	108	85	115			
Sample ID: H09090349-001A 10/01/09 15:49										
	5	Sample Matrix Spike				Run: SUB-B136903				
Arsenic		2.11	mg/L	0.50	111	75	125			
Cadmium		0.278	mg/L	0.10	111	75	125			
Chromium		0.630	mg/L	0.50	106	75	125			
Lead		0.561	mg/L	0.50	112	75	125			
Selenium		0.488	mg/L	0.10	98	75	125			
Silver		0.0518	mg/L	0.50	102	75	125			
Sample ID: B09092545-001ADIL 10/01/09 16:21										
	5	Serial Dilution				Run: SUB-B136903				
Arsenic		0.00183	mg/L	0.50		0	0		10	N
Cadmium		0.000260	mg/L	0.10		0	0		10	N
Chromium		0.0137	mg/L	0.50		0	0		10	
Lead		ND	mg/L	0.50		0	0		10	
Selenium		0.00175	mg/L	0.10		0	0		10	N
Silver		0.000650	mg/L	0.50		0	0		10	N
Sample ID: H09090337-001A 10/01/09 15:35										
	5	Sample Matrix Spike				Run: SUB-B136903				
Arsenic		1.68	mg/L	0.50	87	75	125			
Cadmium		0.283	mg/L	0.10	113	75	125			
Chromium		0.638	mg/L	0.50	103	75	125			
Lead		0.569	mg/L	0.50	114	75	125			
Selenium		0.484	mg/L	0.10	97	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Batch: B_41776										
Sample ID: H09090337-001A	6	Sample Matrix Spike				Run: SUB-B136903				10/01/09 15:35
Silver		0.0533	mg/L	0.50	105	75	125			
Method: SW6020 Analytical Run: SUB-B136903										
Sample ID: QCS-090602A,090609	6	Initial Calibration Verification Standard								10/01/09 12:38
Selenium		0.050	mg/L	0.0010	100	90	110			
Arsenic		0.050	mg/L	0.0010	100	90	110			
Cadmium		0.027	mg/L	0.0010	109	90	110			
Chromium		0.052	mg/L	0.0010	103	90	110			
Lead		0.052	mg/L	0.0010	103	90	110			
Silver		0.026	mg/L	0.0010	102	90	110			
Sample ID: ICSA-ME090423A	6	Interference Check Sample A								10/01/09 12:43
Selenium		9.4E-05	mg/L	0.0010						
Arsenic		6.3E-05	mg/L	0.0010						
Cadmium		0.00059	mg/L	0.0010						
Chromium		0.00075	mg/L	0.0010						
Lead		0.00046	mg/L	0.0010						
Silver		0.00033	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09	6	Interference Check Sample AB								10/01/09 12:47
Selenium		0.0095	mg/L	0.0010	95	70	130			
Arsenic		0.0099	mg/L	0.0010	99	70	130			
Cadmium		0.010	mg/L	0.0010	103	70	130			
Chromium		0.021	mg/L	0.0010	105	70	130			
Lead		0.00044	mg/L	0.0010		0	0			
Silver		0.020	mg/L	0.0010	98	70	130			
Method: SW7470A Batch: B_41756										
Sample ID: MB-41758		Method Blank				Run: SUB-B136834				09/30/09 13:48
Mercury		ND	mg/L	0.0005						
Sample ID: LCS-41758		Laboratory Control Sample				Run: SUB-B136834				09/30/09 13:50
Mercury		0.0092	mg/L	0.020	92	85	115			
Sample ID: LCSD-41758		Laboratory Control Sample				Run: SUB-B136834				09/30/09 13:52
Mercury		0.0092	mg/L	0.020	92	85	115			
Sample ID: H09090349-001A		Sample Matrix Spike				Run: SUB-B136834				09/30/09 14:24
Mercury		0.0097	mg/L	0.020	97	75	125			
Sample ID: B09092726-001ADIL		Serial Dilution				Run: SUB-B136834				09/30/09 14:30
Mercury		ND	mg/L	0.020		0	0		10	N
Sample ID: H09090337-001A		Sample Matrix Spike				Run: SUB-B136834				09/30/09 14:20
Mercury		0.0099	mg/L	0.020	99	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A										Analytical Run: SUB-B136834
Sample ID: QCS		Initial Calibration Verification Standard								09/30/09 11:10
Mercury		0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



H09090337

MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 9/24/2009 4:20 PM

Reviewed by: BL2000\ablackburn

Received by: rt

Reviewed Date: 10/1/2009 1:56:49 PM

Carrier name: Hand Del

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 25.7°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

 Contact and Corrective Action Comments:

No sample time on COC, time taken from sample container. Wj



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 200901 Helena, MT 59601		Contact Name: Pebbles Clark 841-5028		Email: P.Clark@DEQ.mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone: same as above		Purchase Order:		Quote/Bottle Order:	
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input checked="" type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TA)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction page R U S H Comments:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following:		Number of Containers Sample Type: AWS/SVB Air Water Solids Vegetation Blossay Other		Shipped by: HALE Cooler ID(s):		Receipt Temp: AS. 10 C On Ice: Yes No Custody Seal: Y N Bottles/ Coolers: B C Intact: Y N Signature Match: Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date 9/24/09		Collection Time		MATRIX S	
1 WC-SS-001						LABORATORY USE ONLY	
2							
3							
4							
5							
6							
7							
8							
9							
10							
Custody Record MUST be Signed		Relinquished by (print): [Signature]		Relinquished by (print): [Signature]		Received by (print): [Signature]	
Sample Disposal:		Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Received by Laboratory: [Signature]	
						Date/Time: 9/24/09 16:20	
						Date/Time: 9/24/09 16:20	
						Date/Time: 9/24/09 16:20	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 02, 2009

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09090349

Quote ID: H377

Project Name: Spring Meadow

Energy Laboratories Inc received the following 1 sample for MT DEQ on 9/25/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09090349-001	WC-SS-002	09/25/09 15:38	09/25/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

- eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
- eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
- eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
- eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
- eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
- eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
 Project: Spring Meadow
 Lab ID: H09090349-001
 Client Sample ID: WC-SS-002

Report Date: 10/02/09
 Collection Date: 09/25/09 15:38
 Date Received: 09/25/09
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.6	mg/L		0.5	5	SW6020	10/01/09 15:44 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/01/09 23:07 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	10/01/09 15:44 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	10/01/09 15:44 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	10/01/09 15:44 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/30/09 14:22 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/01/09 15:44 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/01/09 15:44 / eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow

Report Date: 10/02/09
 Work Order: H09090349

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: B_41776
Sample ID: MB-41776										
		Method Blank								Run: SUB-B136904 10/01/09 21:21
Barium		0.001	mg/L	0.0002						
Sample ID: LCS5-41776										
		Laboratory Control Sample								Run: SUB-B136904 10/01/09 21:25
Barium		5.46	mg/L	1.0	99	85	115			
Sample ID: LCS5D-41776										
		Laboratory Control Sample Duplicate								Run: SUB-B136904 10/01/09 21:29
Barium		5.64	mg/L	1.0	103	85	115	3.2	20	
Sample ID: H09090349-001A										
		Sample Matrix Spike								Run: SUB-B136904 10/01/09 23:11
Barium		6.15	mg/L	1.0	103	75	125			
Sample ID: B09092721-022ADIL										
		Serial Dilution								Run: SUB-B136904 10/01/09 23:23
Barium		1.04	mg/L	1.0		0	0	5.7	10	
Method: SW6010B										Analytical Run: SUB-B136904
Sample ID: QCS										
		Initial Calibration Verification Standard								10/01/09 10:22
Barium		0.763	mg/L	0.10	95	90	110			
Sample ID: ICSA										
		Interference Check Sample A								10/01/09 10:38
Barium		0.000260	mg/L	0.10		-0.005	0.0005			
Sample ID: ICSAB										
		Interference Check Sample AB								10/01/09 10:42
Barium		0.494	mg/L	0.10	99	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow

Report Date: 10/02/09
Work Order: H09090349

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										
Batch: B_41776										
Sample ID: MB-41776	5	Method Blank								
Run: SUB-B136903										
10/01/09 14:21										
Arsenic		0.0002	mg/L	2E-05						
Cadmium		8E-05	mg/L	5E-06						
Chromium		0.001	mg/L	1E-05						
Lead		5E-05	mg/L	2E-05						
Selenium		0.0001	mg/L	2E-05						
Silver		0.0003	mg/L	2E-05						
Sample ID: LCS5-41776	6	Laboratory Control Sample								
Run: SUB-B136903										
10/01/09 14:31										
Arsenic		0.495	mg/L	0.50	99	85	115			
Cadmium		0.271	mg/L	0.10	108	85	115			
Chromium		0.504	mg/L	0.50	101	85	115			
Lead		0.545	mg/L	0.50	109	85	115			
Selenium		0.476	mg/L	0.10	95	85	115			
Silver		0.0502	mg/L	0.50	100	85	115			
Sample ID: LCS5D-41776	6	Laboratory Control Sample								
Run: SUB-B136903										
10/01/09 14:35										
Arsenic		0.515	mg/L	0.50	103	85	115			
Cadmium		0.281	mg/L	0.10	112	85	115			
Chromium		0.524	mg/L	0.50	105	85	115			
Lead		0.565	mg/L	0.50	113	85	115			
Selenium		0.487	mg/L	0.10	97	85	115			
Silver		0.0539	mg/L	0.50	108	85	115			
Sample ID: H09090349-001A	5	Sample Matrix Spike								
Run: SUB-B136903										
10/01/09 15:49										
Arsenic		2.11	mg/L	0.50	111	75	125			
Cadmium		0.278	mg/L	0.10	111	75	125			
Chromium		0.630	mg/L	0.50	106	75	125			
Lead		0.561	mg/L	0.50	112	75	125			
Selenium		0.488	mg/L	0.10	98	75	125			
Silver		0.0518	mg/L	0.50	102	75	125			
Sample ID: B09092545-001ADIL	5	Serial Dilution								
Run: SUB-B136903										
10/01/09 16:21										
Arsenic		0.00183	mg/L	0.50		0	0	10		N
Cadmium		0.000260	mg/L	0.10		0	0	10		N
Chromium		0.0137	mg/L	0.50		0	0	10		
Lead		ND	mg/L	0.50		0	0	10		
Selenium		0.00175	mg/L	0.10		0	0	10		N
Silver		0.000650	mg/L	0.50		0	0	10		N

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow

Report Date: 10/02/09
 Work Order: H09090349

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Analytical Run: SUB-B136903										
Sample ID: QCS-090602A,090609 10/01/09 12:38										
⊗ Initial Calibration Verification Standard										
Selenium		0.050	mg/L	0.0010	100	90	110			
Arsenic		0.050	mg/L	0.0010	100	90	110			
Cadmium		0.027	mg/L	0.0010	109	90	110			
Chromium		0.052	mg/L	0.0010	103	90	110			
Lead		0.052	mg/L	0.0010	103	90	110			
Silver		0.026	mg/L	0.0010	102	90	110			
Sample ID: ICSA-ME090423A 10/01/09 12:43										
⊗ Interference Check Sample A										
Selenium		9.4E-05	mg/L	0.0010						
Arsenic		6.3E-05	mg/L	0.0010						
Cadmium		0.00059	mg/L	0.0010						
Chromium		0.00075	mg/L	0.0010						
Lead		0.00046	mg/L	0.0010						
Silver		0.00033	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09 10/01/09 12:47										
⊗ Interference Check Sample AB										
Selenium		0.0095	mg/L	0.0010	95	70	130			
Arsenic		0.0099	mg/L	0.0010	99	70	130			
Cadmium		0.010	mg/L	0.0010	103	70	130			
Chromium		0.021	mg/L	0.0010	105	70	130			
Lead		0.00044	mg/L	0.0010		0	0			
Silver		0.020	mg/L	0.0010	98	70	130			
Method: SW7470A Batch: B_41758										
Sample ID: MB-41758 09/30/09 13:48										
Method Blank Run: SUB-B136834										
Mercury		ND	mg/L	0.0005						
Sample ID: LCS-41758 09/30/09 13:50										
Laboratory Control Sample Run: SUB-B136834										
Mercury		0.0092	mg/L	0.020	92	85	115			
Sample ID: LCS0-41758 09/30/09 13:52										
Laboratory Control Sample Run: SUB-B136834										
Mercury		0.0092	mg/L	0.020	92	85	115			
Sample ID: H09090349-001A 09/30/09 14:24										
Sample Matrix Spike Run: SUB-B136834										
Mercury		0.0097	mg/L	0.020	97	75	125			
Sample ID: B09092726-001ADIL 09/30/09 14:30										
Serial Dilution Run: SUB-B136834										
Mercury		ND	mg/L	0.020		0	0	10	N	
Method: SW7470A Analytical Run: SUB-B136834										
Sample ID: QCS 09/30/09 11:10										
Initial Calibration Verification Standard										
Mercury		0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc

Workorder Receipt Checklist



H09090349

MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 9/25/2009 3:54 PM

Reviewed by: BL2000\ablackburn

Received by: rt

Reviewed Date: 10/1/2009 2:05:13 PM

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 30.6°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc.: Spring Meadow Lake		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark P.O. Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark		Phone/Fax: 841-5088	
Invoice Address: Same as above		Contact Name: Pebbles Clark		Email: Pclark2@mt.gov	
Invoice Contact & Phone: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
Number of Containers Sample Type: AWS/B Air/Water/Solids/Other Vegetation/Biossay/Other		ANALYSIS REQUESTED SEE ATTACHED		R U S H	
MATRIX S		Normal Turnaround (TAT) X		Shipped by: MAILED	
1 WC-SS-00Z		9/25/09 3:38		Receipt Temp: 30.2 °C	
2		3		On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
3		4		Custody Seal: Y <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>	
4		5		Intact: Y <input type="checkbox"/> N <input type="checkbox"/>	
5		6		Signature Match: Y <input type="checkbox"/> N <input type="checkbox"/>	
6		7		Signature:	
7		8		Date/Time:	
8		9		Received by (print):	
9		10		Received by (print):	
Custody Record MUST be Signed		Relinquished by (print): Colin McCaff		Signature:	
Relinquished by (print):		Date/Time: 9/25/09 15:54		Date/Time:	
Signature:		Signature:		Date/Time:	
Sample Disposal:		Return to Client: X		Date/Time:	
Lab Disposal:		Relinquished by Laboratory:		Signature:	
Received by Laboratory:		Date/Time: 9.25.09 15:54		Signature:	

LABORATORY USE ONLY

99909 D 349-004

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark P.O. Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark		State: MT	
Invoice Address: same as above		Phone/Fax: 841-5028		Sampler: (Please Print) PCLARK2@mt.gov	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		Invoice Contact & Phone: same as above		Quote/Bottle Order:	
<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Air Water Soils/Solids Vegetation Bioassay Other		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time	
1 WC-SS-00Z		7/25/09		3:38	
2					
3					
4					
5					
6					
7					
8					
9					
10					
Requisitioned by (print): Colin McCoy		Signature:		Date/Time: 9/25/09 15:54	
Requisitioned by (print):		Signature:		Date/Time:	
Sample Disposal:		Return to Client:		Lab Disposal:	
Custody Record MUST be Signed		Received by Laboratory: [Signature]		Date/Time:	
Received by Laboratory:		Signature:		Date/Time:	
Received by Laboratory:		Signature:		Date/Time:	

LABORATORY USE ONLY

R U S H

ANALYSIS REQUESTED

SEE ATTACHED

Normal Turnaround (TAT)

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by:

Cooler ID#:

Receipt Temp:

On Ice:

Yes No

Custody Seal

Bottles/ Coolers

Intact

Signature Match

Y N

B C

Y N

Y N

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 02, 2009

MT DEQ

PO Box 200901

Helena, MT 59620-0901

Workorder No.: H09090362

Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 9/28/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09090362-001	WC-SS-003	09/28/09 16:00	09/28/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005

eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002

eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006

eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945

eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012

eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: 



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09090362-001
Client Sample ID: WC-SS-003

Report Date: 10/02/09
Collection Date: 09/28/09 16:00
Date Received: 09/28/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.5	mg/L		0.5	5	SW6020	10/01/09 17:49 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/01/09 23:51 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6020	10/01/09 17:49 / eli-b
Chromium	ND	mg/L		0.5	5	SW6020	10/01/09 17:49 / eli-b
Lead	ND	mg/L		0.5	5	SW6020	10/01/09 17:49 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	09/30/09 14:26 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/01/09 17:49 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/01/09 17:49 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/02/09
 Work Order: H09090362

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_41776										
Sample ID: MB-41776		Method Blank					Run: SUB-B136904			10/01/09 21:21
Barium		0.001	mg/L	0.0002						
Sample ID: LCS5-41776		Laboratory Control Sample					Run: SUB-B136904			10/01/09 21:25
Barium		5.46	mg/L	1.0	99	85	115			
Sample ID: LCS5D-41776		Laboratory Control Sample Duplicate					Run: SUB-B136904			10/01/09 21:29
Barium		5.64	mg/L	1.0	103	85	115	3.2	20	
Sample ID: B09092721-022ADIL		Serial Dilution					Run: SUB-B136904			10/01/09 23:23
Barium		1.04	mg/L	1.0		0	0	5.7	10	
Sample ID: H09090362-001A		Sample Matrix Spike					Run: SUB-B136904			10/01/09 23:55
Barium		6.08	mg/L	1.0	100	75	125			
Method: SW6010B										
Analytical Run: SUB-B136904										
Sample ID: QCS		Initial Calibration Verification Standard								10/01/09 10:22
Barium		0.763	mg/L	0.10	95	90	110			
Sample ID: ICSA		Interference Check Sample A								10/01/09 10:38
Barium		0.000260	mg/L	0.10		-0.005	0.0005			
Sample ID: ICSAB		Interference Check Sample AB								10/01/09 10:42
Barium		0.494	mg/L	0.10	99	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090362

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										
Batch: B_41776										
Sample ID: MB-41776	6	Method Blank				Run: SUB-B136903				10/01/09 14:21
Arsenic		0.0002	mg/L	2E-05						
Cadmium		6E-05	mg/L	5E-06						
Chromium		0.001	mg/L	1E-05						
Lead		5E-05	mg/L	2E-05						
Selenium		0.0001	mg/L	2E-05						
Silver		0.0003	mg/L	2E-05						
Sample ID: LCS5-41776	6	Laboratory Control Sample				Run: SUB-B136903				10/01/09 14:31
Arsenic		0.495	mg/L	0.50	99	85	115			
Cadmium		0.271	mg/L	0.10	108	85	115			
Chromium		0.504	mg/L	0.50	101	85	115			
Lead		0.545	mg/L	0.50	109	85	115			
Selenium		0.476	mg/L	0.10	95	85	115			
Silver		0.0502	mg/L	0.50	100	85	115			
Sample ID: LCS5D-41776	6	Laboratory Control Sample				Run: SUB-B136903				10/01/09 14:35
Arsenic		0.515	mg/L	0.50	103	85	115			
Cadmium		0.281	mg/L	0.10	112	85	115			
Chromium		0.524	mg/L	0.50	105	85	115			
Lead		0.565	mg/L	0.50	113	85	115			
Selenium		0.487	mg/L	0.10	97	85	115			
Silver		0.0539	mg/L	0.50	108	85	115			
Sample ID: B09092545-001ADIL	5	Serial Dilution				Run: SUB-B136903				10/01/09 16:21
Arsenic		0.00183	mg/L	0.50		0	0	10		N
Cadmium		0.000260	mg/L	0.10		0	0	10		N
Chromium		0.0137	mg/L	0.50		0	0	10		
Lead		ND	mg/L	0.50		0	0	10		
Selenium		0.00175	mg/L	0.10		0	0	10		N
Silver		0.000650	mg/L	0.50		0	0	10		N
Sample ID: H09090362-001A	5	Sample Matrix Spike				Run: SUB-B136903				10/01/09 17:54
Arsenic		1.88	mg/L	0.50	77	75	125			
Cadmium		0.262	mg/L	0.10	104	75	125			
Chromium		0.575	mg/L	0.50	98	75	125			
Lead		0.528	mg/L	0.50	105	75	125			
Selenium		0.481	mg/L	0.10	96	75	125			
Silver		0.0486	mg/L	0.50	96	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/02/09
Work Order: H09090362

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW6020										Analytical Run: SUB-B136903	
Sample ID: QCS-090602A,090609	5	Initial Calibration Verification Standard							10/01/09 12:38		
Selenium		0.050	mg/L	0.0010	100	90	110				
Arsenic		0.050	mg/L	0.0010	100	90	110				
Cadmium		0.027	mg/L	0.0010	109	90	110				
Chromium		0.052	mg/L	0.0010	103	90	110				
Lead		0.052	mg/L	0.0010	103	90	110				
Silver		0.028	mg/L	0.0010	102	90	110				
Sample ID: ICSA-ME090423A	5	Interference Check Sample A							10/01/09 12:43		
Selenium		9.4E-05	mg/L	0.0010							
Arsenic		6.3E-05	mg/L	0.0010							
Cadmium		0.00059	mg/L	0.0010							
Chromium		0.00075	mg/L	0.0010							
Lead		0.00046	mg/L	0.0010							
Silver		0.00033	mg/L	0.0010							
Sample ID: ICSAB-ME090423A,09	5	Interference Check Sample AB							10/01/09 12:47		
Selenium		0.0095	mg/L	0.0010	95	70	130				
Arsenic		0.0099	mg/L	0.0010	99	70	130				
Cadmium		0.010	mg/L	0.0010	103	70	130				
Chromium		0.021	mg/L	0.0010	105	70	130				
Lead		0.00044	mg/L	0.0010		0	0				
Silver		0.020	mg/L	0.0010	98	70	130				
Method: SW7470A										Batch: B_41758	
Sample ID: MB-41758		Method Blank				Run: SUB-B136834		09/30/09 13:48			
Mercury		ND	mg/L	0.0005							
Sample ID: LCS-41758		Laboratory Control Sample				Run: SUB-B136834		09/30/09 13:50			
Mercury		0.0092	mg/L	0.020	92	85	115				
Sample ID: LCSD-41758		Laboratory Control Sample				Run: SUB-B136834		09/30/09 13:52			
Mercury		0.0092	mg/L	0.020	92	85	115				
Sample ID: H09090362-001A		Serial Dilution				Run: SUB-B136834		09/30/09 14:30			
Mercury		ND	mg/L	0.020		0	0	10	N		
Sample ID: H09090362-001A		Sample Matrix Spike				Run: SUB-B136834		09/30/09 14:28			
Mercury		0.010	mg/L	0.020	102	75	125				
Method: SW7470A										Analytical Run: SUB-B136834	
Sample ID: QCS		Initial Calibration Verification Standard							09/30/09 11:10		
Mercury		0.0019	mg/L	0.0010	94	90	110				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc

Workorder Receipt Checklist



H09090362

MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 9/28/2009 4:39 PM

Reviewed by: Wanda Johnson

Received by: hm

Reviewed Date: 10/2/2009 4:07:00 PM

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 25.6°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark P.O. Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark 841-5028		Email: PClark2@mt.gov		Sampler: (Please Print)	
Invoice Address: same as above		Invoice Contact & Phone: same as above		Purchase Order:		Quote/Bottle Order: 377	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction page Comments: R U S H	
Number of Containers Sample Type: A W S V B O Vegetation Bioassay Other		MATRIX S		Normal Turnaround (TAT) X		Shipped by: HND	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 AAcm WL-SS-1003		Collection Date 9/28/09		Collection Time 16:00		Receipt Temp 25.8 °C	
						On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
						Custody Seal Y N Bottles/ Coolers B C Intact Y N Signature Match Y N	
						LABORATORY USE ONLY 409090362001	
Custody Record MUST be Signed		Requisitioned by (print): Colin M. Scoy		Date/Time: 9/28/09		Received by (print): Hope Hariska	
		Signature:		Signature:		Date/Time:	
		Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Received by Laboratory: Hope Hariska 9/28/09 16:36	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark P.O. Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark 841-5028 PClark2@mt.gov		Email: PClark2@mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:		Quote/Bottle Order: 377	
Special Report/Formats - ELI must be notified prior to sample submittal for the following:							
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED			
Number of Containers Sample Type: AWSVB0 Air Water Soils/Solids Vegetation Brossay Other		MATRIX		SEE ATTACHED			
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction page	
1 Attn WC-SS-003		9/28/09		16:00		R U S H X	
2							
3							
4							
5							
6							
7							
8							
9							
10							
Custody Record MUST be Signed		Relinquished by (print): Colin McGoey		Date/Time: 9/28/09		Received by (print):	
		Relinquished by (print):		Date/Time:		Signature:	
		Sample Disposal:		Return to Client: <input checked="" type="checkbox"/>		Signature:	
		Lab Disposal:		Date/Time:		Signature:	
		Hope Haidice		9/28/09 10:30		Signature	

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 07, 2009

Pebbles Clark
MT DEQ
PO Box 200901
Helena, MT 59620-

Workorder No.: H09090411 Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 9/30/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09090411-001	WC-SS-004	09/30/09 16:00	09/30/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09090411-001
Client Sample ID: WC-SS-004

Report Date: 10/07/09
Collection Date: 09/30/09 16:00
Date Received: 09/30/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6010B	10/05/09 17:45 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/05/09 17:45 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/05/09 17:45 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/05/09 17:45 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/05/09 17:45 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/02/09 15:29 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/05/09 15:56 / eli-b
Silver	ND	mg/L		0.5	5	SW6010B	10/05/09 17:45 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/07/09
 Work Order: H09090411

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW6010B										Analytical Run: SUB-B137045	
Sample ID: QCS	6	Initial Calibration Verification Standard							10/05/09 12:26		
Arsenic		0.820	mg/L	0.10	102	90	110				
Barium		0.834	mg/L	0.10	104	90	110				
Cadmium		0.415	mg/L	0.010	104	90	110				
Chromium		0.840	mg/L	0.050	105	90	110				
Lead		0.826	mg/L	0.050	103	90	110				
Silver		0.407	mg/L	0.010	102	90	110				
Sample ID: ICSA	6	Interference Check Sample A							10/05/09 12:42		
Arsenic		0.0414	mg/L	0.10		-0.1	0.1				
Barium		0.000670	mg/L	0.10		-0.005	0.0005				
Cadmium		0.00819	mg/L	0.010		-0.001	0.001				
Chromium		0.00212	mg/L	0.050		-0.01	0.01				
Lead		-0.0621	mg/L	0.050		-0.01	0.01				
Silver		0.000290	mg/L	0.010		-0.005	0.005				
Sample ID: ICSAB	6	Interference Check Sample AB							10/05/09 12:46		
Arsenic		1.07	mg/L	0.10	107	80	120				
Barium		0.538	mg/L	0.10	108	80	120				
Cadmium		1.01	mg/L	0.010	101	80	120				
Chromium		0.511	mg/L	0.050	102	80	120				
Lead		0.970	mg/L	0.050	97	80	120				
Silver		1.07	mg/L	0.010	99	80	120				
Method: SW6020										Analytical Run: SUB-B137057	
Sample ID: ICSA-ME090423A		Interference Check Sample A							10/05/09 10:34		
Selenium		0.00011	mg/L	0.0010							
Sample ID: ICSAB-ME090423A,09		Interference Check Sample AB							10/05/09 10:38		
Selenium		0.0097	mg/L	0.0010	97	70	130				
Sample ID: QCS-090602A,090929		Initial Calibration Verification Standard							10/05/09 11:03		
Selenium		0.051	mg/L	0.0010	102	90	110				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ

Report Date: 10/07/09

Project: Spring Meadow Lake

Work Order: H09090411

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_41829										
Sample ID: MB1-41829	6	Method Blank				Run: SUB-B137045				10/05/09 17:01
Arsenic		ND	mg/L	0.03						
Barium		0.002	mg/L	0.0002						
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Silver		ND	mg/L	0.002						
Sample ID: LCS1-41829	6	Laboratory Control Sample				Run: SUB-B137045				10/05/09 17:09
Arsenic		0.453	mg/L	0.50	91	85	115			
Barium		5.54	mg/L	1.0	101	85	115			
Cadmium		0.248	mg/L	0.10	98	85	115			
Chromium		0.505	mg/L	0.50	101	85	115			
Lead		0.513	mg/L	0.50	103	85	115			
Silver		0.0489	mg/L	0.50	98	85	115			
Sample ID: LCS1D-41829	6	Laboratory Control Sample				Run: SUB-B137045				10/05/09 17:13
Arsenic		0.473	mg/L	0.50	95	85	115			
Barium		5.73	mg/L	1.0	104	85	115			
Cadmium		0.243	mg/L	0.10	97	85	115			
Chromium		0.493	mg/L	0.50	99	85	115			
Lead		0.489	mg/L	0.50	98	85	115			
Silver		0.0480	mg/L	0.50	96	85	115			
Sample ID: B09092886-002ADIL	6	Serial Dilution				Run: SUB-B137045				10/05/09 17:29
Arsenic		ND	mg/L	0.50		0	0			10
Barium		1.25	mg/L	1.0		0	0	0.9		10
Cadmium		ND	mg/L	0.10		0	0			10
Chromium		ND	mg/L	0.50		0	0			10
Lead		ND	mg/L	0.50		0	0			10
Silver		0.0154	mg/L	0.50		0	0			10 N
Sample ID: H09090411-001A	6	Sample Matrix Spike				Run: SUB-B137045				10/05/09 17:49
Arsenic		0.788	mg/L	0.50	91	75	125			
Barium		6.31	mg/L	1.0	104	75	125			
Cadmium		0.239	mg/L	0.10	95	75	125			
Chromium		0.603	mg/L	0.50	97	75	125			
Lead		0.327	mg/L	0.50	65	75	125			S
Silver		0.0469	mg/L	0.50	94	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/07/09
 Work Order: H09090411

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Batch: B_41829										
Sample ID: MB1-41829		Method Blank								
Selenium		9E-05	mg/L	2E-05						10/05/09 14:29
Run: SUB-B137057										
Sample ID: LCS1-41829		Laboratory Control Sample								10/05/09 14:33
Selenium		0.488	mg/L	0.10	98	85	115			
Run: SUB-B137057										
Sample ID: LCS1D-41829		Laboratory Control Sample Duplicate								10/05/09 14:38
Selenium		0.475	mg/L	0.10	95	85	115	2.6		20
Run: SUB-B137057										
Sample ID: B09092886-002ADIL		Serial Dilution								10/05/09 15:38
Selenium		ND	mg/L	0.10		0	0			10
Run: SUB-B137057										
Sample ID: H09090411-001A		Sample Matrix Spike								10/05/09 16:01
Selenium		0.484	mg/L	0.10	97	75	125			
Run: SUB-B137057										
Method: SW7470A Batch: B_41818										
Sample ID: MB-41818		Method Blank								
Mercury		ND	mg/L	0.0005						10/02/09 15:19
Run: SUB-B136957										
Sample ID: LCS-41818		Laboratory Control Sample								10/02/09 15:21
Mercury		0.0092	mg/L	0.020	92	85	115			
Run: SUB-B136957										
Sample ID: LCSD-41818		Laboratory Control Sample								10/02/09 15:23
Mercury		0.0090	mg/L	0.020	90	85	115			
Run: SUB-B136957										
Sample ID: H09090411-001A		Sample Matrix Spike								10/02/09 15:31
Mercury		0.0088	mg/L	0.020	88	75	125			
Run: SUB-B136957										
Sample ID: B09100097-009ADIL		Serial Dilution								10/02/09 15:48
Mercury		ND	mg/L	0.020		0	0			10 N
Run: SUB-B136957										
Method: SW7470A Analytical Run: SUB-B136957										
Sample ID: QCS		Initial Calibration Verification Standard								10/02/09 15:12
Mercury		0.0018	mg/L	0.020	90	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc

Workorder Receipt Checklist



H09090411

Login completed by: Stephanie Dull
 Reviewed by: BL2000\ablackburn
 Reviewed Date: 10/1/2009 5:09:14 PM

Date and Time Received: 9/30/2009 4:20 PM
 Received by: sld
 Carrier name: Hand Del

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 18.4°C From Field | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

 Contact and Corrective Action Comments:

Sample ID on jar is WC-SS-004 and Sample ID on COC is WC-SS-003 - Call into P. Clark to verify sample ID
 9/30/2009 16:36 sld

Sample ID is WC-SS-004 per C.McCoy 10/1/09 SD

**** REPORT ****

MT DEQ
Pebbles Clark
PO Box 200901
Helena MT 59620

RECEIVED
OCT 13 2009
Dept. of Environmental Quality
Remediation Division



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc.: Spring Meadow Lake		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark PO Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark		Phone/Fax: 841-5028	
Invoice Address: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WW/TP <input type="checkbox"/> State: <input type="checkbox"/> Other:		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: Sample ID is WC-SS-004 per C. McCady 10-1-09 SD	
<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Normal Turnaround (TAT) R U S H		Shipped by: Hand	
Number of Containers Air Water: A W S V B O Air Water: Sols/Solids Vegetation: Blossay Other:		MATRIX S		Receipt Temp: 18.4 °C On Ice: Yes (No)	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 WC-SS-003/4 2 3 4 5 6 7 8 9 10		Collection Date 9/30/2009		Collection Time 16:00	
Signature: Colin McCoy Date/Time: 9/30/09/14:20		Signature: Stephanie Dull Date/Time: 9-30-09 16:20		Signature: Stephanie Dull Date/Time:	
Custody Record MUST be Signed		Received by Laboratory:		Signature:	
Sample Disposal:		Return to Client:		Signature:	

LABORATORY USE ONLY

109090411-001

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 13, 2009

Pebbles Clark
 MT DEQ
 PO Box 200901
 Helena, MT 59620-

Workorder No.: H09100022 Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 10/1/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100022-001	WC-SS-005	10/01/09 16:16	10/01/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

- eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
- eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
- eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
- eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
- eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
- eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

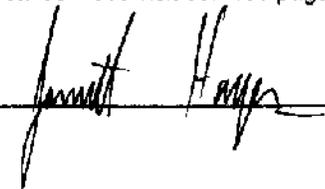
SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: 

RECEIVED
 OCT 16 2009

Dept. of Environmental Quality
 Remediation District



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100022-001
Client Sample ID: WC-SS-005

Report Date: 10/13/09
Collection Date: 10/01/09 16:16
Date Received: 10/01/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.4	mg/L		0.5	5	SW6010B	10/08/09 12:44 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/08/09 12:44 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/08/09 12:44 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/08/09 12:44 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/08/09 12:44 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/07/09 15:54 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/10/09 13:54 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/10/09 13:54 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/13/09
Work Order: H09100022

