Asarco File

Montana Environmental Trust Group, LLC
Trustee of the Montana Environmental Custodial Trust
By Greenfield Environmental Trust Group, Inc.,
Member

GETG
Greenfield Environmental Trust Group, Inc.

PO Box 1230, East Helena, Montana 59635
Telephone (1): (617) 448-9762
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1151883 - R8 SDMS

April 20, 2010

SENT BY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Linda Jacobson (2 Copies)
RCRA Project Manager
US EPA Region VIII
8ENF-T
1595 Wynkoop Street
Denver, Colorado 80202-1129

Betsy Burns (1 Copy)
Environmental Protection Specialist
EPA Region VIII
Montana Office
10 West 15th St., Suite 3200
Helena, MT 59626

RE: Consent Decree Civil Action No. CV 98-3-H-CCL East Helena Site
Work Performed in late March 2010 and early April 2010; Progress Report #135

Dear Linda and Betsy:

On May 5, 1998, ASARCO and the United States Environmental Protection Agency (EPA) entered into a Consent Decree (the Decree) to further the objectives of the Resource Conservation and Recovery Act (RCRA) and the Clean Water Act (CWA). On December 9, 2009, the Montana Environmental Custodial Trust (the Custodial Trust) was established as part of the larger ASARCO bankruptcy settlement agreement approved by the Bankruptcy Court (SD, Texas) and the US Federal District Court (SD, Texas). A Consent Decree and Settlement Agreement regarding Montana Sites (the Settlement Agreement) was entered into by ASARCO, US Department of Justice (DOJ), US Environmental Protection Agency (EPA), the State of Montana (the State) and the Montana Environmental

Trust Group, LLC, not individually, but solely in its representative capacity as Trustee for the Montana Environmental Custodial Trust. The Settlement Agreement describes the role and responsibilities of the Custodial Trust, which include owning, managing, and overseeing the clean-up and revitalization of ASARCO's property in East Helena, Montana (the Site). The United States and the State of Montana are the two designated beneficiaries of the Custodial Trust.

Pursuant to the Settlement Agreement, a motion to reopen the Decree and substitute the Custodial Trust for ASARCO was granted by the US Federal District Court in January 2010. As of the date of this report, EPA, DOJ and the Custodial Trust are in the process of finalizing a First Modification to the Decree that will conform to the terms of the Settlement Agreement. The Custodial Trust submits this progress report under the Decree subject to and pending the finalization of the First Modification to the Decree. Nothing herein, or in the substitution, should be interpreted or construed to constitute an unqualified acceptance of the terms of the Decree by the Custodial Trust or a waiver or release of its right to a modification of the Decree consistent with the Settlement Agreement. The Custodial Trust reserves all rights to object to those parts of the Decree that it reasonably believes are inconsistent with the Settlement Agreement. As with this report, future progress reports prescribed by the Decree, as so amended, will be submitted to EPA by the Custodial Trust.

Section XII of the Decree (Reporting: Corrective Action) requires submittal of certified monthly progress reports to EPA to describe the actions taken to achieve compliance with the Decree. The reports are to be submitted to EPA no later than the twentieth (20th) day of the subsequent month. The following describes those activities that have occurred or are related to activities that took place during late March and early April of 2010. As to actions performed by ASARCO, the Custodial Trust's predecessor-in-interest, the descriptions are based on information and belief only. The historical steps taken to achieve compliance with the Decree are contained in previous monthly progress reports.

a. **Describe the actions, progress, and status of projects which have been undertaken pursuant to Part VII of the Decree.**

2009 Cleaning and Demolition Work Plan

Not all of the facility temporary liner was installed by ASARCO's contractors prior to the Custodial Trust assuming responsibility for the site. Furthermore, liner and sandbag damage has been recently identified in certain temporary cap areas. Cleveland Wrecking Company's sub-contractor, Northwest Lining and Geotextile

returned to the facility on April 14, 2010 to repair the liner areas damaged during 2009 demolition activities and to complete unfinished work. Northwest Lining and Geotextile and/or the Trustee's contractors will perform the additional liner repairs that were recently identified in existing interim cap areas.

RCRA Facility Investigation (RFI) Phase II Site Characterization and Risk Assessment Work Plans

On March 18, 2010, the Trustee participated in a meeting with Agency representatives to discuss a range of RFI Phase II site characterization and other related issues. The outcome of this discussion was summarized in an April 1, 2001 memorandum, which was distributed to the meeting participants. A copy of this memorandum is attached to this monthly progress report. The following discussion provides an update on specific action items:

1. Construction of Seaver Park Wells and Former Landfill Wells

   On April 12 and 13, 2010, two groundwater monitoring wells located upgradient of the Seaver Park subdivision were constructed to assess the presence of naturally occurring arsenic south of Seaver Park. Although paired groundwater monitoring wells were proposed at these two locations, the lack of a shallow groundwater unit eliminated the need for paired wells. On April 14, 2010, one groundwater monitoring well was constructed downgradient of the City of East Helena former landfill. The construction of the paired groundwater monitoring wells upgradient of the landfill has been re-scheduled to coincide with the second phase of drilling (included in the draft RFI Phase II Work Plan). Representatives from EPA and Lewis and Clark County observed drilling operations for these three wells. All wells were completed and samples were collected on April 16, 2010. The laboratory analysis of arsenic in these samples will be expedited. The wells are scheduled to be sampled for the full suite of parameters in May 2010. Pursuant to Section VII, paragraph 119 of the Decree, the Trustee is providing a copy of the fully executed access agreement with the landowner of area where the Seaver Park wells were installed.

2. Lamping Field Well Sampling

   The mid-March 2010 sampling of fifteen groundwater monitoring wells located in the former Lamping field show no appreciable changes to groundwater conditions along the leading edge of the arsenic and selenium plumes. A table of the arsenic and selenium results from this sampling effort is attached to the

monthly progress report. The four groundwater well along the northern-most plume boundary will be sampled again in late April 2010.

3. Groundwater/Surface Water Interaction Evaluation
The groundwater wells to be utilized in the groundwater/surface water interaction studies include: DH-11; DH-53; DH-10A; EH-54; EH-127; and EH-131. Four piezometers and staff gauges have been installed in a nested fashion in DH-11, DH-53, EH-54, and EH-127. Mini-piezometers and staff gauges have been installed at two locations above the smelter dam within the active channel of the Prickly Pear Creek per the Work Plan. The initial water level measurements at these locations have been obtained. Transducers have been placed in groundwater monitoring wells EH-128 and EH-132. Data collection from these instruments will continue through September 2010.

4. Delivery of RFI Phase 1 Final Report
A compact disc of the RFI Phase 1 Final report was hand-delivered to James Swierc.

5. Agency comments on Phase II RFI Site Characterization Work Plan
The Agency issued conditional approval of the Phase II RFI Site Characterization Work Plan (the RFI Work Plan) on March 24, 2010 which required issuance of the final RFI Work Plan within 30 days and a standalone document setting forth health and safety, borehole abandonment, community relations, project management, quality assurance and quality control plans and other plans (the Standalone Work Plan Document) within 45 days. Since receipt of the EPA's conditional approval, the Trustee and the Agency have had a number of discussions related to the Agency's comments set forth in the conditional approval letter. On April 16, 2010, the EPA extended the deadline for submittal of the final RFI Work Plan and the Standalone Work Plan Document by 30 days. The revised final RFI Work Plan and Standalone Work Plan Document are scheduled for submittal to the Agency no later than May 24, 2010.

6. Corrective Action Management Unit (CAMU)
Liner and sandbag damage has been identified on the CAMU Phase 2 cell temporary liner. Cleveland Wrecking Company's sub-contractor, Northwest Lining and Geotextile, returned to the facility on April 14, 2010 to perform the

necessary repairs to the CAMU temporary liner. The repairs are scheduled to be completed no later than April 23, 2010.

On April 8, 2010, approximately 350 gallons of water was pumped from the CAMU Phase 2 cell leak detection sump. On April 7 to 8, 2010, approximately 9,750 gallons of water was pumped from the CAMU Phase 2 cell leachate collection sump. The pumping of the leachate collection sump will continue during April 2010.

7. RI/FS Long-Term Monitoring Program

Recommendations for reducing the frequency and number of wells being sampled under the RI/FS Long-Term Monitoring Program were provided to the Agency on March 21, 2010. The Trust is awaiting comments and/or recommendations from the Agency. Once the Trust has received input from the Agency, it will prepare and issue the 2010 Groundwater and Surface Water Sampling and Monitoring Plan for Agency review and approval. On March 5, 2010, the monthly sampling of select residential groundwater wells, as prescribed in the 2009 Groundwater and Surface Water Sampling and Monitoring Plan (the May 2009 GW/SW Plan), was conducted. Copies of the March 2010 residential well notification letters, along with the corresponding laboratory analytical reports are attached to this monthly progress report.

On April 14, 2010, the residential well located at 2840 Winslow Avenue Seaver Park was sampled. The well, which is owned by Rogge Eiler, supplies water to both the 2840 Winslow Avenue and 2830 Winslow Avenue homes. Cliff Beckman, the resident living at 2840 Winslow Avenue, requested that samples be obtained from the well to assess possible links to his cat's and fish health problems. Energy Laboratory expedited the sample analysis. The results of this analysis along with correspondence to Mr. Beckman are being prepared and will be submitted in the next monthly progress report.

8. Groundwater Modeling

On April 13, 2010, a meeting with representatives from USEPA, MDEQ, Lewis and Clark County, and Hydrometrics took place to discuss groundwater modeling activities.

A summary of the correspondence and data transmitted as part of the East Helena Consent Decree in late March 2010 and early April 2010 is included in Attachment I.

b. **Identify any requirements under the Part VII of the Decree that were not completed in a timely manner, and problems or anticipated problem areas affecting compliance with the Decree.**

There were no requirements that were not completed in a timely manner nor were there problems or anticipated problem areas that may affect compliance with the Decree.

c. **Describe projects completed during the prior month, as well as activities scheduled for the next month.**

In accordance with the 2006 Interim Measures Work Plan Addendum, Final Cleaning, Soil Sampling, Backfilling, and Interim Cap Work Plan and the 2006 Interim Measures Work Plan Addendum, Former Acid Plant Sediment Drying Area Slurry Wall, Monitoring, Operation, and Maintenance Work Plan, six areas on site where interim caps have been installed[1] are being inspected on a monthly basis. These monthly inspections were expanded to include areas where above-grade demolition activities were conducted under the 2008 Interim Measures Work Plan and the 2008 and 2009 Cleaning and Demolition Project Work Plan. The most recent inspections occurred on March 3, 2010. Liner and sandbag repairs on identified interim cap areas are scheduled to conclude during the week of April 19, 2010.

In accordance with the July 2000 CAMU Design Analysis Report (Operation and Maintenance Plan), the CAMU Phase 1 cell is being inspected monthly. The most recent inspection occurred on March 2, 2010. Inspections of the CAMU Phase 2 cell temporary cover are conducted on a weekly basis. Liner and sandbag repairs on CAMU Phase 2 cell temporary cover are scheduled to conclude the week of April 19, 2010. Monthly and weekly inspections confirm that the CAMU Phase 1 and Phase 2 cells are operating as designed.

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[1] The four areas include: the former acid sediment drying area; the dross plant, breaking floor, and CSHB areas; sinter plant, crushing mill, sample mill, and acid plant dust; the acid plant gas cleaning and areas; blast furnace flue, Monier flue, and blast baghouse; and the thaw house.

During the remainder of April 2010, information will continue to be collected from peizometers, samples from the three new groundwater monitoring wells will be collected and analyzed for the extended suite of parameters, and the RFI Phase II Work Plan will be submitted. .

d. **Describe and estimate the percentage of studies completed.**

The following projects or studies are 100% complete:

- Pump and treat pilot scale testing for source area reduction of groundwater contamination;
- Jar testing (Phase I) of the East Helena PRB materials testing program;
- Slurry wall construction in the former acid plant sediment drying area;
- Interim capping project for the following areas:
    - former acid plant sediment drying area
    - dross area
    - sinter plant area
    - gas cleaning and contact sections of the acid plant
    - thaw house
    - blast furnace baghouse
    - blast furnace flue
    - Monier flue
    - sample mill
    - crushing mill
    - hopto pad
    - storage bins and gallery
    - acid dust facility
    - sinter stocking building
    - highline railroad
    - abandoned and new breaking floor buildings
    - groundwater sump
    - sinter plant, acid plant, and blast furnace baghouse stacks.
- January 2008 CAMU Phase 2 Cell Design Analyses, CAMU Phase 2 cell construction, and placement of 2008 and 2009 wastes within the CAMU Phase 2 cell;
- Slurry wall construction in the former speiss-dross plant area;

- Historic recordation tasks associated with the 2008 and 2009 Cleaning and Demolition Work Plans;
- 2008 Interim Measures Work Plan Addendum, Blast Furnace Flue and Monier Flue Cleaning and Demolition and Demolition Footprint Exposed Areas Soil Sampling obligations;
- Submittal of the Baseline Ecological Risk Assessment Work Plan (June 2009) and Field Sampling and Analysis Plan (FSAP);
- Submittal of the Human Health Risk Assessment Work Plan (October 2009); and
- Submittal of the Phase II RCRA Facility Investigation Site Characterization Work Plan (September 2009).

e. **Describe and summarize all findings to date.**

The details of findings through early March 2010 have been described and summarized in previous monthly progress reports.

f. **Describe actions being taken to address problems.**

There were no other actions required to address problems associated with the Decree.

g. **Identify changes in key personnel during the period.**

There were no significant changes in key personnel during the period.

h. **Include copies of the results of sampling and tests conducted and other data generated pursuant to work performed under Part VII of the Decree since the last Progress Report. ASARCO may submit data that has been validated and confirmed by ASARCO to supplement any prior submitted data. Updated validated and confirmed data shall be included with the RFI Report, if not delivered before.**

Copies of the March 2010 residential well notification letters, along with the respective laboratory analytical reports are attached to this monthly progress report.

Two validation packages entitled *"Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Monthly Residential Well Monitoring Program Inorganic Analyses, March 2010 Sample Event"* and *"Validation*

Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, New Well Sampling, Inorganic Analyses, March 2010 Sample Event" are attached to this monthly progress report.

i. **Describe the status of financial assurance mechanisms, including whether any changes have occurred, or are expected to occur which might affect them, and the status of efforts to bring such mechanisms back into compliance with the requirements of this Decree.**

The Custodial Trust received funds for Environmental Actions earmarked for site clean-up in connection with the ASARCO bankruptcy settlement. The Custodial Trust deposited the funds in a segregated East Helena Clean-up account and is investing and managing the funds in accordance with the provisions of the Settlement Agreement.

Please do not hesitate to call me with any questions pertaining to this transmittal.

Sincerely,

Cynthia Brooks

Montana Environmental Trust Group, LLC
Trustee of the Montana Environmental
Custodial Trust
By: Greenfield Environmental Trust Group, Inc.,
Member
By: Cynthia Brooks, President

Attachments
cc: Denise Kirkpatrick—MDEQ

CERTIFICATION
PURSUANT TO U.S. v ASARCO INCORPORATED
(CV-98-3-H-CCL, USDC, D. Montana)

I certify under penalty of law that this document, late March 2010 and early April 2010 Progress Report and all attachments, were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Signature: Cynthia Brooks

Montana Environmental Trust Group, LLC,
Trustee of the Montana Environmental Custodial Trust
By: Greenfield Environmental Trust Group Inc., Member
By: Cynthia Brooks, President
Date: April 20, 2010

ATTACHMENT 1
SUMMARY OF CORRESPONDENCE
MARCH 2010 AND EARLY APRIL 2010 PROGRESS REPORT
CONSENT DECREE: EAST HELENA SITE

DATE SENT	SENT FROM	SENT TO	SUBJECT	RESPONSE
Attached to this Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	March 2010 Residential Well Notification Letters/Results	No Formal Response Required
Attached to this Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Monthly Residential Well Monitoring Program Inorganic Analyses, March 2010 Sample Event	No Formal Response Required
Attached to this Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, New Well Sampling, Inorganic Analyses, March 2010 Sample Event	No Formal Response Required
Attached to this Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Table of March 2010 Sample Results	No Formal Response Required
Attached to this Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Fully executed access agreement with R and D Properties	No Formal Response Required

WELL ACCESS AGREEMENT

R and D Properties, with a principal address of 3612 E. Highway 12, Helena, Montana 59601 (the "Property Owner"), owner of the real property depicted on the attached plan (Exhibit I) (referred to as the "Property"), hereby grants permission to the Montana Environmental Trust Group, LLC, Trustee of the Montana Environmental Custodial Trust (the "Custodial Trust") with a principal street address of 100 Smelter Road, East Helena, MT 59635 and a mailing address of P.O. Box 1230, East Helena, MT 59635, and its agents, contractors, consultants and representatives ("Consultants"), the beneficiaries of the Custodial Trusts, including, but not limited to, the US Environmental Protection Agency (the "Agency"), the Montana Department of Environmental Quality, the Montana Department of Justice, the US Fish & Wildlife Service (collectively the "Beneficiaries), certain representatives of the City of East Helena and the Lewis & Clark County, including, but not limited to, the Water Quality Protection District and the Board of Health (the "Local Government Personnel"), the right to enter into the Property for the purposes of conducting the Activities defined below on the Property and subject to the terms and conditions herein.

"Activities" shall mean installation, maintenance, use, and closure of groundwater monitoring well(s).

For good and sufficient consideration, the receipt of which is hereby acknowledged, Property Owner hereby grants to the Custodial Trust, the Consultants, the Beneficiaries and the Local Government Personnel access to the Property to perform the Activities associated with the groundwater monitoring wells to be installed on the Property as required by the Beneficiaries and other governmental agencies (collectively the "Monitoring Well(s)"). This access agreement shall continue until such time as the Custodial Trust's monitoring program is completed to the satisfaction of the Agency or as terminated as provided herein. The Custodial Trust shall provide Property Owner with plans showing the proposed location of any Monitoring Well(s) to be installed prior to commencing any work. Property Owner shall notify the Custodial Trust in writing whether it approves of the proposed location. If Property Owner disapproves of such plans, it shall notify the Custodial Trust in writing of the reasons for such disapproval. Upon satisfaction of the requirements of the Agency, or as otherwise provided herein, all Monitoring Well(s) installed by the Custodial Trust on the Property shall be properly abandoned by the Custodial Trust at its sole cost and in accordance with applicable governmental regulations. All areas of the Property disturbed by well installation, use, monitoring, or abandonment shall be repaired and restored to their prior condition to the reasonable satisfaction of the Property Owner. Any Monitoring Well(s) installed by the Custodial Trust on the Property shall be the property of the Custodial Trust and shall be maintained by the Custodial Trust at its sole expense.

Property Owner shall have the right to request that the Custodial Trust relocate the Monitoring Well(s) at any time after the date of installation of the well(s) because the presence of such monitoring well(s) physically prevents the Property Owner's construction of new roads, sidewalks, buildable lots or buildings on the Property

occupied by the Monitoring Well(s) and/or is otherwise required by Property Owner or by a prospective purchaser of the Property. Relocation shall be at the Custodial Trust's expense. For the purpose of this agreement, "relocation of a Monitoring Well" shall mean the closure and property abandonment of an existing Monitoring Well, and the installation of a new monitoring well to an alternative location, if available. If any of the Monitoring Well(s) are required to be so relocated, Property Owner and the Custodial Trust shall cooperate in developing a plan for the new location of the Monitoring Well that reflects the location of the new roads, buildable lot preparation, sidewalks buildings and/or the property to be sold to a third-party; provided, however, that Property Owner may, in the Property Owner's sole discretion, require that the Monitoring Wells be removed from the Property at any time and for any reason. After agreement between the Property Owner and the Custodial Trust regarding the relocation, the Custodial Trust shall perform the relocation work required to relocate the Monitoring Well.

Prior to commencing the Activities on the Property, Consultants carrying out the Activities shall have a Site Safety Plan appropriate to installing groundwater Monitoring Well(s) where the groundwater and associated soil may be contaminated. The Site Safety Plan shall include instructions regarding procedures and contacts in the event of emergency. Promptly after the installation is completed, the Custodial Trust or its Consultants shall repair any damage to surrounding area caused by the Consultant(s). The Custodial Trust and/or its Consultants may enter upon the Property at any time and from time to time for purposes of performing the Activities.

The Property Owner shall have the right to observe any sampling from the Monitoring Well(s). At the Property Owner's request, the Custodial Trust shall provide copies of its test results from the sampling within thirty (30) days after receipt of same. This right of entry does not include permission to, and Custodial Trust, the Consultants, the Beneficiaries and the Local Government Personnel are expressly prohibited from, storing soil or groundwater on the Property. All soil and groundwater from sampling shall be removed from the Property upon the date of sampling.

The Custodial Trust shall indemnify, hold harmless and defend Property Owner from and against any claims, damages, mechanic's liens, and costs and expenses, including reasonable attorneys' fees and court costs, arising out of any injury, death or damage to any person or property resulting from the Custodial Trust's entry onto the Property and performing the sampling. The Custodial Trust, the Consultants, the Beneficiaries and the Local Government personnel shall comply with all applicable laws and ordinances in performing all Activities hereunder. Notwithstanding anything in this Agreement to the contrary, under no circumstance shall the United States or the State of Montana have any liability or obligations under or in connection with this Agreement.

Prior to entering onto the Property, the Custodial Trust and the Consultants shall provide to the Property Owner a certificate evidencing general liability insurance in the amount of at least One Million Dollars ($1,000,000), naming Property Owner as an additional insured. The Property Owner agrees to look solely to the assets of the Custodial Trust in the Custodial Trust East Helena Clean-Up Account (and not to any of its other assets) for

satisfaction of any obligation of the Custodial Trust hereunder. The term of this agreement is ten years from the date of this Agreement. Any notice, consent or approval required or permitted to be given under this Agreement shall be in writing and shall be sent by registered mail, return receipt requested, to the addresses set forth above (or such other addresses as either party may from time to time specify in writing to the other) and shall be deemed to have been given upon receipt. Notices to the Custodial Trust shall also be sent to the Custodial Trust c/o Cynthia Brooks, 44 Shattuck Road, Watertown, MA 02472 and by electronic mail to cb@g-etg.com.

This Agreement may be amended or modified only by a written instrument executed by Property Owner and the Custodial Trust. This Agreement constitutes the entire agreement between the parties and supersedes all prior negotiations and understandings between the parties relating to the subject matter hereof.

In witness whereof, the parties hereto have executed this Agreement as of the last date written below:

CUSTODIAL TRUST:
Montana Environmental Trust Group, LLC,
Trustee of the Montana Environmental Custodial Trust, and not individually

By: Greenfield Environmental Trust Group, Inc., Member

By: Cynthia Brooks
Cynthia Brooks, President

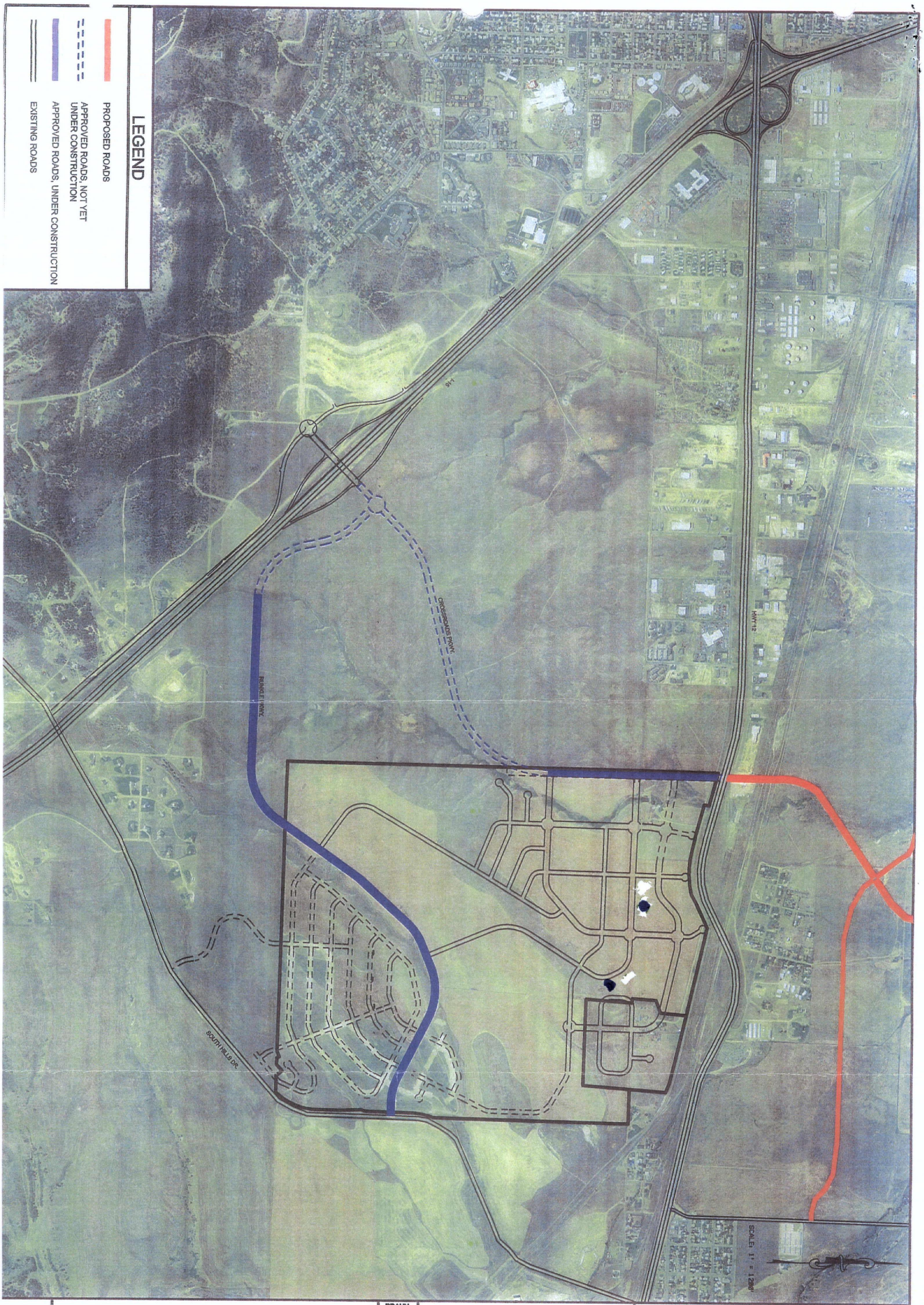
Date: 3-31-10

PROPERTY OWNER:
R and D Properties

By: Managing Member

Date: 3-30-10

EXHIBIT I
Plan of Property



SHEET 1

MOUNTAIN VIEW MEADOWS
HELENA VALLEY TRANSPORTATION
NETWORK EXHIBIT 3

DRAWN	
DATE	BY
4/08	JMF
REVISED	
APPROVED	

R & D PARTNERS
110 MOONLIGHT RIDGE RD
CLANCY, MT 59634
(406) 431-9210

WWC ENGINEERING
1275 MAPLE STREET, SUITE F
HELENA, MT 59601
(406) 443-3962

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John Nickle

229-4529

GETG
Greenfield Environmental Trust Group, Inc.

Montana Environmental Trust Group, LLC
Trustee of the Montana Environmental Custodial Trust
PO Box 1230, East Helena, Montana 59635
Telephone (1): (617) 448-9762
Telephone (2): (406) 227-4098

By Electronic Mail

MEMO TO: Distribution

FROM: Cynthia Brooks
Montana Environmental Trust Group, LLC
Trustee of the Montana Environmental Custodial Trust

SUBJECT: Follow-up and Action Items from March 18, 2010 East Helena Technical Meeting

DATE: April 1, 2010

The Montana Environmental Custodial Trust (the Custodial Trust) prepared the enclosed document to facilitate follow-up on the range of issues covered in the March 18, 2010 technical meeting for the East Helena site. The attached details key topics of discussion during the meeting as well as our current plans for action and follow-up.

Our goal in developing the attached is to establish a common understanding of the issues and to ensure that our plans and approach are consistent with the needs and expectations of the beneficiaries and stakeholders, to the extent possible and consistent with the Custodial Trust's obligations under the Settlement Agreement. To help the Custodial Trust efforts to meet its goal, I welcome and appreciate your feedback, comments and questions.