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B		Analytical Run: SUB-B137221								
Sample ID: QCS	5	Initial Calibration Verification Standard							10/08/09 11:29	
Arsenic		0.815	mg/L	0.10	102	90	110			
Barium		0.823	mg/L	0.10	103	90	110			
Cadmium		0.413	mg/L	0.010	103	90	110			
Chromium		0.834	mg/L	0.050	104	90	110			
Lead		0.836	mg/L	0.050	104	90	110			
Sample ID: ICSA	5	Interference Check Sample A							10/08/09 11:45	
Arsenic		0.0211	mg/L	0.10		-0.1	0.1			
Barium		3.00E-05	mg/L	0.10		-0.005	0.0005			
Cadmium		0.00489	mg/L	0.010		-0.001	0.001			
Chromium		-0.00134	mg/L	0.050		-0.01	0.01			
Lead		-0.0407	mg/L	0.050		-0.01	0.01			
Sample ID: ICSAB	5	Interference Check Sample AB							10/08/09 11:49	
Arsenic		1.05	mg/L	0.10	105	80	120			
Barium		0.536	mg/L	0.10	107	80	120			
Cadmium		0.998	mg/L	0.010	100	80	120			
Chromium		0.508	mg/L	0.050	102	80	120			
Lead		1.00	mg/L	0.050	100	80	120			
Method: SW6020		Analytical Run: SUB-B137310								
Sample ID: QCS-090602A,090929	2	Initial Calibration Verification Standard							10/10/09 23:56	
Selenium		0.049	mg/L	0.0010	98	90	110			
Silver		0.025	mg/L	0.0010	102	90	110			
Sample ID: QCS-090602A,090929	2	Initial Calibration Verification Standard							10/10/09 11:12	
Selenium		0.050	mg/L	0.0010	100	90	110			
Silver		0.025	mg/L	0.0010	99	90	110			
Sample ID: ICSA-ME090423A	2	Interference Check Sample A							10/10/09 11:16	
Selenium		0.00019	mg/L	0.0010						
Silver		0.00054	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09	2	Interference Check Sample AB							10/10/09 11:21	
Selenium		0.0098	mg/L	0.0010	98	70	130			
Silver		0.019	mg/L	0.0010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/13/09
Work Order: H09100022

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_41917										
Sample ID: MB-41917	5	Method Blank		Run: SUB-B137221			10/08/09 12:32			
Arsenic		ND	mg/L	0.03						
Barium		0.2	mg/L	0.0002						
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Sample ID: LCS-41917	5	Laboratory Control Sample		Run: SUB-B137221			10/08/09 12:36			
Arsenic		0.469	mg/L	0.50	94	85	115			
Barium		5.97	mg/L	1.0	104	85	115			
Cadmium		0.258	mg/L	0.10	103	85	115			
Chromium		0.522	mg/L	0.50	104	85	115			
Lead		0.518	mg/L	0.50	104	85	115			
Sample ID: LCSD-41917	5	Laboratory Control Sample		Run: SUB-B137221			10/08/09 12:40			
Arsenic		0.467	mg/L	0.50	93	85	115			
Barium		6.00	mg/L	1.0	105	85	115			
Cadmium		0.255	mg/L	0.10	102	85	115			
Chromium		0.517	mg/L	0.50	103	85	115			
Lead		0.506	mg/L	0.50	101	85	115			
Sample ID: H09100022-001A	5	Serial Dilution		Run: SUB-B137221			10/08/09 12:48			
Arsenic		1.48	mg/L	0.50		0	0	6.5	10	
Barium		0.597	mg/L	1.0		0	0		10	
Cadmium		ND	mg/L	0.10		0	0		10	
Chromium		0.0868	mg/L	0.50		0	0		10	N
Lead		ND	mg/L	0.50		0	0		10	
Sample ID: H09100022-001A	5	Sample Matrix Spike		Run: SUB-B137221			10/08/09 12:52			
Arsenic		1.93	mg/L	0.50	109	75	125			
Barium		6.55	mg/L	1.0	108	75	125			
Cadmium		0.249	mg/L	0.10	99	75	125			
Chromium		0.607	mg/L	0.50	102	75	125			
Lead		0.347	mg/L	0.50	69	75	125			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/13/09
 Work Order: H09100022

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Batch: B_41980										
Sample ID: MB-41980	2	Method Blank								10/10/09 13:12
Selenium		ND	mg/L	2E-05						
Silver		0.0004	mg/L	2E-05						
Sample ID: LCS5-41980	2	Laboratory Control Sample								10/10/09 13:17
Selenium		0.493	mg/L	0.10	99	85	115			
Silver		0.0492	mg/L	0.50	98	85	115			
Sample ID: LCSD5-41980	2	Laboratory Control Sample								10/10/09 13:21
Selenium		0.483	mg/L	0.10	97	85	115			
Silver		0.0496	mg/L	0.50	98	85	115			
Sample ID: H09100022-001A	2	Serial Dilution								10/10/09 13:58
Selenium		ND	mg/L	0.10		0	0			10
Silver		ND	mg/L	0.50		0	0			10
Sample ID: H09100022-001A	2	Sample Matrix Spike								10/10/09 14:03
Selenium		0.973	mg/L	0.10	97	75	125			
Silver		0.0892	mg/L	0.50	97	75	125			
Method: SW7470A Batch: B_41915										
Sample ID: MB-41915		Method Blank								10/07/09 15:48
Mercury		ND	mg/L	0.0005						
Sample ID: LCS-41915		Laboratory Control Sample								10/07/09 15:50
Mercury		0.0093	mg/L	0.020	93	85	115			
Sample ID: LCSD-41915		Laboratory Control Sample Duplicate								10/07/09 15:52
Mercury		0.0093	mg/L	0.020	93	85	115	0		10
Sample ID: H09100022-001A		Sample Matrix Spike								10/07/09 15:56
Mercury		0.0097	mg/L	0.020	97	75	125			
Sample ID: H09100022-001A		Serial Dilution								10/07/09 15:58
Mercury		ND	mg/L	0.020		0	0			10 N
Method: SW7470A Analytical Run: SUB-B137178										
Sample ID: QCS		Initial Calibration Verification Standard								10/07/09 15:41
Mercury		0.0018	mg/L	0.020	91	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc

Workorder Receipt Checklist



H09100022

Login completed by: Stephanie Dull

Date and Time Received: 10/1/2009 4:45 PM

Reviewed by: BL2000\wjohnson

Received by: wjj

Reviewed Date: 10/9/2009 7:32:19 AM

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 20.9°C From Field | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark PO Box 200961 Helena, MT 59601		Contact Name: Pebbles Clark 841-5028		Email: Pclark2@mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction page Comments:	
Number of Containers Sample Type: A W S V B O Air Water Solids Vegetation Blossay Other		Matrix S		Shipped by: haddock Cooler ID(s):		Receipt Temp 20.9 °C On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Custody Seal Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Bottles/ Coolers B C Intact Y N Signature Match Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) WC-SS-005		Collection Date 10-1-2009		Collection Time 16:16		Signature Wardson	
Requisitioned by (print): Colin Mc Coy		Date/Time: 10-1-2009 16:45		Received by (print): Wardson		Date/Time: 10-1-09 16:45	
Requisitioned by (print):		Date/Time:		Received by (print):		Date/Time:	
Signature:		Date/Time:		Received by Laboratory:		Date/Time:	
Sample Disposal:		Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Signature:	

Custody Record MUST be Signed

LABORATORY USE ONLY
H09100022-001

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadows Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark PO Box 200901 Helena, MT 59601		Contact Name: Pebbles Clark 844-5028		Phone/Fax: PCbark2@mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <input type="checkbox"/> Other: <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED TCR Phylly, Sealy A. B. Clark		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page R U S H		Shipped by: h2-d-d-lab Cooler ID(s):	
Number of Containers Sample Type: AWS/VBO Vegetation Air Water Soils/Solids Biossay Other		MATRIX S		Comments: LABORATORY USE ONLY		Receipt Temp 20.7 °C On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Custody Seal Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Bottles/Coolers B <input type="checkbox"/> C <input type="checkbox"/> Intact Y <input type="checkbox"/> N <input type="checkbox"/> Signature Match Y <input type="checkbox"/> N <input type="checkbox"/>	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) WLC-SS-005		Collection Date 10-1-2009		Collection Time 16:16		Normal Turnaround (TAT) SEE ATTACHED	
Relinquished by (print): Colin McCoy		Date/Time: 10-1-2009 16:45		Signature: <i>[Signature]</i>		Received by (print): Wanda Johnson	
Relinquished by (print):		Date/Time:		Signature:		Received by (print):	
Sample Disposal:		Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Received by Laboratory: 10-09-16	
Signature:		Date/Time:		Signature:		Received by Laboratory: 10-09-16	

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 13, 2009

Pebbles Clark
MT DEQ
PO Box 200901
Helena, MT 59620-

Workorder No.: H09100054 Quote ID: H377 - Spring Meadow
Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 2 samples for MT DEQ on 10/5/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100054-001	WC-SS-006	10/05/09 15:40	10/05/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles
H09100054-002	WC-SS-007	10/05/09 15:46	10/05/09	Soil	Same As Above

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: 

RECEIVED

OCT 1st 2009

Dept. of Environmental Quality
Remediation Division



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100054-001
Client Sample ID: WC-SS-006

Report Date: 10/13/09
Collection Date: 10/05/09 15:40
Date Received: 10/05/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.6	mg/L		0.5	5	SW6020	10/11/09 07:48 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/09/09 23:33 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/09/09 23:33 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/09/09 23:33 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/09/09 23:33 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/08/09 13:57 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6010B	10/09/09 23:33 / eli-b
Silver	ND	mg/L		0.5	5	SW6010B	10/09/09 23:33 / eli-b

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100054-002
Client Sample ID: WC-SS-007

Report Date: 10/13/09
Collection Date: 10/05/09 15:46
Date Received: 10/05/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	10/11/09 07:53 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/09/09 23:38 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/09/09 23:38 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/09/09 23:38 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/09/09 23:38 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/08/09 13:59 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/11/09 07:53 / eli-b
Silver	ND	mg/L		0.5	5	SW6010B	10/09/09 23:38 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/13/09
 Work Order: H09100054

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B								Analytical Run: SUB-B137330		
Sample ID: QCS		5 Initial Calibration Verification Standard						10/09/09 10:32		
Barium		0.818	mg/L	0.10	102	90	110			
Cadmium		0.403	mg/L	0.010	101	90	110			
Chromium		0.821	mg/L	0.050	103	90	110			
Lead		0.805	mg/L	0.050	101	90	110			
Selenium		0.811	mg/L	0.10	101	90	110			
Silver		0.391	mg/L	0.010	98	90	110			
Sample ID: ICSA		5 Interference Check Sample A						10/09/09 10:48		
Barium		0.000180	mg/L	0.10		-0.005	0.0005			
Cadmium		0.00471	mg/L	0.010		-0.001	0.001			
Chromium		-0.00127	mg/L	0.050		-0.01	0.01			
Lead		-0.0569	mg/L	0.050		-0.01	0.01			
Selenium		-0.0719	mg/L	0.10		-0.1	0.1			
Silver		0.00300	mg/L	0.010		-0.005	0.005			
Sample ID: ICSAB		5 Interference Check Sample AB						10/09/09 10:53		
Barium		0.521	mg/L	0.10	104	80	120			
Cadmium		0.983	mg/L	0.010	98	80	120			
Chromium		0.500	mg/L	0.050	100	80	120			
Lead		0.968	mg/L	0.050	97	80	120			
Selenium		0.921	mg/L	0.10	92	80	120			
Silver		1.05	mg/L	0.010	97	80	120			
Method: SW6020								Analytical Run: SUB-B137310		
Sample ID: QCS-090602A,090929		2 Initial Calibration Verification Standard						10/10/09 23:58		
Selenium		0.049	mg/L	0.0010	98	90	110			
Arsenic		0.048	mg/L	0.0010	97	90	110			
Sample ID: ICSA-ME090423A		2 Interference Check Sample A						10/11/09 00:01		
Selenium		0.00020	mg/L	0.0010						
Arsenic		0.00014	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09		2 Interference Check Sample AB						10/11/09 00:06		
Selenium		0.0096	mg/L	0.0010	96	70	130			
Arsenic		0.0099	mg/L	0.0010	99	70	130			
Method: SW7470A								Analytical Run: SUB-B137228		
Sample ID: QCS		Initial Calibration Verification Standard						10/08/09 12:00		
Mercury		0.0019	mg/L	0.0010	93	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/13/09
Work Order: H09100054

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B Batch: B_41971										
Sample ID: MB1-41971	5	Method Blank								10/09/09 21:47
Barium		0.0009	mg/L	0.0002						
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Selenium		ND	mg/L	0.01						
Silver		ND	mg/L	0.002						
Sample ID: LCS-41971 Run: SUB-B137330 10/09/09 22:19										
Barium		5.75	mg/L	1.0	105	85	115			
Cadmium		0.251	mg/L	0.10	101	85	115			
Chromium		0.512	mg/L	0.50	102	85	115			
Lead		0.508	mg/L	0.50	102	85	115			
Selenium		0.446	mg/L	0.10	89	85	115			
Silver		0.0475	mg/L	0.50	95	85	115			
Sample ID: LCSD-41971 Run: SUB-B137330 10/09/09 22:24										
Barium		5.92	mg/L	1.0	108	85	115	2.9	20	
Cadmium		0.251	mg/L	0.10	100	85	115	0.2	20	
Chromium		0.507	mg/L	0.50	101	85	115	1	20	
Lead		0.502	mg/L	0.50	100	85	115	1.2	20	
Selenium		0.429	mg/L	0.10	86	85	115	3.8	20	
Silver		0.0490	mg/L	0.050	98	85	115		20	
Sample ID: B09100406-002ADIL Run: SUB-B137330 10/09/09 23:17										
Barium		0.722	mg/L	1.0		0	0		10	
Cadmium		0.00520	mg/L	0.10		0	0		10	N
Chromium		ND	mg/L	0.50		0	0		10	
Lead		ND	mg/L	0.50		0	0		10	
Selenium		0.0988	mg/L	0.10		0	0		10	N
Silver		ND	mg/L	0.50		0	0		10	
Sample ID: H09100080-001A Run: SUB-B137330 10/10/09 00:06										
Barium		6.24	mg/L	1.0	104	75	125			
Cadmium		0.222	mg/L	0.10	89	75	125			
Chromium		0.550	mg/L	0.50	92	75	125			
Lead		0.314	mg/L	0.50	63	75	125			S
Selenium		0.397	mg/L	0.10	79	75	125			
Silver		0.0481	mg/L	0.50	96	75	125			
Sample ID: H09100054-002A Run: SUB-B137330 10/09/09 23:42										
Barium		6.27	mg/L	1.0	106	75	125			
Cadmium		0.224	mg/L	0.10	90	75	125			
Chromium		0.530	mg/L	0.50	93	75	125			
Lead		0.384	mg/L	0.50	77	75	125			
Selenium		0.405	mg/L	0.10	78	75	125			

Qualifiers:

RL - Analyte reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/13/09
 Work Order: H09100054

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B Batch: B_41971										
Sample ID: H09100054-002A	6	Sample Matrix Spike								10/09/09 23:42
Silver		0.0447	mg/L	0.50	89	75	125			
Method: SW6020 Batch: B_41971										
Sample ID: MB1-41971	2	Method Blank								10/11/09 04:55
Arsenic		6E-05	mg/L	2E-05						
Selenium		7E-05	mg/L	2E-05						
Sample ID: LCS1-41971	2	Laboratory Control Sample								10/11/09 05:00
Arsenic		0.492	mg/L	0.50	98	85	115			
Selenium		0.482	mg/L	0.10	96	85	115			
Sample ID: B09100367-002ADIL	2	Serial Dilution								10/11/09 06:05
Arsenic		0.0215	mg/L	0.50		0	0		10	
Selenium		0.00242	mg/L	0.10		0	0		10	N
Sample ID: H09100080-001A	2	Sample Matrix Spike								10/11/09 08:54
Arsenic		1.75	mg/L	0.50	104	75	125			
Selenium		0.473	mg/L	0.10	94	75	125			
Sample ID: LCS1D-41971	2	Laboratory Control Sample								10/11/09 05:04
Arsenic		0.497	mg/L	0.50	99	85	115			
Selenium		0.475	mg/L	0.10	95	85	115			
Sample ID: H09100054-002A	2	Sample Matrix Spike								10/11/09 07:58
Arsenic		0.601	mg/L	0.50	99	75	125			
Selenium		0.480	mg/L	0.10	96	75	125			
Method: SW7470A Batch: B_41940										
Sample ID: MB1-41940		Method Blank								10/08/09 13:25
Mercury		ND	mg/L	0.0005						
Sample ID: LCS1-41940		Laboratory Control Sample								10/08/09 13:27
Mercury		0.010	mg/L	0.020	102	85	115			
Sample ID: LCS1D-41940		Laboratory Control Sample Duplicate								10/08/09 13:30
Mercury		0.0095	mg/L	0.020	96	85	115		10	
Sample ID: H09100080-001A		Sample Matrix Spike								10/08/09 14:10
Mercury		0.010	mg/L	0.020	104	75	125			
Sample ID: B09100522-001ADIL		Serial Dilution								10/08/09 14:16
Mercury		ND	mg/L	0.020		0	0		10	N
Sample ID: H09100054-002A		Sample Matrix Spike								10/08/09 14:01
Mercury		0.0098	mg/L	0.020	98	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc

Workorder Receipt Checklist



H09100054

MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 10/5/2009 4:42 PM

Reviewed by: BL2000\sdull

Received by: wjj

Reviewed Date: 10/9/2009 12:24:38 PM

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 14.8°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name:

MT DEQ

Project Name, PWS, Permit, Etc.

Spring Meadow Lake

Sample Origin

State: MT

EPA/State Compliance:

Yes No

Report Mail Address:

Attn: Pebbles Clark
PO Box 200901
Helena, MT 59620

Contact Name:

Pebbles Clark

Phone/Fax:

841-5028

Email:

plark2@mt.gov

Sampler: (Please Print)

Invoice Address:

same as above

Invoice Contact & Phone:

same as above

Purchase Order:

Quote/Bottle Order:

Special Report/Formats - ELL must be notified prior to sample submittal for the following:

- DW
- GSA
- POT/WW/TP
- State: _____
- Other: _____
- A2LA
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers
Sample Type: AWS V B O
Air Water Soils/Solids
Vegetation Bioassay Other

ANALYSIS REQUESTED

TCLP
As, Ba, Cd, Cr
Pb, Hg, Se, Ag

SEE ATTACHED
Normal Turnaround (TAT)

RUSH

Contact ELL prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by: handdel.
Cooler Idt#:

Receipt Temp: 14.8 °C
On Ice: NO

Custody Seal: Y
Bottles/ Coolers: B C
Intact: Y N
Signature Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED				Normal Turnaround (TAT)	RUSH	Comments:	Shipped by: Cooler Idt#:	Receipt Temp: On Ice:	Custody Seal: Bottles/ Coolers:	Intact:	Signature Match:
				As, Ba, Cd, Cr Pb, Hg, Se, Ag											
1 WC-SS-006	10/5/09	15:40	S	X				X							
2 WC-SS-007	10/5/09	15:46	S	X				X							
3															
4															
5															
6															
7															
8															
9															
10															

Custody Record MUST be Signed

Reinquinished by (print):
Cohn MSc609

Date/Time: 10/5/09 16:42
Signature: [Signature]

Received by (print):
W. W. W. W.

Date/Time: 10-5-09 16:42
Signature: [Signature]

Sample Disposal: Return to Client:

LAB Disposal:

Received by Laboratory:

Date/Time:

Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 13, 2009

Pebbles Clark
MT DEQ
PO Box 200901
Helena, MT 59620-

Workorder No.: H09100080 Quote ID: H377 - Spring Meadow
Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 10/6/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100080-001	WC-SS-008	10/06/09 16:17	10/06/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100080-001
Client Sample ID: WC-SS-008

Report Date: 10/13/09
Collection Date: 10/06/09 16:17
Date Received: 10/06/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.2	mg/L		0.5	5	SW6020	10/11/09 08:49 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/10/09 00:02 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/10/09 00:02 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/10/09 00:02 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/10/09 00:02 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/08/09 14:08 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6010B	10/10/09 00:02 / eli-b
Silver	ND	mg/L		0.5	5	SW6010B	10/10/09 00:02 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/13/09
Work Order: H09100080

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW6010B										Analytical Run: SUB-B137330	
Sample ID: QCS	6	Initial Calibration Verification Standard							10/09/09 10:32		
Barium		0.618	mg/L	0.10	102	90	110				
Cadmium		0.403	mg/L	0.010	101	90	110				
Chromium		0.821	mg/L	0.050	103	90	110				
Lead		0.805	mg/L	0.050	101	90	110				
Selenium		0.811	mg/L	0.10	101	90	110				
Silver		0.391	mg/L	0.010	98	90	110				
Sample ID: ICSA	6	Interference Check Sample A							10/09/09 10:48		
Barium		0.000180	mg/L	0.10		-0.005	0.0005				
Cadmium		0.00471	mg/L	0.010		-0.001	0.001				
Chromium		-0.00127	mg/L	0.050		-0.01	0.01				
Lead		-0.0569	mg/L	0.050		-0.01	0.01				
Selenium		-0.0719	mg/L	0.10		-0.1	0.1				
Silver		0.00300	mg/L	0.010		-0.005	0.005				
Sample ID: ICSAB	6	Interference Check Sample AB							10/09/09 10:53		
Barium		0.521	mg/L	0.10	104	80	120				
Cadmium		0.983	mg/L	0.010	98	80	120				
Chromium		0.500	mg/L	0.050	100	80	120				
Lead		0.966	mg/L	0.050	97	80	120				
Selenium		0.921	mg/L	0.10	92	80	120				
Silver		1.05	mg/L	0.010	97	80	120				
Method: SW6020										Analytical Run: SUB-B137310	
Sample ID: QCS-090602A,090929		Initial Calibration Verification Standard							10/10/09 23:56		
Arsenic		0.048	mg/L	0.0010	97	90	110				
Sample ID: ICSA-ME090423A		Interference Check Sample A							10/11/09 00:01		
Arsenic		0.00014	mg/L	0.0010							
Sample ID: ICSAB-ME090423A,09		Interference Check Sample AB							10/11/09 00:06		
Arsenic		0.0099	mg/L	0.0010	99	70	130				
Method: SW7470A										Analytical Run: SUB-B137228	
Sample ID: QCS		Initial Calibration Verification Standard							10/08/09 12:00		
Mercury		0.0019	mg/L	0.0010	93	90	110				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/13/09
Work Order: H09100080

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B Batch: B_41971										
Sample ID: MB1-41971 Run: SUB-B137330 10/09/09 21:47										
⊗ Method Blank										
Barium		0.0009	mg/L	0.0002						
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Selenium		ND	mg/L	0.01						
Silver		ND	mg/L	0.002						
Sample ID: LCS-41971 Run: SUB-B137330 10/09/09 22:19										
⊗ Laboratory Control Sample										
Barium		5.75	mg/L	1.0	105	85	115			
Cadmium		0.251	mg/L	0.10	101	85	115			
Chromium		0.512	mg/L	0.50	102	85	115			
Lead		0.508	mg/L	0.50	102	85	115			
Selenium		0.446	mg/L	0.10	89	85	115			
Silver		0.0475	mg/L	0.50	95	85	115			
Sample ID: LCSD-41971 Run: SUB-B137330 10/09/09 22:24										
⊗ Laboratory Control Sample Duplicate										
Barium		5.92	mg/L	1.0	108	85	115	2.9	20	
Cadmium		0.251	mg/L	0.10	100	85	115	0.2	20	
Chromium		0.507	mg/L	0.50	101	85	115	1	20	
Lead		0.502	mg/L	0.50	100	85	115	1.2	20	
Selenium		0.429	mg/L	0.10	86	85	115	3.8	20	
Silver		0.0490	mg/L	0.050	98	85	115		20	
Sample ID: B09100406-002ADIL Run: SUB-B137330 10/09/09 23:17										
⊗ Serial Dilution										
Barium		0.722	mg/L	1.0		0	0		10	
Cadmium		0.00520	mg/L	0.10		0	0		10	N
Chromium		ND	mg/L	0.50		0	0		10	
Lead		ND	mg/L	0.50		0	0		10	
Selenium		0.0988	mg/L	0.10		0	0		10	N
Silver		ND	mg/L	0.50		0	0		10	
Sample ID: H09100080-001A Run: SUB-B137330 10/10/09 00:06										
⊗ Sample Matrix Spike										
Barium		6.24	mg/L	1.0	104	75	125			
Cadmium		0.222	mg/L	0.10	89	75	125			
Chromium		0.550	mg/L	0.50	92	75	125			
Lead		0.314	mg/L	0.50	83	75	125			S
Selenium		0.397	mg/L	0.10	79	75	125			
Silver		0.0481	mg/L	0.50	96	75	125			

Qualifiers:

RL - Analyte reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/13/09
 Work Order: H09100080

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										
Batch: B_41971										
Sample ID: MB1-41971		Method Blank					Run: SUB-B137310			10/11/09 04:55
Arsenic		6E-05	mg/L	2E-05						
Sample ID: LCS1-41971		Laboratory Control Sample					Run: SUB-B137310			10/11/09 05:00
Arsenic		0.492	mg/L	0.50	98	85	115			
Sample ID: B09100367-002ADIL		Serial Dilution					Run: SUB-B137310			10/11/09 06:05
Arsenic		0.0215	mg/L	0.50		0	0			10
Sample ID: H09100080-001A		Sample Matrix Spike					Run: SUB-B137310			10/11/09 08:54
Arsenic		1.75	mg/L	0.50	104	75	125			
Method: SW7470A										
Batch: B_41940										
Sample ID: MB1-41940		Method Blank					Run: SUB-B137228			10/08/09 13:25
Mercury		ND	mg/L	0.0005						
Sample ID: LCS1-41940		Laboratory Control Sample					Run: SUB-B137228			10/08/09 13:27
Mercury		0.010	mg/L	0.020	102	85	115			
Sample ID: LCS1D-41940		Laboratory Control Sample Duplicate					Run: SUB-B137228			10/08/09 13:30
Mercury		0.0095	mg/L	0.020	96	85	115			10
Sample ID: H09100080-001A		Sample Matrix Spike					Run: SUB-B137228			10/08/09 14:10
Mercury		0.010	mg/L	0.020	104	75	125			
Sample ID: H09100080-001A		Serial Dilution					Run: SUB-B137228			10/08/09 14:16
Mercury		ND	mg/L	0.020		0	0			10 N

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



Energy Laboratories Inc Workorder Receipt Checklist



H09100080

Login completed by: Amanda B. Blackburn

Date and Time Received: 10/6/2009 4:53 PM

Reviewed by: BL2000\wjohnson

Received by: stp

Reviewed Date: 10/7/2009 3:02:05 PM

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 19.0°C From Field | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark PO Box 200901 Helena, MT 59620		Contact Name: Pebbles Clark		Phone/Fax: 841-5028		Email: PClark2@mt.gov	
Invoice Address: Same as above		Invoice Contact & Phone: same as above		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other: <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED		Normal Turnaround (TAT) R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction page Comments:	
Number of Containers Sample Type: A W S V B O Vegetation Bioassay Other		MATRIX S		Shipped by: Inland del. Cooler ID(s):		Receipt Temp 14.0 °C On Ice: Yes <input checked="" type="checkbox"/>	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) WC-55-008		Collection Date 10/6/2009		Collection Time 16:17		Custody Seal Y <input checked="" type="checkbox"/> Bottles/Coolers <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Signature Match <input checked="" type="checkbox"/>	
1		2		3		4	
5		6		7		8	
9		10		11		12	
Relinquished by (print): Colin McGon		Date/Time: 10/6/09 16:53		Relinquished by (print): Steve Foster		Date/Time: 10-6-09 16:53	
Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
Custody Record MUST be Signed		Sample Disposal: Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Received by Laboratory: Date/Time:	

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Request Record

PLEASE PRINT - Provide information as possible.

Company Name: MATT DELO		Project Name, PWS, etc. LAW		Sample Origin State: MAT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: ATTN: Debbie Clark PO Box 750070 Wichita, MT 59620		Contact Name: Debbie Clark		Email: VCLAW7@mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone/Fax: Same as above		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other: <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Air Water, Soils/Solids Vegetation, Bioassay, Other		Normal Turnaround (TAT) R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) WC-55-008		Collection Date 10/6/2009		Collection Time 16:17		Matrix S	
1		2		3		4	
5		6		7		8	
9		10					
Custody Record MUST be Signed		Relinquished by (print): Colin McGary		Date/Time: 10/6/09 16:53		Signature: <i>[Signature]</i>	
		Relinquished by (print): Steve Feste		Date/Time: 10-6-09 16:53		Signature: <i>[Signature]</i>	
		Received by Laboratory:		Date/Time:		Signature:	
Sample Disposal:		Return to Client: <input checked="" type="checkbox"/>		Lab Disposal:		Signature:	

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 20, 2009

Pebbles Clark
MT DEQ
PO Box 200901
Helena, MT 59620-

Workorder No.: H09100122 Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 2 samples for MT DEQ on 10/8/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100122-001	WC-SS-009	10/08/09 15:48	10/08/09	Soil	Metals by ICP/CPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles
H09100122-002	WC-SS-010	10/08/09 15:51	10/08/09	Soil	Same As Above

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: Amanda Blackmon

RECEIVED
OCT 23 2009
Dept. of Environmental Quality
Remediation Division



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100122-001
Client Sample ID: WC-SS-009

Report Date: 10/20/09
Collection Date: 10/08/09 15:48
Date Received: 10/08/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.7	mg/L		0.5	5	SW6010B	10/14/09 20:33 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/14/09 20:33 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/14/09 20:33 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/14/09 20:33 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/14/09 20:33 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/13/09 15:06 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/15/09 22:31 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/20/09 04:54 / eli-b

Report
Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100122-002
Client Sample ID: WC-SS-010

Report Date: 10/20/09
Collection Date: 10/08/09 15:51
Date Received: 10/08/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	1.8	mg/L		0.5	5	SW6010B	10/14/09 20:45 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/14/09 20:45 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/14/09 20:45 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/14/09 20:45 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/14/09 20:45 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/13/09 15:08 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/15/09 22:36 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/20/09 04:59 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/20/09
Work Order: H09100122

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7										Analytical Run: SUB-B137528	
Sample ID: ICV	5	Continuing Calibration Verification Standard								10/14/09 10:20	
Arsenic		2.52	mg/L	0.10	101	95	105				
Barium		2.46	mg/L	0.10	98	95	105				
Cadmium		2.53	mg/L	0.010	101	95	105				
Chromium		2.53	mg/L	0.050	101	95	105				
Lead		2.57	mg/L	0.050	103	95	105				
Method: SW6010B										Analytical Run: SUB-B137528	
Sample ID: ICSA	5	Interference Check Sample A								10/14/09 10:32	
Arsenic		0.0411	mg/L	0.10		-0.1	0.1				
Barium		0.000670	mg/L	0.10		-0.005	0.0005				
Cadmium		0.00505	mg/L	0.010		-0.001	0.001				
Chromium		0.000160	mg/L	0.050		-0.01	0.01				
Lead		-0.0476	mg/L	0.050		-0.01	0.01				
Sample ID: ICSAB	5	Interference Check Sample AB								10/14/09 10:36	
Arsenic		1.02	mg/L	0.10	102	80	120				
Barium		0.521	mg/L	0.10	104	80	120				
Cadmium		0.993	mg/L	0.010	99	80	120				
Chromium		0.500	mg/L	0.050	100	80	120				
Lead		0.964	mg/L	0.050	96	80	120				
Sample ID: QCS	5	Initial Calibration Verification Standard								10/14/09 10:16	
Arsenic		0.806	mg/L	0.10	101	90	110				
Barium		0.812	mg/L	0.10	101	90	110				
Cadmium		0.409	mg/L	0.010	102	90	110				
Chromium		0.823	mg/L	0.050	103	90	110				
Lead		0.828	mg/L	0.050	103	90	110				
Method: SW6020										Analytical Run: SUB-B137571	
Sample ID: QCS-090602A,090929		Initial Calibration Verification Standard								10/15/09 15:24	
Selenium		0.054	mg/L	0.0010	109	90	110				
Sample ID: ICSA-ME090423A		Interference Check Sample A								10/15/09 15:29	
Selenium		0.00011	mg/L	0.0010							
Sample ID: ICSAB-ME090423A,09		Interference Check Sample AB								10/15/09 15:34	
Selenium		0.011	mg/L	0.0010	108	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/20/09
Work Order: H09100122

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020								Analytical Run: SUB-B137705		
Sample ID: QCS-090602A,090929		Initial Calibration Verification Standard						10/20/09 00:07		
Silver		0.026	mg/L	0.0010	102	90	110			
Sample ID: ICSA-ME090423A		Interference Check Sample A						10/20/09 00:21		
Silver		4.0E-05	mg/L	0.0010						
Sample ID: ICSAB-ME090423A,09		Interference Check Sample AB						10/20/09 00:26		
Silver		0.020	mg/L	0.0010	100	70	130			
Method: SW7470A								Analytical Run: SUB-B137425		
Sample ID: QCS		Initial Calibration Verification Standard						10/13/09 11:50		
Mercury		0.0019	mg/L	0.0010	94	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/20/09
 Work Order: H09100122

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_42040										
Sample ID: MB1-42040	5	Method Blank				Run: SUB-B137528				10/14/09 18:31
Arsenic		ND	mg/L	0.03						
Barium		0.2	mg/L	0.0002						
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Sample ID: LCS1-42040	5	Laboratory Control Sample				Run: SUB-B137528				10/14/09 18:35
Arsenic		0.498	mg/L	0.50	100	85	115			
Barium		5.91	mg/L	1.0	104	85	115			
Cadmium		0.250	mg/L	0.10	100	85	115			
Chromium		0.507	mg/L	0.50	101	85	115			
Lead		0.494	mg/L	0.50	99	85	115			
Sample ID: H09100122-002A	5	Serial Dilution				Run: SUB-B137528				10/14/09 20:49
Arsenic		1.86	mg/L	0.50		0	0	1.5		10
Barium		0.528	mg/L	1.0		0	0			10
Cadmium		ND	mg/L	0.10		0	0			10
Chromium		0.0869	mg/L	0.50		0	0			10 N
Lead		ND	mg/L	0.50		0	0			10
Sample ID: H09100122-002A	5	Sample Matrix Spike				Run: SUB-B137528				10/14/09 20:57
Arsenic		2.36	mg/L	0.50	106	75	125			
Barium		6.38	mg/L	1.0	106	75	125			
Cadmium		0.242	mg/L	0.10	97	75	125			
Chromium		0.581	mg/L	0.50	99	75	125			
Lead		0.334	mg/L	0.50	67	75	125			S
Sample ID: H09100122-002A	5	Sample Matrix Spike				Run: SUB-B137528				10/14/09 20:53
Arsenic		2.80	mg/L	0.50	97	75	125			
Barium		1.60	mg/L	1.0	104	75	125			
Cadmium		0.467	mg/L	0.10	93	75	125			
Chromium		1.05	mg/L	0.50	97	75	125			
Lead		0.797	mg/L	0.50	80	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/20/09
 Work Order: H09100122

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Batch: B_42040										
Sample ID: MB1-42040		Method Blank								Run: SUB-B137571 10/15/09 18:39
Selenium		7E-05	mg/L	2E-05						
Sample ID: MB2-42040		Method Blank								Run: SUB-B137571 10/15/09 18:44
Selenium		0.00010	mg/L	2E-05						
Sample ID: LCS1-42040		Laboratory Control Sample								Run: SUB-B137571 10/15/09 19:07
Selenium		0.524	mg/L	0.10	105	85	115			
Sample ID: H09100122-002A		Serial Dilution								Run: SUB-B137571 10/15/09 22:40
Selenium		0.00106	mg/L	0.10		0	0		10	N
Sample ID: H09100122-002A		Sample Matrix Spike								Run: SUB-B137571 10/15/09 22:45
Selenium		0.240	mg/L	0.10	96	75	125			
Sample ID: H09100122-002A		Sample Matrix Spike								Run: SUB-B137571 10/15/09 23:08
Selenium		0.540	mg/L	0.10	108	75	125			
Method: SW6020 Batch: B_42108										
Sample ID: MB1-42108		Method Blank								Run: SUB-B137705 10/20/09 00:53
Silver		0.0002	mg/L	2E-05						
Sample ID: LCS1-42108		Laboratory Control Sample								Run: SUB-B137705 10/20/09 00:58
Silver		0.0509	mg/L	0.50	101	85	115			
Sample ID: H09100122-002A		Serial Dilution								Run: SUB-B137705 10/20/09 05:03
Silver		ND	mg/L	0.50		0	0		10	
Sample ID: H09100122-002A		Sample Matrix Spike								Run: SUB-B137705 10/20/09 05:08
Silver		0.111	mg/L	0.50	111	75	125			
Sample ID: H09100122-002A		Sample Matrix Spike								Run: SUB-B137705 10/20/09 05:13
Silver		0.0522	mg/L	0.50	104	75	125			
Method: SW7470A Batch: B_42030										
Sample ID: MB1-42030		Method Blank								Run: SUB-B137425 10/13/09 14:24
Mercury		ND	mg/L	0.0005						
Sample ID: LCS1-42030		Laboratory Control Sample								Run: SUB-B137425 10/13/09 14:26
Mercury		0.010	mg/L	0.020	102	85	115			
Sample ID: B09100732-001CMS		Sample Matrix Spike								Run: SUB-B137425 10/13/09 15:04
Mercury		0.0093	mg/L	0.020	93	75	125			
Sample ID: H09100122-002A		Sample Matrix Spike								Run: SUB-B137425 10/13/09 15:14
Mercury		0.0095	mg/L	0.020	95	75	125			
Sample ID: B09100757-003ADIL		Serial Dilution								Run: SUB-B137425 10/13/09 15:23
Mercury		ND	mg/L	0.020		0	0		10	N

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

Energy Laboratories Inc

Workorder Receipt Checklist



H09100122

MT DEQ

Login completed by: Stephanie Dull

Date and Time Received: 10/8/2009 4:23 PM

Reviewed by: Amanda Blackburn

Received by: sld

Reviewed Date: 10/12/2009 5:19:00 PM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	16.3°C From Field		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark P.O. Box 200701 Helena, MT 59620		Contact Name: Pebbles Clark 844-5028 PCla.KZ@mt.gov		Email: PCla.KZ@mt.gov		Sampler: (Please Print)	
Invoice Address: Same as above		Invoice Contact & Phone: Same as above		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WW/MT <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	
Number of Containers Sample Type: AWSVB Air Water Solids Vegetation Bioassay Other		MATRIX		Normal Turnaround (TA) R U S H		Shipped by: Hand	
1 WC-SS-009 10/8/09 15:48 S		2 WC-SS-010 10/8/09 15:51 S		X X		Receipt Temp: 16.3 °C On Ice: Yes (No)	
3		4		5		Custody Seal Y N Bottles/ Coolers B C Intact Y N Signature Match Y N	
6		7		8		LABORATORY USE ONLY	
9		10		Received by (print): Stephen Bull 10-8-09 16:23 Received by (print): Signature:		Date/Time: Signature:	
Custody Record MUST be Signed		Relinquished by (print): Colin McCoy 10/8/09 16:23 Relinquished by (print): Signature:		Received by Laboratory: Date/Time:		Received by Laboratory: Date/Time:	
Sample Disposal: Return to Client: X Lab Disposal:		Signature:		Signature:		Signature:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

October 20, 2009

Pebbles Clark
MT DEQ
PO Box 200901
Helena, MT 59620-

Workorder No.: H09100149 Quote ID: H377 - Spring Meadow

Project Name: Spring Meadow Lake

Energy Laboratories Inc received the following 1 sample for MT DEQ on 10/13/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H09100149-001	WC-SS-011	10/13/09 11:28	10/13/09	Soil	Metals by ICP/ICPMS, Total Mercury, TCLP TCLP Extraction, Non-volatiles

BRANCH LABORATORY LOCATIONS

- eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
- eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
- eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
- eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
- eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
- eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By: *[Signature]*

RECEIVED

OCT 23 2009

Dept. of Environmental Quality
Remediation Division



LABORATORY ANALYTICAL REPORT

Client: MT DEQ
Project: Spring Meadow Lake
Lab ID: H09100149-001
Client Sample ID: WC-SS-011

Report Date: 10/20/09
Collection Date: 10/13/09 11:28
Date Received: 10/13/09
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6020	10/19/09 23:02 / eli-b
Barium	ND	mg/L		10	100	SW6010B	10/17/09 01:37 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	10/17/09 01:37 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	10/17/09 01:37 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	10/17/09 01:37 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/15/09 14:57 / eli-b2
Selenium	ND	mg/L		0.1	1	SW6020	10/19/09 23:02 / eli-b
Silver	ND	mg/L		0.5	5	SW6020	10/19/09 23:02 / eli-b

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/20/09
 Work Order: H09100149

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: SW6010B										Analytical Run: SUB-B137645	
Sample ID: QCS	4	Initial Calibration Verification Standard								10/16/09 12:51	
Barium		0.795	mg/L	0.10	99	90	110				
Cadmium		0.400	mg/L	0.010	100	90	110				
Chromium		0.809	mg/L	0.050	101	90	110				
Lead		0.777	mg/L	0.050	97	90	110				
Sample ID: ICSA	4	Interference Check Sample A								10/16/09 13:07	
Barium		0.000380	mg/L	0.10		-0.005	0.0005				
Cadmium		0.00655	mg/L	0.010		-0.001	0.001				
Chromium		2.00E-05	mg/L	0.050		-0.01	0.01				
Lead		-0.0867	mg/L	0.050		-0.01	0.01				
Sample ID: ICSAB	4	Interference Check Sample AB								10/16/09 13:11	
Barium		0.517	mg/L	0.10	103	80	120				
Cadmium		0.991	mg/L	0.010	99	80	120				
Chromium		0.498	mg/L	0.050	100	80	120				
Lead		0.915	mg/L	0.050	92	80	120				
Method: SW6020										Analytical Run: SUB-B137705	
Sample ID: QCS-090602A,090929	3	Initial Calibration Verification Standard								10/20/09 00:07	
Selenium		0.051	mg/L	0.0010	102	90	110				
Arsenic		0.050	mg/L	0.0010	99	90	110				
Silver		0.028	mg/L	0.0010	102	90	110				
Sample ID: QCS-090602A,090929	3	Initial Calibration Verification Standard								10/19/09 16:14	
Selenium		0.054	mg/L	0.0010	108	90	110				
Arsenic		0.050	mg/L	0.0010	101	90	110				
Silver		0.028	mg/L	0.0010	103	90	110				
Sample ID: ICSA-ME090423A	3	Interference Check Sample A								10/19/09 16:28	
Selenium		8.1E-05	mg/L	0.0010							
Arsenic		5.1E-05	mg/L	0.0010							
Silver		2.5E-05	mg/L	0.0010							
Sample ID: ICSAB-ME090423A,09	3	Interference Check Sample AB								10/19/09 16:32	
Selenium		0.010	mg/L	0.0010	102	70	130				
Arsenic		0.010	mg/L	0.0010	103	70	130				
Silver		0.020	mg/L	0.0010	98	70	130				
Method: SW7470A										Analytical Run: SUB-B137575	
Sample ID: QCS		Initial Calibration Verification Standard								10/15/09 11:57	
Mercury		0.0019	mg/L	0.0010	94	90	110				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/20/09
Work Order: H09100149

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										
Batch: B_42086										
Sample ID: MB-42086	4	Method Blank								
										Run: SUB-B137645
Barium		0.2	mg/L	0.0002						10/16/09 23:42
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Sample ID: LCS-42086	4	Laboratory Control Sample								
										Run: SUB-B137645
Barium		5.81	mg/L	1.0	102	85	115			10/16/09 23:46
Cadmium		0.243	mg/L	0.10	97	85	115			
Chromium		0.489	mg/L	0.50	98	85	115			
Lead		0.470	mg/L	0.50	94	85	115			
Sample ID: LCSD-42086	4	Laboratory Control Sample								
										Run: SUB-B137645
Barium		5.83	mg/L	1.0	102	85	115			10/16/09 23:50
Cadmium		0.250	mg/L	0.10	100	85	115			
Chromium		0.507	mg/L	0.50	101	85	115			
Lead		0.512	mg/L	0.50	102	85	115			
Sample ID: MB2-42086	4	Method Blank								
										Run: SUB-B137645
Barium		0.2	mg/L	0.0002						10/16/09 23:55
Cadmium		ND	mg/L	0.0007						
Chromium		ND	mg/L	0.003						
Lead		ND	mg/L	0.01						
Sample ID: LCS2-42086	4	Laboratory Control Sample								
										Run: SUB-B137645
Barium		5.77	mg/L	1.0	101	85	115			10/16/09 23:59
Cadmium		0.255	mg/L	0.10	102	85	115			
Chromium		0.515	mg/L	0.50	103	85	115			
Lead		0.484	mg/L	0.50	97	85	115			
Sample ID: LCSD2-42086	4	Laboratory Control Sample								
										Run: SUB-B137645
Barium		5.67	mg/L	1.0	99	85	115			10/17/09 00:03
Cadmium		0.244	mg/L	0.10	98	85	115			
Chromium		0.493	mg/L	0.50	99	85	115			
Lead		0.491	mg/L	0.50	98	85	115			
Sample ID: B09101012-001ADIL	4	Serial Dilution								
										Run: SUB-B137645
Barium		0.573	mg/L	1.0		0	0			10/17/09 01:24
Cadmium		0.0180	mg/L	0.10		0	0			10 N
Chromium		ND	mg/L	0.50		0	0			10
Lead		ND	mg/L	0.50		0	0			10
Sample ID: B09101012-001AMS2	4	Sample Matrix Spike								
										Run: SUB-B137645
Barium		1.58	mg/L	1.0	98	75	125			10/17/09 01:28
Cadmium		0.474	mg/L	0.10	91	75	125			
Chromium		0.953	mg/L	0.50	95	75	125			
Lead		0.687	mg/L	0.50	89	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/20/09
Work Order: H09100149

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: B_42086
Sample ID: B09101012-001AMS2	4	Sample Matrix Spike						Run: SUB-B137645		10/17/09 01:28
Sample ID: B09101012-001AMS5	4	Sample Matrix Spike						Run: SUB-B137645		10/17/09 01:32
Barium		6.34	mg/L	1.0	104	75	125			
Cadmium		0.251	mg/L	0.10	93	75	125			
Chromium		0.480	mg/L	0.50	96	75	125			
Lead		0.426	mg/L	0.50	85	75	125			
Sample ID: H09100149-001A	4	Sample Matrix Spike						Run: SUB-B137645		10/17/09 01:41
Barium		6.22	mg/L	1.0	102	75	125			
Cadmium		0.231	mg/L	0.10	92	75	125			
Chromium		0.552	mg/L	0.50	95	75	125			
Lead		0.422	mg/L	0.50	84	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: MT DEQ
Project: Spring Meadow Lake

Report Date: 10/20/09
Work Order: H09100149

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Batch: B_42086										
Sample ID: MB-42086	3	Method Blank								Run: SUB-B137705 10/19/09 19:07
Arsenic		0.0002	mg/L	2E-05						
Selenium		0.0001	mg/L	2E-05						
Silver		0.0001	mg/L	2E-05						
Sample ID: LCS-42086	3	Laboratory Control Sample								Run: SUB-B137705 10/19/09 19:12
Arsenic		0.464	mg/L	0.50	93	85	115			
Selenium		0.447	mg/L	0.10	89	85	115			
Silver		0.0488	mg/L	0.50	97	85	115			
Sample ID: LCSD-42086	3	Laboratory Control Sample								Run: SUB-B137705 10/19/09 19:16
Arsenic		0.497	mg/L	0.50	99	85	115			
Selenium		0.468	mg/L	0.10	94	85	115			
Silver		0.0512	mg/L	0.50	102	85	115			
Sample ID: MB2-42086	3	Method Blank								Run: SUB-B137705 10/19/09 19:25
Arsenic		0.0003	mg/L	2E-05						
Selenium		7E-05	mg/L	2E-05						
Silver		0.0002	mg/L	2E-05						
Sample ID: LCS2-42086	3	Laboratory Control Sample								Run: SUB-B137705 10/19/09 19:30
Arsenic		0.512	mg/L	0.50	102	85	115			
Selenium		0.475	mg/L	0.10	91	85	115			
Silver		0.0541	mg/L	0.50	108	85	115			
Sample ID: LCSD2-42086	3	Laboratory Control Sample								Run: SUB-B137705 10/19/09 19:35
Arsenic		0.497	mg/L	0.50	99	85	115			
Selenium		0.473	mg/L	0.10	90	85	115			
Silver		0.0524	mg/L	0.50	105	85	115			
Sample ID: H09100149-001A	3	Serial Dilution								Run: SUB-B137705 10/19/09 23:07
Arsenic		0.0839	mg/L	0.50		0	0		10	
Selenium		0.00665	mg/L	0.10		0	0		10	N
Silver		ND	mg/L	0.50		0	0		10	
Sample ID: H09100149-001A	3	Sample Matrix Spike								Run: SUB-B137705 10/19/09 23:11
Arsenic		0.331	mg/L	0.50	98	75	125			
Selenium		0.224	mg/L	0.10	89	75	125			
Silver		0.0999	mg/L	0.50	100	75	125			
Sample ID: H09100149-001A	3	Sample Matrix Spike								Run: SUB-B137705 10/19/09 23:16
Arsenic		0.599	mg/L	0.50	102	75	125			
Selenium		0.454	mg/L	0.10	91	75	125			
Silver		0.0531	mg/L	0.50	106	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Client: MT DEQ
 Project: Spring Meadow Lake

Report Date: 10/20/09
 Work Order: H09100149

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A										Batch: B_42078
Sample ID: MB1-42078		Method Blank								10/15/09 14:04
Mercury		ND	mg/L	0.0005						
Sample ID: LCS1-42078		Laboratory Control Sample								10/15/09 14:06
Mercury		0.010	mg/L	0.020	105	85	115			
Sample ID: LCS1D-42078		Laboratory Control Sample Duplicate								10/15/09 14:08
Mercury		0.011	mg/L	0.020	106	85	115		10	
Sample ID: B09101033-001AMS		Sample Matrix Spike								10/15/09 14:55
Mercury		0.0095	mg/L	0.020	95	75	125			
Sample ID: H09100149-001A		Serial Dilution								10/15/09 14:59
Mercury		ND	mg/L	0.020		0	0		10	N
Sample ID: H09100149-001A		Sample Matrix Spike								10/15/09 15:01
Mercury		0.011	mg/L	0.020	114	75	125			
Sample ID: MB2-42078		Method Blank								10/15/09 15:03
Mercury		ND	mg/L	0.0005						
Sample ID: LCS2-42078		Laboratory Control Sample								10/15/09 15:07
Mercury		0.0099	mg/L	0.020	99	85	115			
Sample ID: LCS2D-42078		Laboratory Control Sample Duplicate								10/15/09 15:09
Mercury		0.011	mg/L	0.020	113	85	115		10	

Qualifiers:

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ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

Energy Laboratories Inc

Workorder Receipt Checklist



H09100149

MT DEQ

Login completed by: Wanda Johnson

Date and Time Received: 10/13/2009 11:51 AM

Reviewed by: BL2000\sdull

Received by: rt

Reviewed Date: 10/14/2009 7:58:20 AM

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	15.9°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Spr MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadow Lake		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn Pebbles Clark PO Box 209001 Helena, MT 59601		Contact Name: Pebbles Clark		State: MT	
Invoice Address: Same as above		Phone/Fax: 841-5028		Email: PClark2@mt.gov	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		Number of Containers Air Water Soils/Solids Vegetation Bioassay Other		Normal Turnaround (TAT) SEE ATTACHED	
<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED		Comments: R U S H	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 WC-SS-011		Collection Date 10/13/09		Collection Time 11:28	
2		3		4	
5		6		7	
8		9		10	
Relinquished by (print): Colin M...		Signature:		Date/Time: 10/13/09 11:51	
Relinquished by (print):		Signature:		Date/Time:	
Sample Disposal:		Return to Client:		Lab Disposal:	
Custody Record MUST be Signed		Received by (print): RECEIVED JULIAN'S 10-13-09 11:51 AM		Signature:	
Shipped by: [Signature]		Receipt Temp: 15.9 °C		On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Cooler ID(s): NO COOLERS		Custody Seal: Y N Bottles: B C Coolers: Y N Intact: Y N Signature Match: Y N		Signature: [Signature]	
Shipped by: [Signature]		Receipt Temp: 15.9 °C		On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Cooler ID(s): NO COOLERS		Custody Seal: Y N Bottles: B C Coolers: Y N Intact: Y N Signature Match: Y N		Signature: [Signature]	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Spr. MT DEQ		Project Name, PWS, Permit, Etc. Spring Meadows Lake		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: Attn: Pebbles Clark PO Box 209001 Helena, MT 59601		Contact Name: Pebbles Clark		Phone/Fax: 841-5028		Email: PClarke2@mt.gov	
Invoice Address: same as above		Invoice Contact & Phone: same as above		Purchase Order:		Quote/Bottle Order:	
<input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: R U S H	
Special Report/Formats - ELI must be notified prior to sample submittal for the following:		Number of Containers Sample Type: AWS V B O Air Water Solids Other Vegetation Bioassay Other		Shipped by: Cooler ID(s): Receipt Temp: 15.0 °C On Ice: Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal Y <input type="checkbox"/> N <input type="checkbox"/> Bottles/ Coolers B <input type="checkbox"/> C <input type="checkbox"/> Intact Y <input type="checkbox"/> N <input type="checkbox"/> Signature Match Y <input type="checkbox"/> N <input type="checkbox"/>		LABORATORY USE ONLY	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) WIC-SS-011		Collection Date 10/12/09		Collection Time 11:28		MATRIX S	
1		2		3		4	
5		6		7		8	
9		10		11		12	
Relinquished by (print): Colin McCos		Date/Time: 10/13/09 11:51		Signature: 		Received by (print): Date/Time:	
Relinquished by (print):		Date/Time:		Signature:		Received by (print): Date/Time:	
Sample Disposal:		Return to Client:		Lab Disposal:		Relinquished by Laboratory: Date/Time:	
Custody Record MUST be Signed		Signature: 		Date/Time:		Signature: 	

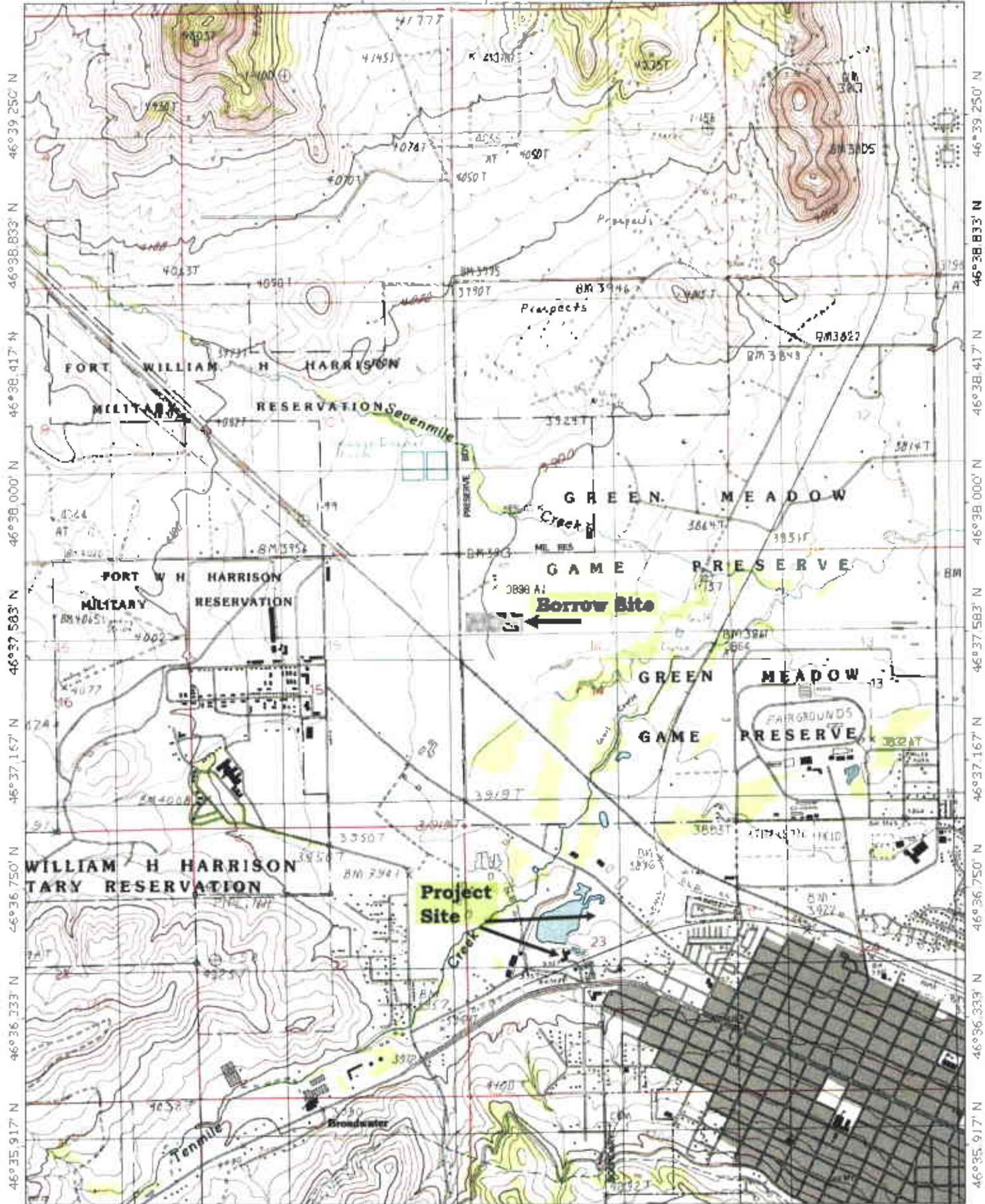
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APPENDIX K
MATERIAL SUBMITTALS

Cover Soil

TOPOI map printed on 07/10/09 from "MONTANA.TPO" and "Untitled.tpg"

112°06.667' W 112°06.083' W 112°05.500' W 112°04.917' W 112°04.333' W 112°03.750' W WGS84 112°02.750' W



46°39.250' N
46°38.833' N
46°38.417' N
46°38.000' N
46°37.583' N
46°37.167' N
46°36.750' N
46°36.333' N
46°35.917' N

46°39.250' N
46°38.833' N
46°38.417' N
46°38.000' N
46°37.583' N
46°37.167' N
46°36.750' N
46°36.333' N
46°35.917' N

112°06.667' W 112°06.083' W 112°05.500' W 112°04.917' W 112°04.333' W 112°03.750' W WGS84 112°02.750' W



0 100 FEET 500 1000 METERS

Spring Meadow Lake Reclamation Project. Mungas Co., Inc.

Friday, August 07, 2009



Ray Bennett
Mungas Company
P.O. Box 236
Phillipsburg, MT 59858

RE: SPRING MEADOWS RECLAIM

Work Order: 0907136

Dear Ray Bennett:

MSE Lab Services received 3 sample(s) on 7/17/2009 for the analyses presented in the following report.

Please find enclosed analytical results for the sample(s) received at the MSE Laboratory.

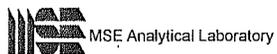
If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads 'Marcee Cameron'.

Marcee Cameron
Laboratory Director/ Chemist
406-494-7371

Enclosure



P.O. Box 4078
200 Technology Way
Butte, MT 59701

Lab: 406-494-7334
Fax: 406-494-7230
labinfo@mse-ta.com

E-MAILED
8/7 MC

MSE Lab Services

Date: 07-Aug-09

CLIENT: Mungas Company
Lab Order: 0907136
Project: SPRING MEADOWS RECLAIM
Lab ID: 0907136-001

Client Sample ID: 1
Collection Date:
Matrix: SOIL

Analyses	Result	Limit	Qualifier	Units	DF	Date Analyzed
ICP-MS METALS, SOLID SAMPLES		SW6020		E200.2		Analyst: SW
Arsenic	18.2	0.320		mg/Kg-dry	2	8/2/2009
Cadmium	0.774	0.021		mg/Kg-dry	2	8/2/2009
Copper	26.2	0.267		mg/Kg-dry	2	8/2/2009
Lead	33.3	0.043		mg/Kg-dry	2	7/29/2009
Manganese	537	0.064		mg/Kg-dry	2	7/27/2009
Zinc	67.6	0.640		mg/Kg-dry	2	8/2/2009
ELECTRICAL CONDUCTIVITY - SOILS		MSA10-2.3.1/10-3.3				Analyst: BO
EC	903.0	1.0		µmhos/cm	1	7/22/2009
PH (SATURATION EXTRACT)		MSA10-2.3.1/10-3.2				Analyst: BO
pH (saturation extract)	7.91	0.10		SU	1	7/22/2009
RAPID HYDROMETER (2 HOUR) MOD ASA 15-5		MSA15-5				Analyst: bo/dk
% Clay	18.0	0.1		%	1	7/22/2009
% Sand	44.0	0.1		%	1	7/22/2009
% Silt	38.0	0.1		%	1	7/22/2009
Soil Class	LOAM				1	7/22/2009

Wm **Review**

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

MSE Lab Services

Date: 07-Aug-09

CLIENT: Mungas Company
Lab Order: 0907136
Project: SPRING MEADOWS RECLAIM
Lab ID: 0907136-002

Client Sample ID: 2
Collection Date:
Matrix: SOIL

Analyses	Result	Limit	Qualifier	Units	DF	Date Analyzed
ICP-MS METALS, SOLID SAMPLES		SW6020		E200.2		Analyst: SW
Arsenic	17.3	0.321		mg/Kg-dry	2	8/2/2009
Cadmium	0.773	0.021		mg/Kg-dry	2	8/2/2009
Copper	26.0	0.268		mg/Kg-dry	2	8/2/2009
Lead	36.7	0.043		mg/Kg-dry	2	7/29/2009
Manganese	533	0.064		mg/Kg-dry	2	7/27/2009
Zinc	67.4	0.643		mg/Kg-dry	2	8/2/2009
ELECTRICAL CONDUCTIVITY - SOILS		MSA10-2.3.1/10-3.3				Analyst: BO
EC	1273	1.0		µmhos/cm	1	7/22/2009
PH (SATURATION EXTRACT)		MSA10-2.3.1/10-3.2				Analyst: BO
pH (saturation extract)	8.37	0.10		SU	1	7/22/2009
RAPID HYDROMETER (2 HOUR) MOD ASA 15-5		MSA15-5				Analyst: bo/dk
% Clay	18.0	0.1		%	1	7/22/2009
% Sand	36.0	0.1		%	1	7/22/2009
% Silt	46.0	0.1		%	1	7/22/2009
Soil Class	LOAM				1	7/22/2009

hmm **Review**

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

MSE Lab Services

Date: 07-Aug-09

CLIENT: Mungas Company
Lab Order: 0907136
Project: SPRING MEADOWS RECLAIM
Lab ID: 0907136-003

Client Sample ID: 3
Collection Date:
Matrix: SOIL

Analyses	Result	Limit	Qualifier	Units	DF	Date Analyzed
ICP-MS METALS, SOLID SAMPLES		SW6020		E200.2		Analyst: SW
Arsenic	23.6	0.352		mg/Kg-dry	2	8/2/2009
Cadmium	0.697	0.023		mg/Kg-dry	2	8/2/2009
Copper	25.2	0.294		mg/Kg-dry	2	8/2/2009
Lead	31.2	0.047		mg/Kg-dry	2	7/29/2009
Manganese	413	0.070		mg/Kg-dry	2	7/27/2009
Zinc	64.8	0.705		mg/Kg-dry	2	8/2/2009
ELECTRICAL CONDUCTIVITY - SOILS		MSA10-2.3.1/10-3.3				Analyst: BO
EC	924.0	1.0		µmhos/cm	1	7/22/2009
PH (SATURATION EXTRACT)		MSA10-2.3.1/10-3.2				Analyst: BO
pH (saturation extract)	7.98	0.10		SU	1	7/22/2009
RAPID HYDROMETER (2 HOUR) MOD ASA 15-5		MSA15-5				Analyst: bo/dk
% Clay	22.0	0.1		%	1	7/22/2009
% Sand	44.0	0.1		%	1	7/22/2009
% Silt	34.0	0.1		%	1	7/22/2009
Soil Class	LOAM				1	7/22/2009

 **Review**

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

QA/QC SUMMARY REPORT

Client: Mungas Company
Project: SPRING MEADOWS RECLAIM

Work Order: 0907136
BatchID: 2556

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 2556-PB-UNFILTERED</i>										
Manganese	ND	0.030	mg/Kg							
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										
<i>Sample ID: 2556-PB-FILTERED</i>										
Manganese	ND	0.030	mg/Kg							
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										
<i>Sample ID: 2556-LCS</i>										
Manganese	636	0.030	mg/Kg	540.9	118	80	120			
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										
<i>Sample ID: 0907136-001A MS</i>										
Manganese	947	0.064	mg/Kg-dry	579.3	70.7	75	125			S
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										
<i>Sample ID: 0907136-001A MSD</i>										
Manganese	1080	0.064	mg/Kg-dry	583.0	92.2	75	125	12.7	20	
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										
<i>Sample ID: 0907136-001A MST</i>										
Manganese	1030	0.064	mg/Kg-dry	585.9	84.6	75	125	8.69	20	
<i>Method: SW6020 Batch ID: 2556 Analysis Date: 7/27/2009</i>										

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company
Project: SPRING MEADOWS RECLAIM

Work Order: 0907136
BatchID: R10170

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 0907140-001A DUP</i>										
				<i>Method: MSA15-5</i>		<i>Batch ID: R10170</i>		<i>Analysis Date: 7/22/2009</i>		
% Clay	22.0	0.1	%					8.70	35	
% Sand	56.0	0.1	%					0	35	
% Silt	22.0	0.1	%					9.52	35	
Soil Class	SNDY CLY LM									

<i>Sample ID: BLANK</i>										
				<i>Method: MSA15-5</i>		<i>Batch ID: R10170</i>		<i>Analysis Date: 7/22/2009</i>		
% Clay	ND	0.1	%							
% Sand	ND	0.1	%							
% Silt	ND	0.1	%							
Soil Class	ND									

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company
Project: SPRING MEADOWS RECLAIM

Work Order: 0907136
BatchID: R10198

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 0907140-001A DUP</i>										
EC	33400	1.0	µmhos/cm					5.25	20	
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										
<i>Sample ID: BLANK-EC</i>										
EC	0.1	1.0	µmhos/cm							
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										
<i>Sample ID: SC STND Q5622</i>										
EC	1419	1.0	µmhos/cm	1413	100	80	120			
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										
<i>Sample ID: 0907140-001A DUP</i>										
pH (saturation extract)	7.28	0.10	SU					0.137	35	
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										
<i>Sample ID: BLANK-PH</i>										
pH (saturation extract)	7.75	0.10	SU							
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										
<i>Sample ID: PH-LCS Q5228</i>										
pH (saturation extract)	8.00	0.10	SU	8.000	100	80	120			
<i>Method: MSA10-2.3.1/ Batch ID: R10198 Analysis Date: 7/22/2009</i>										

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits



Invoice No: 0907136

REMIT TO: MSE Lab Services
Accounts Receivable
P.O. Box 4078
Butte, MT 59702
TEL: (406) 494-7177

INVOICE

INV DATE: August 07, 2009
Print DATE: August 07, 2009

Invoice TO: Mungas Company
P.O. Box 236
Phillipsburg, MT 59858

PO Number:

Attn: Ray Bennett
Phone: (406) 439-9034

Date Reported: 8/7/2009

Work Order: 0907136 Order Name SPRING MEADOWS RECLAIM

Date Received 7/17/2009

Item	Remarks	Matrix	Qty	Unit Price	Mult	Quoted	Test Total
ELECTRICAL CONDUCTIVITY - SOILS		Soil	3	\$16.00		\$16.00	\$48.00
ICP-MS METALS, SOLID SAMPLES		Solid	3	\$180.00	0.4	\$72.00	\$216.00
pH (Saturation Extract)		Soil	3	\$16.00		\$16.00	\$48.00
Rapid Hydrometer (2 Hour) Mod ASA 15-5		Soil	3	\$30.00		\$30.00	\$90.00
SAMPLE PREP - DRYING AND SIEVING		Solid	3	\$5.00		\$5.00	\$15.00
SW846 METHOD 3050B PREP - ICPMS		Solid	3	\$15.00		\$15.00	\$45.00

Subtotal: \$462.00

Misc Charges: \$0.00

INVOICE Total: \$462.00

Friday, August 28, 2009



Ray Bennett
Mungas Company
P.O. Box 236
Phillipsburg, MT 59858

RE:

Work Order: 0908084

Dear Ray Bennett:

MSE Lab Services received 3 sample(s) on 7/17/2009 for the analyses presented in the following report.

Please find enclosed analytical results for the sample(s) received at the MSE Laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads 'Marcee Cameron'.