Attachments

cc: Distribution

Meeting Attendees:

Bob Anderson—Hydrometrics
Greg Bryce—Hydrometrics
Betsy Burns—EPA
Mary Capdeville—MDOJ
Blaine Cox—METG Consultant
Julie DalSoglio—EPA
Linda Jacobson—EPA
Denise Kirkpatrick—MDEQ
Greg Mullen—MDOJ
Karen Nelson—USFWS
Jon Nickel—METG Consultant
Daryl Reed—MDEQ
Jim Stimson—MDEQ
James Swierc—WQPD, L&C County
Wendy Thomi—EPA
Joe Vranka—EPA
Marc Weinreich—METG
Jim Wilbur—WQPD, L&C County

cc: Other Beneficiaries:

Randy Breeden—EPA
Rob Collins—MDOJ
Chuck Figur—EPA
Sharon Kercher—EPA

Summary & Action Items
3/18/2010 Technical Meeting East Helena Site

	Topics/Issues/Action Items	Responsibility[i] and Follow-up:
1.	Drilling of seven (7) Seaver Park and Former Landfill wells should be accelerated and segregated from the Burnham Property Wells.	▪ Hydrometrics: finalized an agreement with Exploration West drillers and has scheduled drilling to commence 4/12/10.- ▪ CT: has finalized an access agreement with R and D. Representatives from EPA, MDEQ and L&C County have been advised of the drilling plan and schedule so they can observe drilling operations.
2.	Based on results to date from EH-126, EH-134, EH-130 and EH-129, installation of the two (2) wells proposed for the Burnham property will be delayed until after sampling results are available for these 4 wells for April, May and June of 2010.	▪ CT: will follow-up with Mr. Burnham on whether the wells can be drilled later in the summer (based on his planting schedule for his property). ▪ EPA/MDEQ/CT/Hydrometrics/L&C County: will agree on the final location of these two (2) wells (on CT and/or Burnham property), which are required to establish the leading edge of the Se plume, after the data from June 2010 is available.
3.	The issue of what constitutes "background" for arsenic and selenium in the groundwater was discussed in connection with 2. above.	▪ CT: will ensure that background levels for As and Se are included and established as part of the Phase II (investigation and risk assessment) activities, results and final report
4.	L&C County asked about whether hydrographs were available for some of the wells identified in 2. above.	▪ Hydrometrics: will provide hydrographs to L&C County/EPA/MDEQ.
5.	USFWS requested that surface soil samples be collected from the riparian zone between PPC and the former ASARCO houses located on the west side of S. Montana Avenue.	▪ Hydrometrics/Eco Risk Assessment Contractor: will ensure that a minimum of 2 of the 5 yet-to-be-selected riparian area soil sampling sites (proposed in the Eco Risk Assessment Work plan) are located in this area.
6.	USFWS requested the opportunity to provide input on the five sampling locations proposed for PPC.	▪ CT/Hydrometrics: will ensure that Karen Nelson is notified in advance of the planned sampling events so that she can be present when the final sampling locations are selected.
7.	USF&WS requested that sediment samples in Upper Lake be moved closer to Tito Park to ensure sampling in the areas of most significant concern to the NRD program.	▪ Hydrometrics/Eco Risk Assessment Contractor: will move 3 of the 5 proposed sampling locations shown in Figure 5 of the BERA Field Sampling and Analysis Plan closer to Tito Park.

	Topics/Issues/Action Items	Responsibility[1] and Follow-up:
8.	L&C County officials asked whether any wells could be drilled using sonic drilling.	▪ Hydrometrics: will follow-up on the costs and other considerations (such as protection of the deep aquifer) for potential sonic drilling of one or more wells planned for Lamping Field.
9.	L&C County officials asked about drilling one or more wells to confirm whether the intermediate aquifer is underlain by a competent barrier to flow.	▪ Hydrometrics: believes that such a well is already proposed for Lamping Field in the 9/09 draft Phase II Work Plan (see Work Plan Figure 3-1-3 and Table 3-2-1).
10.	L&C County asked which parameters will be sampled for the Former Landfill wells (i.e., standard suite of metals and/or expanded list of parameters such as VOCs, SVOCs, pesticides, etc.).	▪ Hydrometrics: will sample the downgradient wells for the full suite of parameters. Depending on these sampling results, the upgradient shallow wells may also be sampled for expanded parameter list. Hydrometrics will prepare a memo summarizing the drilling and sampling results.
11.	L&C County asked whether Hydrometrics accounted for available data for inflows to PPC in the analysis of plume migration control (mounding) and losses to the aquifer.	▪ Hydrometrics: will obtain outfall discharge data and incorporate it into the 12/09 synoptic stream gaging event results.
12.	L&C County asked about whether/where piezometers will be installed between PPC and Lower Lake.	▪ Hydrometrics: provided piezometer locations in Figure 9 of the 6/09 Eco Risk Assessment Work Plan. Hydrometrics notified interested parties of schedule for locating piezometers which were installed last week.
13.	Hydrometrics recommended reducing the frequency of sampling events as well as the total number of wells to be sampled under the existing gw monitoring program.	▪ Hydrometrics: documented recommendations in a memo to CT. ▪ EPA/MDEQ/L&C County: are reviewing recommendations and will provide comments/feedback on Hydrometrics' proposed changes to the monitoring program. Further proposed reductions in program are encouraged.
14.	L&C County requested hydrographs for all dry wells recommended to be closed and abandoned.	▪ Hydrometrics: will provide L&C County/EPA/MDEQ hydrographs for dry wells.
15.	MDEQ and L&C County asked about database management software used to analyze gw data for the site and whether such data could be made available to them.	▪ CT: has proposed an on-line review of the Enviro Data system to allow EPA/MDEQ/L&C County to review its capabilities and compatibility with their existing systems.
16.	Based on questions about how chemistry changes with water levels, L&C County asked that at least three (3) wells be sampled monthly for conductivity, temperature, water levels, etc.	▪ Hydrometrics: will include recommendations for at least three (3) wells to be analyzed for water levels and quality to be included in the final RCRA Phase II Work Plan.

	Topics/Issues/Action Items	Responsibility[i] and Follow-up:
17.	Hydrometrics reviewed plans to install transducers in six (6) wells and requested information about EPA-ORD's transducer program and input from EPA/MDEQ/L&C County on which wells will receive transducers.	▪ CT/Hydrometrics: are following up with EPA-ORD re data, etc. ▪ Hydrometrics: advised EPA/MDEQ/L&C County of those wells selected for transducer installation and requested feedback by 3/29. Hydrometrics has proceeded with installation of the transducers.
18.	L&C County requested a copy of the Phase I RFI Final Report.	▪ CT: provided the Phase I RFI Final Report on CD to James Swierc.
19.	L&C County provided written comments on the Phase II RFI Work Plan prior to the meeting.	▪ L&C County: has re-issued cover letter for comments to EPA. ▪ EPA: issued conditional approval with comments on the Phase II RFI work plan to CT on 3/24/10. EPA's comments included the agencies' response to the comments provided by L&C County. ▪ CT/Hydrometrics: are currently reviewing and preparing a response to EPA's conditional approval and plant to submit Final Phase II RFI Work Plan to EPA by 4/23/10. CT/Hydrometrics are also preparing updated QC/QA, project management, H&S, community relations, borehole abandonment and other related plans (per the draft first modification to 1998 CD) to be submitted in final form (as standalone document) to EPA by 5/10/10 and address a number of comments from the County.
20.	CT/Hydrometrics must finalize the Phase II RFI Work Plan.	▪ EPA: see item 19. above. ▪ CT/Hydrometrics: see item 19. above.
21.	MDEQ asked whether Wilson Ditch had been or should be evaluated as a potential source of arsenic to groundwater.	▪ Hydrometrics: noted that the Phase II RFI Work Plan includes synoptic stream gaging/water sampling and continuous water level monitoring in EH-128 and EH-132 (SW Lamping Field), and potential piezometer installation near Wilson Ditch (if warranted) to evaluate whether Wilson Ditch is a source to a potentially isolated arsenic plume in EH-128/-132.

[i] CT: Montana Environmental Custodial Trust
L&C County: Lewis & Clark County (Water Quality Protection District and Department of Health)

MARCH 2010 EAST HELENA GROUNDWATER SAMPLING EVENT

Monitoring Well	Sample Date	Sample Number	Static Water Level (ft)	Selenium (ppb)	Arsenic (ppb)
EH-124	3/11/2010	EH-1003-100	45.38	4	<2
EH-127	3/11/2010	EH-1003-101	30.98	<1	2
EH-135	3/11/2010	EH-1003-102	29.88	<1	<2
EH-130	3/11/2010	EH-1003-103	45.48	33	<2
EH-131	3/11/2010	EH-1003-104	35.27	<1	<2
EH-136	3/11/2010	EH-1003-105	33.35	<1	<2
EH-137	3/11/2010	EH-1003-106	38.54	<1	<2
EH-125	3/11/2010	EH-1003-107	34.91	117	4
EH-126	3/11/2010	EH-1003-108	53.40	10	4
EH-134	3/11/2010	EH-1003-109	53.76	<1	5
EH-129	3/11/2010	EH-1003-110	53.89	2	7
EH-133	3/11/2010	EH-1003-111	54.04	1	8
EH-123	3/12/2010	EH-1003-112	40.04	2	8
EH-132	3/12/2010	EH-1003-113	58.22	<1	27
Rinsate Blank	3/12/2010	EH-1003-114	na	<1	<2
EH-128	3/12/2010	EH-1003-115	45.91	<1	45
EH-132 Dup	3/12/2010	EH-1003-116	NA	<1	27
DI Blank	3/12/2010	EH-1003-117	NA	<1	<2

March 26, 2010

David Jensen
P. O. Box 1021
401 Gail Street
East Helena, Montana 59635

Dear Mr. Jensen:

Enclosed are the analytical results for the water samples that were collected from your 401 Gail Street ground water well on March 5, 2010. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,

Jon Nickel
Consultant

Enclosures
Cc: via electronic mail:
Cindy Brooks – METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-300
Lab ID: H10030084-001 Jensen Residence
Matrix: Aqueous 401 Gail Street

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 08:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	03/08/10 15:11 / hm		MAN-TECH_100308A	12	R60675
Conductivity	769	umhos/cm		1		A2510 B	03/08/10 15:11 / hm		MAN-TECH_100308A	11	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:32 / hm	03/08/10 16:18	J-124 (14410200)_100308B	6	8191
Solids, Total Dissolved TDS @ 180 C	558	mg/L		10		A2540 C	03/08/10 16:26 / hm	03/08/10 16:10	J-124 (14410200)_100308A	7	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:11 / hm		MAN-TECH_100308A	10	R60675
Bicarbonate as HCO3	150	mg/L		1		A2320 B	03/08/10 15:11 / hm		MAN-TECH_100308A	10	R60675
Chloride	27	mg/L		1		E300.0	03/15/10 15:25 / hm		IC101-H_100315A	21	R60825
Sulfate	240	mg/L		1		E300.0	03/15/10 15:25 / hm		IC101-H_100315A	21	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Calcium	96	mg/L		1		E200.7	03/16/10 15:40 / sld		ICP1-HE_100316B	71	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Copper	0.003	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Iron	0.05	mg/L		0.02		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Magnesium	22	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Manganese	0.02	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Potassium	6	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Selenium	0.011	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 12:52 / dck		ICPMS204-B_100315A	30	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-300
Lab ID: H10030084-001
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 08:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	26	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Zinc	0.04	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

March 26, 2010

Pat Foley
203 Gail Street
P. O. Box 2254
East Helena, Montana 59635

Dear Mr. Foley:

Enclosed are the analytical results for the water samples that were collected from the 203 Gail Street ground water well on March 5, 2010. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,

Jon Nickel
Consultant

Enclosures
Cc: via electronic mail:
Cindy Brooks – METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-301
Lab ID: H10030084-002 Foley Residence
Matrix: Aqueous 203 Gail Street

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 09:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.6	s.u.		0.1		A4500-H B	03/08/10 15:17 / hm		MAN-TECH_100308A	15	R60675
Conductivity	279	umhos/cm		1		A2510 B	03/08/10 15:17 / hm		MAN-TECH_100308A	14	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:32 / hm	03/08/10 16:18	J-124 (14410200)_100308B	7	8191
Solids, Total Dissolved TDS @ 180 C	184	mg/L		10		A2540 C	03/08/10 16:26 / hm	03/08/10 16:10	J-124 (14410200)_100308A	9	8190
INORGANICS											
Alkalinity, Total as CaCO3	77	mg/L		1		A2320 B	03/08/10 15:17 / hm		MAN-TECH_100308A	13	R60675
Bicarbonate as HCO3	94	mg/L		1		A2320 B	03/08/10 15:17 / hm		MAN-TECH_100308A	13	R60675
Chloride	4	mg/L		1		E300.0	03/15/10 15:41 / hm		IC101-H_100315A	22	R60825
Sulfate	50	mg/L		1		E300.0	03/15/10 15:41 / hm		IC101-H_100315A	22	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Calcium	29	mg/L		1		E200.7	03/16/10 15:43 / sld		ICP1-HE_100316B	72	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Copper	0.019	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Iron	0.03	mg/L		0.02		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Magnesium	7	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Potassium	3	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Selenium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:18 / dck		ICPMS204-B_100315A	35	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-301
Lab ID: H10030084-002
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 09:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Zinc	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

March 26, 2010

John Simac
2540 Wylie Drive
P. O. Box 59
East Helena, Montana 59635

Dear Mr. Simac:

Enclosed are the analytical results for the water samples (both original and duplicate) that were collected from the 2540 Wylie Drive ground water well on March 5, 2010. Your irrigation well was not in service during the sampling event. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,

Jon Nickel
Consultant

Enclosures
Cc: via electronic mail:
Cindy Brooks – METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics

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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-302
Lab ID: H10030084-003
Matrix: Aqueous

Simac Residence (Original Sample)
2540 Wylie Drive

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	03/08/10 15:40 / hm		MAN-TECH_100308A	20	R60675
Conductivity	475	umhos/cm		1		A2510 B	03/08/10 15:40 / hm		MAN-TECH_100308A	19	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:33 / hm	03/08/10 16:18	J-124 (14410200)_100308B	8	8191
Solids, Total Dissolved TDS @ 180 C	336	mg/L		10		A2540 C	03/08/10 16:27 / hm	03/08/10 16:10	-124 (14410200)_100308A	10	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:40 / hm		MAN-TECH_100308A	18	R60675
Bicarbonate as HCO3	140	mg/L		1		A2320 B	03/08/10 15:40 / hm		MAN-TECH_100308A	18	R60675
Chloride	7	mg/L		1		E300.0	03/15/10 15:58 / hm		IC101-H_100315A	23	R60825
Sulfate	110	mg/L		1		E300.0	03/15/10 15:58 / hm		IC101-H_100315A	23	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Calcium	59	mg/L		1		E200.7	03/16/10 15:46 / sld		ICP1-HE_100316B	73	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Copper	0.001	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Magnesium	13	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Potassium	5	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Selenium	0.003	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:43 / dck		ICPMS204-B_100315A	40	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-302
Lab ID: H10030084-003
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	18	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Zinc	0.02	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-303
Lab ID: H10030084-004
Matrix: Aqueous