Marcee Cameron
Laboratory Director/ Chemist
406-494-7371

Enclosure



P.O. Box 4078
200 Technology Way
Butte, MT 59701

Lab: 406-494-7334
Fax: 406-494-7230
labinfo@mse-la.com

E-MAILED
9/1 NY

MSE Lab Services

Date: 28-Aug-09

CLIENT: Mungas Company
 Lab Order: 0908084
 Project:
 Lab ID: 0908084-001

Client Sample ID: 1
 Collection Date:

Matrix: SOIL

Analyses	Result	MDL	Rpt Limit	Qualifier	Units	DF	Date Analyzed
AVAILABLE POTASSIUM				MSA13-3.3.1	MSA33-8.3		Analyst: js
Available Potassium	575	0.3	2.2		mg/Kg-dry	2	8/25/2009
AVAILABLE NITROGEN				MSA33-8.3	MSA33-8.3		Analyst: kgw
Nitrogen, Nitrate-Nitrite	10.5	0.500	2.50		mg/Kg	5	8/24/2009
AVAILABLE PHOSPHORUS				MSA24-5.4.1	MSA24-5.4.1		Analyst: js
Available Phosphorus	6.8	0.2	1.1		mg/Kg-dry	2	8/25/2009
ORGANIC MATTER-WALKLEY BLACK				OM_WALKLEYBLACK			Analyst: YF
Organic Matter - Walkley Black	3.02	0.03	0.05		%	1	8/19/2009
PERCENT SATURATION				USDA-27A			Analyst: SW
Percent Saturation	53.4		0.1		%	1	8/28/2009
PERCENT COARSE MATERIAL				ASTMD422			Analyst: bo/dk
1" Gradation	ND		0.05		%	1	8/18/2009
2mm Gradation	0.14		0.05		%	1	8/18/2009
SODIUM ADSORPTION RATIO				OBM-SAR	OBM-SAR		Analyst: js
Sodium Adsorption Ratio	0.55	0.01	0.04			1	8/27/2009

 Review

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

MSE Lab Services

Date: 28-Aug-09

CLIENT: Mungas Company
 Lab Order: 0908084
 Project:
 Lab ID: 0908084-002

Client Sample ID: 2
 Collection Date:

Matrix: SOIL

Analyses	Result	MDL	Rpt Limit	Qualifier	Units	DF	Date Analyzed
AVAILABLE POTASSIUM			MSA13-3.3.1	MSA33-8.3			Analyst: js
Available Potassium	514	0.3	2.2		mg/Kg-dry	2	8/25/2009
AVAILABLE NITROGEN			MSA33-8.3	MSA33-8.3			Analyst: kgw
Nitrogen, Nitrate-Nitrite	10.5	0.500	2.50		mg/Kg	5	8/24/2009
AVAILABLE PHOSPHORUS			MSA24-5.4.1	MSA24-5.4.1			Analyst: js
Available Phosphorus	4.6	0.2	1.1		mg/Kg-dry	2	8/25/2009
ORGANIC MATTER-WALKLEY BLACK			OM_WALKLEYBLACK				Analyst: YF
Organic Matter - Walkley Black	2.77	0.03	0.05		%	1	8/19/2009
PERCENT SATURATION			USDA-27A				Analyst: SW
Percent Saturation	51.0		0.1		%	1	8/28/2009
PERCENT COARSE MATERIAL			ASTMD422				Analyst: bo/dk
1" Gradation	0.05		0.05		%	1	8/18/2009
2mm Gradation	0.36		0.05		%	1	8/18/2009
SODIUM ADSORPTION RATIO			OBM-SAR	OBM-SAR			Analyst: js
Sodium Adsorption Ratio	7.2	0.01	0.04			1	8/27/2009

SW Review

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

MSE Lab Services

Date: 28-Aug-09

CLIENT: Mungas Company
 Lab Order: 0908084
 Project:
 Lab ID: 0908084-003

Client Sample ID: 3
 Collection Date:

Matrix: SOIL

Analyses	Result	MDL	Rpt Limit	Qualifier	Units	DF	Date Analyzed
AVAILABLE POTASSIUM			MSA13-3.3.1	MSA33-8.3			Analyst: js
Available Potassium	448	0.3	2.4		mg/Kg-dry	2	8/25/2009
AVAILABLE NITROGEN			MSA33-8.3	MSA33-8.3			Analyst: kgw
Nitrogen, Nitrate-Nitrite	6.54	0.500	2.50		mg/Kg	5	8/24/2009
AVAILABLE PHOSPHORUS			MSA24-5.4.1	MSA24-5.4.1			Analyst: js
Available Phosphorus	4.7	0.2	1.2		mg/Kg-dry	2	8/25/2009
ORGANIC MATTER-WALKLEY BLACK			OM_WALKLEYBLACK				Analyst: YF
Organic Matter - Walkley Black	2.77	0.03	0.05		%	1	8/19/2009
PERCENT SATURATION			USDA-27A				Analyst: SW
Percent Saturation	54.1		0.1		%	1	8/28/2009
PERCENT COARSE MATERIAL			ASTMD422				Analyst: bo/dk
1" Gradation	ND		0.05		%	1	8/18/2009
2mm Gradation	0.14		0.05		%	1	8/18/2009
SODIUM ADSORPTION RATIO			OBM-SAR	OBM-SAR			Analyst: js
Sodium Adsorption Ratio	0.70	0.01	0.04			1	8/27/2009

 Review

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the Reporting Limit	Limit	Instrument Reporting Limit
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit (MDL)

QA/QC SUMMARY REPORT

Client: Mungas Company
Project:

Work Order: 0908084
BatchID: 2627

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 2627 SAR BLANK</i>										
Sodium Adsorption Ra	ND	0.04								
<i>Method: OBM-SAR Batch ID: 2627 Analysis Date: 8/27/2009</i>										
<i>Sample ID: LCS @INST</i>										
Sodium Adsorption Ra	0.23	0.04		0.2429	93.2	80	120			
<i>Method: OBM-SAR Batch ID: 2627 Analysis Date: 8/27/2009</i>										
<i>Sample ID: 0908084-001A DUP</i>										
Sodium Adsorption Ra	0.54	0.04						2.13	35	

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company
Project:

Work Order: 0908084
BatchID: 2630

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 2630-PB</i>										
Nitrogen, Nitrate-Nitrit	ND	0.500	mg/Kg							
<i>Method: MSA33-8.3 Batch ID: 2630 Analysis Date: 8/24/2009</i>										
<i>Sample ID: 2630-PB</i>										
Nitrogen, Nitrate-Nitrit	ND	0.500	mg/Kg							
<i>Method: MSA33-8.3 Batch ID: 2630 Analysis Date: 8/24/2009</i>										
<i>Sample ID: 2630-LCS</i>										
Nitrogen, Nitrate-Nitrit	330	5.00	mg/Kg	380.0	86.8	80	120			
<i>Method: MSA33-8.3 Batch ID: 2630 Analysis Date: 8/24/2009</i>										
<i>Sample ID: 0908075-001A DUP</i>										
Nitrogen, Nitrate-Nitrit	9.22	2.50	mg/Kg					0.326	35	
<i>Method: MSA33-8.3 Batch ID: 2630 Analysis Date: 8/24/2009</i>										

 **Review**

Qualifiers: s Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company **Work Order:** 0908084
Project: **BatchID:** 2631

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 2631-BLANK-FILTERED</i>										
Available Potassium	ND	2.0	mg/Kg							
<i>Method: MSA13-3.3.1 Batch ID: 2631 Analysis Date: 8/25/2009</i>										
<i>Sample ID: 2631-BLANK-UNFILTERED</i>										
Available Potassium	ND	2.0	mg/Kg							
<i>Method: MSA13-3.3.1 Batch ID: 2631 Analysis Date: 8/25/2009</i>										
<i>Sample ID: LCS @INST</i>										
Available Potassium	1.8	1.0	mg/L	2.000	91.6	80	120			
<i>Method: MSA13-3.3.1 Batch ID: 2631 Analysis Date: 8/25/2009</i>										
<i>Sample ID: 0908075-001A DUP</i>										
Available Potassium	104	2.2	mg/Kg-dry					4.11	35	
<i>Method: MSA13-3.3.1 Batch ID: 2631 Analysis Date: 8/25/2009</i>										

SW
Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits



MSE Analytical Laboratory

P.O. Box 4078
200 Technology Way
Butte, MT 59701

Lab: 406-494-7334
Fax: 406-494-7230
labinfo@mse-ta.com

Date: 28-Aug-09
Report Date: 28-Aug-09

QA/QC SUMMARY REPORT

Client: Mungas Company
Project:

Work Order: 0908084
BatchID: 2632

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 2632-BLANK-FILTERED</i>										
Available Phosphorus	0.8	1.0	mg/Kg							J
<i>Sample ID: 2632-BLANK-UNFILTERED</i>										
Available Phosphorus	0.9	1.0	mg/Kg							J
<i>Sample ID: LCS @INST</i>										
Available Phosphorus	1.9	0.5	mg/L	2.000	96.2	80	120			
<i>Sample ID: 0908075-001A DUP</i>										
Available Phosphorus	4.4	1.1	mg/Kg-dry					25.2	35	

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company
Project:

Work Order: 0908084
BatchID: R10458

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<i>Sample ID: 0908065-009AD</i>										
Organic Matter - Walkl	1.69	0.05	%					1.77	35	
<i>Method: OM_WALKLE Batch ID: R10458 Analysis Date: 8/19/2009</i>										
<i>Sample ID: LCS</i>										
Organic Matter - Walkl	1.29	0.05	%	1.383	93.5	80	120			
<i>Method: OM_WALKLE Batch ID: R10458 Analysis Date: 8/19/2009</i>										
<i>Sample ID: ABLANK</i>										
Organic Matter - Walkl	ND	0.05	%							

 Review

Qualifiers: S Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Mungas Company
Project:

Work Order: 0908084
BatchID: R10575

Analyte	Result	RL	Units	Spike Lvl	% Rec	Low Limit	High Limit	RPD	RPD Limit	Qualifier
<hr/>										
<i>Sample ID: 0908084-001A D</i>										
<i>Method: USDA-27A</i>										
<i>Batch ID: R10575</i>										
<i>Analysis Date: 8/28/2009</i>										
Percent Saturation	52.4	0.1	%							


Review

Qualifiers: s Spike Recovery outside accepted recovery limits R RPD outside accepted recovery limits



CEMENT TEST REPORT

Mill Test Report Number:	R-TI-09-06
YEAR:	2009
MONTH:	JUNE
PLANT:	Richmond
CEMENT TYPE:	ASTM Type I / II, AASHTO Type I
Data represents cement produced during:	1 June 2009 to 30 June 2009

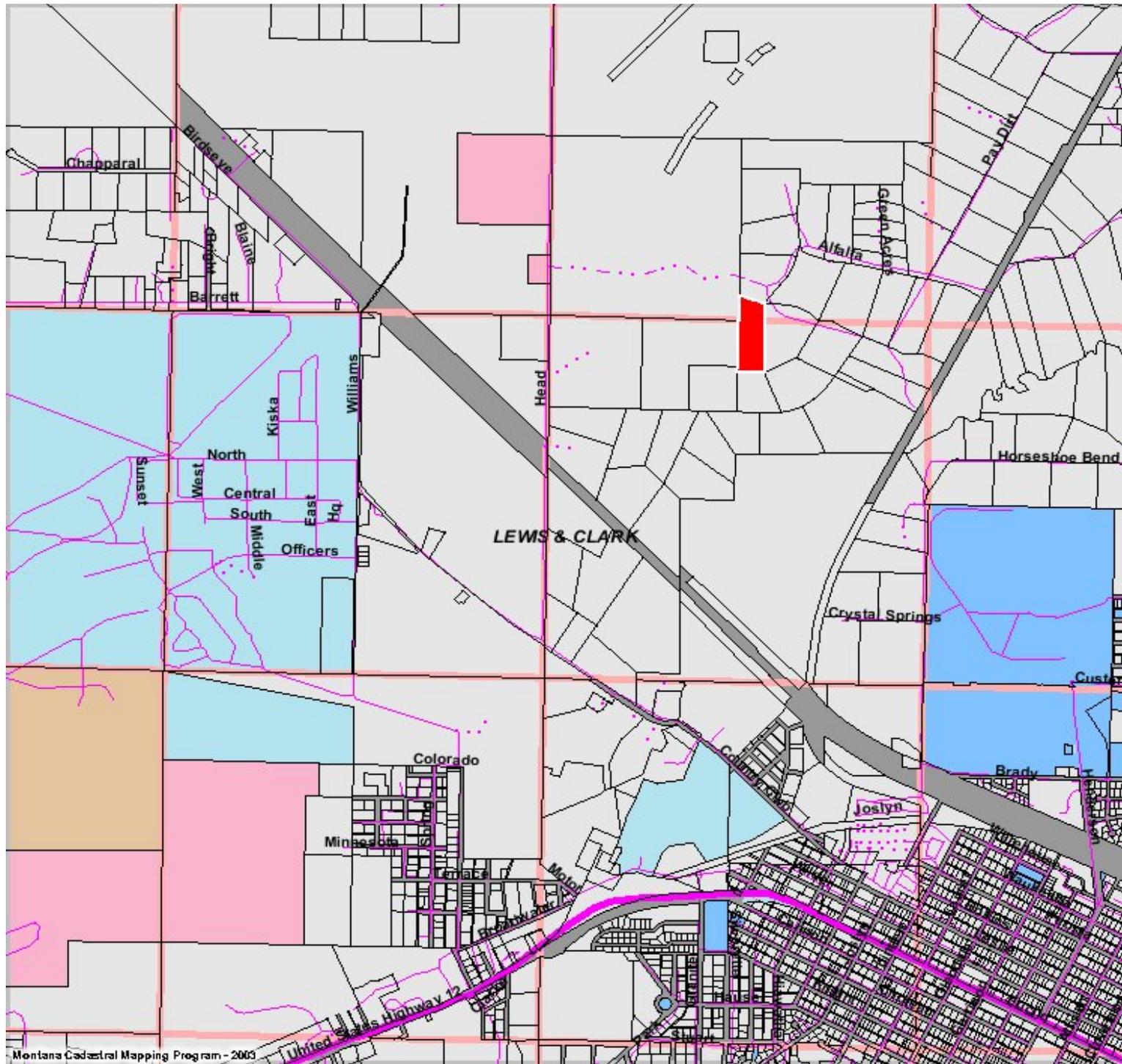
PHYSICAL DATA	CHEMICAL ANALYSIS	Percent												
<p>Fineness by Air Permeability 389 <i>(m²/kg; ASTM C204)</i></p> <p>Fineness by 45 um (No. 325) Sieve 97.7 <i>(% passing)</i></p> <p>Compressive Strength <i>(ASTM C109 / C109M)</i></p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Mpa</td> <td style="text-align: center;">psi</td> </tr> <tr> <td>3-day</td> <td style="text-align: center;">30.6</td> <td style="text-align: center;">4440</td> </tr> <tr> <td>7-day</td> <td style="text-align: center;">38.5</td> <td style="text-align: center;">5580</td> </tr> <tr> <td>28-day</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> <p>Previous Month 28-day Strength 47.6 6910</p> <p>Time of Set, Vicat 103 <i>(initial minutes; ASTM C191)</i></p> <p>Autoclave Expansion (%; ASTM C151) -0.01</p> <p>Air Content (%; ASTM C185) 5</p> <p>Colour (Lafarge Index) 30</p>		Mpa	psi	3-day	30.6	4440	7-day	38.5	5580	28-day	0	0	<p>Silica Dioxide (%SiO₂; ASTM C114) 19.8</p> <p>Aluminum Oxide (%Al₂O₃; ASTM C114) 4.5</p> <p>Ferric Oxide (%Fe₂O₃; ASTM C114) 3.4</p> <p>Calcium Oxide (%CaO; ASTM C114) 64.7</p> <p>Magnesium Oxide (%MgO; ASTM C114) 0.8</p> <p>Sulphur Trioxide (%SO₃; ASTM C114) 2.7</p> <p>Loss on Ignition (%L.O.I.; ASTM C114) 2.6</p> <p style="margin-left: 20px;">CO₂ (%CO₂; ASTM C114) 1.9</p> <p style="margin-left: 20px;">Limestone (%; ASTM C114) 3.4</p> <p style="margin-left: 20px;">CaCO₃ in Limestone (%; ASTM C114) 98.5</p> <p style="margin-left: 20px;">Insoluble Residue (%; ASTM C114) 0.04</p> <p style="margin-left: 20px;">Free Lime (%f-CaO) 1.2</p> <p>Tricalcium Silicate (%C₃S; ASTM C150) 60</p> <p>Tricalcium Aluminate (%C₃A; ASTM C150) 6</p> <p>Total Alkali as Sodium Oxide (%NaEq; ASTM C150) 0.47</p>	
	Mpa	psi												
3-day	30.6	4440												
7-day	38.5	5580												
28-day	0	0												

Certified by:

Harold Ptachyk
Quality Manager

This cement complies with current ASTM C 150 specifications
This mill test represents a monthly average of bulk shipping cement samples.

Montana Cadastral Mapping Project





201 East Broadway, Suite C
Helena, Montana 59601

Phone (406)457-8252 Fax (406)442-1158
www.pioneer-technical.com

May 21, 2009

Mr. Kim Smith
Valley Excavating
7510 Applegate Drive
Helena, MT 59602

Approved Grade 2
Base Course

Mary [Signature]

10/30/2009

RE: Valley Excavating Materials Testing
Pioneer Technical Services Project No. 11792

Dear Kim,

On May 15th, 2009 a sample of 1 1/2 - inch minus Crushed Base Course (CBC) was delivered to our ASTM/AASHTO accredited materials testing laboratory. At your request the sample was tested for:

- Sieve Analysis of Coarse and Fine Aggregate (AASHTO T-11, T-27)
- Percentage of Fractured Particles in Coarse Aggregate (ASTM D5821)

The purpose of the testing was to determine if the material meets the Montana Department of Transportation Standard Specifications for Road and Bridge Construction, Section 701.02.4 CBC Type "A" Grade 5A and 6A requirements. The results of testing with comparison to the specified requirements are displayed in the following tables.

Table 1 - Grain Size Analysis

			Percent Passing			
Sieve Size (mm)	Sieve Size	Lab No. 7616	Grade 5A		Grade 6A	
			Job Mix Target Limits	Job Mix Tolerance	Job Mix Target Limits	Job Mix Tolerance
50	2"	100	100			
37.5	1.5"	100	97	± 3	100	OK OK
25	1"	90				
19	3/4"	80	78-80	± 8	82-88	± 8
12.5	1/2"	66				
9.5	3/8"	59	58-62	± 8	52-64	± 12
4.75	# 4	44	42-50	± 8	36-48	± 12 OK 25-55
2	# 10	32				
0.85	# 20	22				
0.425	# 40	14	14-22	± 8	16-24	± 10 #200 < 2/5
0.25	# 60	9				
0.15	# 100	7				OK
0.075	# 200	6.1	3-5	± 3	3-5	± 3 Max 8

Lab No. 7616 falls within the CBC job mix tolerances for Grade 5A and Grade 6A.

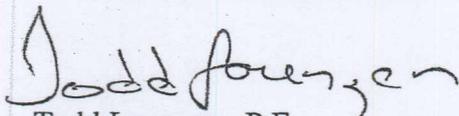
Table 2 - Fractured particles in Coarse Aggregate (by mass)

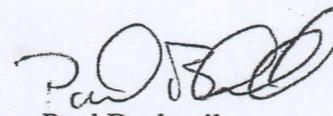
	Mass of Test Sample (g)	1 or More (%)	2 or More (%)
Lab Sample Number 7616	7502.3	68.6	49.3
Grade 5 A Requirement	---	35 Minimum	---
Grade 6 A Requirement	---	25 Minimum	---

Lab No. 7616 meets the fractured face requirements for Grade 5A and Grade 6A.

The gradation curve is included with this report. We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.


Todd Lorenzen, P.E.
Senior Geotechnical Engineer


Paul Bushnell
Materials Testing Supervisor



201 East Broadway, Suite C
Helena, Montana 59601

Phone (406)457-8252 Fax (406)442-1158
www.pioneer-technical.com

May 14, 2009

Mr. Kim Smith
Valley Excavating
7510 Applegate Drive
Helena, MT 59602

**RE: Valley Excavating Materials Testing
Pioneer Technical Services Project No. 11792**

Dear Kim,

On May 13th, 2009 you delivered a sample of 1 ½ - inch minus Crushed Base Course (CBC) to our ASTM/AASHTO accredited materials testing laboratory. At your request the sample was tested for:

- Sieve Analysis of Coarse and Fine Aggregate (AASHTO T-11, T-27)
- Liquid and Plastic Limits (AASHTO T-89, T-90; dry preparation method).

The purpose of the testing was to determine if the material meets the Montana Department of Transportation Standard Specifications for Road and Bridge Construction, Section 701.02.4 CBC Type "A" Grade 5A and 6A requirements. The results of testing with comparison to the specified requirements are displayed in Table 1.

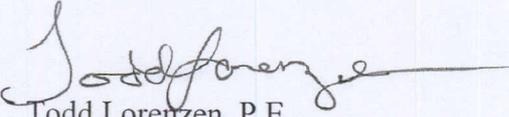
Table 1 – Grain Size Analysis

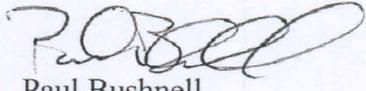
Sieve Size (mm)	Sieve Size	Lab No. 7614	Percent Passing			
			Grade 5A		Grade 6A	
			Job Mix Target Limits	Job Mix Tolerance	Job Mix Target Limits	Job Mix Tolerance
50	2"	100	100			
37.5	1.5"	100	97	± 3	100	
25	1"	88				
19	3/4"	75	78-80	± 8	82-88	± 8
12.5	1/2"	59				
9.5	3/8"	52	58-62	± 8	52-64	± 12
4.75	# 4	36	42-50	± 8	36-48	± 12
2	# 10	25				
0.85	# 20	17				
0.425	# 40	11	14-22	± 8	16-24	± 10
0.25	# 60	8				
0.15	# 100	6				
0.075	# 200	5.1	3-5	± 3	3-5	± 3

Lab No. 7614 falls within the CBC job mix tolerances for Grade 5A and Grade 6A. The liquid and plastic limits testing found the material to be non-plastic which also meets the CBC requirements.

The gradation curve is included with this report. We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.


Todd Lorenzen, P.E.
Senior Geotechnical Engineer


Paul Bushnell
Materials Testing Supervisor



PIONEER
TECHNICAL SERVICES, INC.

201 East Broadway, Suite C
Helena, Montana 59601

Phone (406)457-8252 Fax (406)442-1158
www.pioneer-technical.com

May 26, 2009

Mr. Kim Smith
Valley Excavating
7510 Applegate Drive
Helena, MT 59602

RE: Valley Excavating Materials Testing
Pioneer Technical Services Project No. 11792

Dear Kim,

On May 21st, 2009 a sample of 1 ½ - inch minus Crushed Base Course (CBC) was delivered to our ASTM/AASHTO accredited materials testing laboratory. At your request the sample was tested for:

- Proctor Moisture/Density Relationships (AASHTO T-99 Method D).

The Proctor values were corrected for oversized particles in accordance with AASHTO T-224 using an assumed 2.60 specific gravity.

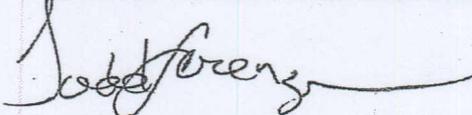
The purpose of the testing was to determine a laboratory maximum dry density and optimum moisture for verification of field density testing. Table 1 displays the results of testing performed.

Table 1 – Proctor Moisture/Density Relationships

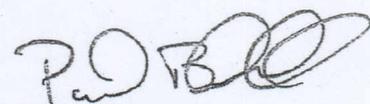
Lab Sample Number	Material Description	Corrected Maximum Dry Density (lb/ft ³)	Corrected Optimum Moisture (%)	Percent Oversized Material (+ 3/4")
7633	Well Graded Gravel with Silt and Sand	135.0	7.7	19.8

The Proctor curve is included with this report. We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.

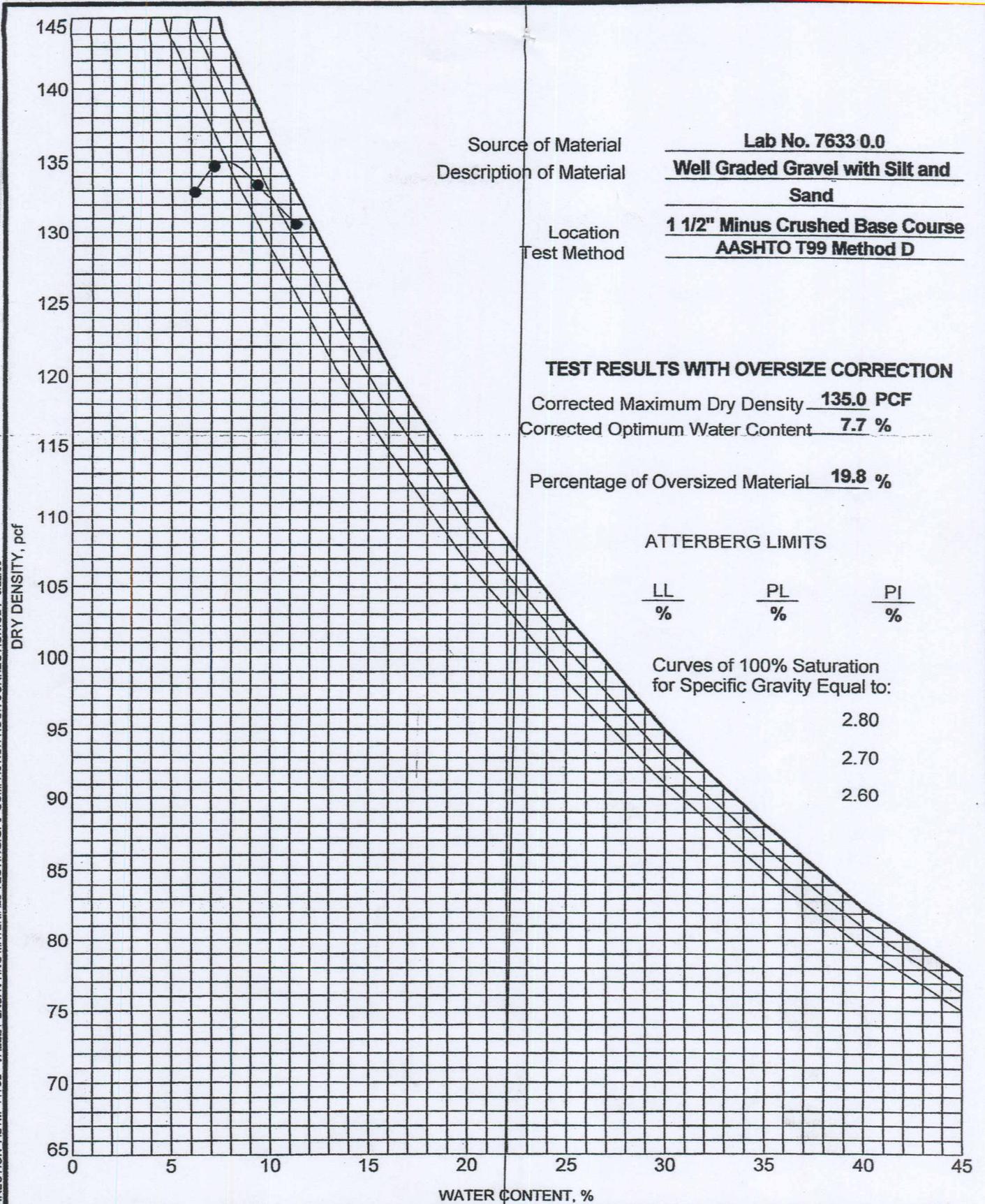


Todd Lorenzen, P.E.
Senior Geotechnical Engineer



Paul Bushnell
Materials Testing Supervisor

COMPACTION ROCK CORRECTION ASTM 11792 - VALLEY EXCAVATING MATERIALS TESTING.GPJ COMPACTION ROCK CORRECTION.GDT 5/22/09



Source of Material
 Description of Material
 Location
 Test Method

Lab No. 7633 0.0
Well Graded Gravel with Silt and Sand
1 1/2" Minus Crushed Base Course
AASHTO T99 Method D

TEST RESULTS WITH OVERSIZE CORRECTION

Corrected Maximum Dry Density 135.0 PCF
 Corrected Optimum Water Content 7.7 %
 Percentage of Oversized Material 19.8 %

ATTERBERG LIMITS

LL %	PL %	PI %

Curves of 100% Saturation for Specific Gravity Equal to:

- 2.80
- 2.70
- 2.60



MOISTURE-DENSITY RELATIONSHIP

Project: Valley Excavating Material Testing
 Number: 11792



201 East Broadway, Suite C
Helena, Montana 59601

Phor

158

LA
3/4 + 1 1/2

June 23, 2009

Mr. Kim Smith
Valley Sand & Gravel
7510 Applegate Drive
Helena, MT 59602

RE: Valley Sand & Gravel Materials Testing
Pioneer Technical Services Project No. 11792

Green Meadow Road Work
Subbase

Dear Kim,

On June 22nd, 2009 two samples of crushed base course material were delivered to our ASTM/AASHTO/USACOE accredited materials testing laboratory. The sample of 3/4" minus Crushed Base Course (CBC) was given lab sample number 7789 and the sample of 1 1/2" minus Crushed Base Course (CBC) was given lab sample number 7790. At your request, they were tested for:

- Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine (ASTM C131-01).

The following table displays the results of our testing.

Table 1 – LA Abrasion

Lab Sample No.	Material Description	Grade Designation (ASTM C131 Table 1)	Percent Loss after 100 Revolution	Percent Loss after 500 Revolution
7789	3/4" CBC	B	5%	19%
7790	1 1/2" CBC	A	5%	21%

OK < 50%

We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.

Todd Lorenzen, P.E.
Senior Geotechnical Engineer

Paul Bushnell
Materials Testing Supervisor

Testing Methods

- Deg MT227
- PS T-11, T-27, T-89, T-91
- M145, MT305, MT310
- R Value T 190
- IC T 165, MT213, MT315
- Marshall MT 311
- Mod. Lottman T283

**MASTER FILE
COPY**

Materials Bureau
2701 Prospect Avenue
Helena, MT 59620-1001

Materials Lab. No. _____
 Dist. Lab. No. 3133-46346 Sample 1 Hole _____ Project HSIP 231-1(6)S [4706]
 Project Name: 2000- Safety Improvement - S of Jct. S-279
 Contract Item # 301 270 000 Material # _____
 Date Sampled 6-2-09 Date Rec. Helena 6-3-09 Kind of Deposit _____
 Sampled By Contractor Witnessed By Stanley Kuntz Address Great Falls
 Submitted By Stanley Kuntz Title DMS Date _____
 Quantity _____ Area by Stationing _____
 Area is in SE1/4 SE1/4 Sec. 13 T-11N R-24W
 Lab. No. 556685-98 County L & C
 Owner Larry Kolb Trust (Valley Excavating) Address Helena, MT
 Sta. And/or M-Tons Production Sample Stockpile Lift No. _____
 Examined for Crushed Base Course, A - Gr. 5

Wt. of Sample Taken 30.45 Kg 100.00 % LL (25Max) NP PL NP PI (6Max) 0
 Wt. Retained 4.75 mm 14.64 Kg 49.08 % Wear _____ % Fid. Agg. Chart No. _____
 Wt. Passing 4.75 mm 15.81 Kg 51.92 % Fracture (+35) 36 % Sp/Gr. (F) _____ (C) _____
 Before Wash 504.6 After 446.9 LBW 57.7 Max. Dens. 2215 Soil Class _____
 $k = .10799$ Opt. Moist 7.0 Kg/m³ _____
 Dust Ratio _____ Sand Equiv. _____

Wt. Ret.	Size	Wt. Pass	Pct.	Spec.	Volume Swell	Age	Treat	% Swell	Spec.
_____	75 mm	_____	_____	_____	_____	_____	_____	_____	_____
_____	63 mm	_____	_____	_____	_____	_____	_____	_____	_____
<u>13</u>	50 mm	<u>30.45</u>	<u>100</u>	<u>100</u>	_____	_____	_____	_____	_____
_____	37.5 mm	<u>30.45</u>	<u>100</u>	<u>94-100</u>	_____	_____	_____	_____	_____
<u>0.10</u>	31.5 mm	<u>30.35</u>	<u>100</u>	_____	_____	_____	_____	_____	_____
<u>1.45</u>	25 mm	<u>29.00</u>	<u>95</u>	_____	_____	_____	_____	_____	_____
<u>4.44</u>	19 mm	<u>26.01</u>	<u>85</u>	<u>70-88</u>	_____	_____	_____	_____	_____
<u>8.11</u>	12.5 mm	<u>22.34</u>	<u>73</u>	_____	_____	_____	_____	_____	_____
<u>9.95</u>	9.5 mm	<u>20.50</u>	<u>67</u>	<u>50-70</u>	_____	_____	_____	_____	_____
<u>14.64</u>	4.75 mm	<u>15.81</u>	<u>52</u>	<u>34-58</u>	_____	_____	_____	_____	_____
<u>50.9</u>	2.00 mm	<u>353.7</u>	<u>36</u>	_____	_____	_____	_____	_____	_____
<u>30.16</u>	.425 mm	<u>14.0</u>	<u>15</u>	<u>6-30</u>	_____	_____	_____	_____	_____
<u>425.1</u>	.180 mm	<u>79.5</u>	<u>8</u>	_____	_____	_____	_____	_____	_____
<u>145.1</u>	.075 mm	<u>59.5</u>	<u>6.1</u>	<u>0-8.0</u>	_____	_____	_____	_____	_____
<u>146.9</u>	Total wt.	_____	_____	_____	_____	_____	_____	_____	_____

Checked and Approved _____ Name Jim Sullivan
 Date 6-3-09

Remarks: Spec is Full Band Limits. Targets have not been set by the contractor.

- _____ Dist. Admin.
 - _____ Dist. Mat's Supr.
 - _____ Area Lab
 - _____ Mgr. Fid Proj.
 - _____ Maint. Div.
 - _____ Const. Bureau
 - _____ Preconst. Bureau
 - _____ County File
 - _____ Surfacing Design
- Helena
- _____ Lab File
- _____ Dist. Distribution
 - Materials Bureau
 - 1 Dist. Lab - GTF
 - 1 EPM, J. Carlson
- Sample

- _____ Mgr. Fid Proj.
 - _____ Maint. Div.
 - _____ Const. Bureau
 - _____ Preconst. Bureau
 - _____ County File
 - _____ Surfacing Design
- Helena
- 1 ROWLEY
 - 1 TECH
 - _____ Lab File
- _____ Dist. Distribution
 - 1 Materials Bureau
 - 1 Dist. Lab
 - 1 EPM, H. Woodhouse
- Sample

ST of MT
CRAIG BRIDGE

SODIUM SULFATE & LIME
FINESS - 5%



October 15, 2009

Mr. Kim Smith
Valley Excavating
7510 Applegate Drive
Helena, MT 59602

201 East Broadway, Suite C
Helena, Montana 59601

Phone: (406)457 8252 Fax (406)442-1158
www.pioneer-technical.com

DRAFT

**RE: Valley Excavating Materials Testing
Pioneer Technical Services Project No. 11792**

Dear Kim,

On October 14th, a sample of material referred to as 3/8" minus was delivered to our ASTM/AASHTO/USACOE accredited materials testing laboratory. At your request the sample was tested for:

- Sieve Analysis of Course and Fine Aggregate (AASHTO T-11, T-27).

The purpose of the testing was to determine if the material meets the specification that you supplied. The following table presents our testing results with comparison to the supplied project specifications.