Simac Residence (Duplicate)
2540 WylieDrive

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:20 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	03/08/10 15:53 / hm		MAN-TECH_100308A	26	R60675
Conductivity	475	umhos/cm		1		A2510 B	03/08/10 15:53 / hm		MAN-TECH_100308A	25	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:33 / hm	03/08/10 16:18	J-124 (14410200)_100308B	9	8191
Solids, Total Dissolved TDS @ 180 C	337	mg/L		10		A2540 C	03/08/10 16:27 / hm	03/08/10 16:10	-124 (14410200)_100308A	11	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:53 / hm		MAN-TECH_100308A	24	R60675
Bicarbonate as HCO3	140	mg/L		1		A2320 B	03/08/10 15:53 / hm		MAN-TECH_100308A	24	R60675
Chloride	7	mg/L		1		E300.0	03/15/10 16:14 / hm		IC101-H_100315A	24	R60825
Sulfate	110	mg/L		1		E300.0	03/15/10 16:14 / hm		IC101-H_100315A	24	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Calcium	61	mg/L		1		E200.7	03/16/10 15:49 / sld		ICP1-HE_100316B	74	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Copper	0.001	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Magnesium	13	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Potassium	5	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Selenium	0.003	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:49 / dck		ICPMS204-B_100315A	41	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-303
Lab ID: H10030084-004
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:20 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	19	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Zinc	0.02	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

VALIDATION SUMMARY

MONTANA ENVIRONMENTAL TRUST GROUP, LLC

EAST HELENA PLANT RCRA CONSENT DECREE

MONTHLY RESIDENTIAL WELL MONITORING PROGRAM

INORGANIC ANALYSES

MARCH 2010 SAMPLE EVENT

ENERGY LABORATORY WORK ORDER NO.
H10030084

Prepared for:
Mr. Marc Weinreich
Montana Environmental Trust Group
15001 Winged Bluff Lane
Draper, UT 84020

Prepared by:
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6900 Cherry Blossom Lane
Albuquerque, NM 87111

April 2010

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GLOSSARY OF TERMS

CLP..... Contract Laboratory Program

COC..... Chain of Custody

CRDL..... Contract Required Detection Limit

DI..... Deionized Water

DIS..... Dissolved

DQO..... Data Quality Objective

ELI-Hel ..... Energy Laboratories, Inc., Helena, Montana

EPA..... U.S. Environmental Protection Agency

ICV ..... Initial Calibration Verification

IDL ..... Instrument Detection Limit

LCS..... Laboratory Control Sample

LFB..... Laboratory Fortified Blank

MS ..... Matrix Spike

METG..... Montana Environmental Trust Group, LLC

NA ..... Not Applicable

PDLG..... Project Detection Limit Goal

QC ..... Quality Control

RCRA ..... Resource and Conservation Recovery Act

RPD ..... Relative Percent Difference

SC ..... Specific Conductivity

TDS ..... Total Dissolved Solids

SUMMARY

Groundwater samples were collected from East Helena residential groundwater wells on March 5, 2010 for the Montana Environmental Trust Group, LLC's (METG) monthly monitoring program. These samples were collected according to the U.S. Environmental Protection Agency's (EPA) Resource and Conservation Recovery Act (RCRA) Consent Decree Monitoring Program (ASARCO 2009). Inorganic constituents for these samples were validated using EPA guidelines for data validation (EPA 2004) and the project work plan (ASARCO 2009). Samples were analyzed by Energy Laboratories, Inc. (ELI-Hel) in Helena, Montana, under work order H10020012.

The validated database is located in Appendix 1. Field notes, chain of custody forms, and laboratory reports are located in Appendices 2, 3, and 4, respectively.

Data quality objectives for this project are as follows:

- **Precision** is determined by field and laboratory duplicate sample results that are within control limits. The completeness objective for precision is 90% of the duplicate sample results within control limits. **This objective was met as 100% (33 out 33 results) of the field duplicate and 100% (36 out of 36 results) of the laboratory duplicate results were in control limits. The overall precision was calculated at 100% (69 out of 69 results).**
- **Accuracy** is determined by laboratory control sample (LCS) and matrix spike (MS) sample results that are within control limits. The completeness objective for accuracy is 90% of the LCS and MS sample results within control limits. **This objective was met as 100% (49 out of 49 results) of the LCS results and 100% (55 out of 55 results) of the MS results were within control limits. The overall accuracy was calculated at 100% (104 out of 104 results).**

  ***Note:** Due to the lack of LCSs for dissolved metals, fortified laboratory blanks were used to assess the accuracy for these analytes. In several cases, samples used for matrix spikes for were from unknown sources and therefore, could not be used to evaluate the accuracy of this sampling event's data. This is explained further in the following report.

- **Completeness** is calculated by the number of valid (not rejected) data per number of planned data, expressed as a percentage. The completeness goal for this project was 90%. **This goal was met as 100% (177 out of 177 results) of the planned data were analyzed and deemed valid.**

Qualified Data Summary

- No data were qualified due to this review.

Conclusion

The data collected in March 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program are deemed acceptable and can be used for the purposes they were intended, providing qualified data are used with caution. **Of the measured results, 100% (177 out of 177 results) can be used without qualification.**

Data Validation Report by: Linda L. Tangen

Client Review: Jon Nickel
Montana Environmental Trust Group

DATA VALIDATION REPORT

1. INTRODUCTION

- This validation applies to analyses for five groundwater and quality control samples collected on March 5, 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program (ASARCO 2009). Samples were analyzed by Energy Laboratories in Helena, Montana (ELI-Hel) under work order H10030084. One field blank and one field duplicate sample was included with these samples.

- Validation procedures used are generally consistent with:
  - _X_ EPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganics Data Review (EPA 2004)
  - _X_ ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan (ASARCO 2009)
  - ____ Other

- Overall level of validation:
  - ____ CLP
  - _X_ Standard – Field and laboratory quality control (QC) samples are reviewed; and samples associated with QC violations are flagged.
  - ____ Visual

2. DELIVERABLES

- All laboratory document deliverables were present and accurate as specified in the CLP-Statement of Work (EPA 2001), and/or the project contract.
  - _X_ Yes
  - ____ No

- All documentation of field procedures was provided as required.
  - _X_ Yes
  - ____ No

3. FIELD PROCEDURES

- Samples were collected from all project-required sites.
  - ____ Yes
  - _X_ No - see notes

  Notes: Samples were not collected at site 109 Gail because the well was shut down for the winter. This omission was not subtracted from the project's completeness.

- Field parameters were measured in accordance with the project work plan.
  _X_ Yes
  ____ No

- Field instruments were calibrated daily and before measurements were collected.
  _X_ Yes
  ____ No

- Chains of Custodies (COCs) were properly filled out and signed by the field personnel.
  _X_ Yes
  ____ No

- Data entry into field books, on COCs, and on sample labels were accurate and complete.
  _X_ Yes
  ____ No

- Samples were properly preserved in the field.
  ____ Yes
  _X_ No – see notes

  Notes: The samples were received by the laboratory at a temperature of 8.9°C instead of the required 4-6 °C. However, they were delivered directly from the field and did not have time to cool to the proper temperature. Therefore, the samples' quality was not affected.

4. FIELD BLANKS

Blanks: Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

Deionized water (DI), trip, rinsate, or any other field blanks have been carried out at the proper frequency (one rinsate blank and one DI blank per event).
_X_ Yes
____ No

Reported results on the field blanks were less than the Project Detection Limit Goals (PDLGs) or reporting limit.
_X_ Yes
____ No

5. FIELD DUPLICATES

Field duplicates have been collected at the proper frequency (one field duplicate per event).

_X_ Yes
___ No

Field duplicate relative percent differences (RPDs) were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within ± the PDLG.

_X_ Yes
___ No

6. LABORATORY PROCEDURES

- **Laboratory procedures followed**

  _X_ CLP-Statement of Work (EPA 2001)
  ___ SW-846 (EPA 1986)
  _X_ Methods for Chemical Analysis of Water and Wastes (EPA 1983)

- **Holding times met**

  _X_ Yes
  ___ No

- **Consistency with project requirements**

  Analyses were carried out as required by the project work plan (ASARCO 2009).

  _X_ Yes
  ___ No

  Project specified methods were used.

  _X_ Yes
  ___ No

7. DETECTION LIMITS

- Reporting detection limits met PDLGs.

  _X_ Yes
  ___ No

8. LABORATORY BLANKS

Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

- Method blanks were prepared and analyzed at the required frequency (one per batch or one per 20 samples, whichever is greater.

  _X_ Yes
  ____ No

- All the analytes in the blank were less than the PDLG.

  _X_ Yes
  ____ No

9. LABORATORY MATRIX SPIKES

- A Matrix Spike (MS) sample (pre-digestion) was analyzed at the proper frequency (one per batch and/or matrix).

  ____ Yes
  _X_ No – see notes
  Notes: The MS sample used for calcium and sulfate analyses was from an unknown source. The results from this MS sample could not be used to evaluate inter-parameter interferences and accuracy for these analytes was measured using LCS recoveries. Results are not qualified for this frequency deficiency.

- MS recoveries were within the required control limits (75-125%).

  _X_ Yes
  ____ No

10. LABORATORY DUPLICATES

- Laboratory duplicate samples were analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).

  _X_ Yes
  ____ No

- RPDs were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within ± the PDLG.

  _X_ Yes
  ____ No

11. LABORATORY CONTROL STANDARDS (LCS)

Laboratory Fortified Blanks (LFBs) were used in lieu of LCS' for metal analyses. This is acceptable for the purpose of the project.

- The reference material used for the LCS or LFB was of the correct matrix.
  _X_ Yes
  ____ No

- LCS' or LFBs were prepared and analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).
  _X_ Yes
  ____ No

- LCS recoveries were within the required control limits (80-120% or certified range).
  _X_ Yes
  ____ No

12. INTERPARAMETER COMPARISON

_X_Lab pH vs. Field pH.

_X_Lab Specific Conductivity (SC) vs. Field SC

_X_Total Dissolved Solids (TDS) vs. Lab SC

Notes: *RPDs were used to compare associated measurements. If the RPD was greater than 20, the measurements were then compared to other analytes and/or historical data to determine if they were valid or anomalies. Following is a summary of these comparisons.*

Lab pH vs. Field pH: All field and lab pH comparisons were in order (pairs had RPDs less than 20). The RPDs for pH pairs ranged from 10.2% to 18.6%, with an average RPD of 13.1%.

Lab SC vs. Field SC: All field and lab SC comparisons were in order (pairs had RPDs less than 20). The RPDs for SC pairs ranged from 17.1% to 19.4%, with an average RPD of 18.1%.

TDS vs. Lab SC: The ratio of TDS to lab SC should lie between 0.55 and 0.75. In natural waters with high sulfate, the ratio may be much higher. This ratio is intended to be a check on the accuracy of the TDS and lab SC measurements. (It should be noted that these measurements are less accurate in dilute waters.) For this sampling event, the ratios were in line with historical data. The TDS/SC ratios ranged from 0.66 to 0.73, with an average ratio of 0.70.

13. HISTORICAL COMPARISON SUMMARY

Data for this sampling event were compared with the previous five years of sampling events. All of this sampling event's results were less than three standard deviations from the historical mean.

14. DATA QUALITY OBJECTIVES (DQOS)

- The data quality goal was met for precision (90% of the field and laboratory duplicates were within control limits).

  _X_ Yes –see the following table

  ___ No

Precision Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
Field Duplicates	33	0	33	100.0%
Lab Duplicates	36	0	36	100.0%
Overall	**69**	**0**	**69**	**100.0%**

- The data quality goal was met for accuracy (90% of the LCS and matrix spike results were within control limits).

  _X_ Yes – see the following table

  ___ No

Accuracy Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
LCS' and LFBs	33	0	33	100.0%
Matrix Spikes	36	0	36	100.0%
Overall	**69**	**0**	**69**	**100.0%**

- DQO target for completeness was met (the number of valid results divided by the number of possible results is 90% or above).

  _X_ Yes – see the following table

  ____ No

Completeness

# of Planned Measurements	Actual # of Measurements	# of Rejected Measurements	# of Valid Measurements	Completeness
177	177	0	177	100%

- Samples were qualified for QC exceedances and deficiencies.

  ____ Yes

  _X_ No – see the following table

Qualification of Samples

# of Measurements	# of Qualified Measurements	# Not Qualified	% Not Qualified
177	0	177	100%

15. CONCLUSION

The data collected in March 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program are deemed acceptable and can be used for the purposes they were intended, providing qualified data are used with caution.

REFERENCES

ASARCO 2009. *ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan.* ASARCO LLC. March.

EPA 1983. *Methods for Chemical Analysis of Water and Wastes.* United States Environmental Protection Agency. March.

EPA 1986. *Test Method for Evaluating Solid Waste: Physical/Chemical Methods 3rd Ed. 4 Vols.* United States Environmental Protection Agency. December.

EPA 2001. *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis.* United States Environmental Protection Agency. Document Number ILM05.2. December.

EPA 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.* United States Environmental Protection Agency. Document Number OSWER 9240.1-45. EPA 540-R-04-004. October.