Table 1 – Sieve Analysis

Lab Number	Sieve Size	Lab No	Specification Requirement	
			Grade 4	Grade 5
			Percent Passing	
	1/2 12.5mm	8115	100	100
	3/8 9.5mm		100	100
	#4 4.75mm		75	40-70
	#10 2.36mm		38	25-60
	#20 1.18mm		19	15-30
	#40 0.850mm		12	10-20
	#60 0.600mm		9	8-15
	#100 0.150mm		8	5-10
	#200 0.075mm		6	2-10

#200 / #40 = 6 / 12 = 1/2 OK

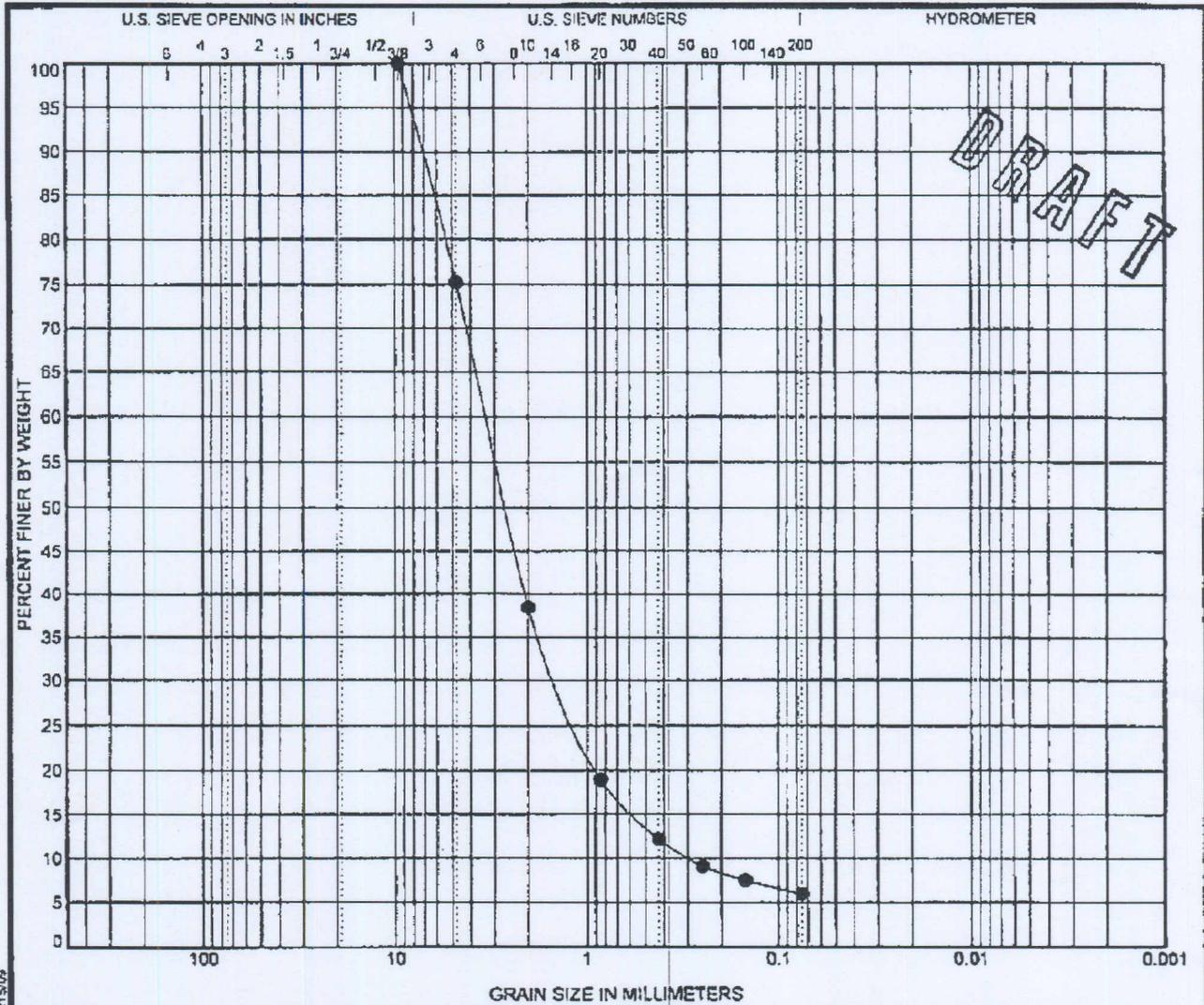
This sample does meet the specifications for grade 5, but does not meet the specifications for grade 4. The grain size analysis curve is included with this report.

We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.

Todd Lorenzen, P.E.
Senior Geotechnical Engineer

Paul Bushnell
Materials Testing Supervisor



DRAFT

U.S. GRAIN SIZE ASTM 11792 - VALLEY EXCAVATING MATERIALS TESTING.GPJ PIONEER.GOT 10/15/09

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification		LL	PL	PI	Cc	Cu
● Lab No. 8115	0.0	3/8" minus					1.97	11.38

Specimen Identification	D100	D50	D15	D10	%Gravel	%Sand	%Silt	%Clay
● Lab No. 8115	0.0	9.5	2.624	0.567	0.292	24.7	69.3	6.0



GRAIN SIZE DISTRIBUTION
 Project: Valley Sand & Gravel Material Testing
 Number: 11792



201 East Broadway, Suite C
Helena, Montana 59601

Phone (406)457-8252 Fax (406)442-1158
www.pioneer-technical.com

October 22, 2009

Mr. Kim Smith
Valley Excavating
7510 Applegate Drive
Helena, MT 59602

RE: **Valley Excavating Materials Testing**
Pioneer Technical Services Project No. 11792

Dear Kim,

This report is sent as an addendum to the initial report dated October 15, 2009 and contains results of additional testing performed on the 3/8" material.

On October 14th, a sample of material referred to as 3/8" minus was delivered to our ASTM/AASHTO/USACOE accredited materials testing laboratory. At your request the sample was tested for:

- Sieve Analysis of Coarse and Fine Aggregate (AASHTO T-11, T-27)
- Proctor Moisture/Density Relationships (AASHTO T-99 Method C)
- Atterberg Liquid and Plastic Limits (AASHTO T-89, T-90 dry preparation)
- Resistance to Degradation of Small-Size Coarse aggregate by Abrasion and Impact in the Los Angeles Machine (L.A. Abrasion AASHTO T-96)
- Determining the Percentage of Fractured Particles in Coarse Aggregate (ASTM D5821).

The following tables display the results of testing performed with comparison to the Spring Meadow Lake project requirements you supplied via phone 10-22-09.

Table 1 – Sieve Analysis

Lab Number	8115	Specification Requirement	
		Grade 4	Grade 5
Sieve Size		Percent Passing	
1/2"	12.5 mm	100	100
3/8"	9.5 mm	100	100
# 4	4.75 mm	75	40-70
# 10	2.0 mm	38	25-60
# 20	0.85 mm	19	---
# 40	0.425 mm	12	---
# 60	0.250 mm	9	---
# 100	0.150 mm	8	---
# 200	0.075 mm	6.0	2-10

This sample does meet the specifications for Grade 5, but does not meet the specifications for Grade 4.

Table 2- Classification, Proctor, Atterberg Limits

Lab Sample Number	USCS Classification	AASHTO Classification	Proctor		Atterberg Limits		
			Maximum Dry Density (lb/ft ³)	Optimum Moisture (%)	Liquid Limit	Plastic Limit	Plasticity Index
8115	Well-Graded Sand with Silty Clay and Gravel (SW-SC)	A-1-a (0)	116.9	13.6	21	17	4
Specification Requirement	---	---	---	---	25 max	---	6 max

Fractured faces count testing was performed utilizing the material larger than 4.75 mm (No. 4) and the percentage was calculated by mass.

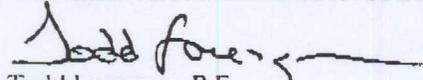
Table 3 – L.A. Abrasion, Fractured Faces Count

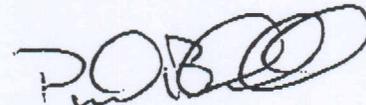
Lab Sample Number	Material Description	Sample Location	L.A. Abrasion		Fractured Faces Count	
			Loss After 100 Revolutions (%)	Loss After 500 Revolutions (%)	Initial Sample Size (g)	Percent of Fractured Particles
8115	3/8" Minus	Valley Sand & Gravel	6	25	201.15	71
Specification Requirement	---	---	---	45 max	---	50 min

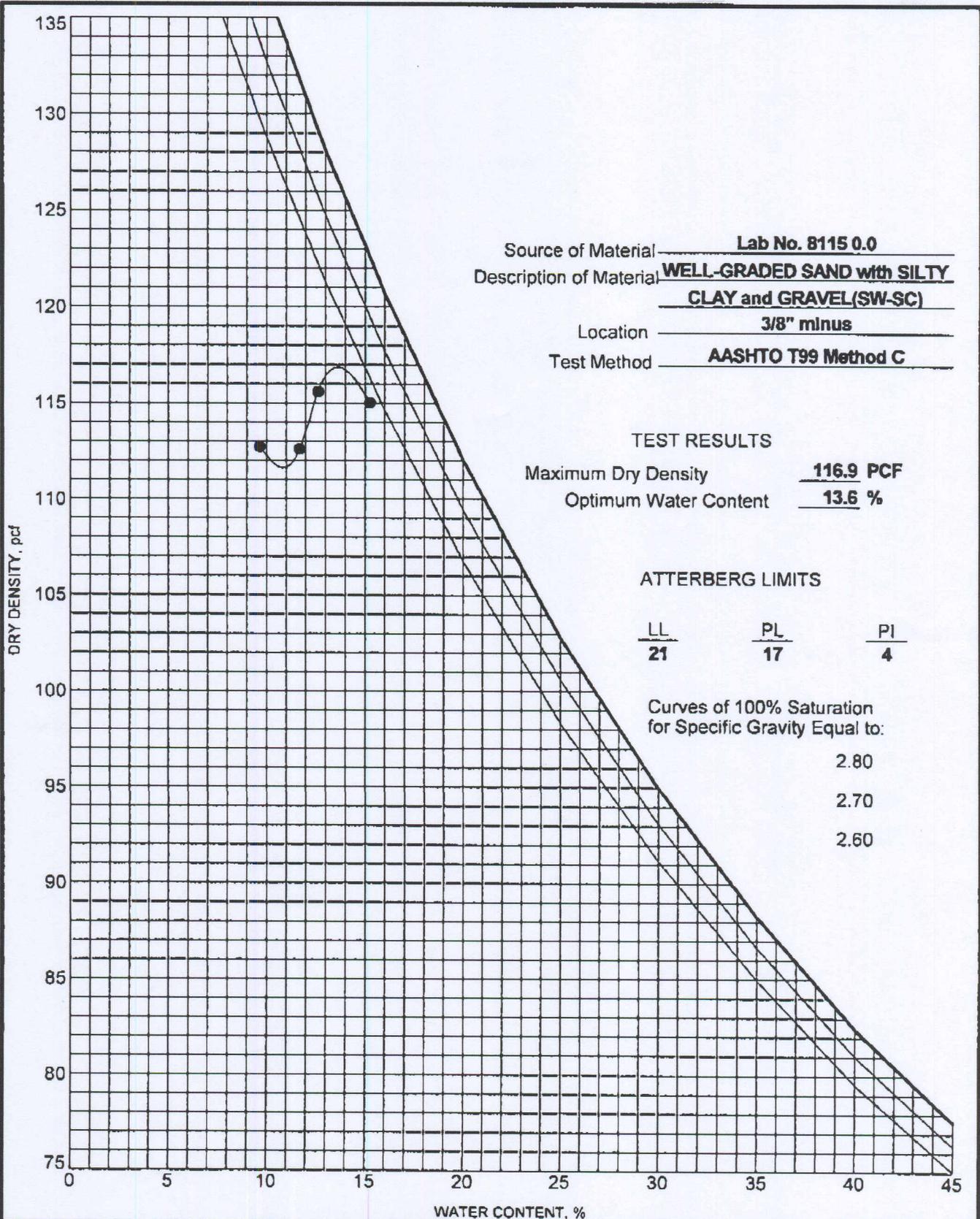
The sample tested meets the project requirements for liquid limit, plasticity index, L.A. abrasion, and fractured particle requirements.

The grain size analysis and Proctor curves are included with this report. We thank you for using Pioneer Technical Services for your geotechnical and materials testing requirements. If you have any questions regarding these results please contact Todd Lorenzen or Paul Bushnell at 406-443-6053.

Sincerely,
PIONEER TECHNICAL SERVICES, INC.


Todd Lorenzen, P.E.
Senior Geotechnical Engineer


Paul Bushnell
Materials Testing Supervisor



Source of Material Lab No. 8115 0.0
 Description of Material WELL-GRADED SAND with SILTY CLAY and GRAVEL(SW-SC)
 Location 3/8" minus
 Test Method AASHTO T99 Method C

TEST RESULTS
 Maximum Dry Density 116.9 PCF
 Optimum Water Content 13.6 %

ATTERBERG LIMITS

<u>LL</u>	<u>PL</u>	<u>PI</u>
<u>21</u>	<u>17</u>	<u>4</u>

Curves of 100% Saturation for Specific Gravity Equal to:

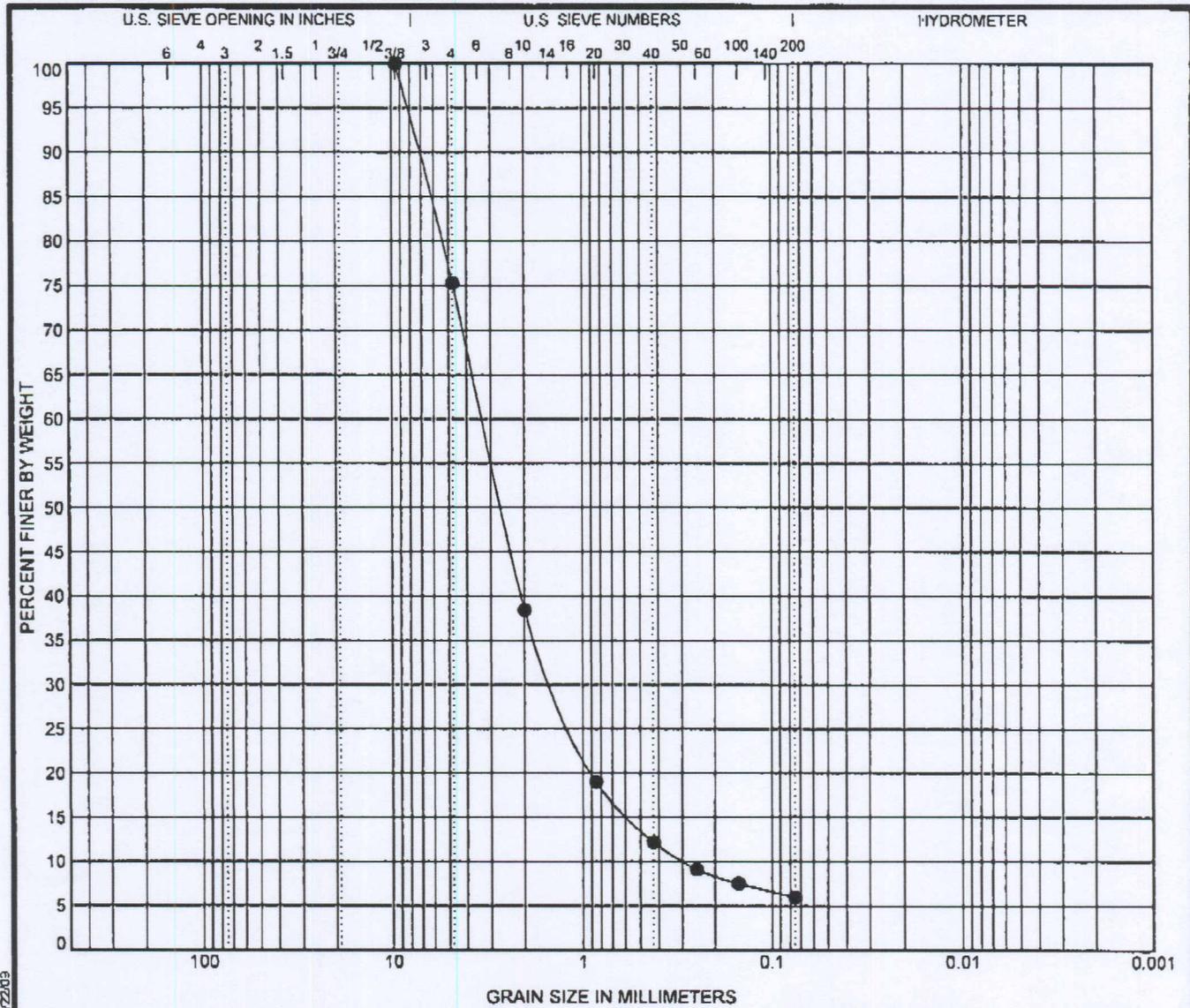
- 2.80
- 2.70
- 2.60

US COMPACTION ASTM 11792 - VALLEY EXCAVATING MATERIALS TESTING.GPJ PIONEER.GDT 15/22/09



MOISTURE-DENSITY RELATIONSHIP

Project: Valley Sand & Gravel Material Testing
 Number: 11792



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● Lab No. 8115	0. WELL-GRADED SAND with SILTY CLAY and GRAVEL (SW-SC) 1	21	17	4	1.97	11.38

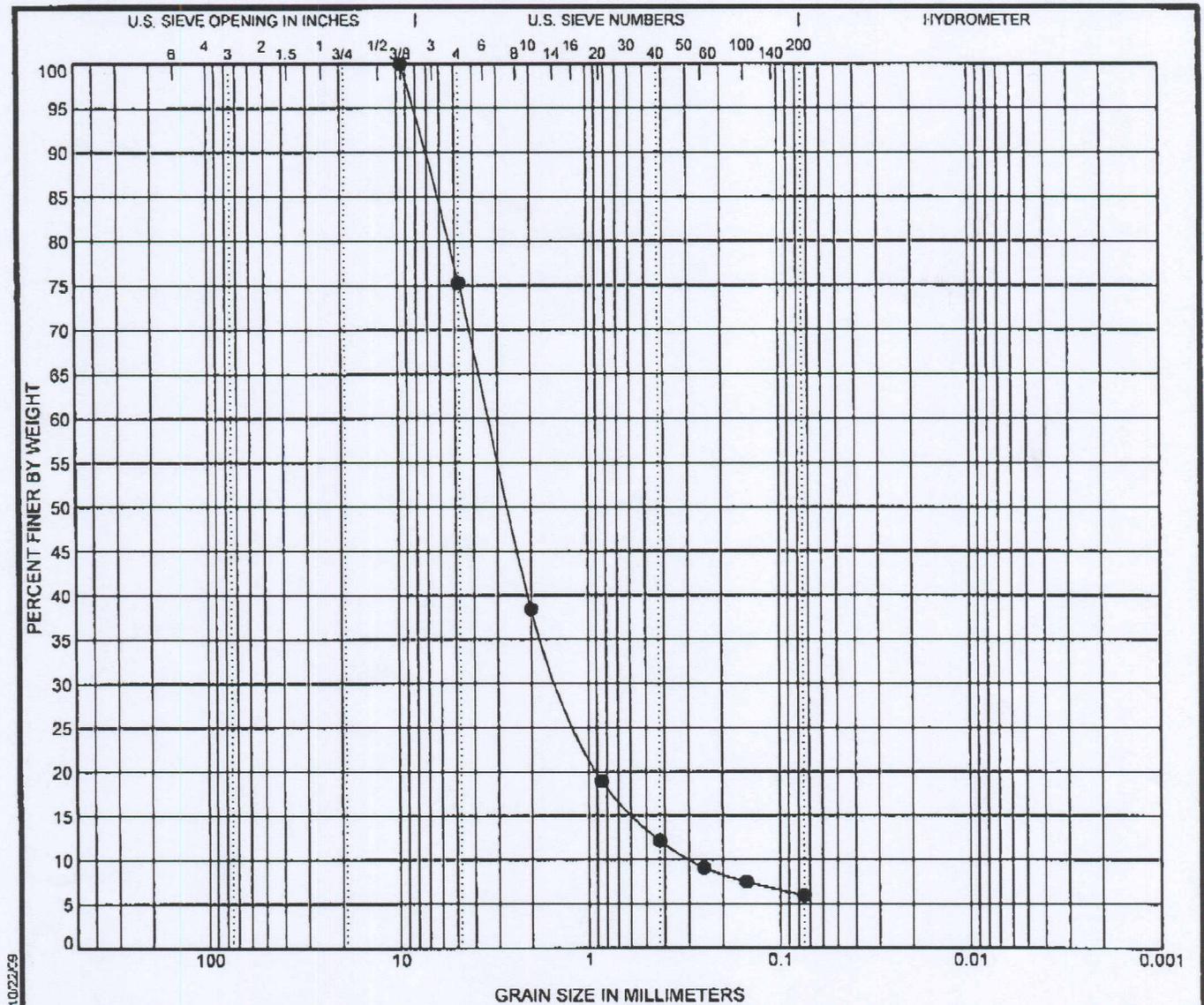
Specimen Identification	D100	D50	D15	D10	%Gravel	%Sand	%Silt	%Clay
● Lab No. 8115	0.0	9.5	2.624	0.567	0.292	24.7	69.3	6.0

U.S. GRAIN SIZE ASTM 11792 - VALLEY EXCAVATING MATERIALS TESTING.GPJ PIONEER.GDT 10/22/03



GRAIN SIZE DISTRIBUTION

Project: Valley Sand & Gravel Material Testing
 Number: 11792



US GRAIN SIZE AASHTO 11792 - VALLEY EXCAVATING MATERIALS TESTING.CPJ PIONEER.GDT 10/22/09

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● Lab No. 8115 0.0	(A-1-a)	21	17	4	1.97	11.38

Specimen Identification	D100	D50	D15	D10	%Gravel	%Sand	%Silt	%Clay
● Lab No. 8115 0.0	9.5	2.624	0.567	0.292	24.7	69.3	6.0	



GRAIN SIZE DISTRIBUTION
 Project: Valley Sand & Gravel Material Testing
 Number: 11792

1375 WOODHILL COURT
MISSOULA, MONTANA 59802
PHONE 406.546.6818 or
406.771.8455
FAX 406.258.9905
EMAIL teris77@q.com

**K & S HYDROSEED LLC**

Fax

To: GARY STURM **From:** Teri Schuster
Fax: 442-7182 **Pages:** 3
Phone: **Date:** November 17, 2009
Re: Seed and Fertilizer Submittals **cc:**

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

● **Comments:**

Here is the seed and fertilizer submittals for the engineer, please let me know as soon as possible if these are acceptable and I will order the seed and fertilizer to be blended.

If you need anything else, please let me know.

Thank you,

Teri Schuster

Both Submittals Approved
11/18/2009
Gary Sturm

K&S Hydroseeding

← Same As Rygreen per Ed Surbrugg

11/18/2009

Approved
Hayden

Sold To: K & S Hydroseeding, LLC

Date: 11/11/09

Blended Seed No:

Lot No.	Pure	Count	MO	Yield	Tested	Org	%Mix
06-0-29	82.26	95.00	0.00	95	07/13/09	MT	11.99
08-0-49	96.69	91.00	5.00	96	06/10/09	WA	11.87
73-268-08	97.28	96.00	0.00	96	07/20/09	WA	12.80
NBS-NR001F-2	99.00	89.00	0.00	89	07/15/09	WA	12.80
310006	96.05	94.00	2.00	96	07/09/09	CN	8.30
07-4-42	99.80	50.00	49.00	99	04/17/09	MT	8.63
05-06-71	99.51	35.00	55.00	90	05/26/09	MT	7.91
F2882*	99.99	88.00	0.00	88	01/14/09	SD	0.81
TSS-QG-04	94.72	92.00	0.00	92	06/30/09	WA	15.48

Inert: 1.26
Erad: 4.37

Deter: 5.02
Pound: 50.00

Crop: 2.37
Waste: 0.18
Noxious: NONE FOUND
Restricted: NONE FOUND
Seed Ratio:

--- see back of card for disclaimer of warranty ---

Bruce Seed Farm, Inc.
91 Lower Degr Creek
Townsend MT 59644
406-266-3183

Spring Meadows

Seed No: 09-00001554

Date: 11/18/09

Sold To: K & S Hydroseeding, LLC

Variety & Species	Lot No.	Pure	Germ	H/D	Viable	Tested	Org	%Mix
Thickspike Wheatgrass - Critana	08-0-29	82.26	95.00	0.00	95	07/13/09	MT	11.99
Bluebunch, Wheatgrass - Secar	08-0-49	98.69	91.00	5.00	96	06/10/09	WA	11.87
Western Wheatgrass - C) Rosana	73.208.08	97.28	96.00	0.00	96	07/20/09	WA	17.80
Fescue, Hard - V.N.S.	NBS-NB6-HF-2	99.00	89.00	0.00	89	07/15/09	WA	12.80
Slender Wheatgrass - Revenue	310006	98.03	94.00	2.00	96	07/09/09	CN	8.90
Green Needlegrass - C) Lodorm	07-4-42	99.80	50.00	49.00	99	04/17/09	MT	8.63
Cicer Milkvetch - Lutana	05/06-71	99.51	35.00	55.00	90	05/26/09	MT	7.91
Sweetclover - Madrid Yellow Blossom	F2862 *	99.99	88.00	0.00	88	01/14/09	SD	0.81
Triticale - Quickguard	TSS-QG-08	98.72	92.00	0.00	92	06/30/09	WA	15.48

Seed Farm, Inc.
 Lower Deep Creek
 Mendon, MT 59644
 406-3103

Crop: 2.37
 Weeds: 0.18
 Noxious: NONE FOUND
 Restricted: NONE FOUND
 Seed Ratio:

Inert: 1.26
 Hard: 4.37

Dorm: 5.02
 Pound: 50.00

Meadows - 14 Acres

--- see back of card for disclaimer of warranties ---

Seed No: 09-00001554

Date: 11/18/09

Sold To: K & S Hydroseeding, LLC

Variety & Species	Lot No.	Pure	Germ	H/D	Viable	Tested	Org	%Mix
Thickspike Wheatgrass - Critana	08-0-29	82.26	95.00	0.00	95	07/13/09	MT	11.99
Bluebunch, Wheatgrass - Secar	08-0-49	98.69	91.00	5.00	96	06/10/09	WA	11.87
Western Wheatgrass - C) Rosana	73.208.08	97.28	96.00	0.00	96	07/20/09	WA	17.80
Fescue, Hard - V.N.S.	NBS-NB6-HF-2	99.00	89.00	0.00	89	07/15/09	WA	12.80
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Sweetclover - Madrid Yellow Blossom	F2862 *	99.99	88.00	0.00	88	01/14/09	SD	0.81
Triticale - Quickguard	TSS-QG-08	98.72	92.00	0.00	92	06/30/09	WA	15.48

Seed Farm, Inc.
 Lower Deep Creek
 Mendon, MT 59644
 406-3103

Crop: 2.37
 Weeds: 0.18
 Noxious: NONE FOUND
 Restricted: NONE FOUND
 Seed Ratio:

Inert: 1.26
 Hard: 4.37

Dorm: 5.02
 Pound: 50.00

Meadows - 14 Acres

--- see back of card for disclaimer of warranties ---



**MOUNTAIN VIEW CO-OP
 GREAT FALLS FERTILIZER
 1700 52ND STREET NORTH
 GREAT FALLS, MT 59405
 406-453-2723 or 1-800-497-8293**

Date: 11-17-09

To Whom It May Concern:

Re: Fertilizer Analysis & Requirements

Project Number: Spring Meadows Lake

Requested fertilizer ratio: 50-5-30

Commercial fertilizer blend: 30-3-18 @ 100 pounds per acre

Applied @ 166 pounds per acre provides 50-5-30 OK

Applied @ 210 pounds per acre provides 63-6-38

The blend contains the following percentage of product:

64.1% of 46-0-0
5.8 % of 11-52-0
30.1 % of 0-0-60
 _____ % of _____
 _____ % of _____

Sincerely,

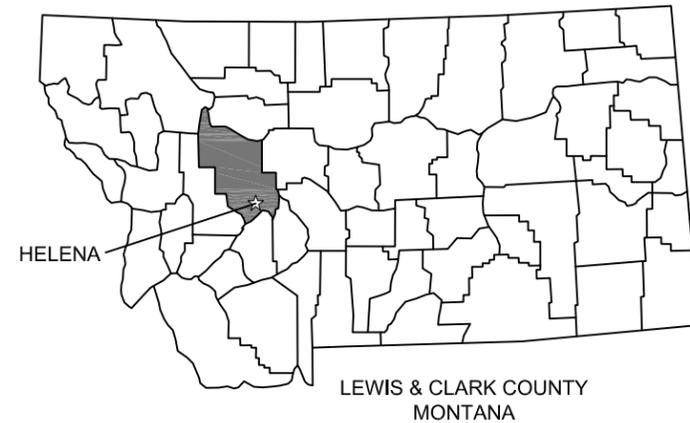
C. J. Dase
mgr

Approved 11/18/2009
Ray [Signature]

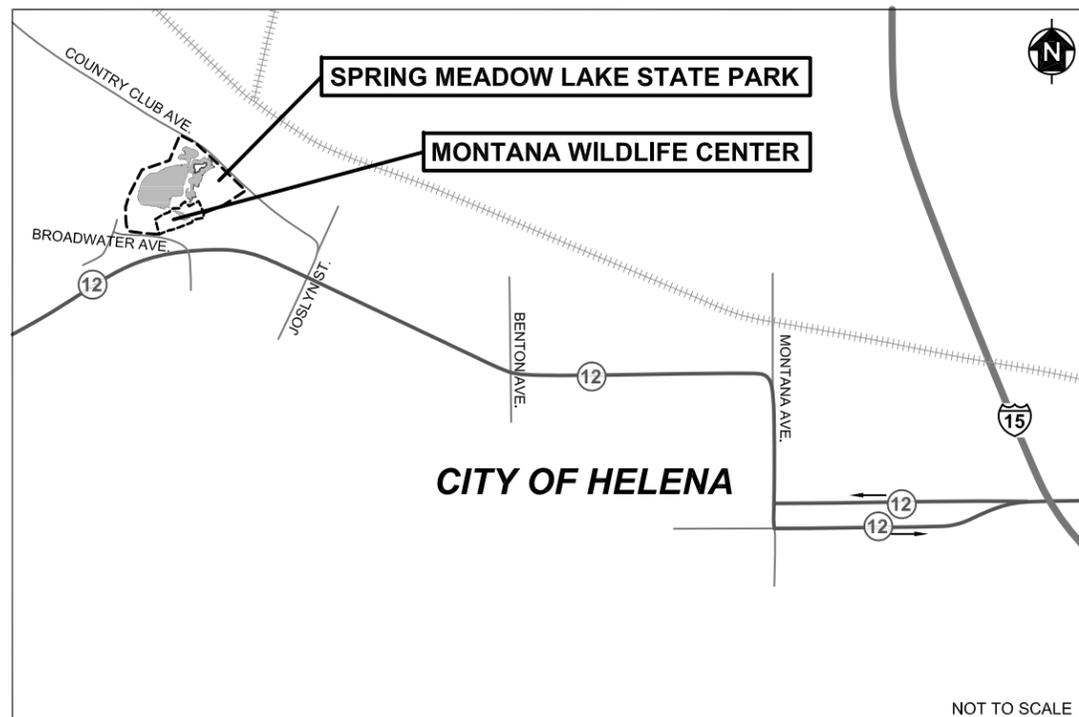
APPENDIX L
AS-CONSTRUCTED DRAWINGS

SPRING MEADOW LAKE RECLAMATION PROJECT LEWIS & CLARK COUNTY, MONTANA

PREPARED FOR:
MINE WASTE CLEANUP BUREAU
MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
HELENA, MONTANA



SHEET NO.	SHEET TITLE
1	TITLE SHEET AND LOCATION MAP
2	VICINITY MAP AND SITE ACCESS ROUTE PLAN
2A	VICINITY MAP AS CONSTRUCTED
3	SPRING MEADOW LAKE STATE PARK EXCAVATION PLAN
3A	SPRING MEADOW LAKE STATE PARK EXCAVATION AS CONSTRUCTED
4	SPRING MEADOW LAKE STATE PARK BACKFILL / GRADING PLAN
4A	SPRING MEADOW LAKE STATE PARK BACKFILL / GRADING AS CONSTRUCTED
5	MONTANA WILDLIFE CENTER EXCAVATION PLAN
5A	MONTANA WILDLIFE CENTER EXCAVATION AS CONSTRUCTED
6	MONTANA WILDLIFE CENTER BACKFILL / SURFACING PLAN
6A	MONTANA WILDLIFE CENTER BACKFILL / SURFACING AS CONSTRUCTED
7	MONTANA WILDLIFE CENTER NORTH AREA GRADING PLAN
7A	MONTANA WILDLIFE CENTER NORTH AREA GRADING AS CONSTRUCTED
8	MISCELLANEOUS DETAILS AND CHAIN LINK FENCING DETAILS



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
Contract No. 410001

TITLE SHEET
AND
LOCATION MAP

Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

DRAWING NAME SHEET 1-TITLE

PROJECT NUMBER 103DS1613036-03

DRAWN BY: D.W.H.

CHK'D BY: C.E.M.

APPR. BY: G.L.S.

DATE: 5 / 2009

REV. NO. 1

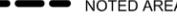
DATE: 2 / 2010

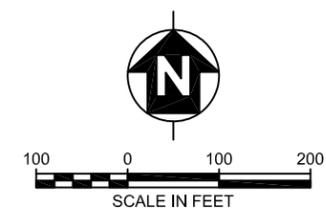
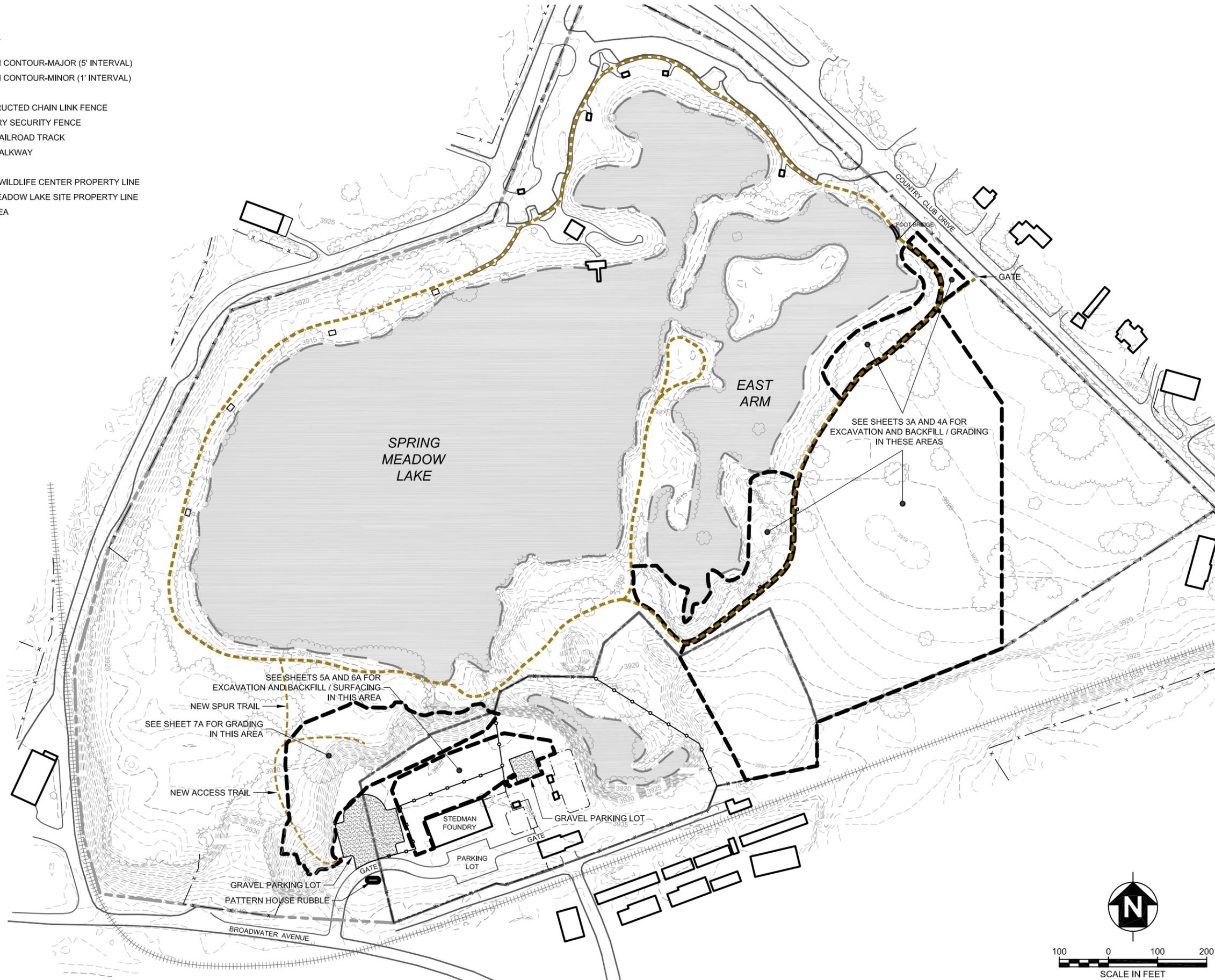
SHEET
1

OF
8

AS CONSTRUCTED

GENERAL FEATURES:

-  BUILDING
-  ELEVATION CONTOUR-MAJOR (5' INTERVAL)
-  ELEVATION CONTOUR-MINOR (1' INTERVAL)
-  FENCE
-  RECONSTRUCTED CHAIN LINK FENCE
-  TEMPORARY SECURITY FENCE
-  FORMER RAILROAD TRACK
-  GRAVEL WALKWAY
-  TREE
-  MONTANA WILDLIFE CENTER PROPERTY LINE
-  SPRING MEADOW LAKE SITE PROPERTY LINE
-  NOTED AREA



MONTANA
 & MWCB &



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

**Spring Meadow Lake
 Reclamation Project**
 Lewis & Clark County, Montana
 Contract No. 410001

VICINITY MAP
 AS CONSTRUCTED

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 2A-VICINITY MAP
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 2A OF 8
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	
DATE: 5 / 2009	
REV. NO. 1	
DATE: 2 / 2010	

GENERAL FEATURES:

-  BUILDING
-  ELEVATION CONTOUR-MAJOR (5' INTERVAL)
-  ELEVATION CONTOUR-MINOR (1' INTERVAL)
-  FENCE
-  FORMER RAILROAD TRACK
-  GRAVEL WALKWAY
-  TREE
-  MONTANA WILDLIFE CENTER PROPERTY LINE
-  SPRING MEADOW LAKE SITE PROPERTY LINE
-  NOTED AREA

CONSTRUCTION NOTES:

(A) STATE PARK ACCESS / STAGING AREA

1. STAGING AREA TO BE TEMPORARILY SURFACED WITH 6" THICK LAYER OF GRADE 2 CRUSHED BASE COURSE.
2. CRUSHED MATERIAL SHALL BE COMPLETELY REMOVED AT END OF PROJECT AND DISPOSED OF AT A CLASS D WASTE MANAGEMENT FACILITY.
3. GRAVEL ACCESS ROAD SHALL INCLUDE A 40' LONG - 16" CULVERT INSTALLED IN ROADSIDE DITCH.

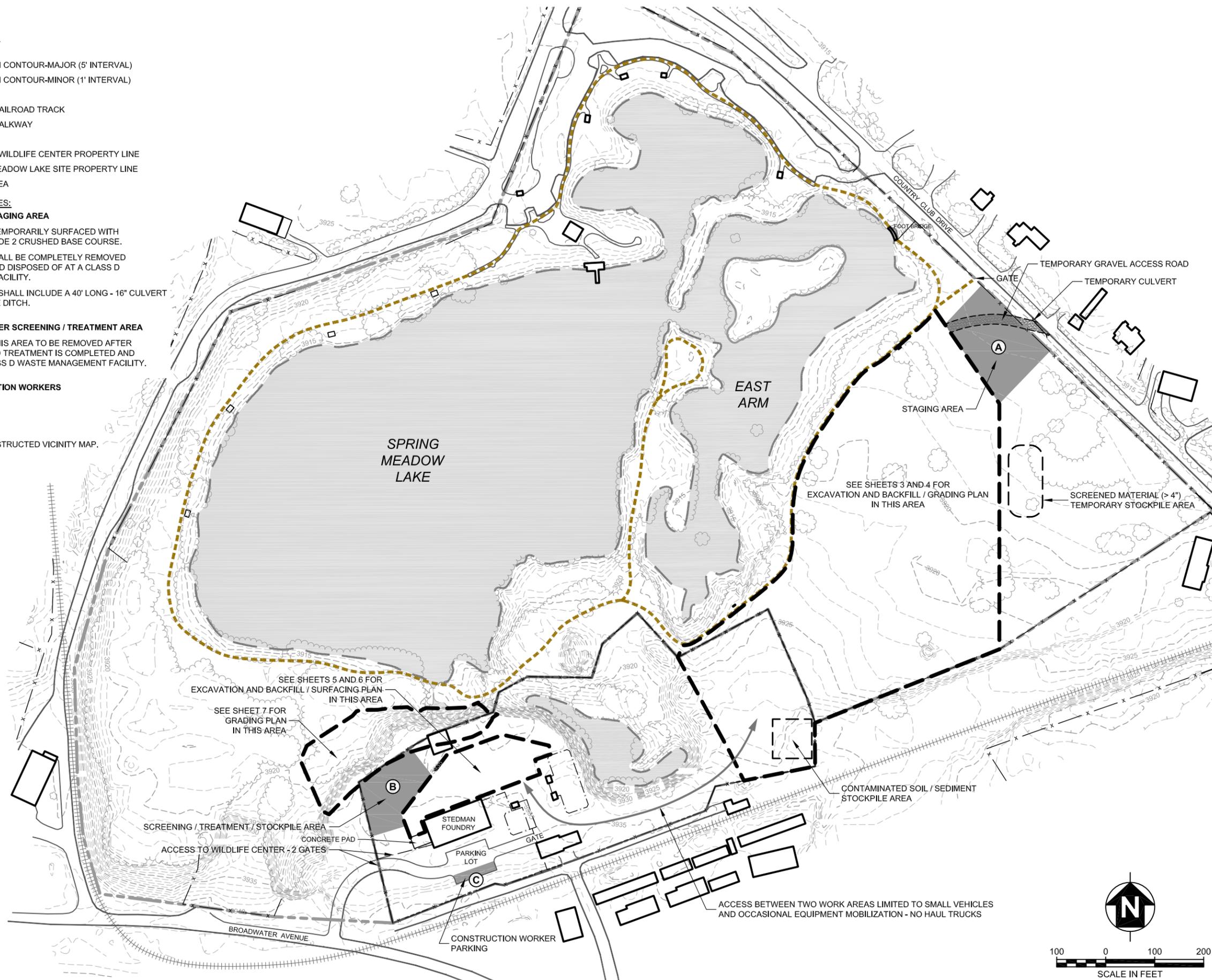
(B) MONTANA WILDLIFE CENTER SCREENING / TREATMENT AREA

1. TOP 6" OF SOIL FROM THIS AREA TO BE REMOVED AFTER WASTE SCREENING AND TREATMENT IS COMPLETED AND DISPOSED OF AT A CLASS D WASTE MANAGEMENT FACILITY.

(C) PARKING FOR CONSTRUCTION WORKERS

AS CONSTRUCTED NOTES:

- 1) SEE SHEET 2A FOR AS CONSTRUCTED VICINITY MAP.



MONTANA
 & MWCB &



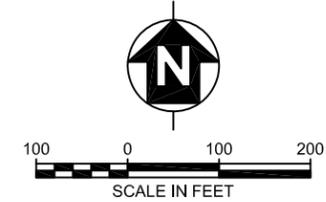
REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
 Lewis & Clark County, Montana
 Contract No. 410001
VICINITY MAP AND SITE ACCESS ROUTE PLAN

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 2-VICINITY MAP
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 2 OF 8
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	
DATE: 5 / 2009	
REV. NO. 1	DATE: 2 / 2010



SOIL EXCAVATION DEPTHS

- ① LAKESHORE - 24" REMOVAL
- ② PARK - 24" REMOVAL
- ③ PARK - 36" REMOVAL

NOTE:

SOIL AREAS CONTAIN METALS OF CONCERN AT CONCENTRATIONS ABOVE RECREATIONAL OR WORKER ACTION LEVELS.

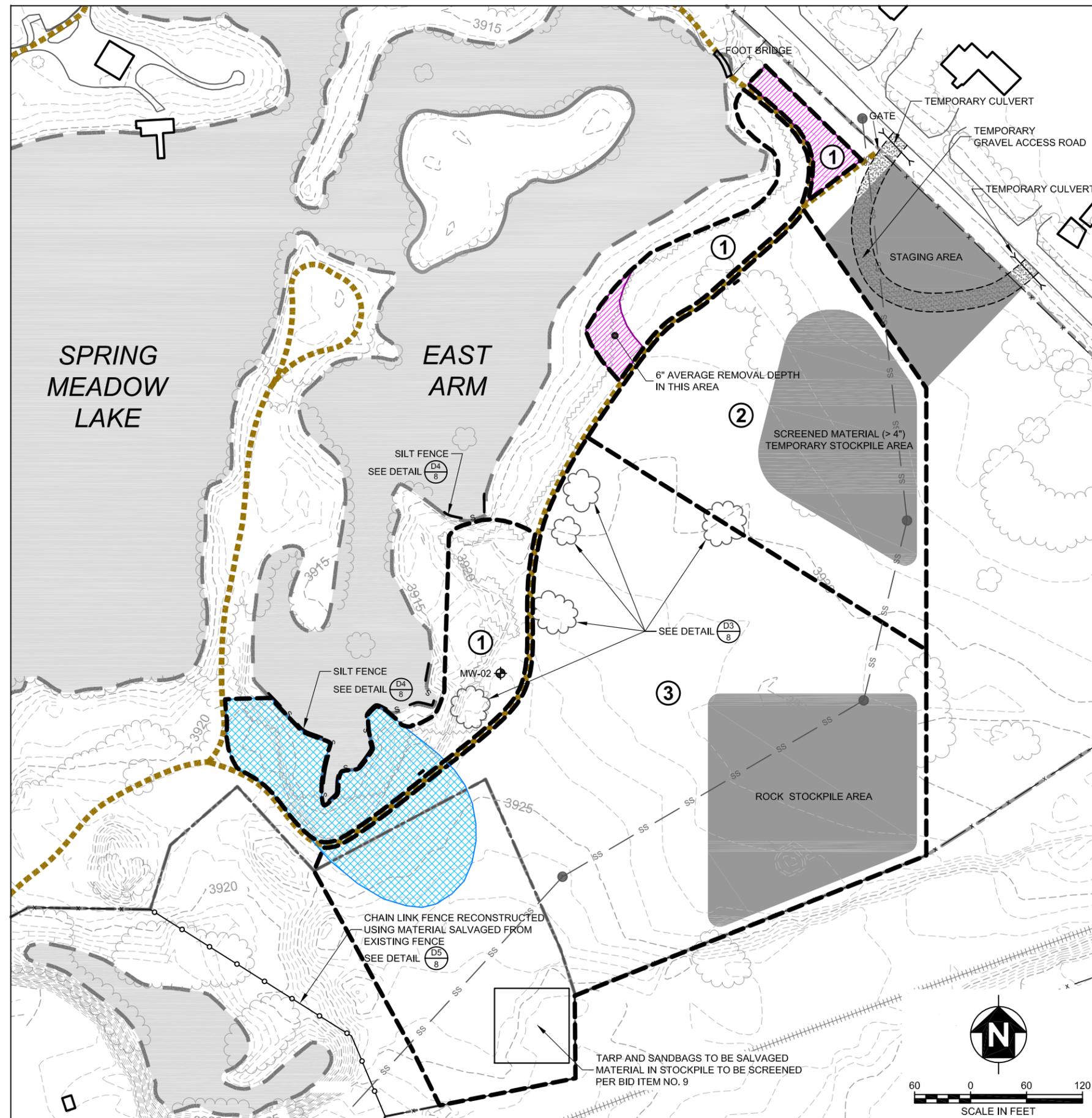
REMOVAL AREA	SURFACE AREA (SQ FEET)	DEPTH OF EXCAVATION (INCHES)	EXCAVATION VOLUME (CU YARD)
(1) LAKESHORE	61,744	24	4,574
(2) PARK	91,341	24	6,766
(3) PARK	246,397	36	27,377

GENERAL FEATURES:

- BUILDING
- ELEVATION CONTOUR-MAJOR (5' INTERVAL)
- ELEVATION CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- SILT FENCE
- FORMER RAILROAD TRACK
- GRAVEL WALKWAY
- TREE
- TREE TO BE SAVED
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- MONITORING WELL
- UTILITY-MANHOLE
- UTILITY-SANITARY SEWER
- NOTED EXCAVATION AREA

AS CONSTRUCTED NOTES:

- ADDITIONAL AREA EXCAVATED VERSUS PLAN
- ADDITIONAL AREA EXCAVATED AT VARYING DEPTHS VERSUS PLAN (APPROXIMATELY 1,900 CU YARDS)



MONTANA
 & MWCBC &



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	ADDENDUM #2	7/2009	G.L.S.
2	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
 Lewis & Clark County, Montana
 Contract No. 410001
SPRING MEADOW LAKE STATE PARK EXCAVATION
 AS CONSTRUCTED

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 3A-PARK EXCAVATION
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 3A
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 2	
DATE: 2 / 2010	

SOIL EXCAVATION DEPTHS

- ① LAKESHORE - 24" REMOVAL
- ② PARK - 24" REMOVAL
- ③ PARK - 36" REMOVAL

NOTE:

SOIL AREAS CONTAIN METALS OF CONCERN AT CONCENTRATIONS ABOVE RECREATIONAL OR WORKER ACTION LEVELS.

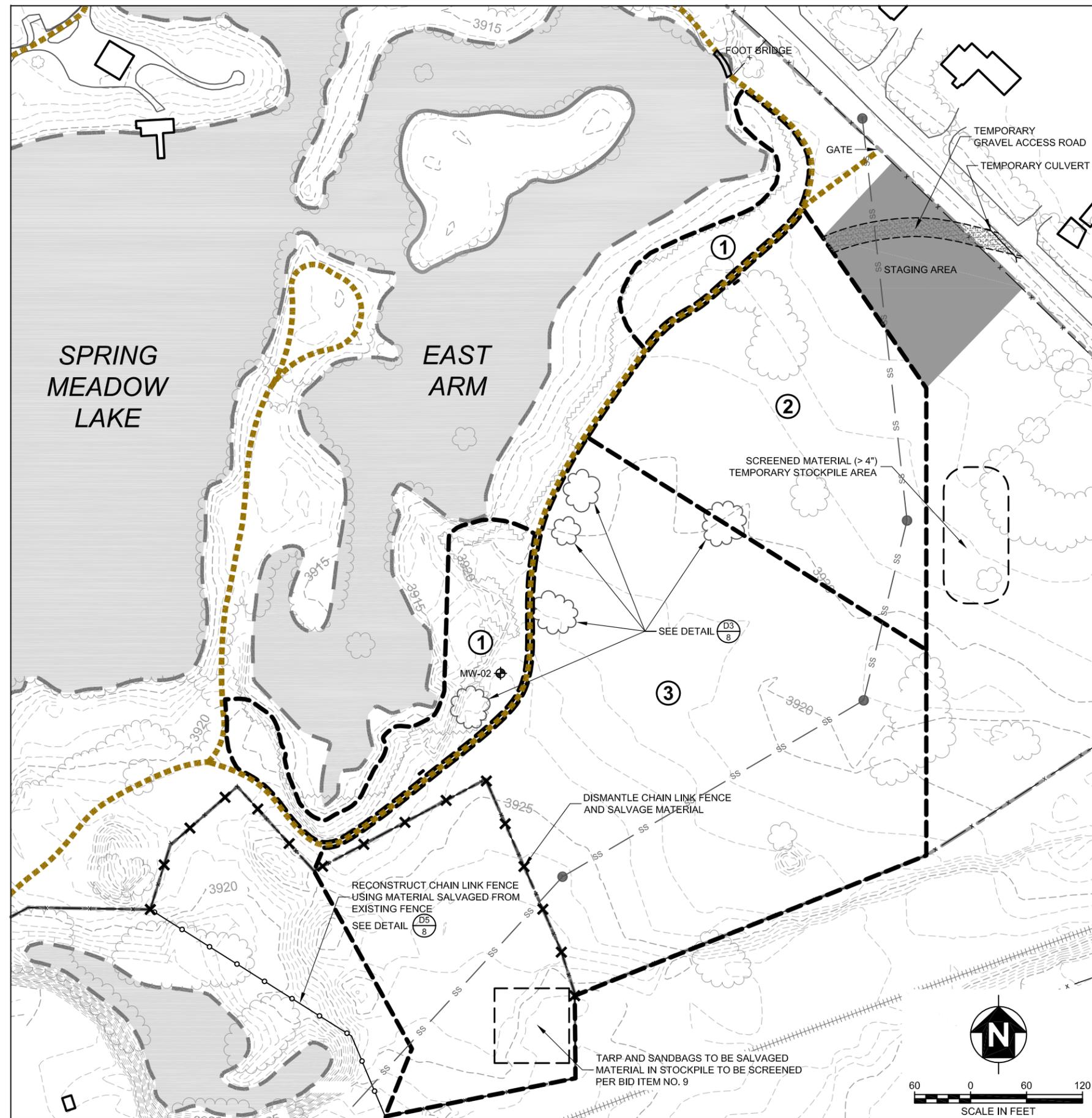
REMOVAL AREA	SURFACE AREA (SQ FEET)	DEPTH OF EXCAVATION (INCHES)	EXCAVATION VOLUME (CU YARD)
(1) LAKESHORE	47,334	24	3,506
(2) PARK	91,341	24	6,766
(3) PARK	248,356	36	27,595

GENERAL FEATURES:

- BUILDING
- ELEVATION CONTOUR-MAJOR (5' INTERVAL)
- ELEVATION CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- FORMER RAILROAD TRACK
- GRAVEL WALKWAY
- TREE
- TREE TO BE SAVED
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- MONITORING WELL
- UTILITY-MANHOLE
- UTILITY-SANITARY SEWER
- NOTED EXCAVATION AREA

AS CONSTRUCTED NOTES:

1) SEE SHEET 3A FOR AS CONSTRUCTED EXCAVATION.



MONTANA
MWCBC



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	ADDENDUM #2	7 / 2009	GLS
2	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
 Contract No. 410001
SPRING MEADOW LAKE STATE PARK
EXCAVATION PLAN

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 3-PARK EXCAVATION
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 3 OF 8
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	
DATE: 5 / 2009	
REV. NO. 2	
DATE: 2 / 2010	

SOIL BACKFILL DEPTHS

- ① LAKESHORE - 24" BACKFILL (RESTORE EXISTING TOPOGRAPHY)
- ② PARK - 24" BACKFILL (RESTORE EXISTING TOPOGRAPHY)
- ③ PARK - 24" BACKFILL / REGRADE (MATCH CONTOURS SHOWN)

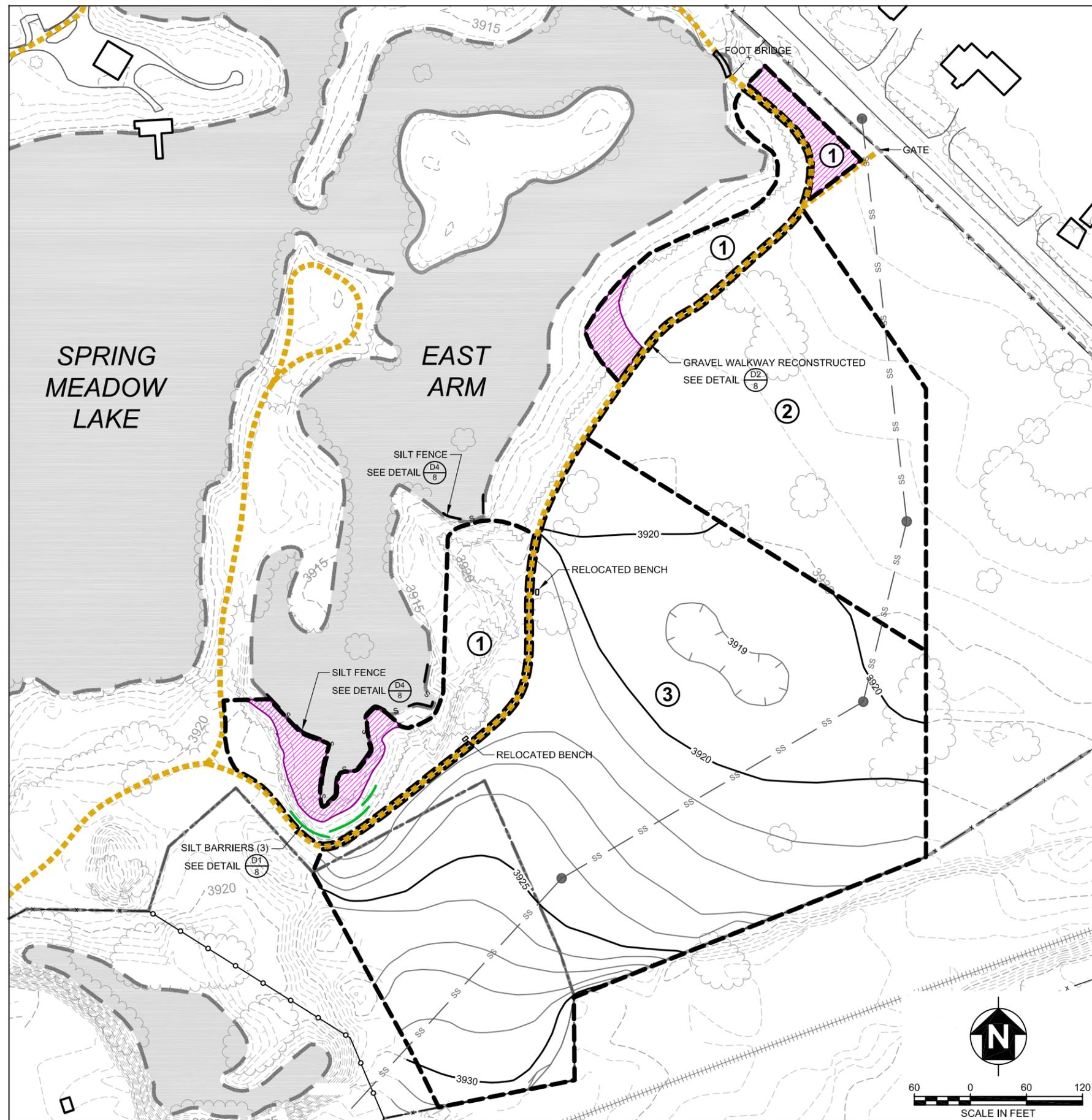
BACKFILL AREA	SURFACE AREA (SQ FEET)	DEPTH OF BACKFILL (INCHES)	BACKFILL VOLUME (CU YARD)
(1) LAKESHORE	61,744	24	4,574
(2) PARK	91,341	24	6,766
(3) PARK	246,397	24	18,252

GENERAL FEATURES:

- BUILDING
- ELEVATION CONTOUR-MAJOR (5' INTERVAL)
- ELEVATION CONTOUR-MINOR (1' INTERVAL)
- FINAL GRADE CONTOUR-MAJOR (5' INTERVAL)
- FINAL GRADE CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- SILT FENCE
- FORMER RAILROAD TRACK
- GRAVEL WALKWAY
- TREE
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- UTILITY-MANHOLE
- UTILITY-SANITARY SEWER
- NOTED BACKFILL AREA

AS CONSTRUCTED NOTES:

- ADDITIONAL AREA BACKFILLED / GRADED VERSUS PLAN



MONTANA
MWCBC



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
 Contract No. 410001
SPRING MEADOW LAKE STATE PARK
BACKFILL / GRADING
 AS CONSTRUCTED

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 4A-PARK REGRADE
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 4A
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 1	
DATE: 2 / 2010	

SOIL BACKFILL DEPTHS

- ① LAKESHORE - 24" BACKFILL (RESTORE EXISTING TOPOGRAPHY)
- ② PARK - 24" BACKFILL (RESTORE EXISTING TOPOGRAPHY)
- ③ PARK - 24" BACKFILL / REGRADE (MATCH CONTOURS SHOWN)

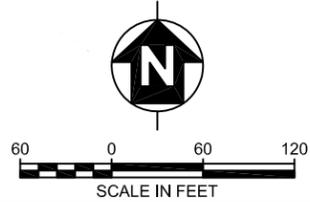
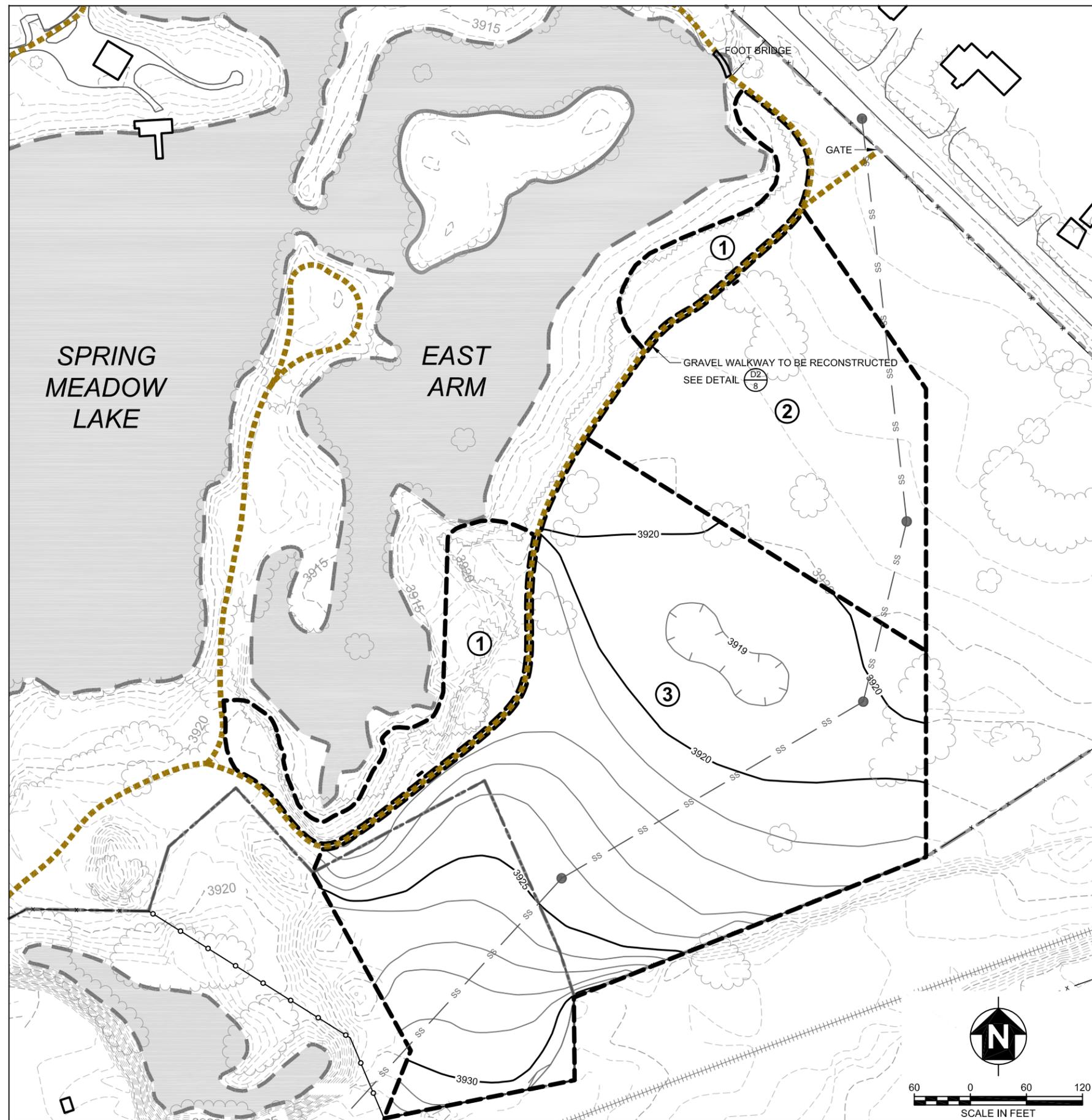
BACKFILL AREA	SURFACE AREA (SQ FEET)	DEPTH OF BACKFILL (INCHES)	BACKFILL VOLUME (CU YARD)
(1) LAKESHORE	47,334	24	3,506
(2) PARK	91,341	24	6,766
(3) PARK	248,356	24	20,072

GENERAL FEATURES:

- BUILDING
- ELEVATION CONTOUR-MAJOR (5' INTERVAL)
- ELEVATION CONTOUR-MINOR (1' INTERVAL)
- FINAL GRADE CONTOUR-MAJOR (5' INTERVAL)
- FINAL GRADE CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- FORMER RAILROAD TRACK
- GRAVEL WALKWAY
- TREE
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- UTILITY-MANHOLE
- UTILITY-SANITARY SEWER
- NOTED EXCAVATION AREA

AS CONSTRUCTED NOTES:

1) SEE SHEET 4A FOR AS CONSTRUCTED BACKFILL / GRADING.



MONTANA
MWCBC



REVISIONS

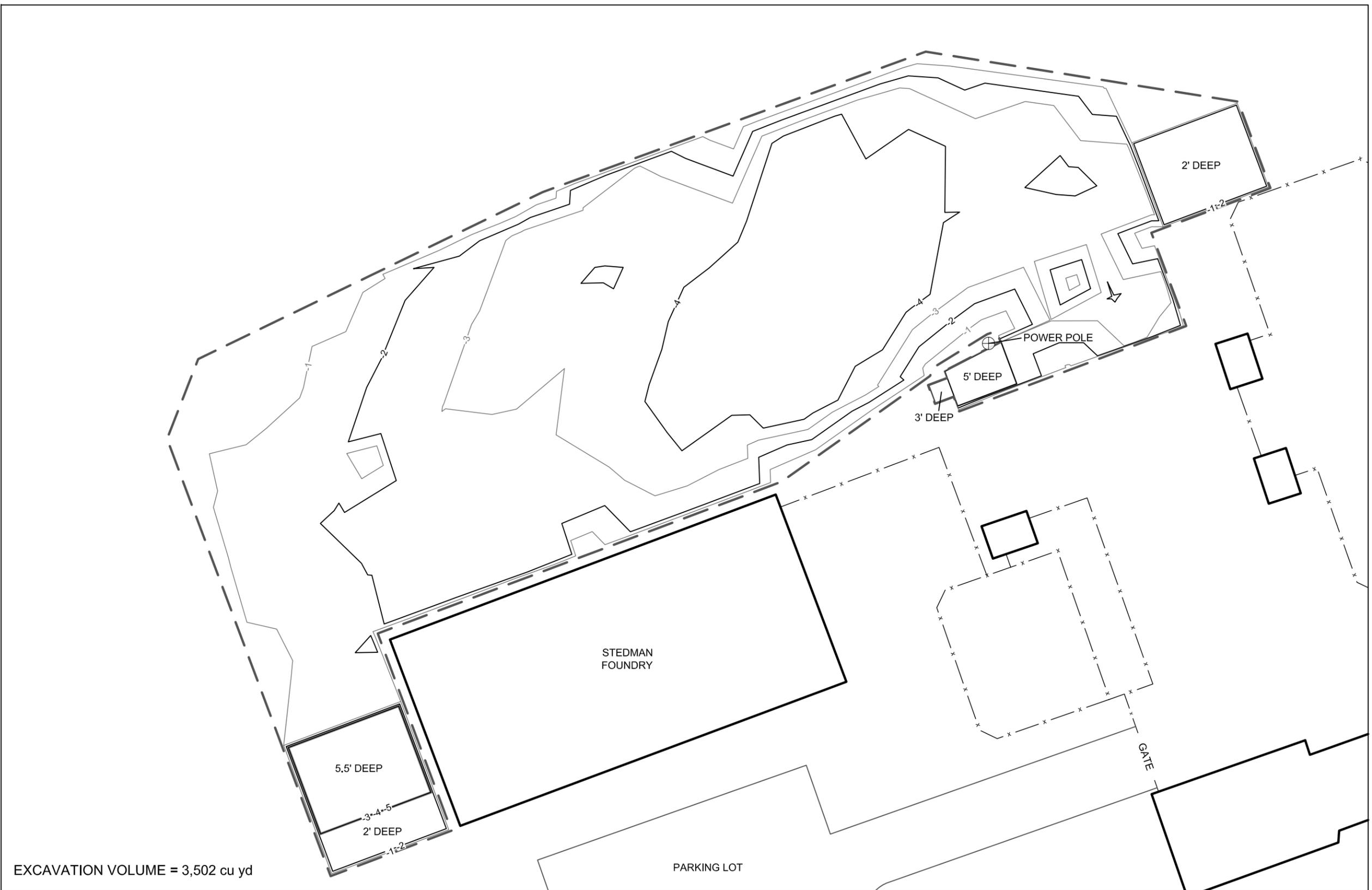
NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
 Contract No. 410001

SPRING MEADOW LAKE STATE PARK
BACKFILL / GRADING PLAN

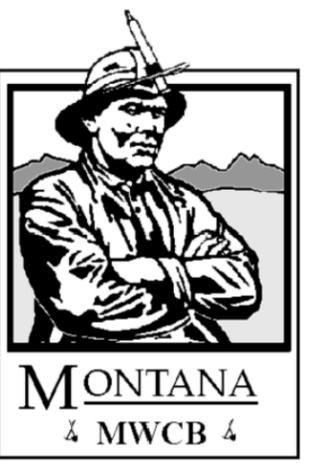
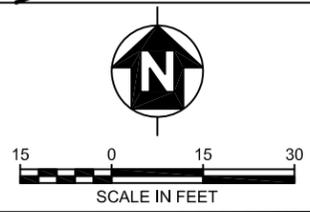
Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 4-PARK REGRADE
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 4 OF 8
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	
DATE: 5 / 2009	
REV. NO. 1	DATE: 2 / 2010



EXCAVATION VOLUME = 3,502 cu yd

- GENERAL FEATURES:
-  BUILDING
 -  -2- EXCAVATION DEPTH CONTOUR-MAJOR (2' INTERVAL)
 -  -1- EXCAVATION DEPTH CONTOUR-MINOR (1' INTERVAL)
 -  x FENCE
 -  - - - - - EXTENT OF EXCAVATION



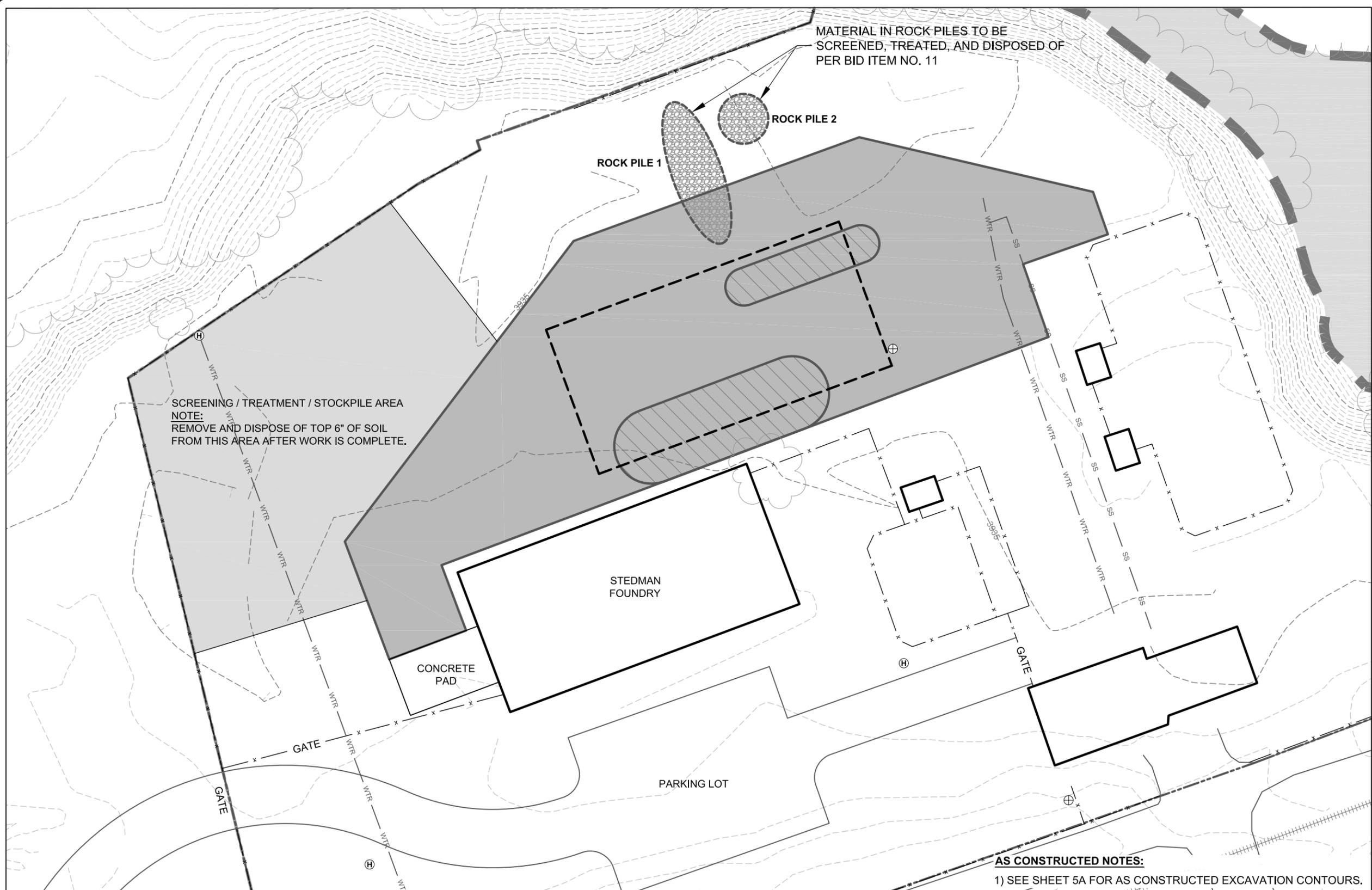
REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	12/2010	G.L.S.