APPENDIX 1

DATABASE

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Table of Contents by Station Type

Page	Station Type	Station Name
1	Domestic Wells	203Gail
1	Domestic Wells	401Gail
1	Domestic Wells	2540 Wylie
3	Field Quality Control	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Table of Contents By Lab Sample ID

Page	Lab Sample ID	Sample ID	Sample Date	Station Name
1	H10030084-001	EHR-0310-300	3/5/2010	401Gail
1	H10030084-002	EHR-0310-301	3/5/2010	203Gail
1	H10030084-003	EHR-0310-302	3/5/2010	2540 Wylie
1	H10030084-004	EHR-0310-303	3/5/2010	2540 Wylie
3	H10030084-005	EHR-0310-304	3/5/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Table of Contents by Sample ID

Page	Sample ID	Lab Sample ID	Sample Date	Station Name
1	EHR-0310-300	H10030084-001	3/5/2010	401Gail
1	EHR-0310-301	H10030084-002	3/5/2010	203Gail
1	EHR-0310-302	H10030084-003	3/5/2010	2540 Wylie
1	EHR-0310-303	H10030084-004	3/5/2010	2540 Wylie
3	EHR-0310-304	H10030084-005	3/5/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gall	2540 Wylie	2540 Wylie	401Gall
Water	SAMPLE DATE	3/5/2010	3/5/2010	3/5/2010	3/5/2010
	SAMPLE TIME	09:00	11:00	11:20	08:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10030084-002	H10030084-003	H10030084-004	H10030084-001
	SAMPLE NUMBER	EHR-0310-301	EHR-0310-302	EHR-0310-303	EHR-0310-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS			Field Duplicate	
Common Ions (mg/L): ppm unless noted					
	Bicarbonate (HCO3)	94	140	140	150
	Calcium (Ca) (DIS)	29	59	61	96
	Chloride (Cl)	4	7	7	27
	Magnesium (Mg) (DIS)	7	13	13	22
	Potassium (K) (DIS)	3	5	5	6
	Sodium (Na) (DIS)	13	18	19	26
	Sulfate (SO4)	50	110	110	240
	Total Alkalinity As CACO3	77	120	120	120
Metals (mg/L): ppm unless noted					
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002	<0.002
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	0.019	0.001	0.001	0.003
	Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	0.03	<0.02	<0.02	0.05
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.02
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	<0.001	0.003	0.003	0.011
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	0.02	0.02	0.04
Physical/Fld-Lab: ppm unless noted					
	Oxygen (O) (DIS) (Fld)	7.07	7.34		5.07
	pH	7.6	7.8	7.7	7.7
	pH (Fld)	6.84	7.04		6.39
	SC (umhos/cm at 25 C) (Fld)	235	398		633
	SC (umhos/cm at 25 C)	279	475	475	769

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	2540 Wylie	2540 Wylie	401Gail
Water	SAMPLE DATE	3/5/2010	3/5/2010	3/5/2010	3/5/2010
	SAMPLE TIME	09:00	11:00	11:20	08:00
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10030084-002	H10030084-003	H10030084-004	H10030084-001
	SAMPLE NUMBER	EHR-0310-301	EHR-0310-302	EHR-0310-303	EHR-0310-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS			Field Duplicate	
Physical/Fld-Lab; ppm unless noted					
	Total Suspended Solids	<10	<10	<10	<10
	TDS (Measured at 180 C)	184	336	337	558
	Water Temperature (C) (Fld)	10.6	9.2		11.8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

METG - East Helena Private Well March 2010 Sample Event

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	FieldBlank
Water	SAMPLE DATE	3/5/2010
	SAMPLE TIME	12:00
	LAB	ELI
	LAB NUMBER	H10030084-005
	SAMPLE NUMBER	EHR-0310-304
	TYPE	Field QC
	GROUP	Private Wells
	DESCRIPTION	
	REMARKS	Blank

Common Ions (mg/L): ppm unless noted	
Bicarbonate (HCO3)	<1
Calcium (Ca) (DIS)	<1
Chloride (Cl)	<1
Magnesium (Mg) (DIS)	<1
Potassium (K) (DIS)	<1
Sodium (Na) (DIS)	<1
Sulfate (SO4)	<1
Total Alkalinity As CACO3	<1

Metals (mg/L): ppm unless noted	
Aluminum (Al) (DIS)	<0.1
Antimony (Sb) (DIS)	<0.003
Arsenic (As) (DIS)	<0.002
Barium (Ba) (DIS)	<0.1
Beryllium (Be) (DIS)	<0.001
Cadmium (Cd) (DIS)	<0.001
Chromium (Cr) (DIS)	<0.001
Cobalt (Co) (DIS)	<0.01
Copper (Cu) (DIS)	<0.001
Gold (Au) (DIS)	<0.01
Iron (Fe) (DIS)	<0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.01
Mercury (Hg) (DIS)	<0.001
Nickel (Ni) (DIS)	<0.01
Selenium (Se) (DIS)	<0.001
Silver (Ag) (DIS)	<0.005
Tellurium (Te) (DIS)	<0.1
Thallium (Tl) (DIS)	<0.001
Vanadium (V) (DIS)	<0.01
Zinc (Zn) (DIS)	<0.01

Physical/Fld-Lab: ppm unless noted	
pH	5.4
SC (umhos/cm at 25 C)	<1
Total Suspended Solids	<10
TDS (Measured at 180 C)	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

Run Time: 4/6/2010 1:35:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

APPENDIX 2

FIELD NOTES

MARCH 5, 2010
MONTHLY RI/FS LONG TERM MONITORING
RESIDENTIAL WELL SAMPLING

FIELD STANDARDIZATION OF HORIBA

	STANDARD VALUE	METER READING
ph	4.00 SU	4.00 SU
CONDUCTIVITY	4480 umhos/cm	4480 umhos/cm
SALINITY	0.23%	0.23%

JENSEN!
401 GAIL STREET
EHR-0310-300
DAVE AND PAUL JENSEN PRESENT DURING SAMPLE COLLECTION. OUTSIDE GARDEN SPIGOT SAMPLED AFTER 5 MINUTE PURGE. BOTH COMMENTS THAT WATER DOES NOT HAVE ODOR AND IS WITHOUT ANY OTHER PROBLEMS

ph	6.39 SU
CONDUCTIVITY	633 umhos/cm
D.O.	5.07 mg/L
TEMP	11.8°C

FOLEY
203 GAIL STREET
EHR-0310-301
SAMPLE COLLECTED FROM FRONT YARD SPIGOT

ph	6.84 SU
CONDUCTIVITY	235 umhos/cm
D.O.	7.07 mg/L
TEMP	10.6°C

SIMAC
DRINKING WATER IRRIGATION SYSTEM WINTERIZED
2540 WYLIE DRIVE
EHR-0310-302 ORIGINAL
EHR-0310-303 DUPLICATE
JOHN SIMAC PRESENT WHEN SAMPLING FROM FRONT YARD SPIGOT

ph	7.04 SU
CONDUCTIVITY	398 umhos/cm
D.O	7.34 mg/L
TEMP	9.2°C

NORDSTROM IRRIGATION SYSTEM WINTERIZED

EHR-0310-304 FIELD BLANK

APPENDIX 3

CHAIN OF CUSTODIES

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: MONTANA ENVIRONMENTAL TRUST GROUP	Project Name, PWS, Permit, Etc. LONG TERM RI/FS RESIDENTIAL WELL SAMPLING - MARCH 2010	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: P.O. BOX 1230 EAST HELENA, MT 59635	Contact Name: JON NICKEL Phone/Fax: (406) 227 4527	Email:	Sampler: (Please Print) NICKEL
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ A2LA
☐ GSA ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Number of Containers
Sample Type: A W S V B O
Air Water Soils/Solids
Vegetation Bioassay Other

ANALYSIS REQUESTED

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Hand del.
Cooler ID(s): ____
Receipt Temp: 2.9 °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	Collection Time	MATRIX	Physical Parameters	Common Ion	Metals							SEE ATTACHED	Normal Turnaround (TAT)	RUSH
1 EHR-0310-300 RAW	3/5/2010	8:00	GW	X	X										
2 EHR-0310-300 METAL		8:00				X									
3 EHR-0310-301 RAW		9:00		X	X										
4 EHR-0310-301 METAL		9:00				X									
5 EHR-0310-302 RAW		11:00		X	X										
6 EHR-0310-302 METAL		11:00				X									
7 EHR-0310-303 RAW		11:20		X	X										
8 EHR-0310-303 METAL		11:20				X									
9 EHR-0310-304 RAW		12:00		X	X										
10 EHR-0310-304 METAL		12:00				X									

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
JON NICKEL	3/5/2010 1500	[signature]			
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory: Tracy Lovesh	Date/Time: 3/5/10 15:00	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.

APPENDIX 4

LABORATORY REPORT

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

ANALYTICAL SUMMARY REPORT

March 25, 2010

Montana Environmental Custodial Trust
PO Box 1230
E. Helena, MT 59635-1230

Workorder No.: H10030084 Quote ID: H493 - All Water Sampling combined

Project Name: Long-Term RI/FS Res. Well Sampling-March 2010

Energy Laboratories Inc received the following 5 samples for Montana Environmental Custodial Trust on 3/5/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10030084-001	EHR-0310-300	03/05/10 8:00	03/05/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030084-002	EHR-0310-301	03/05/10 9:00	03/05/10	Aqueous	Same As Above
H10030084-003	EHR-0310-302	03/05/10 11:00	03/05/10	Aqueous	Same As Above
H10030084-004	EHR-0310-303	03/05/10 11:20	03/05/10	Aqueous	Same As Above
H10030084-005	EHR-0310-304	03/05/10 12:00	03/05/10	Aqueous	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: Assistant Laboratory Manager - Helena

Digitally signed by
Jon Hager
Date: 2010.03.25 17:56:53 -06:00

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-300
Lab ID: H10030084-001
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 08:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	03/08/10 15:11 / hm		MAN-TECH_100308A	12	R60675
Conductivity	769	umhos/cm		1		A2510 B	03/08/10 15:11 / hm		MAN-TECH_100308A	11	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:32 / hm	03/08/10 16:18	J-124 (14410200)_100308B	6	8191
Solids, Total Dissolved TDS @ 180 C	558	mg/L		10		A2540 C	03/08/10 16:26 / hm	03/08/10 16:10	J-124 (14410200)_100308A	7	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:11 / hm		MAN-TECH_100308A	10	R60675
Bicarbonate as HCO3	150	mg/L		1		A2320 B	03/08/10 15:11 / hm		MAN-TECH_100308A	10	R60675
Chloride	27	mg/L		1		E300.0	03/15/10 15:25 / hm		IC101-H_100315A	21	R60825
Sulfate	240	mg/L		1		E300.0	03/15/10 15:25 / hm		IC101-H_100315A	21	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Calcium	96	mg/L		1		E200.7	03/16/10 15:40 / sld		ICP1-HE_100316B	71	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Copper	0.003	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Iron	0.05	mg/L		0.02		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Magnesium	22	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Manganese	0.02	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Potassium	6	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Selenium	0.011	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 12:52 / dck		ICPMS204-B_100315A	30	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-300
Lab ID: H10030084-001
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 08:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	26	mg/L		1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:17 / sld		ICP1-HE_100315A	29	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753
Zinc	0.04	mg/L		0.01		E200.8	03/11/10 17:12 / dck		ICPMS204-B_100311A	52	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-301
Lab ID: H10030084-002
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 09:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.6	s.u.		0.1		A4500-H B	03/08/10 15:17 / hm		MAN-TECH_100308A	15	R60675
Conductivity	279	umhos/cm		1		A2510 B	03/08/10 15:17 / hm		MAN-TECH_100308A	14	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:32 / hm	03/08/10 16:18	J-124 (14410200)_100308B	7	8191
Solids, Total Dissolved TDS @ 180 C	184	mg/L		10		A2540 C	03/08/10 16:26 / hm	03/08/10 16:10	J-124 (14410200)_100308A	9	8190
INORGANICS											
Alkalinity, Total as CaCO3	77	mg/L		1		A2320 B	03/08/10 15:17 / hm		MAN-TECH_100308A	13	R60675
Bicarbonate as HCO3	94	mg/L		1		A2320 B	03/08/10 15:17 / hm		MAN-TECH_100308A	13	R60675
Chloride	4	mg/L		1		E300.0	03/15/10 15:41 / hm		IC101-H_100315A	22	R60825
Sulfate	50	mg/L		1		E300.0	03/15/10 15:41 / hm		IC101-H_100315A	22	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Calcium	29	mg/L		1		E200.7	03/16/10 15:43 / sld		ICP1-HE_100316B	72	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Copper	0.019	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Iron	0.03	mg/L		0.02		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Magnesium	7	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Potassium	3	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Selenium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:18 / dck		ICPMS204-B_100315A	35	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-301
Lab ID: H10030084-002
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 09:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:26 / sld		ICP1-HE_100315A	32	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753
Zinc	ND	mg/L		0.01		E200.8	03/11/10 17:19 / dck		ICPMS204-B_100311A	53	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-302
Lab ID: H10030084-003
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	03/08/10 15:40 / hm		MAN-TECH_100308A	20	R60675
Conductivity	475	umhos/cm		1		A2510 B	03/08/10 15:40 / hm		MAN-TECH_100308A	19	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:33 / hm	03/08/10 16:18	J-124 (14410200)_100308B	8	8191
Solids, Total Dissolved TDS @ 180 C	336	mg/L		10		A2540 C	03/08/10 16:27 / hm	03/08/10 16:10	-124 (14410200)_100308A	10	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:40 / hm		MAN-TECH_100308A	18	R60675
Bicarbonate as HCO3	140	mg/L		1		A2320 B	03/08/10 15:40 / hm		MAN-TECH_100308A	18	R60675
Chloride	7	mg/L		1		E300.0	03/15/10 15:58 / hm		IC101-H_100315A	23	R60825
Sulfate	110	mg/L		1		E300.0	03/15/10 15:58 / hm		IC101-H_100315A	23	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Calcium	59	mg/L		1		E200.7	03/16/10 15:46 / sld		ICP1-HE_100316B	73	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Copper	0.001	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Magnesium	13	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Potassium	5	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Selenium	0.003	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:43 / dck		ICPMS204-B_100315A	40	R60797

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-302
Lab ID: H10030084-003
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	18	mg/L		1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:29 / sld		ICP1-HE_100315A	33	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753
Zinc	0.02	mg/L		0.01		E200.8	03/11/10 17:26 / dck		ICPMS204-B_100311A	54	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-303
Lab ID: H10030084-004
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:20 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	03/08/10 15:53 / hm		MAN-TECH_100308A	26	R60675
Conductivity	475	umhos/cm		1		A2510 B	03/08/10 15:53 / hm		MAN-TECH_100308A	25	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:33 / hm	03/08/10 16:18	J-124 (14410200)_100308B	9	8191
Solids, Total Dissolved TDS @ 180 C	337	mg/L		10		A2540 C	03/08/10 16:27 / hm	03/08/10 16:10	-124 (14410200)_100308A	11	8190
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/08/10 15:53 / hm		MAN-TECH_100308A	24	R60675
Bicarbonate as HCO3	140	mg/L		1		A2320 B	03/08/10 15:53 / hm		MAN-TECH_100308A	24	R60675
Chloride	7	mg/L		1		E300.0	03/15/10 16:14 / hm		IC101-H_100315A	24	R60825
Sulfate	110	mg/L		1		E300.0	03/15/10 16:14 / hm		IC101-H_100315A	24	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Calcium	61	mg/L		1		E200.7	03/16/10 15:49 / sld		ICP1-HE_100316B	74	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Copper	0.001	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Lead	ND	mg/L		0.005		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Magnesium	13	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Potassium	5	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Selenium	0.003	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:49 / dck		ICPMS204-B_100315A	41	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-303
Lab ID: H10030084-004
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 11:20 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	19	mg/L		1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:32 / sld		ICP1-HE_100315A	34	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753
Zinc	0.02	mg/L		0.01		E200.8	03/11/10 17:52 / dck		ICPMS204-B_100311A	58	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-304
Lab ID: H10030084-005
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 12:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	03/08/10 15:58 / hm		MAN-TECH_100308A	29	R60675
Conductivity	ND	umhos/cm		1		A2510 B	03/08/10 15:58 / hm		MAN-TECH_100308A	28	R60675
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/08/10 16:33 / hm	03/08/10 16:18	-124 (14410200)_100308B	10	8191
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	03/08/10 16:27 / hm	03/08/10 16:10	-124 (14410200)_100308A	12	8190
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		1		A2320 B	03/08/10 15:58 / hm		MAN-TECH_100308A	27	R60675
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	03/08/10 15:58 / hm		MAN-TECH_100308A	27	R60675
Chloride	ND	mg/L		1		E300.0	03/15/10 16:30 / hm		IC101-H_100315A	25	R60825
Sulfate	ND	mg/L		1		E300.0	03/15/10 16:30 / hm		IC101-H_100315A	25	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Antimony	ND	mg/L		0.003		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Arsenic	ND	mg/L		0.002		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Barium	ND	mg/L		0.1		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Beryllium	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Cadmium	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Calcium	ND	mg/L		1		E200.7	03/16/10 15:52 / sld		ICP1-HE_100316B	75	R60849
Chromium	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Cobalt	ND	mg/L		0.01		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Copper	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:36 / sld		ICP1-HE_100315A	35	R60816
Iron	ND	mg/L		0.02		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Lead	ND	mg/L		0.005		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Magnesium	ND	mg/L		1		E200.7	03/15/10 14:36 / sld		ICP1-HE_100315A	35	R60816
Manganese	ND	mg/L		0.01		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Mercury	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Nickel	ND	mg/L		0.01		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Potassium	ND	mg/L		1		E200.7	03/15/10 14:36 / sld		ICP1-HE_100315A	35	R60816
Selenium	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Silver	ND	mg/L		0.005		E200.8	03/15/10 13:54 / dck		ICPMS204-B_100315A	42	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0310-304
Lab ID: H10030084-005
Matrix: Aqueous

Project: Long-Term RI/FS Res. Well Sampling-March 2010
Collection Date: 03/05/10 12:00 **DateReceived:** 03/05/10
Report Date: 03/25/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	03/15/10 14:36 / sld		ICP1-HE_100315A	35	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:36 / sld		ICP1-HE_100315A	35	R60816
Thallium	ND	mg/L		0.001		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Vanadium	ND	mg/L		0.01		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753
Zinc	ND	mg/L		0.01		E200.8	03/11/10 18:26 / dck		ICPMS204-B_100311A	63	R60753

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: 8190

Run ID :Run Order: **ACCU-124 (14410200)_100308A: 1** SampType: **Method Blank** Sample ID: **MB-8190** Method: **A2540 C**

Analysis Date: **03/08/10 16:25** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	7	1									

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **ACCU-124 (14410200)_100308A: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8190** Method: **A2540 C**

Analysis Date: **03/08/10 16:25** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2010	10	2000	7	100	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **ACCU-124 (14410200)_100308A: 6** SampType: **Sample Duplicate** Sample ID: **H10030052-001ADUP** Method: **A2540 C**

Analysis Date: **03/08/10 16:26** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	978	10						984	0.6	5	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **ACCU-124 (14410200)_100308A: 8** SampType: **Sample Matrix Spike** Sample ID: **H10030084-001AMS** Method: **A2540 C**

Analysis Date: **03/08/10 16:26** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2550	10	2000	558	100	80	120				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: 8191

Run ID :Run Order: **ACCU-124 (14410200)_100308B: 1** SampType: **Method Blank** Sample ID: **MB-8191** Method: **A2540 D**

Analysis Date: **03/08/10 16:30** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **ACCU-124 (14410200)_100308B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8191** Method: **A2540 D**

Analysis Date: **03/08/10 16:31** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1890	10	2000		95	70	130				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **ACCU-124 (14410200)_100308B: 5** SampType: **Sample Duplicate** Sample ID: **H10030073-002ADUP** Method: **A2540 D**

Analysis Date: **03/08/10 16:32** Units: **mg/L** **Prep Info:** Prep Date: **3/8/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	142	10						148	4.1	5	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60675

Run ID :Run Order: **MAN-TECH_100308A: 3** SampType: **Method Blank** Sample ID: **MBLK** Method: **A2320 B**

Analysis Date: **03/08/10 14:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	0.9									

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 5** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**

Analysis Date: **03/08/10 14:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600		**96**	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 16** SampType: **Sample Matrix Spike** Sample ID: **H10030084-002AMS** Method: **A2320 B**

Analysis Date: **03/08/10 15:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	720	4.0	600	77.22	**107**	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 17** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-002AMSD** Method: **A2320 B**

Analysis Date: **03/08/10 15:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	700	4.0	600	77.22	**104**	90	110	718.6	**2.7**	20	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 21** SampType: **Sample Duplicate** Sample ID: **H10030084-003ADUP** Method: **A2320 B**

Analysis Date: **03/08/10 15:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	120	4.0						115.6	**0**	20	
Bicarbonate as HCO3	140	4.0						141.1	**0**	20	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60675

Run ID :Run Order: **MAN-TECH_100308A: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A2510 B**

Analysis Date: **03/08/10 14:39** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	719	1.0	717.5		100	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 4** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2510 B**

Analysis Date: **03/08/10 14:49** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	1430	1.0	1412		101	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 22** SampType: **Sample Duplicate** Sample ID: **H10030084-003ADUP** Method: **A2510 B**

Analysis Date: **03/08/10 15:47** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	475	1.0						474.8	0	10	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60675

Run ID :Run Order: **MAN-TECH_100308A: 2** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A4500-H B**

Analysis Date: **03/08/10 14:42** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.94	0.10	7		99	99	101				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **MAN-TECH_100308A: 23** SampType: **Sample Duplicate** Sample ID: **H10030084-003ADUP** Method: **A4500-H B**

Analysis Date: **03/08/10 15:47** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.76	0.10						7.76	0	2	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
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A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 8** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/11/10 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.248	0.10	0.25		99	90	110				
Antimony	0.0499	0.050	0.05		100	90	110				
Arsenic	0.0494	0.0050	0.05		99	90	110				
Barium	0.0499	0.10	0.05		100	90	110				
Beryllium	0.0254	0.0010	0.025		102	90	110				
Cadmium	0.0258	0.0010	0.025		103	90	110				
Chromium	0.0498	0.010	0.05		100	90	110				
Cobalt	0.0505	0.010	0.05		101	90	110				
Copper	0.0499	0.010	0.05		100	90	110				
Iron	0.262	0.030	0.255		103	90	110				
Lead	0.0493	0.010	0.05		99	90	110				
Manganese	0.251	0.010	0.25		101	90	110				
Mercury	0.00204	0.0010	0.002		102	90	110				
Nickel	0.0498	0.010	0.05		100	90	110				
Selenium	0.0514	0.0050	0.05		103	90	110				
Thallium	0.0495	0.10	0.05		99	90	110				
Vanadium	0.0490	0.10	0.05		98	90	110				
Zinc	0.0509	0.010	0.05		102	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/11/10 12:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	41.4	0.10	40		103	70	130				
Antimony	0.000333	0.050									
Arsenic	0.000105	0.0050									
Barium	0.000559	0.10									
Beryllium	1.00E-06	0.0010									
Cadmium	0.000628	0.0010									
Chromium	0.000675	0.010									
Cobalt	0.00173	0.010									
Copper	0.00149	0.010									
Iron	105	0.030	100		105	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030084
Project: Long-Term RI/FS Res. Well Sampling-Marc

ANALYTICAL QC SUMMARY REPORT

BatchID: R60753

Date: *25-Mar-10*

Run ID :Run Order: **ICPMS204-B_100311A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**
Analysis Date: **03/11/10 12:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.80E-05	0.010									
Manganese	0.00243	0.010									
Mercury	3.30E-05	0.0010									
Nickel	0.00126	0.010									
Selenium	3.30E-05	0.0050									
Thallium	9.00E-06	0.10									
Vanadium	6.80E-05	0.10									
Zinc	0.00145	0.010									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**
Analysis Date: **03/11/10 12:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	42.2	0.10	40		**106**	70	130				
Antimony	0.000214	0.050				0	0				
Arsenic	0.0109	0.0050	0.01		**109**	70	130				
Barium	0.000561	0.10				0	0				
Beryllium	2.00E-06	0.0010				0	0				
Cadmium	0.0110	0.0010	0.01		**110**	70	130				
Chromium	0.0219	0.010	0.02		**110**	70	130				
Cobalt	0.0238	0.010	0.02		**119**	70	130				
Copper	0.0222	0.010	0.02		**111**	70	130				
Iron	106	0.030	100		**106**	70	130				
Lead	6.80E-05	0.010				0	0				
Manganese	0.0254	0.010	0.02		**127**	70	130				
Mercury	1.50E-05	0.0010				0	0				
Nickel	0.0231	0.010	0.02		**115**	70	130				
Selenium	0.0102	0.0050	0.01		**102**	70	130				
Thallium	5.00E-06	0.10				0	0				
Vanadium	0.0219	0.10	0.02		**109**	70	130				
Zinc	0.0109	0.010	0.01		**109**	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 17** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**

Analysis Date: **03/11/10 13:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0003	7E-05									
Antimony	ND	3E-05									
Arsenic	ND	2E-05									
Barium	0.0010	3E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	0.0001	5E-05									
Cobalt	3E-05	1E-05									
Copper	ND	3E-05									
Iron	0.0010	6E-05									
Lead	ND	5E-06									
Manganese	5E-05	2E-05									
Mercury	ND	7E-06									
Nickel	8E-05	3E-05									
Selenium	ND	3E-05									
Thallium	ND	1E-05									
Vanadium	ND	2E-05									
Zinc	0.0005	0.0001									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 18** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**

Analysis Date: **03/11/10 13:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0500	0.10	0.05	0.0002516	**99**	85	115				
Antimony	0.0508	0.050	0.05		**102**	85	115				
Arsenic	0.0481	0.0050	0.05		**96**	85	115				
Barium	0.0518	0.10	0.05	0.0009681	**102**	85	115				
Beryllium	0.0494	0.0010	0.05		**99**	85	115				
Cadmium	0.0491	0.0010	0.05		**98**	85	115				
Chromium	0.0482	0.010	0.05	0.0001209	**96**	85	115				
Cobalt	0.0493	0.010	0.05	0.0000324	**98**	85	115				
Copper	0.0462	0.010	0.05		**92**	85	115				
Iron	4.85	0.030	5	0.0009947	**97**	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 18** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**

Analysis Date: **03/11/10 13:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0503	0.010	0.05		**101**	85	115				
Manganese	0.0529	0.010	0.05	0.0000499	**106**	85	115				
Mercury	0.000945	0.0010	0.001		**95**	85	115				
Nickel	0.0471	0.010	0.05	0.0000847	**94**	85	115				
Selenium	0.0466	0.0050	0.05		**93**	85	115				
Thallium	0.0501	0.10	0.05		**100**	85	115				
Vanadium	0.0488	0.10	0.05		**98**	85	115				
Zinc	0.0493	0.010	0.05	0.0004607	**98**	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 55** SampType: **Sample Matrix Spike** Sample ID: **H10030084-003BMS** Method: **E200.8**

Analysis Date: **03/11/10 17:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0492	0.10	0.05	0.0004977	**97**	70	130				
Antimony	0.0515	0.0050	0.05	0.0000755	**103**	70	130				
Arsenic	0.0502	0.0050	0.05	0.0005509	**99**	70	130				
Barium	0.127	0.10	0.05	0.08035	**93**	70	130				
Beryllium	0.0465	0.0010	0.05		**93**	70	130				
Cadmium	0.0490	0.0010	0.05	0.0000229	**98**	70	130				
Chromium	0.0468	0.010	0.05		**94**	70	130				
Cobalt	0.0480	0.010	0.05	0.0000936	**96**	70	130				
Copper	0.0459	0.010	0.05	0.001181	**89**	70	130				
Iron	4.98	0.030	5	0.01163	**99**	70	130				
Lead	0.0510	0.010	0.05	0.0000666	**102**	70	130				
Manganese	0.0530	0.010	0.05	0.001575	**103**	70	130				
Mercury	0.000980	0.0010	0.001	0.0000132	**97**	70	130				
Nickel	0.0452	0.010	0.05		**90**	70	130				
Selenium	0.0533	0.0050	0.05	0.002569	**101**	70	130				
Thallium	0.0509	0.0050	0.05	0.0000342	**102**	70	130				
Vanadium	0.0483	0.10	0.05	0.001023	**95**	70	130				
Zinc	0.0695	0.010	0.05	0.02366	**92**	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 56** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-003BMSD** Method: **E200.8**

Analysis Date: **03/11/10 17:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0482	0.10	0.05	0.0004977	95	70	130	0.0492		20	
Antimony	0.0514	0.0050	0.05	0.0000755	103	70	130	0.05154	0.2	20	
Arsenic	0.0498	0.0050	0.05	0.0005509	98	70	130	0.05019	0.8	20	
Barium	0.125	0.10	0.05	0.08035	90	70	130	0.1267	1	20	
Beryllium	0.0458	0.0010	0.05		92	70	130	0.04651	1.5	20	
Cadmium	0.0488	0.0010	0.05	0.0000229	97	70	130	0.04897	0.5	20	
Chromium	0.0474	0.010	0.05		95	70	130	0.04684	1.1	20	
Cobalt	0.0465	0.010	0.05	0.0000936	93	70	130	0.04801	3.2	20	
Copper	0.0460	0.010	0.05	0.001181	90	70	130	0.04589	0.3	20	
Iron	5.03	0.030	5	0.01163	100	70	130	4.979	0.9	20	
Lead	0.0500	0.010	0.05	0.0000666	100	70	130	0.05101	2	20	
Manganese	0.0522	0.010	0.05	0.001575	101	70	130	0.05303	1.6	20	
Mercury	0.00102	0.0010	0.001	0.0000132	100	70	130	0.00098		20	
Nickel	0.0457	0.010	0.05		91	70	130	0.04523	1.1	20	
Selenium	0.0537	0.0050	0.05	0.002569	102	70	130	0.0533	0.7	20	
Thallium	0.0504	0.0050	0.05	0.0000342	101	70	130	0.05093	1	20	
Vanadium	0.0481	0.10	0.05	0.001023	94	70	130	0.0483		20	
Zinc	0.0702	0.010	0.05	0.02366	93	70	130	0.06949	1	20	