Spring Meadow Lake Reclamation Project
 Lewis & Clark County, Montana
 Contract No. 410001
MONTANA WILDLIFE CENTER
 EXCAVATION
 AS CONSTRUCTED

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 5A-MWC-EXCAVATION
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 5A
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 1	
DATE: 2 / 2010	



MATERIAL IN ROCK PILES TO BE SCREENED, TREATED, AND DISPOSED OF PER BID ITEM NO. 11

SCREENING / TREATMENT / STOCKPILE AREA
NOTE:
REMOVE AND DISPOSE OF TOP 6" OF SOIL FROM THIS AREA AFTER WORK IS COMPLETE.

ROCK PILE 1

ROCK PILE 2

STEDMAN
FOUNDRY

CONCRETE
PAD

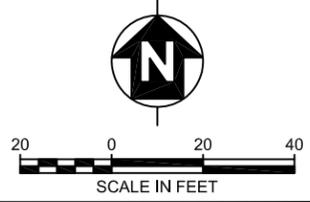
PARKING LOT

AS CONSTRUCTED NOTES:
1) SEE SHEET 5A FOR AS CONSTRUCTED EXCAVATION CONTOURS.

- GENERAL FEATURES:**
- BUILDING
 - FORMER BUILDING
 - ELEVATION CONTOUR-MAJOR (5' INTERVAL)
 - ELEVATION CONTOUR-MINOR (1' INTERVAL)
 - FENCE
 - FIRE HYDRANT

- TREE
- UTILITY POLE
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- UTILITY-SANITARY SEWER
- UTILITY-WATER LINE

- 24" EXCAVATION DEPTH SOIL REMOVAL AREA
- EXCAVATION DEPTH TO BE DETERMINED IN FIELD BY ENGINEER



MONTANA
& MWCBC



REVISIONS

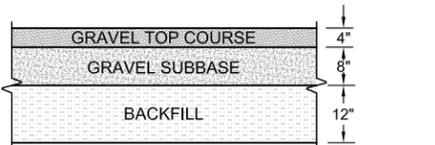
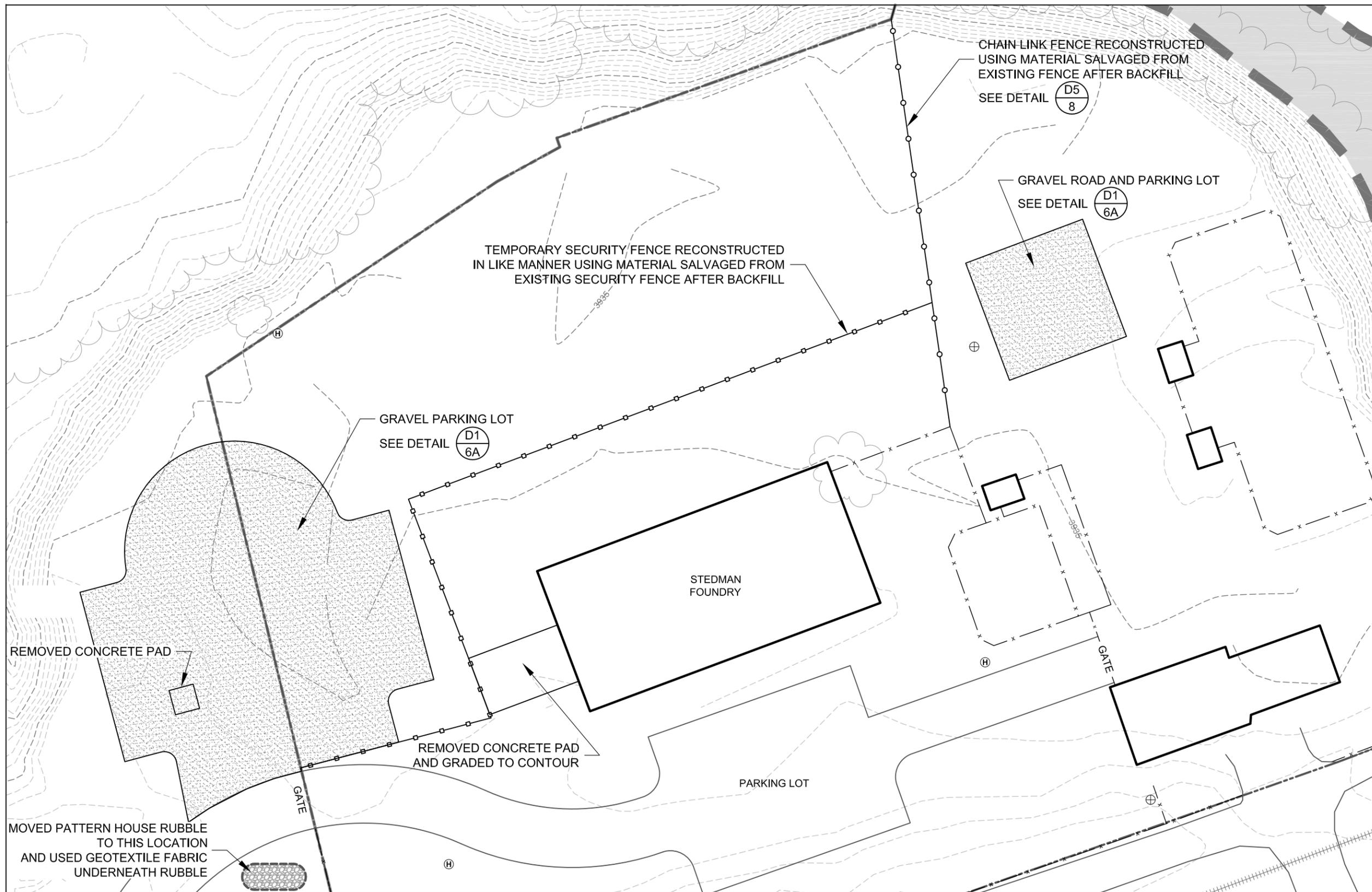
NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

**Spring Meadow Lake
Reclamation Project**
Lewis & Clark County, Montana
Contract No. 410001

**MONTANA WILDLIFE CENTER
EXCAVATION PLAN**

Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

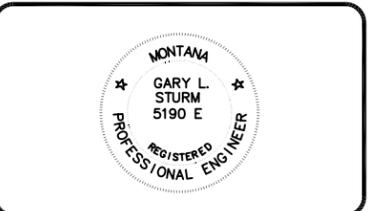
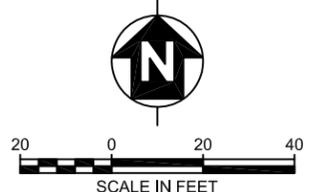
DRAWING NAME	SHEET 5-MWC-EXCAVATION
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 5 OF 8
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	
DATE: 5 / 2009	
REV. NO. 1	
DATE: 2 / 2010	



GRAVEL ROAD AND PARKING LOT CONSTRUCTION DETAIL (D1/6A)
NOT TO SCALE

GENERAL FEATURES:

- BUILDING
- ELEVATION CONTOUR-MAJOR (5' INTERVAL)
- ELEVATION CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- TEMPORARY SECURITY FENCE
- FIRE HYDRANT
- TREE
- UTILITY POLE
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE



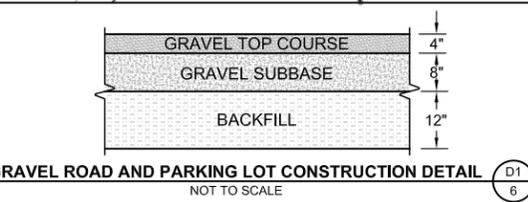
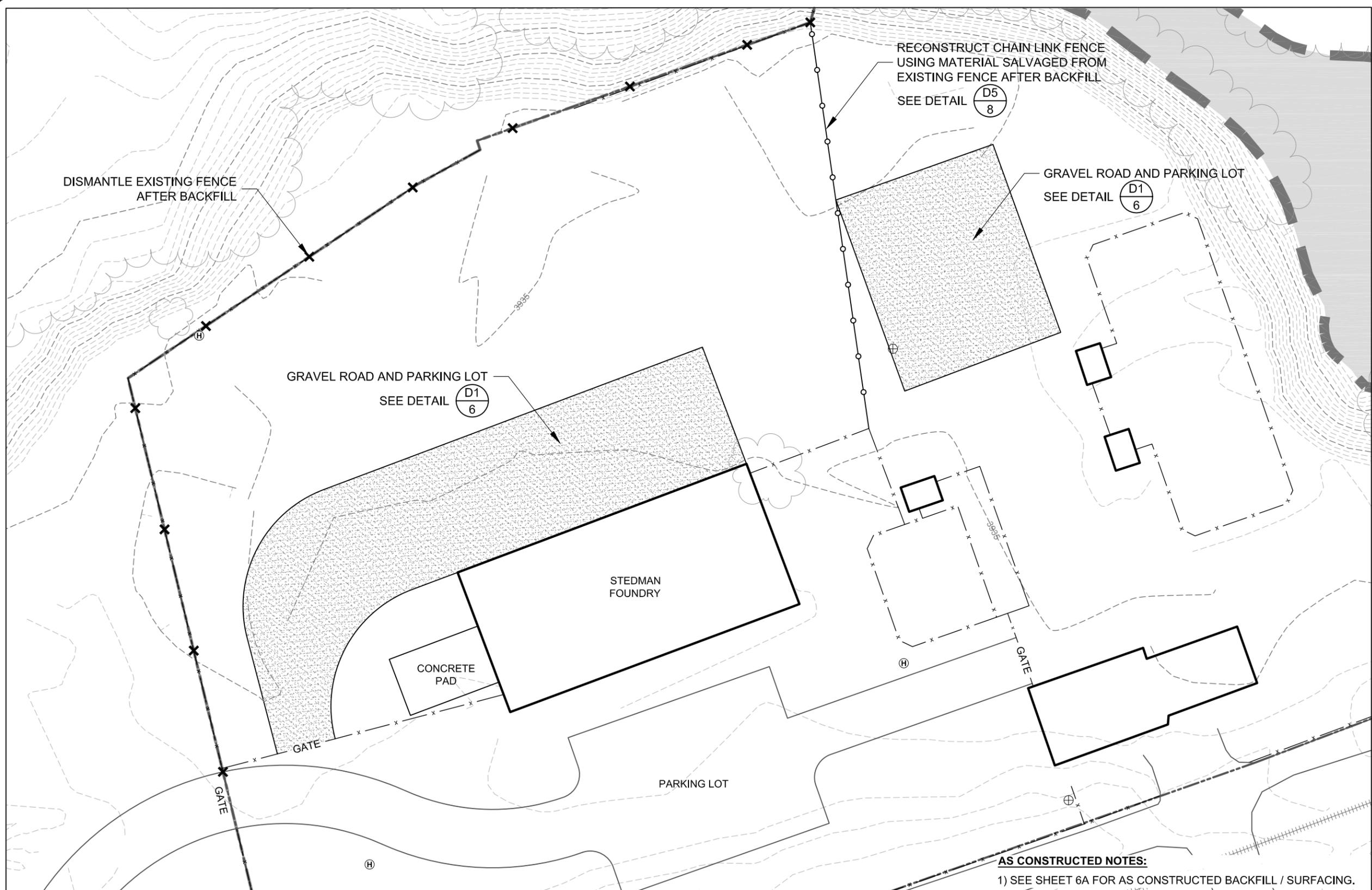
REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	REVISE NORTH SLOPE	9/2009	G.L.S.
2	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
 Contract No. 410001
MONTANA WILDLIFE CENTER
 BACKFILL / SURFACING
 AS CONSTRUCTED

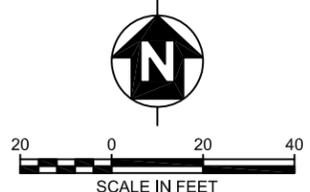
Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 6A-MWC-REGRADE
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 6A
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 2	
DATE: 2 / 2010	



- GENERAL FEATURES:**
- BUILDING
 - ELEVATION CONTOUR-MAJOR (5' INTERVAL)
 - ELEVATION CONTOUR-MINOR (1' INTERVAL)
 - FENCE
 - RECONSTRUCTED CHAIN LINK FENCE
 - FIRE HYDRANT
 - TREE
 - UTILITY POLE
 - MONTANA WILDLIFE CENTER PROPERTY LINE
 - SPRING MEADOW LAKE SITE PROPERTY LINE

AS CONSTRUCTED NOTES:
 1) SEE SHEET 6A FOR AS CONSTRUCTED BACKFILL / SURFACING.



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
 Lewils & Clark County, Montana
 Contract No. 410001

MONTANA WILDLIFE CENTER
 BACKFILL / SURFACING PLAN

Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 6-MWC-REGRADE
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 6
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 1	
DATE: 2 / 2010	



MONTANA
MWCBC



REVISIONS

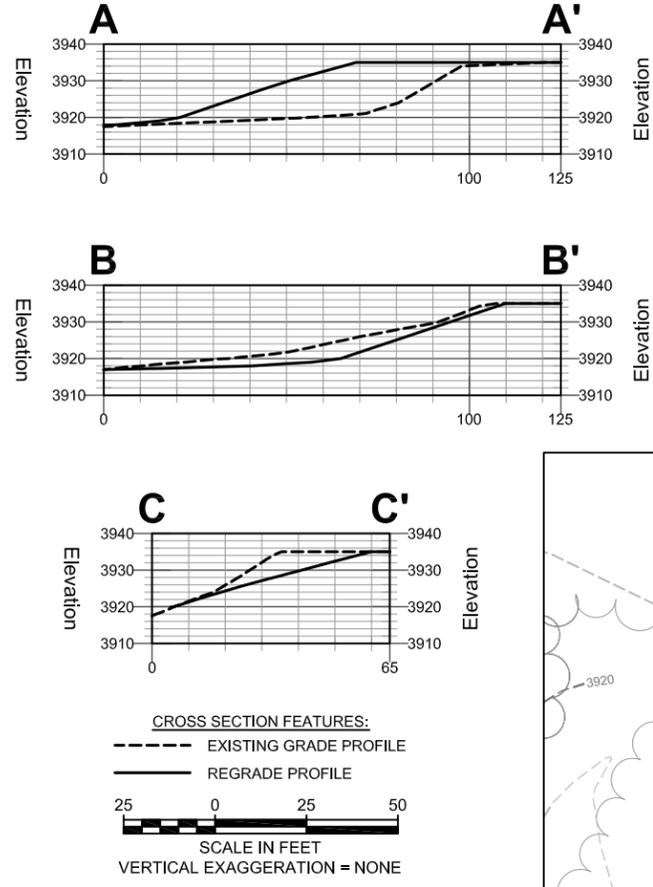
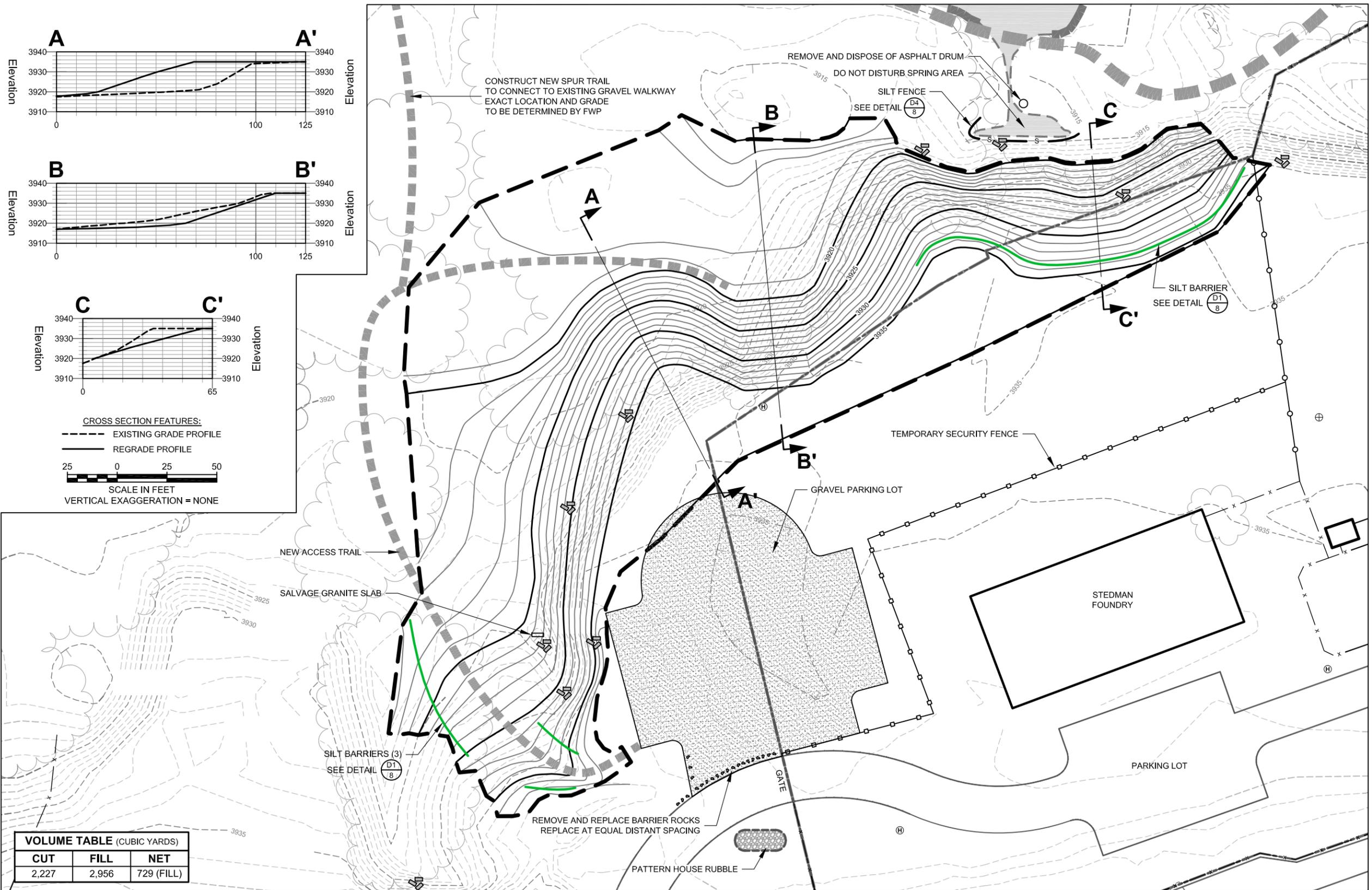
NO.	DESCRIPTION	DATE	BY:
1	REVISE NORTH SLOPE	9/2009	G.L.S.
2	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
Contract No. 410001
MONTANA WILDLIFE CENTER
NORTH AREA-GRADING
AS CONSTRUCTED

Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

DRAWING NAME	SHEET 7A-MWC-NORTH GRADING
PROJECT NUMBER	103DS1613053-01
DRAWN BY:	D.W.H.
CHK'D BY:	C.E.M.
APPR. BY:	G.L.S.
DATE:	5 / 2009
REV. NO.	2
DATE:	2 / 2010

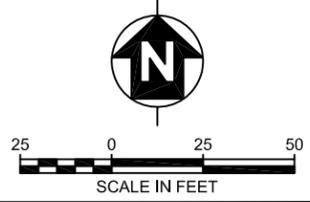
SHEET
7A
OF
8

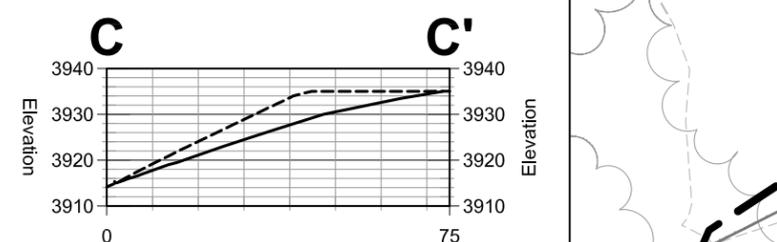
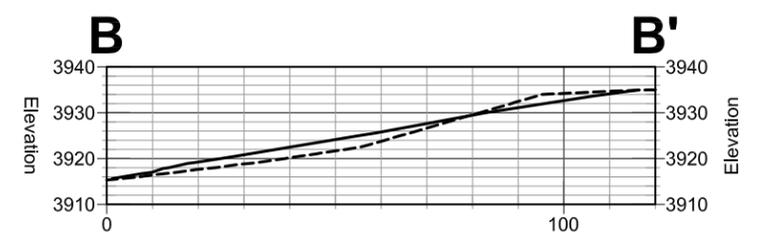
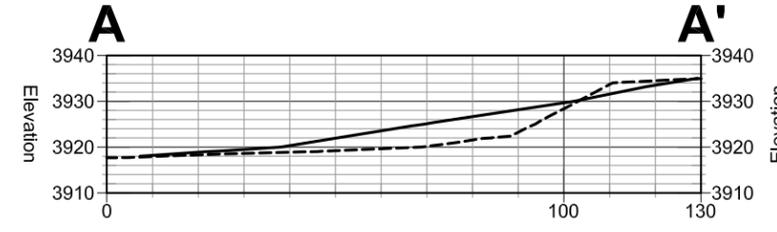
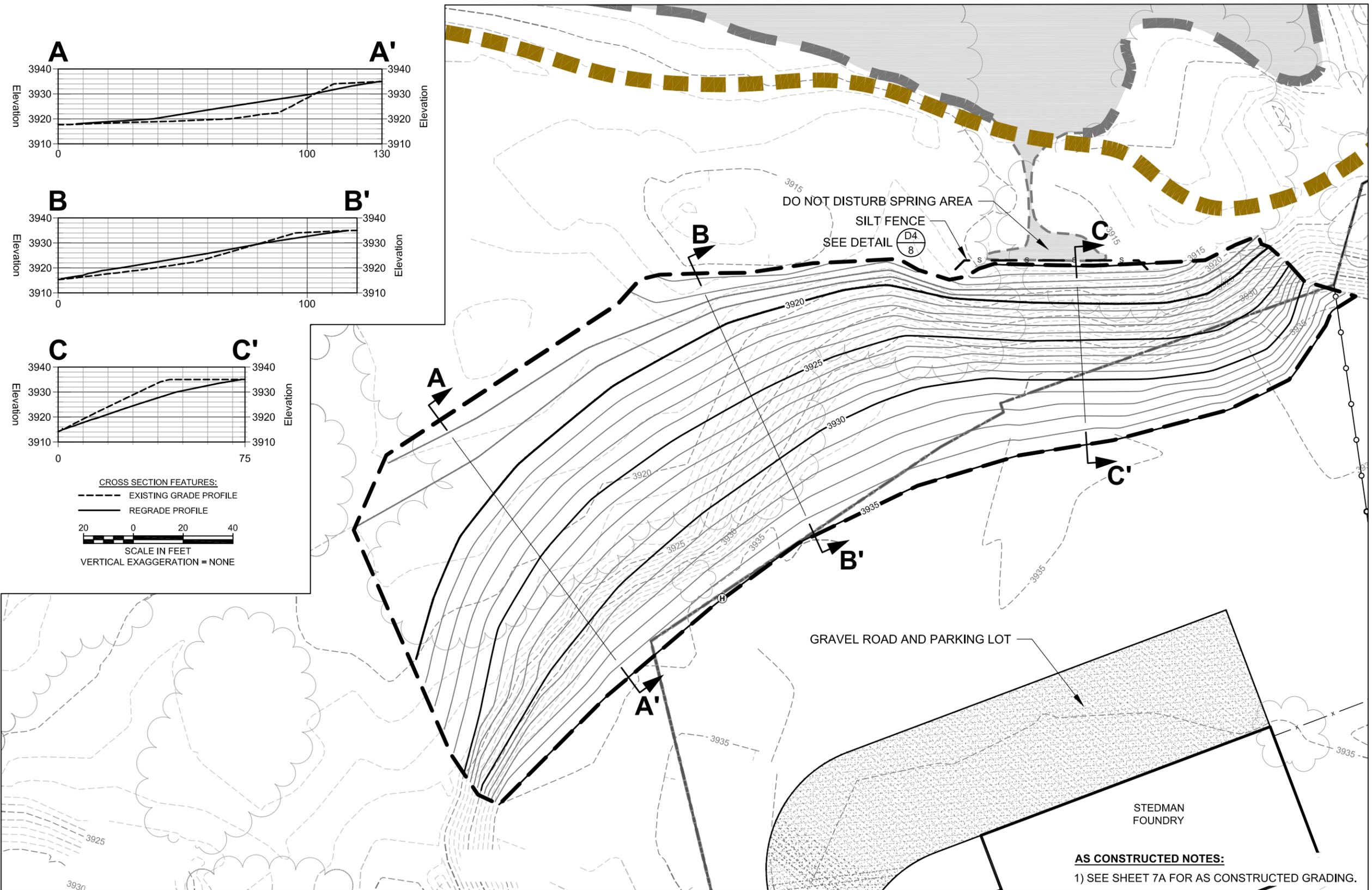


VOLUME TABLE (CUBIC YARDS)

CUT	FILL	NET
2,227	2,956	729 (FILL)

- CROSS SECTION FEATURES:**
- EXISTING GRADE PROFILE
 - REGRADE PROFILE
- SCALE IN FEET
VERTICAL EXAGGERATION = NONE
- GENERAL FEATURES:**
- BUILDING
 - EXISTING CONTOUR-MAJOR (5' INTERVAL)
 - EXISTING CONTOUR-MINOR (1' INTERVAL)
 - REGRADE CONTOUR-MAJOR (5' INTERVAL)
 - REGRADE CONTOUR-MINOR (1' INTERVAL)
 - x FENCE
 - RECONSTRUCTED CHAIN LINK FENCE
 - TEMPORARY SECURITY FENCE
 - ⊕ UTILITY POLE
 - ⊕ MONTANA WILDLIFE CENTER PROPERTY LINE
 - ⊕ SPRING MEADOW LAKE SITE PROPERTY LINE
 - ⊕ FIRE HYDRANT
 - GRAVEL WALKWAY
 - ⊕ TREE
 - ⊕ REMOVE CONCRETE DEBRIS
 - ⊕ EXTENT OF REGRADE
 - s SILT FENCE





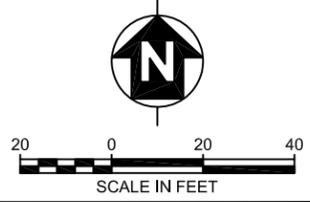
CROSS SECTION FEATURES:
 - - - - - EXISTING GRADE PROFILE
 ———— REGRADE PROFILE

20 0 20 40
 SCALE IN FEET
 VERTICAL EXAGGERATION = NONE

GENERAL FEATURES:

- BUILDING
- EXISTING CONTOUR-MAJOR (5' INTERVAL)
- EXISTING CONTOUR-MINOR (1' INTERVAL)
- REGRADE CONTOUR-MAJOR (5' INTERVAL)
- REGRADE CONTOUR-MINOR (1' INTERVAL)
- FENCE
- RECONSTRUCTED CHAIN LINK FENCE
- FIRE HYDRANT
- GRAVEL WALKWAY
- TREE
- UTILITY POLE
- MONTANA WILDLIFE CENTER PROPERTY LINE
- SPRING MEADOW LAKE SITE PROPERTY LINE
- EXTENT OF REGRADE
- SILT FENCE

AS CONSTRUCTED NOTES:
 1) SEE SHEET 7A FOR AS CONSTRUCTED GRADING.



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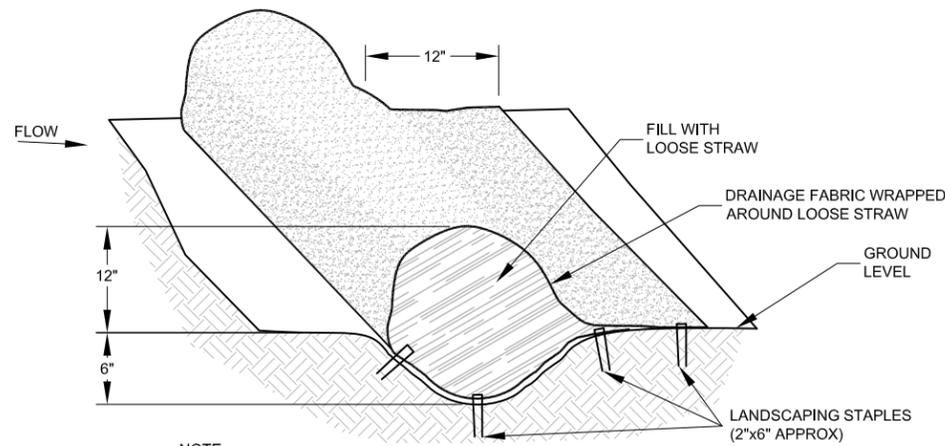
REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	REVISE NORTH SLOPE	9/2009	G.L.S.
2	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
 Contract No. 410001
MONTANA WILDLIFE CENTER
 NORTH AREA
 GRADING PLAN

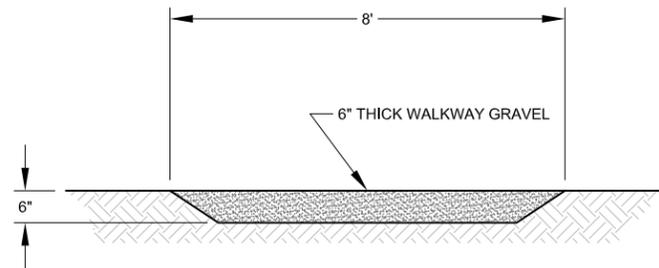
Tetra Tech EM Inc.
 7 West 6th Ave.
 Suite 612
 Helena, Montana 59601
 (406) 442-5588

DRAWING NAME	SHEET 7-MWC-NORTH GRADING
PROJECT NUMBER	103DS1613036-03
DRAWN BY: D.W.H.	SHEET 7
CHK'D BY: C.E.M.	
APPR. BY: G.L.S.	OF 8
DATE: 5 / 2009	
REV. NO. 2	
DATE: 2 / 2010	

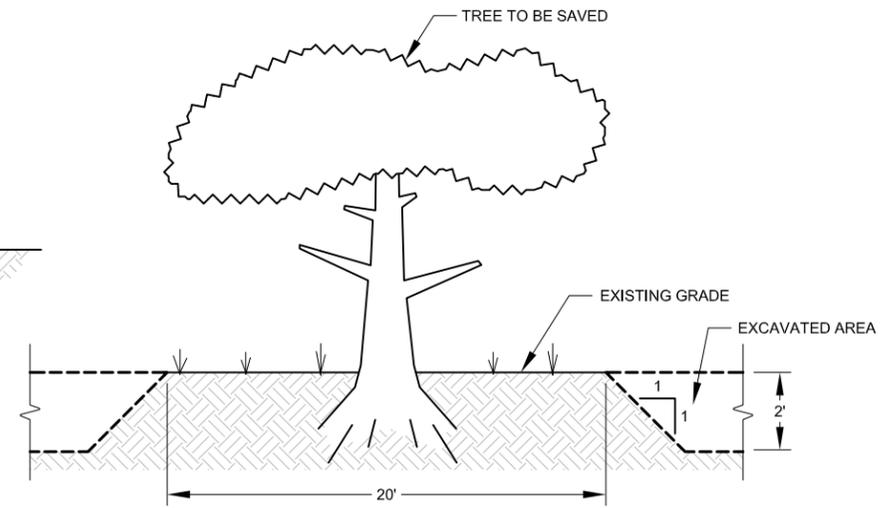


NOTE:
PREFABRICATED BARRIER ROLLS MAY BE SUBSTITUTED WITH ENGINEER APPROVAL

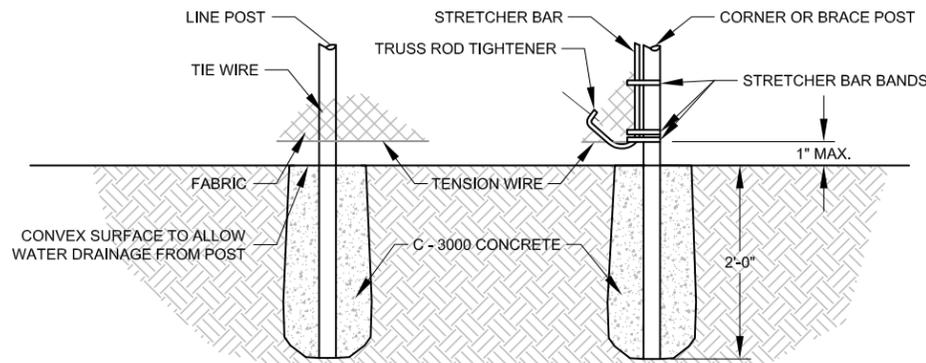
SILT BARRIER SECTION (D1)
NOT TO SCALE 8



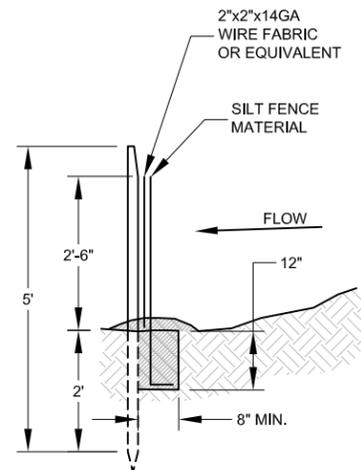
GRAVEL WALKWAY (D2)
SCALE: NONE 8



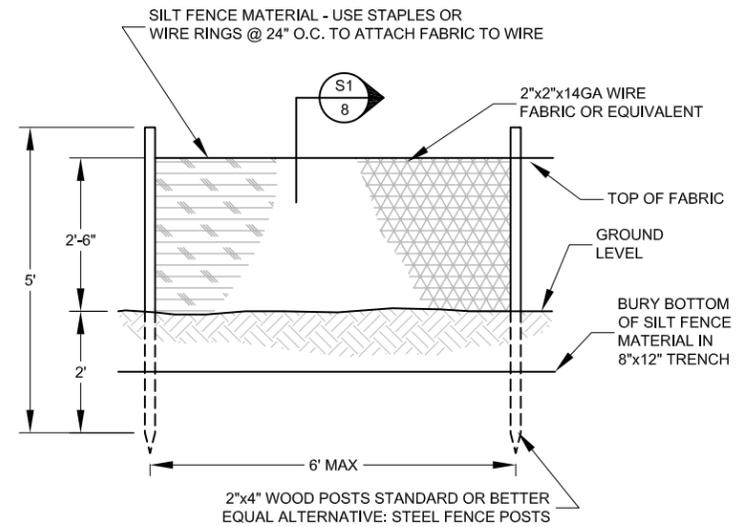
TREE TO BE SAVED (D3)
SCALE: NONE 8



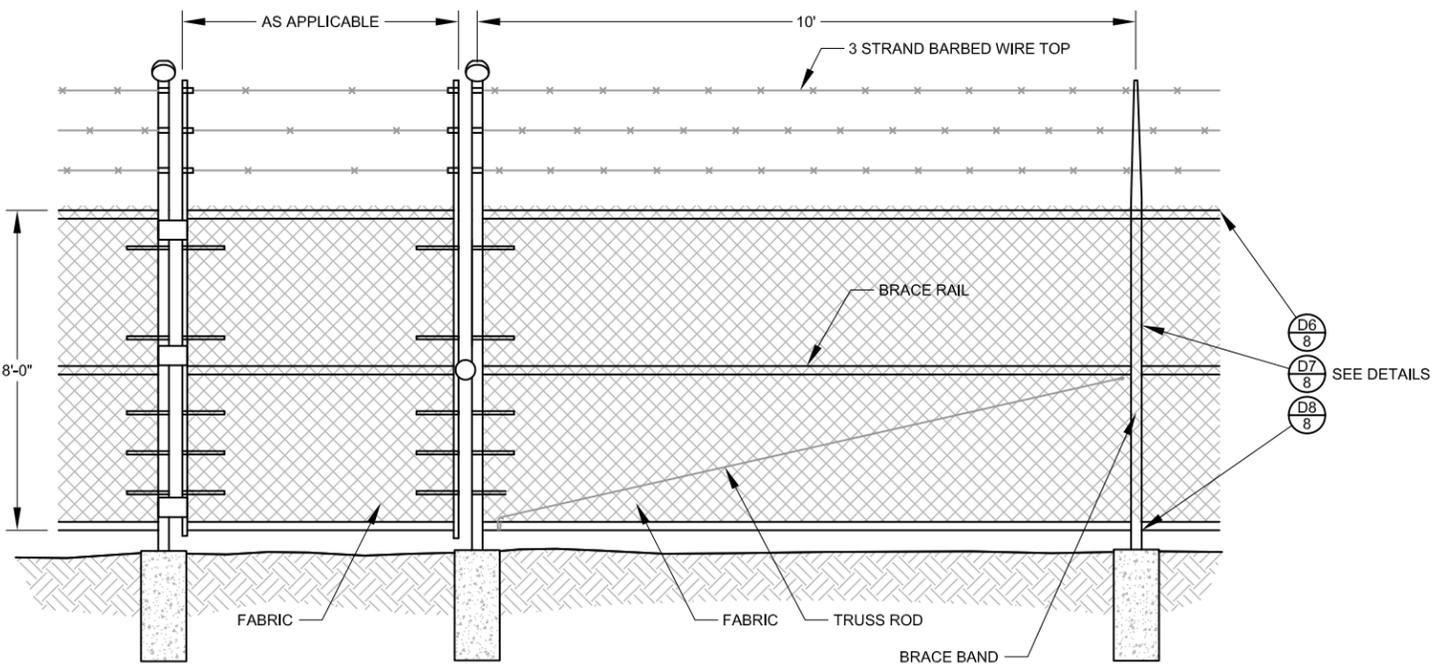
BOTTOM FENCE DETAIL (D8)
NOT TO SCALE 8



SILT FENCE SECTION (S1)
NOT TO SCALE 8



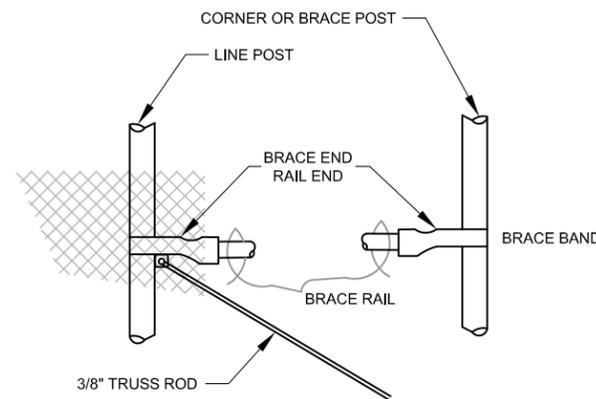
SILT FENCE DETAIL (D4)
NOT TO SCALE 8



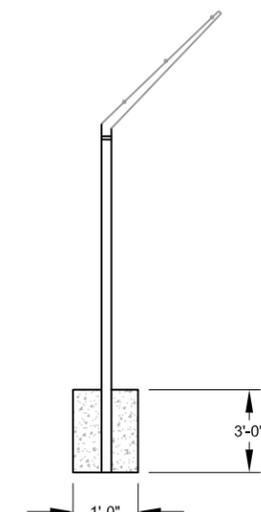
SINGLE SWING GATE
NOT TO SCALE

END PANEL
NOT TO SCALE

CHAIN LINK FENCE DETAIL (D5)
NOT TO SCALE 8



TOP FENCE DETAIL (D6)
NOT TO SCALE 8



LINE POST (D7)
NOT TO SCALE 8



MONTANA
MWCBC



REVISIONS

NO.	DESCRIPTION	DATE	BY:
1	AS CONSTRUCTED	2/2010	G.L.S.

Spring Meadow Lake Reclamation Project
Lewis & Clark County, Montana
Contract No. 410001
MISCELLANEOUS DETAILS AND CHAIN LINK FENCING DETAILS

Tetra Tech EM Inc.
7 West 6th Ave.
Suite 612
Helena, Montana 59601
(406) 442-5588

DRAWING NAME	SHEET 8-MISC AND FENCE DETAILS
PROJECT NUMBER	103DS1613036-03
DRAWN BY:	D.W.H.
CHK'D BY:	C.E.M.
APPR. BY:	G.L.S.
DATE:	5 / 2009
REV. NO.	2
DATE:	2 / 2010

SHEET
8
OF
8

APPENDIX M
CONSTRUCTION PROGRESS PHOTOGRAPH LOG

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight



Photograph 1

Jeff, Jim and Bob taking down the chain link fence.

August 5, 2009



Photograph 2

Snow fence constructed to prevent public access to Montana Wildlife Center.

August 5, 2009

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A close-up photograph of a yellow CAT D8 dozer's track system. The tracks are clean and well-maintained, showing the sprockets and rollers. A red date stamp "AUG 6 2009" is visible in the bottom right corner of the image.	<p>Photograph 3</p> <p>Clean CAT D8 dozer allowed to enter site.</p> <p>August 6, 2009</p>
 A close-up photograph of a yellow Komatsu haul truck's tire. The tire is heavily covered in dark mud, indicating it has been used in a muddy environment. A red date stamp "AUG 6 2009" is visible in the bottom right corner of the image.	<p>Photograph 4</p> <p>Muddy Komatsu haul truck which was turned away from the site.</p> <p>August 6, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow Komatsu haul truck is parked in a grassy field. The truck is viewed from a side-rear angle. The background shows a hilly landscape under a cloudy sky. A red timestamp 'AUG 7 2009' is visible in the bottom right corner of the photo.	<p>Photograph 5</p> <p>Komatsu haul truck which was not allowed on site on 8/6/09 was cleaned offsite, then allowed on site.</p> <p>August 7, 2009</p>
 A green Terex loader is shown moving a large pile of rocks. The loader's bucket is raised, dumping the rocks. The scene is outdoors with a blue sky and some trees in the background. A red timestamp 'AUG 7 2009' is visible in the bottom right corner of the photo.	<p>Photograph 6</p> <p>Terex Loader moving rock pile at the MWC.</p> <p>August 7, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow CAT D8R ripper is shown in the process of pulling out a concrete pad. The machine is positioned on a dirt and grass area adjacent to a building's foundation. The concrete pad is partially broken and being lifted. A red date stamp 'AUG 10 2009' is visible in the bottom right corner of the photo.	<p>Photograph 7</p> <p>Concrete pad pulled out near MWC foundation while ripping with CAT D8R.</p> <p>August 10, 2009</p>
 A large, deep excavation pit is shown, revealing dark, contaminated soil. The soil appears to be a mix of brown and black, indicating potential contamination. The pit is surrounded by a concrete curb and some vegetation. A red date stamp 'AUG 10 2009' is visible in the bottom right corner of the photo.	<p>Photograph 8</p> <p>Contaminated soils excavated at MWC.</p> <p>August 10, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 9</p> <p>Komatsu 400 LC Excavator excavating soil at the MWC.</p> <p>August 11, 2009</p>
	<p>Photograph 10</p> <p>Contaminated soils pumping through the soil at the MWC.</p> <p>August 11, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

			<p>Photograph 11</p> <p>Pit excavated at the MWC.</p> <p>August 13, 2009</p>
			<p>Photograph 12</p> <p>CAT D8R piling excavated soils at the MWC.</p> <p>August 13, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 13</p> <p>Snow fence erected to keep pedestrians out of nature trail/construction area.</p> <p>August 13, 2009</p>
	<p>Photograph 14</p> <p>Haul truck loaded with top soil tarping load before departing site.</p> <p>August 13, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 15</p> <p>Attempted excavation of buried concrete foundations and waste at the MWC.</p> <p>August 14, 2009</p>
	<p>Photograph 16</p> <p>Clearing and grubbing at the northeast area of the site.</p> <p>August 14, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 17</p> <p>Excavator breaking up concrete at the MWC.</p> <p>August 17, 2009</p>
	<p>Photograph 18</p> <p>Excavator excavating waste pit at the MWC.</p> <p>August 17, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 19</p> <p>Excavation of contaminated material at the MWC.</p> <p>August 18, 2009</p>
	<p>Photograph 20</p> <p>Excavator excavating soil in 3 foot excavation area.</p> <p>August 18, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 21</p> <p>Large piece of concrete excavated at the MWC.</p> <p>August 19, 2009</p>
	<p>Photograph 22</p> <p>Groundwater encountered during excavation at the MWC.</p> <p>August 19, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 23</p> <p>CAT D8R filling in excavation areas at MWC..</p> <p>August 20, 2009</p>
	<p>Photograph 24</p> <p>Tetra Tech and DEQ personnel preparing soil samples for TCLP analysis.</p> <p>August 20, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 25</p> <p>Excavation of soil at SMLSP.</p> <p>August 21, 2009</p>
	<p>Photograph 26</p> <p>Screening area at SMLSP.</p> <p>August 21, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is positioned on a dirt path, loading a pile of dark soil into the bed of a dark-colored haul truck. The background shows a clear blue sky and some sparse vegetation. A red timestamp '2009 08 24' is visible in the bottom right corner of the photo.	<p>Photograph 27</p> <p>Excavator loading previously excavated soil into haul truck.</p> <p>August 24, 2009</p>
 A yellow excavator is shown in a grassy field, loading soil into a haul truck. The background features a line of trees and a clear blue sky. A red timestamp '2009 08 24' is visible in the bottom right corner of the photo.	<p>Photograph 28</p> <p>Excavator loading soil from State Park into haul truck to be taken to screening pile.</p> <p>August 24, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing a yellow excavator at a construction site. In the background, there is a large building with a blue roof and some trees. The date 'AUG 25 2009' is visible in red text at the bottom right of the image.	<p>Photograph 29</p> <p>Excavator removing top soil at southwest side of the site.</p> <p>August 25, 2009</p>
 A close-up photograph of an excavation site. The ground is dark and appears to be composed of clay-textured waste. The date 'AUG 25 2009' is visible in red text at the bottom right of the image.	<p>Photograph 30</p> <p>Clay textured waste unearthed during excavation in the state park excavation area.</p> <p>August 25, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight



Photograph 31
Tetra Tech personnel testing concrete and screened soil mix.
August 26, 2009



Photograph 32
Water truck watering pile of screened soil.
August 26, 2009

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 33</p> <p>Dent in fuel tank of haul truck caused by traffic incident.</p> <p>August 31, 2009</p>
	<p>Photograph 34</p> <p>Excavation of material at west side of the State Park excavation area.</p> <p>August 31, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown in the process of loading a large concrete block into the bed of a yellow haul truck. The scene is set in an open, excavated area with some trees and hills in the background. A red date stamp 'SEP 1 2009' is visible in the bottom right corner of the photo.	<p>Photograph 35</p> <p>Excavator loading concrete into haul truck.</p> <p>September 1, 2009</p>
 A close-up photograph of the ground surface, showing dark, uneven soil with various pieces of debris and waste scattered throughout. A red date stamp 'SEP 1 2009' is visible in the bottom right corner of the photo.	<p>Photograph 36</p> <p>Waste present during excavation at the State Park excavation area.</p> <p>September 1, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is positioned on a dirt path, loading soil into the bed of a white haul truck. The background shows a line of green trees under a clear blue sky. A red timestamp 'SEP 2 2009' is visible in the bottom right corner of the photo.	<p>Photograph 37</p> <p>Excavator loading soil into haul truck.</p> <p>September 2, 2009</p>
 A yellow excavator is shown loading a pile of grey material into a large hopper. In the background, there is a screening plant structure and other construction equipment. A red timestamp 'SEP 2 2009' is visible in the bottom right corner of the photo.	<p>Photograph 38</p> <p>Excavator loading waste into the screening plant hopper.</p> <p>September 2, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown in the process of loading a pile of soil into the bed of a yellow haul truck. The scene is set in an open, cleared area with some trees in the background under a clear blue sky. A red date stamp 'SEP 3 2009' is visible in the bottom right corner of the photo.	<p>Photograph 39</p> <p>Excavator loading soil into haul truck.</p> <p>September 3, 2009</p>
 A yellow excavator equipped with a hydraulic breaker attachment (Jackhoe) is breaking up a large concrete block. The ground is uneven and rocky. A large green tree is on the right side of the frame. The background shows a hilly landscape under a cloudy sky. A red date stamp 'SEP 3 2009' is visible in the bottom right corner of the photo.	<p>Photograph 40</p> <p>Jackhoe breaking up concrete block in northwestern area of the State Park excavation area.</p> <p>September 3, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 41</p> <p>Northern entrance to State Park excavation area secure for the weekend.</p> <p>September 4, 2009</p>
	<p>Photograph 42</p> <p>Southern entrance to State Park excavation area secure for the weekend.</p> <p>September 4, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing a green wheel loader in the foreground on a dirt surface. In the background, there is a large yellow screening plant and other construction equipment. The sky is blue with some clouds. A red date stamp 'SEP 8 2009' is visible in the bottom right corner of the image.	<p>Photograph 43</p> <p>Centennial Concrete personnel constructing the screening plant at the MWC.</p> <p>September 8, 2009</p>
 A photograph of a white truck with a water sprayer attachment, spraying water onto a dirt area. A person is visible in the foreground, possibly performing a task. The background shows trees and a clear sky. A red date stamp 'SEP 8 2009' is visible in the bottom right corner of the image.	<p>Photograph 44</p> <p>Karl Konrad performing depth QC analysis on soil pedestals.</p> <p>September 8, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown in the process of loading a yellow haul truck. The excavator's arm is extended, and its bucket is positioned over the truck's bed. The scene is set in an open, dirt-covered area with some greenery in the background under a clear blue sky. A red date stamp "SEP 9 2009" is visible in the bottom right corner of the photo.	<p>Photograph 45</p> <p>Excavator loading haul truck at the State Park.</p> <p>September 9, 2009</p>
 A yellow excavator is shown loading a screening plant. The excavator's arm is extended, and its bucket is positioned over the screening plant's hopper. The scene is set in an open, dirt-covered area with some greenery in the background under a clear blue sky. A red date stamp "SEP 9 2009" is visible in the bottom right corner of the photo.	<p>Photograph 46</p> <p>Excavator loading the screening plant with soil at the MWC.</p> <p>September 9, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 47</p> <p>Snow fence erected to prevent public access.</p> <p>September 10, 2009</p>
	<p>Photograph 48</p> <p>Excavator and dozer spreading rock for backfill at the State Park.</p> <p>September 10, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 49</p> <p>Rock stockpiled at the MWC.</p> <p>September 11, 2009</p>
	<p>Photograph 50</p> <p>Excavator feeding soil into the screening plant hopper.</p> <p>September 11, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown in the process of loading a large, rectangular concrete block into the bed of a dark-colored haul truck. The scene is set outdoors on a construction site with a clear blue sky and distant hills. A red date stamp "SEP 14 2009" is visible in the bottom right corner of the photo.	<p>Photograph 51</p> <p>Excavator loading concrete into haul truck.</p> <p>September 14, 2009</p>
 An orange excavator is positioned next to a large pile of dark, rocky material. The excavator's bucket is raised, having just separated a large rock from the pile. A haul truck is partially visible to the left, ready to be loaded. The background shows a clear sky and distant mountains. A red date stamp "SEP 14 2009" is visible in the bottom right corner of the photo.	<p>Photograph 52</p> <p>Excavator separating large rock from pile and loading it onto haul truck.</p> <p>September 14, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 53</p> <p>Excavator removing soil at MWC.</p> <p>September 15, 2009</p>
	<p>Photograph 54</p> <p>Excavator loading loader with soil at MWC.</p> <p>September 15, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 55</p> <p>Excavator removing soil at northern State Park area.</p> <p>September 16, 2009</p>
	<p>Photograph 56</p> <p>Treatment plant arrives on site at the MWC.</p> <p>September 16, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 57</p> <p>Soil stockpiling at the State Park area.</p> <p>September 17, 2009</p>
	<p>Photograph 58</p> <p>Brush chipping at the State Park area.</p> <p>September 17, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight



Photograph 59

Water truck
applying water
for dust
suppression at
the State Park
area.

September 18,
2009



Photograph 60

Soil loading and
transport and
brush chipping
at the State Park
area.

September 18,
2009

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow tracked excavator, model PC 400 LC, is mounted on a multi-axle trailer. The excavator's tracks are visible, and the machine is positioned on a dirt surface. A red date stamp 'SEP 21 2009' is visible in the bottom right corner of the photo.	<p>Photograph 61</p> <p>Excavator cleaned and ready for transport to Head Lane soil excavation area.</p> <p>September 21, 2009</p>
 A construction site featuring a batch plant under construction. A white truck with a red crane is positioned on the left, and a green wheel loader is on the right. The background shows trees and a clear blue sky. A red date stamp 'SEP 21 2009' is visible in the bottom right corner of the photo.	<p>Photograph 62</p> <p>Batch plant being constructed.</p> <p>September 21, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 63</p> <p>Centennial Concrete workers constructing batch plant.</p> <p>September 22, 2009</p>
	<p>Photograph 64</p> <p>Dumping and spreading topsoil at the State Park.</p> <p>September 22, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing a concrete batch plant. A tall, cylindrical silo stands on a metal frame. An orange excavator is positioned in front of the silo, and a white concrete mixer truck is parked to the right. A green tractor is visible on the left. The date "SEP 23 2009" is printed in red at the bottom right of the image.	<p>Photograph 65</p> <p>Truck filling batch plant with cement.</p> <p>September 23, 2009</p>
 A close-up photograph of an orange excavator feeding soil into a hopper of a concrete batch plant. The hopper is part of a tall metal structure. A concrete mixer truck is parked in the foreground. The date "SEP 23 2009" is printed in red at the bottom right of the image.	<p>Photograph 66</p> <p>Excavator feeding soil into batch plant hopper.</p> <p>September 23, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 67</p> <p>Excavator removing concrete from north slope of the Wildlife Center.</p> <p>September 24, 2009</p>
	<p>Photograph 68</p> <p>Soil piles treated with 10% cement.</p> <p>September 24, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 69</p> <p>Haul truck dumping clean soil at State Park.</p> <p>September 25, 2009</p>
	<p>Photograph 70</p> <p>Loader moving treated soil at MWC.</p> <p>September 25, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A green wheel loader is shown in a construction site, moving soil into a hopper. The loader is positioned on a dirt surface, and a large pile of soil is visible in the background. A red timestamp "SEP 29 2009" is visible in the bottom right corner of the photo.	<p>Photograph 71</p> <p>Loader moving soil to the hopper.</p> <p>September 29, 2009</p>
 A haul truck is shown dumping soil from a pup-trailer. The truck is positioned on a dirt surface, and a large pile of soil is visible in the background. A red timestamp "SEP 29 2009" is visible in the bottom right corner of the photo.	<p>Photograph 72</p> <p>Haul truck dumping pup-trailer of soil at the State Park.</p> <p>September 29, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing a concrete mixer truck at a construction site. The truck is positioned under a large metal structure, likely a conveyor system. A worker is visible near the truck. The ground is muddy and there are piles of material. A red date stamp 'SEP 30 2009' is visible in the bottom right corner of the photo.	<p>Photograph 73</p> <p>Workers cleaning treatment plant loading area.</p> <p>September 30, 2009</p>
 A photograph of a concrete mixer truck on a muddy construction site. The truck is driving on a path of mud. In the background, another similar truck is visible. The sky is overcast. A red date stamp 'SEP 30 2009' is visible in the bottom right corner of the photo.	<p>Photograph 74</p> <p>Cement truck hauling treated soil to pile.</p> <p>September 30, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 75</p> <p>Loader dropping soil into batch plant hopper.</p> <p>October 1, 2009</p>
	<p>Photograph 76</p> <p>CAT D5G compacting applied soil.</p> <p>October 1, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 77</p> <p>Pedestal stake showing soil backfill at 24 inches; ribbon height.</p> <p>October 2, 2009</p>
	<p>Photograph 78</p> <p>Excavator removing soil at offsite borrow area at Head Lane.</p> <p>October 2, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 79</p> <p>CAT D5 spreading soil at the State Park.</p> <p>October 5, 2009</p>
	<p>Photograph 80</p> <p>Excavator removing soil at off-site borrow area at Head Lane.</p> <p>October 5, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 81</p> <p>Frost on the ground at the State Park.</p> <p>October 6, 2009</p>
	<p>Photograph 82</p> <p>Water truck applying water behind D5 spreading soil.</p> <p>October 6, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A blue haul truck is shown in a construction area, pulling into a site. The truck is positioned on a dirt surface, and there is a large pile of treated soil in the background. A red safety fence is visible in the foreground. The date stamp 'OCT 7 2009' is visible in the bottom right corner of the photo.	<p>Photograph 83</p> <p>Haul truck pulling in to be loaded with treated soil at the MWC.</p> <p>October 7, 2009</p>
 A yellow loader is shown piling treated soil. The loader is positioned on a dirt surface, and there is a large pile of treated soil in the background. The date stamp 'OCT 7 2009' is visible in the bottom right corner of the photo.	<p>Photograph 84</p> <p>Loader piling treated soil for loading.</p> <p>October 7, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 85</p> <p>Truck dumping pup of clean soil at State Park.</p> <p>October 8, 2009</p>
	<p>Photograph 86</p> <p>CAT D5 spreading soil over rock at State Park.</p> <p>October 8, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 87</p> <p>Truck dumping pup of clean soil at State Park.</p> <p>October 8, 2009</p>
	<p>Photograph 88</p> <p>CAT D5 spreading soil over rock at State Park.</p> <p>October 8, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight



Photograph 89

Last of the soil
to be treated at
MWC.

October 12,
2009



Photograph 90

Truck unloading
cover soil at
State park

October 12,
2009

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 91</p> <p>Dismantling the batch treatment plant.</p> <p>October 13, 2009</p>
	<p>Photograph 92</p> <p>Karl Konrad digging in new soil borrow area.</p> <p>October 13, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 93</p> <p>Excavator creating depression at State Park.</p> <p>October 14, 2009</p>
	<p>Photograph 94</p> <p>Weeds and soil sample collected from new soil borrow area.</p> <p>October 14, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow grader is shown in the distance, working on a large, flat, dirt-covered area. The background features trees and hills under a cloudy sky. A red timestamp 'OCT 15 2009' is visible in the bottom right corner of the photo.	<p>Photograph 95</p> <p>Grader scraping new trail route.</p> <p>October 15, 2009</p>
 A yellow compactor is shown in the foreground, working on a dirt surface. The background features trees and hills under a cloudy sky. A red timestamp 'OCT 15 2009' is visible in the bottom right corner of the photo.	<p>Photograph 96</p> <p>Compacter compacting new trail route.</p> <p>October 15, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 97</p> <p>Excavator removing treated soil near building.</p> <p>October 19, 2009</p>
	<p>Photograph 98</p> <p>Loader loading haul truck with treated material at the MWC.</p> <p>October 19, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 99</p> <p>Haul truck being loaded with treated material.</p> <p>October 20, 2009</p>
	<p>Photograph 100</p> <p>Excavator removing soil at MWC.</p> <p>October 20, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 101</p> <p>Excavation of material near MWC.</p> <p>October 21, 2009</p>
	<p>Photograph 102</p> <p>Excavator removing treated material at MWC.</p> <p>October 21, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown in the process of loading concrete into the bed of a blue truck. The excavator's arm is extended, and its bucket is positioned over the truck. The background features a construction site with various structures and a clear sky. A red timestamp 'OCT 22 2009' is visible in the bottom right corner of the photo.	<p>Photograph 103</p> <p>Excavator loading concrete at the MWC.</p> <p>October 22, 2009</p>
 A yellow excavator is shown in the process of removing a concrete pad from a field. The excavator's arm is extended, and its bucket is positioned over the concrete pad. The background features a field with dry grass and a clear sky. A red timestamp 'OCT 22 2009' is visible in the bottom right corner of the photo.	<p>Photograph 104</p> <p>Excavator removing concrete pad at western slope of MWC.</p> <p>October 22, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 105</p> <p>Spreading gravel for the trail at the State Park.</p> <p>October 23, 2009</p>
	<p>Photograph 106</p> <p>View of compacted trail.</p> <p>October 23, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 107</p> <p>Spreading rock\cobble north of Wildlife Center.</p> <p>October 26, 2009</p>
	<p>Photograph 108</p> <p>Excavator uncovering and removing portion of concrete pad located west of Wildlife Center fence.</p> <p>October 26, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight



Photograph 109

Spreading fill dirt over rock/cobble north of Stedman Foundry.

October 27, 2009



Photograph 110

Spreading “top soil” over fill north of Stedman Foundry.

October 27, 2009

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 111</p> <p>Excavator placing concrete from north slope in loader bucket.</p> <p>November 3, 2009</p>
	<p>Photograph 112</p> <p>Dozer pushing and compacting backfill at the Wildlife Center.</p> <p>November 3, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing two yellow compactors working on a dirt area. The compactors are positioned on a wide, flat dirt surface. In the background, there are trees and hills under a cloudy sky. A red date stamp 'NOV 3 2009' is visible in the bottom right corner of the image.	<p>Photograph 113</p> <p>Compacting and grading the parking area at the Wildlife Center.</p> <p>November 4, 2009</p>
 A photograph showing a worker in an orange safety vest operating a machine to prepare holes for fence posts. The worker is standing next to a large pile of dirt. The machine is a small, white, tracked vehicle with a drilling attachment. A red date stamp 'NOV 3 2009' is visible in the bottom right corner of the image.	<p>Photograph 114</p> <p>Preparing holes for fence posts at the Wildlife Center.</p> <p>November 4, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 115</p> <p>Compacting and grading the parking area at the Wildlife Center.</p> <p>November 5, 2009</p>
	<p>Photograph 116</p> <p>Preparing holes for fence posts at the Wildlife Center.</p> <p>November 5, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 117</p> <p>Building fence at the Wildlife Center.</p> <p>November 6, 2009</p>
	<p>Photograph 118</p> <p>DEQ and Tetra Tech inspecting test pit on the North Slope of the Wildlife Center.</p> <p>November 6, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 119</p> <p>Curb gutters at Country Club cleaned by Contractor after complaint.</p> <p>November 7, 2009</p>
	<p>Photograph 121</p> <p>Excavator removing debris from the north slope of the Wildlife Center.</p> <p>November 7, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 122</p> <p>Excavator breaking concrete taken from the north slope of the MWC.</p> <p>November 10, 2009</p>
	<p>Photograph 123</p> <p>Straw waddles placed on the pond slope at the State Park.</p> <p>November 10, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A photograph showing a construction site on a hillside. In the foreground, there is a field of tall, dry, brown grass. In the middle ground, a large excavator is visible on a dirt embankment. In the background, there are some buildings and a tall utility pole under a cloudy sky. A red date stamp 'NOV 11 2009' is visible in the bottom right corner of the photo.	<p>Photograph 124</p> <p>North slope of the wildlife center.</p> <p>November 11, 2009</p>
 A photograph showing a large pile of dark, rocky debris on a hillside. The foreground is covered with dry, brown grass. The sky is overcast. A red date stamp 'NOV 11 2009' is visible in the bottom right corner of the photo.	<p>Photograph 125</p> <p>Debris pile on the north slope of the wildlife center.</p> <p>November 11, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 <p>A yellow haul truck is shown from a front-quarter perspective, backing up on a gravel path. To its right is a large, conical pile of snow and debris. The background is a bright, overcast sky. A red date stamp 'NOV 12 2009' is visible in the bottom right corner of the photo.</p>	<p>Photograph 126</p> <p>Haul truck backing up to be loaded at the wildlife center.</p> <p>November 12, 2009</p>
 <p>A yellow excavator is shown from a side-rear perspective, with its bucket raised and dumping debris into a large pile. The pile consists of dark soil, rocks, and a tire. The ground is covered in snow. In the background, there is a body of water and bare trees. A red date stamp 'NOV 12 2009' is visible in the bottom right corner of the photo.</p>	<p>Photograph 127</p> <p>Excavator removing debris from the north slope of the wildlife center.</p> <p>November 12, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A yellow excavator is shown grading the north slope of the MWC. The excavator is positioned on a dirt embankment, and its arm is extended. In the background, a body of water and some trees are visible. A red date stamp "NOV 16 2009" is located in the bottom right corner of the photo.	<p>Photograph 128</p> <p>Excavator grading the north slope of the MWC.</p> <p>November 16, 2009</p>
 A large pile of debris, including asphalt, scrap metal, and concrete, is shown. The pile is situated on a dirt area. In the background, a town or city is visible. A red date stamp "NOV 16 2009" is located in the bottom right corner of the photo.	<p>Photograph 129</p> <p>A pile of asphalt, scrap metal and concrete removed from the north slope of the MWC.</p> <p>November 16, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 130</p> <p>Water truck applying water to the site for dust control.</p> <p>November 17, 2009</p>
	<p>Photograph 131</p> <p>Excavator and dozer shaping the northwestern slope of the wildlife center.</p> <p>November 17, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 132</p> <p>Excavator removing concrete to create path for nature trail.</p> <p>November 18, 2009</p>
	<p>Photograph 133</p> <p>Parking lot being rolled with a compactor.</p> <p>November 18, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 134</p> <p>Excavator tilling soil on temporary road at the State Park.</p> <p>November 19, 2009</p>
	<p>Photograph 135</p> <p>Yellow colored soil encountered while excavating the parking lot base..</p> <p>November 19, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 136</p> <p>Marking trail route west of the Wildlife Center.</p> <p>November 20, 2009</p>
	<p>Photograph 137</p> <p>Excavator excavating the parking lot base west of the Wildlife Center.</p> <p>November 20, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 138</p> <p>Excavator applying gravel to the nature trail west of the Wildlife Center.</p> <p>November 24, 2009</p>
	<p>Photograph 139</p> <p>Compacting the nature trail base west of the Wildlife Center.</p> <p>November 24, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

	<p>Photograph 140</p> <p>Compactor compacting road at the Wildlife Center.</p> <p>November 25, 2009</p>
	<p>Photograph 141</p> <p>Grader grading the parking lot south of the Wildlife Center.</p> <p>November 25, 2009</p>

Construction Photograph Log
Spring Meadow Lake Reclamation Construction Oversight

 A landscape photograph showing a wide, flat area with dry, yellowish-brown grass. In the background, there are several buildings and utility poles under a blue sky with light clouds. A single, bare tree stands in the foreground on the right. A red date stamp 'NOV 30 2009' is visible in the bottom right corner of the image.	<p>Photograph 142</p> <p>View of the northwest slope of the Wildlife Center.</p> <p>November 30, 2009</p>
 A photograph of a yellow excavator with 'CAT' on its arm, positioned on a dirt road. The excavator's bucket is lowered, and it is in the process of placing large, dark rocks. A person is standing to the right of the excavator. In the background, there are hills and a fence. A red date stamp 'NOV 30 2009' is visible in the bottom right corner of the image.	<p>Photograph 143</p> <p>Excavator placing rocks as a barrier for the parking lot west of the Wildlife Center.</p> <p>November 30, 2009</p>