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 111** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/11/10 23:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.246	0.10	0.25		98	90	110				
Antimony	0.0491	0.050	0.05		98	90	110				
Arsenic	0.0499	0.0050	0.05		100	90	110				
Barium	0.0504	0.10	0.05		101	90	110				
Beryllium	0.0251	0.0010	0.025		101	90	110				
Cadmium	0.0259	0.0010	0.025		103	90	110				
Chromium	0.0501	0.010	0.05		100	90	110				
Cobalt	0.0512	0.010	0.05		102	90	110				
Copper	0.0508	0.010	0.05		102	90	110				
Iron	0.254	0.030	0.255		100	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 111** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/11/10 23:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0498	0.010	0.05		**100**	90	110				
Manganese	0.249	0.010	0.25		**99**	90	110				
Mercury	0.00203	0.0010	0.002		**101**	90	110				
Nickel	0.0505	0.010	0.05		**101**	90	110				
Selenium	0.0497	0.0050	0.05		**99**	90	110				
Thallium	0.0499	0.10	0.05		**100**	90	110				
Vanadium	0.0483	0.10	0.05		**97**	90	110				
Zinc	0.0504	0.010	0.05		**101**	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100311A: 112** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/11/10 23:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	40.7	0.10	40		**102**	70	130				
Antimony	0.000338	0.050									
Arsenic	0.000178	0.0050									
Barium	0.000609	0.10									
Beryllium	3.00E-06	0.0010									
Cadmium	0.000547	0.0010									
Chromium	0.000639	0.010									
Cobalt	0.00176	0.010									
Copper	0.00141	0.010									
Iron	105	0.030	100		**104**	70	130				
Lead	8.00E-05	0.010									
Manganese	0.00242	0.010									
Mercury	3.70E-05	0.0010									
Nickel	0.00114	0.010									
Selenium	5.80E-05	0.0050									
Thallium	2.60E-05	0.10									
Vanadium	9.50E-05	0.10									
Zinc	0.00122	0.010									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60753

Run ID :Run Order: **ICPMS204-B_100311A: 113** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/12/10 00:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	41.0	0.10	40		**102**	70	130				
Antimony	0.000200	0.050				0	0				
Arsenic	0.0109	0.0050	0.01		**108**	70	130				
Barium	0.000628	0.10				0	0				
Beryllium	1.00E-06	0.0010				0	0				
Cadmium	0.0111	0.0010	0.01		**111**	70	130				
Chromium	0.0223	0.010	0.02		**112**	70	130				
Cobalt	0.0241	0.010	0.02		**120**	70	130				
Copper	0.0227	0.010	0.02		**113**	70	130				
Iron	106	0.030	100		**106**	70	130				
Lead	7.50E-05	0.010				0	0				
Manganese	0.0252	0.010	0.02		**126**	70	130				
Mercury	7.00E-06	0.0010				0	0				
Nickel	0.0228	0.010	0.02		**114**	70	130				
Selenium	0.0104	0.0050	0.01		**104**	70	130				
Thallium	1.60E-05	0.10				0	0				
Vanadium	0.0217	0.10	0.02		**108**	70	130				
Zinc	0.0109	0.010	0.01		**109**	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60797

Run ID :Run Order: **ICPMS204-B_100315A: 8** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 10:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0250	0.0050	0.025		100	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/15/10 10:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.000181	0.0050									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/15/10 10:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0197	0.0050	0.02		98	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 27** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**

Analysis Date: **03/15/10 12:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	5E-05	2E-05									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**

Analysis Date: **03/15/10 12:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0181	0.0050	0.02	0.0000496	90	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60797

Run ID :Run Order: **ICPMS204-B_100315A: 31** SampType: **Sample Matrix Spike** Sample ID: **H10030084-001BMS** Method: **E200.8**

Analysis Date: **03/15/10 12:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0353	0.0050	0.04		88	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 32** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-001BMSD** Method: **E200.8**

Analysis Date: **03/15/10 13:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0413	0.0050	0.04		103	70	130	0.03526	16	20	

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 44** SampType: **Sample Matrix Spike** Sample ID: **H10030172-001AMS** Method: **E200.8**

Analysis Date: **03/15/10 14:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0179	0.0050	0.02		89	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 45** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030172-001AMSD** Method: **E200.8**

Analysis Date: **03/15/10 14:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0175	0.0050	0.02		88	70	130	0.01788	1.9	20	

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 18:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0249	0.0050	0.025		99	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60797

Run ID :Run Order: **ICPMS204-B_100315A: 102** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/15/10 19:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	9.70E-05	0.0050									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICPMS204-B_100315A: 103** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/15/10 19:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0189	0.0050	0.02		95	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT** **Date:** *25-Mar-10*
Work Order: H10030084
Project: Long-Term RI/FS Res. Well Sampling-Marc **BatchID: R60816**

Run ID :Run Order: **ICP1-HE_100315A: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/15/10 12:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.02	0.10	2		101	95	105				
Iron	3.92	0.030	4		98	95	105				
Magnesium	40.4	1.0	40		101	95	105				
Potassium	39.3	1.0	40		98	95	105				
Sodium	41.9	1.0	40		105	95	105				
Tellurium	2.01	0.10	2		100	95	105				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 7** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/15/10 13:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.45	0.10	2.5		98	95	105				
Iron	2.46	0.030	2.5		99	95	105				
Magnesium	24.0	1.0	25		96	95	105				
Potassium	25.1	1.0	25		100	95	105				
Sodium	25.5	1.0	25		102	95	105				
Tellurium	2.51	0.10	2.5		100	95	105				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 10** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 13:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0222	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	537	1.0	500		107	80	120				
Potassium	0.0214	1.0				0	0				
Sodium	0.0434	1.0				0	0				
Tellurium	0.0513	0.10				0	0				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60816

Run ID :Run Order: **ICP1-HE_100315A: 11** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 13:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.07	0.10	1		**107**	80	120				
Iron	192	0.030	200		**96**	80	120				
Magnesium	551	1.0	500		**110**	80	120				
Potassium	20.5	1.0	20		**103**	80	120				
Sodium	20.4	1.0	20		**102**	80	120				
Tellurium	1.12	0.10	1		**112**	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 14** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/15/10 13:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 15** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/15/10 13:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.498	0.10	0.5		**100**	85	115				
Iron	1.03	0.030	1		**103**	85	115				
Magnesium	10.2	1.0	10		**102**	85	115				
Potassium	10.1	1.0	10		**101**	85	115				
Sodium	10.0	1.0	10		**100**	85	115				
Tellurium	0.486	0.10	0.5		**97**	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60816

Run ID :Run Order: **ICP1-HE_100315A: 16** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**

Analysis Date: **03/15/10 13:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.976	0.010	1		**98**	90	110				
Iron	1.97	0.030	2		**98**	90	110				
Magnesium	20.1	1.0	20		**101**	90	110				
Potassium	19.5	1.0	20		**98**	90	110				
Sodium	20.1	1.0	20		**100**	90	110				
Tellurium	0.998	0.013	1		**100**	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 24** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/15/10 14:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.59	0.10	2.5		**103**	90	110				
Iron	2.53	0.030	2.5		**101**	90	110				
Magnesium	24.8	1.0	25		**99**	90	110				
Potassium	24.4	1.0	25		**98**	90	110				
Sodium	26.2	1.0	25		**105**	90	110				
Tellurium	2.60	0.10	2.5		**104**	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 30** SampType: **Sample Matrix Spike** Sample ID: **H10030084-001BMS2** Method: **E200.7**

Analysis Date: **03/15/10 14:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.948	0.010	1		**95**	70	130				
Iron	2.04	0.030	2	0.0498	**100**	70	130				
Magnesium	41.4	1.0	20	22.21	**96**	70	130				
Potassium	26.0	1.0	20	5.86	**101**	70	130				
Sodium	45.9	1.0	20	25.68	**101**	70	130				
Tellurium	0.944	0.025	1		**94**	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60816

Run ID :Run Order: **ICP1-HE_100315A: 31** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-001BMSD2** Method: **E200.7**

Analysis Date: **03/15/10 14:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.982	0.010	1		98	70	130	0.9478	3.5	20	
Iron	2.05	0.030	2	0.0498	100	70	130	2.042	0.3	20	
Magnesium	41.7	1.0	20	22.21	98	70	130	41.36	0.9	20	
Potassium	25.2	1.0	20	5.86	97	70	130	26	3.1	20	
Sodium	46.5	1.0	20	25.68	104	70	130	45.9	1.3	20	
Tellurium	0.909	0.025	1		91	70	130	0.9442	3.8	20	

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 54** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/15/10 15:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.491	0.10	0.5		98	85	115				
Iron	0.978	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.4	1.0	10		104	85	115				
Sodium	10.5	1.0	10		105	85	115				
Tellurium	0.497	0.10	0.5		99	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 69** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/15/10 16:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0273	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	510	1.0	500		102	80	120				
Potassium	0.0232	1.0				0	0				
Sodium	0.0495	1.0				0	0				
Tellurium	0.0440	0.10				0	0				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60816

Run ID :Run Order: **ICP1-HE_100315A: 70** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 16:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.08	0.10	1		**108**	80	120				
Iron	197	0.030	200		**98**	80	120				
Magnesium	568	1.0	500		**114**	80	120				
Potassium	20.9	1.0	20		**104**	80	120				
Sodium	21.0	1.0	20		**105**	80	120				
Tellurium	1.01	0.10	1		**101**	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 74** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/15/10 16:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.490	0.10	0.5		**98**	85	115				
Iron	1.00	0.030	1		**100**	85	115				
Magnesium	9.97	1.0	10		**100**	85	115				
Potassium	10.1	1.0	10		**101**	85	115				
Sodium	10.1	1.0	10		**101**	85	115				
Tellurium	0.466	0.10	0.5		**93**	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100315A: 184** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/15/10 22:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0181	0.10				0	0				
Iron	182	0.030	200		**91**	80	120				
Magnesium	533	1.0	500		**107**	80	120				
Potassium	0.0182	1.0				0	0				
Sodium	0.0514	1.0				0	0				
Tellurium	0.0532	0.10				0	0				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60816

Run ID :Run Order: **ICP1-HE_100315A: 185** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 22:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.02	0.10	1		**102**	80	120				
Iron	188	0.030	200		**94**	80	120				
Magnesium	516	1.0	500		**103**	80	120				
Potassium	20.6	1.0	20		**103**	80	120				
Sodium	22.3	1.0	20		**111**	80	120				
Tellurium	1.02	0.10	1		**102**	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60825

Run ID :Run Order: **IC101-H_100315A: 11** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV031510-12** Method: **E300.0**

Analysis Date: **03/15/10 12:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	12	1.0	12.5		93	90	110				
Sulfate	48	1.0	50		97	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **IC101-H_100315A: 12** SampType: **Method Blank** Sample ID: **ICB031510-13** Method: **E300.0**

Analysis Date: **03/15/10 12:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.05									
Sulfate	ND	0.1									

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **IC101-H_100315A: 13** SampType: **Laboratory Fortified Blank** Sample ID: **LFB031510-14** Method: **E300.0**

Analysis Date: **03/15/10 13:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		94	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **IC101-H_100315A: 14** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-15** Method: **E300.0**

Analysis Date: **03/15/10 13:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		95	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **IC101-H_100315A: 18** SampType: **Sample Matrix Spike** Sample ID: **H10030050-001AMS** Method: **E300.0**

Analysis Date: **03/15/10 14:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	25	1.0	25	1.655	93	90	110				
Sulfate	62	1.0	50	13.46	97	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

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Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60825

Run ID :Run Order: **IC101-H_100315A: 18** SampType: **Sample Matrix Spike** Sample ID: **H10030050-001AMS** Method: **E300.0**

Analysis Date: **03/15/10 14:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Run ID :Run Order: **IC101-H_100315A: 19** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030050-001AMSD** Method: **E300.0**

Analysis Date: **03/15/10 14:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	25	1.0	25	1.655	93	90	110	24.83	0.4	20	
Sulfate	63	1.0	50	13.46	99	90	110	61.74	1.7	20	

Associated samples: **H10030084-001A; H10030084-002A; H10030084-003A; H10030084-004A; H10030084-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
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ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60849

Run ID :Run Order: **ICP1-HE_100316B: 4** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**

Analysis Date: **03/16/10 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	40.6	1.0	40		101	95	105				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 6** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**

Analysis Date: **03/16/10 11:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25		101	95	105				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/16/10 12:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	547	1.0	500		109	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/16/10 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	548	1.0	500		110	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 64** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/16/10 14:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	538	1.0	500		108	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60849

Run ID :Run Order: **ICP1-HE_100316B: 65** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/16/10 15:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	557	1.0	500		111	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 66** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/16/10 15:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.8	1.0	25		103	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 68** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/16/10 15:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.1									

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 69** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/16/10 15:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.87	1.0	10		99	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 70** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**

Analysis Date: **03/16/10 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	21.2	1.0	20		106	90	110				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030084
Project: Long-Term RI/FS Res. Well Sampling-Marc

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *25-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 76** SampType: **Sample Matrix Spike** Sample ID: **H10030084-005BMS2** Method: **E200.7**
Analysis Date: **03/16/10 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.0	1.0	20	0.2049	99	70	130				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 77** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-005BMSD2** Method: **E200.7**
Analysis Date: **03/16/10 15:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.7	1.0	20	0.2049	103	70	130	19.96	3.7	20	

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 100** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 17:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.2	1.0	10		102	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 133** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 18:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.98	1.0	10		100	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 166** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 20:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.81	1.0	10		98	85	115				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *25-Mar-10*

Work Order: H10030084

Project: Long-Term RI/FS Res. Well Sampling-Marc

BatchID: R60849

Run ID :Run Order: **ICP1-HE_100316B: 187** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/16/10 21:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	485	1.0	500		97	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Run ID :Run Order: **ICP1-HE_100316B: 188** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/16/10 21:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	517	1.0	500		103	80	120				

Associated samples: **H10030084-001B; H10030084-002B; H10030084-003B; H10030084-004B; H10030084-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Workorder Receipt Checklist

Montana Environmental Custodial Trust

H10030084

Login completed by: Tracy L. Lorash

Date Received: 3/5/2010

Reviewed by: BL2000\wjohnson

Received by: TLL

Reviewed Date: 3/25/2010

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	8.9°C From Field		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

VALIDATION SUMMARY

MONTANA ENVIRONMENTAL TRUST GROUP, LLC

EAST HELENA PLANT RCRA CONSENT DECREE

NEW WELL SAMPLING

INORGANIC ANALYSES

MARCH 2010 SAMPLE EVENT

ENERGY LABORATORY WORK ORDER NO. H10030151 AND H10030163

Prepared for:
Mr. Marc Weinreich
Montana Environmental Trust Group
15001 Winged Bluff Lane
Draper, UT 84020

Prepared by:
Linda L. Tangen
6900 Cherry Blossom Lane
Albuquerque, NM 87111

April 2010

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April 2010

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GLOSSARY OF TERMS

(Not all of these acronyms may be used in this document.)

CLP..... Contract Laboratory Program

COC..... Chain of Custody

CRDL..... Contract Required Detection Limit

DI..... Deionized Water

DIS..... Dissolved

DQO..... Data Quality Objective

ELI-Hel ..... Energy Laboratories, Inc., Helena, Montana

EPA..... U.S. Environmental Protection Agency

ICV ..... Initial Calibration Verification

IDL ..... Instrument Detection Limit

LCS..... Laboratory Control Sample

LFB..... Laboratory Fortified Blank

MS ..... Matrix Spike

METG..... Montana Environmental Trust Group, LLC

NA ..... Not Applicable

PDLG..... Project Detection Limit Goal

QC ..... Quality Control

RCRA ..... Resource and Conservation Recovery Act

RPD ..... Relative Percent Difference

SC ..... Specific Conductivity

TDS ..... Total Dissolved Solids

SUMMARY

Groundwater samples were collected on March 11 and 12, 2010 from East Helena wells that were developed in 2009. These samples were collected according to the U.S. Environmental Protection Agency's (EPA) Resource and Conservation Recovery Act (RCRA) Consent Decree Monitoring Program (ASARCO 2009), which is administered by the Montana Environmental Trust Group, LLC (METG). Inorganic constituents for these samples were validated using EPA guidelines for data validation (EPA 2004) and the project work plan (ASARCO 2009). Samples were analyzed by Energy Laboratories, Inc. (ELI-Hel) in Helena, Montana, under work order H10020012.

Validation code definition, summary of qualified data, and historical comparison summary tables are located in Appendix 1. The validated database is located in Appendix 2. Field notes, chain of custody forms, and laboratory reports are located in Appendices 3, 4, and 5, respectively.

Data quality objectives for this project are as follows:

- **Precision** is determined by field and laboratory duplicate sample results that are within control limits. The completeness objective for precision is 90% of the duplicate sample results within control limits. **This objective was met as 97.3% (36 out 37 results) of the field duplicate and 100% (97 out of 97 results) of the laboratory duplicate results were in control limits. The overall precision was calculated at 99.3% (133 out of 134 results).**
- **Accuracy** is determined by laboratory control sample (LCS) and matrix spike (MS) sample results that are within control limits. The completeness objective for accuracy is 90% of the LCS and MS sample results within control limits. **This objective was met as 100% (94 out of 94 results) of the LCS results and 97.5% (154 out of 158 results) of the MS results were within control limits. The overall accuracy was calculated at 98.4% (248 out of 252 results).**
- **Completeness** is calculated by the number of valid (not rejected) data per number of planned data, expressed as a percentage. The completeness goal for this project was 90%. **This goal was met as 100% (709 out of 709 results) of the planned data were analyzed and deemed valid.**

Qualified Data Summary

- Dissolved iron was out of control limits for a field duplicate and four results were qualified **"J"** to indicate the values were estimated and may be variable.

Conclusion

The data collected in March 2010 for the East Helena RCRA Consent Decree's new well sampling event were acceptable and can be used for the purposes they were intended, providing qualified data are used with caution. **Of the measured results, 99.4% (705 out of 709 results) can be used without qualification.**

Data Validation Report by: Linda L. Tangen

Client Review: Marc Weinrich
Montana Environmental Trust Group

DATA VALIDATION REPORT

1. INTRODUCTION

- This validation applies to analyses for 17 groundwater and quality control samples collected on March 11 and 12, 2010 for new wells developed in 2009. These wells were developed for the East Helena RCRA Consent Decree's well monitoring program (ASARCO 2009), which is administered by the Montana Environmental Trust Group, LLC (METG). Samples were analyzed by Energy Laboratories in Helena, Montana (ELI-Hel) under work orders H10030151 and H10030163. Two field blanks and one field duplicate sample was included with these samples.

- Validation procedures used are generally consistent with:
  - _X_ EPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganics Data Review (EPA 2004)
  - _X_ ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan (ASARCO 2009)
  - ___ Other

- Overall level of validation:
  - ___ CLP
  - _X_ Standard – Field and laboratory quality control (QC) samples are reviewed; and samples associated with QC violations are flagged.
  - ___ Visual

2. DELIVERABLES

- All laboratory document deliverables were present and accurate as specified in the CLP-Statement of Work (EPA 2001), and/or the project contract.
  - ___ Yes
  - _X_ No – see notes

  Notes: The TDS LCS result for analytical batch 8249 in work order H10030163 was missing. Corrective action was taken and the laboratory amended the lab report to include this datum.

- All documentation of field procedures was provided as required.
  - _X_ Yes
  - ___ No

3. FIELD PROCEDURES

- Samples were collected from all project-required sites.
  - _X_ Yes - Wells developed in 2009
  - ___ No

- Field parameters were measured in accordance with the project work plan.
  _X_ Yes
  ___ No

- Field instruments were calibrated daily and before measurements were collected.
  _X_ Yes
  ___ No

- Chains of Custodies (COCs) were properly filled out and signed by the field personnel.
  _X_ Yes
  ___ No

- Data entry into field books, on COCs, and on sample labels were accurate and complete.
  ___ Yes
  _X_ No – see notes

  Notes: The requested analyses on the COC did not agree with the sample's labels for EH-1003-104 and EH-1003-107. The lab contacted field technician Rick Lane and he stated that the sample labels were correct. In addition, collection times were not recorded on sample labels for EH-1003-105 and EH-1003-106 and the collection time for sample EH-1003-108 did not agree with the time recorded on the COC. The field technician told the lab that the sample times on the COC were correct.

- Samples were properly preserved in the field.
  _X_ Yes
  ___ No

4. FIELD BLANKS

Blanks: Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

Deionized water (DI), trip, rinsate, or any other field blanks have been carried out at the proper frequency (one rinsate blank and one DI blank per event).
_X_ Yes
___ No

Reported results on the field blanks were less than the Project Detection Limit Goals (PDLGs) or reporting limit.
_X_ Yes
___ No

5. FIELD DUPLICATES

Field duplicates have been collected at the proper frequency (one field duplicate per event).

_X_ Yes
___ No

Field duplicate relative percent differences (RPDs) were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within ± the PDLG.

___ Yes
_X_ No – see notes

Notes: One field duplicate result was out of control limits for dissolved iron. Samples associated with the duplicate exceedance were qualified **"J"** to indicate the results were estimated and may be variable. Following is a summary of the field duplicate exceedance.

Site	Sample & Dup Code	Sample Date	Parameter	Orig Result (mg/L)	Dup Result (mg/L)	PDLG (mg/L)	RPD or Diff (mg/L)	Flags
EH-132	EH-1003-113 & EH-1003-116	3/12/2010	Iron (Dis)	0.07	0.03	0.02	0.04 Diff	4

6. LABORATORY PROCEDURES

- **Laboratory procedures followed**
  _X_ CLP-Statement of Work (EPA 2001)
  ___ SW-846 (EPA 1986)
  _X_ Methods for Chemical Analysis of Water and Wastes (EPA 1983)

- **Holding times met**
  _X_ Yes
  ___ No

- **Consistency with project requirements**
  Analyses were carried out as required by the project work plan (ASARCO 2009).
  _X_ Yes
  ___ No

  Project specified methods were used.
  _X_ Yes
  ___ No

7. DETECTION LIMITS

- Reporting detection limits met PDLGs.
  _X_ Yes
  ____ No

8. LABORATORY BLANKS

Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

- Method blanks were prepared and analyzed at the required frequency (one per batch or one per 20 samples, whichever is greater.
  _X_ Yes
  ____ No

- All the analytes in the blank were less than the PDLG.
  _X_ Yes
  ____ No

9. LABORATORY MATRIX SPIKES

- A Matrix Spike (MS) sample (pre-digestion) was analyzed at the proper frequency (one per batch and/or matrix).
  _X_ Yes
  ____ No

- MS recoveries were within the required control limits (75-125%).
  ____ Yes
  _X_ No – see notes

  Notes: Samples are not normally qualified due to matrix spike results alone. Professional judgment is used to determine whether the matrix spike recovery exceedance is associated with the matrix spike sample, the sample used for the matrix spike, or with the entire analytical batch. For this sampling event, all of the exceedances were associated with only the matrix spike sample and therefore the associated sample results were not qualified. Following is a summary of the matrix spike exceedances.

MS Sample Code	Sample Batch	Analysis Batch	Analysis Date	Parameter	% Recovery	# of Flags
H10030151-008CMS	H10030151	R60771	3/12/2010	Selenium IV	140	0 (1)
H10030151-008CMSD	H10030151	R60771	3/12/2010	Selenium IV	141	0 (1)
H10030084-001BMS	H10030151	R60784	3/14/2010	Silver	67	0 (2)
H10030163	H10030084	R60920	3/18/2010	Arsenic III	135	0 (2)

***Notes:**

1) The associated results were less than the PDLG.

2) The associated MSD was within control limits.

10. LABORATORY DUPLICATES

- Laboratory duplicate samples were analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).
  _X_ Yes
  ___ No

- RPDs were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within ± the PDLG.
  _X_ Yes
  ___ No

11. LABORATORY CONTROL STANDARDS (LCS)

Laboratory Fortified Blanks (LFBs) were used in lieu of LCS' for metal analyses. This is acceptable for the purpose of the project.

- The reference material used for the LCS or LFB was of the correct matrix.
  _X_ Yes
  ___ No

- LCS' or LFBs were prepared and analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).
  _X_ Yes
  ___ No

- LCS recoveries were within the required control limits (80-120% or certified range).
  _X_ Yes
  ___ No

12. INTERPARAMETER COMPARISON

_X_Lab pH vs. Field pH.

_X_Lab Specific Conductivity (SC) vs. Field SC

_X_Total Dissolved Solids (TDS) vs. Lab SC

_X_Ion Balance

Notes: *RPDs were used to compare associated measurements. If the RPD was greater than 20, the measurements were then compared to other analytes and/or historical data to determine if they were valid or anomalies. Following is a summary of these comparisons.*

Lab pH vs. Field pH: All field and lab pH comparisons were in order (pairs had RPDs less than 20). The RPDs for pH pairs ranged from 4.2% to 13.7%, with an average RPD of 9.3%.

Lab SC vs. Field SC: All field and lab SC comparisons were in order (pairs had RPDs less than 20). The RPDs for SC pairs ranged from 0.2% to 6.0%, with an average RPD of 1.5%.

TDS vs. Lab SC: The ratio of TDS to lab SC should lie between 0.55 and 0.75. In natural waters with high sulfate, the ratio may be much higher. This ratio is intended to be a check on the accuracy of the TDS and lab SC measurements. (It should be noted that these measurements are less accurate in dilute waters.) For this sampling event, the ratios were in order. The TDS/SC ratios ranged from 0.66 to 0.75, with an average ratio of 0.71.

Ion Balance: All ion balances were in order (RPDs were less than 20 but preferably, less than 10). The ion balances ranged from 0.19% to 8.86%, with an average RPD of 3.93%.

13. HISTORICAL COMPARISON SUMMARY

Data for this sampling event were compared with the previous sampling events. Table 3 in Appendix 1 lists this sampling event's results that were greater than three standard deviations from the historical mean. *It should be noted that there was a limited number of historical data associated with this sampling event's wells, therefore, this comparison may not be indicative of actual trends and anomalous data.*

14. DATA QUALITY OBJECTIVES (DQOS)

- The data quality goal was met for precision (90% of the field and laboratory duplicates were within control limits).

  _X_ Yes –see the following table

  ____ No

Precision Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
Field Duplicates	37	1	36	97.3%
Lab Duplicates	97	0	97	100.0%
Overall	**134**	**0**	**133**	**99.3%**

- The data quality goal was met for accuracy (90% of the LCS and matrix spike results were within control limits).
  _X_ Yes – see the following table
  ____ No

Accuracy Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
LCS' and LFBs	94	0	94	100.0%
Matrix Spikes	158	4	154	97.5%
Overall	**252**	**4**	**248**	**98.4%**

- DQO target for completeness was met (the number of valid results divided by the number of possible results is 90% or above).
  _X_ Yes – see the following table
  ____ No

Completeness

# of Planned Measurements	Actual # of Measurements	# of Rejected Measurements	# of Valid Measurements	Completeness
709	**709**	**0**	**709**	**100.0%**

- Samples were qualified for QC exceedances and deficiencies.
  _X_ Yes – see the following table
  ____ No

Qualification of Samples

# of Measurements	# of Qualified Measurements	# Not Qualified	% Not Qualified
709	**4**	**705**	**99.4%**

15. CONCLUSION

The data collected in March 2010 for the East Helena RCRA Consent Decree's new well sampling event were acceptable and can be used for the purposes they were intended, providing qualified data are used with caution.

REFERENCES

ASARCO 2009. *ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan.* ASARCO LLC. March.

EPA 1983. *Methods for Chemical Analysis of Water and Wastes.* United States Environmental Protection Agency. March.

EPA 1986. *Test Method for Evaluating Solid Waste: Physical/Chemical Methods 3rd Ed. 4 Vols.* United States Environmental Protection Agency. December.

EPA 2001. *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis.* United States Environmental Protection Agency. Document Number ILM05.2. December.

EPA 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.* United States Environmental Protection Agency. Document Number OSWER 9240.1-45. EPA 540-R-04-004. October.

APPENDIX 1

TABLES

Table 1. Data Validation Codes and Definitions

East Helena Groundwater Sampling for New Wells

March 11-12, 2010

Qualifier	Description
J	The associated value is estimated.

Table 2. Summary of Qualified Data
East Helena Groundwater Sampling for New Wells
March 11-12, 2010

Station Name / Field Sample ID / Parameter	Samp Date	Value	Unit	Flag	QC Type-Exceedance*
EH-123					
EH-1003-112	**3/12/2010**				
Iron (Fe) DIS		< 0.02	mg/L	J	Field Dup - 0.04 mg/L Diff
EH-128					
EH-1003-115	**3/12/2010**				
Iron (Fe) DIS		0.06	mg/L	J	Field Dup - 0.04 mg/L Diff
EH-132					
EH-1003-113	**3/12/2010**				
Iron (Fe) DIS		0.07	mg/L	J	Field Dup - 0.04 mg/L Diff
EH-1003-116	**3/12/2010**				
Iron (Fe) DIS		0.03	mg/L	J	Field Dup - 0.04 mg/L Diff

***Notes: PDLG = Project Detection Limit Goal; Diff = Difference.**

Table 3. Historical Comparisons Summary~

East Helena Groundwater Sampling for New Wells

March 11-12, 2010

~Where this sampling event's data and historical mean difference is greater than three times the historical standard devation.

Station	This Sampling Event's Data		----------Historical Data----------					Comparison To Historical Data		
Parameter	Sample Date	Value	Cnt	Min	Max	Mean	Std Dev	# of Std Dev*	High or Low	Elev DL**
All units are in ppm unless noted otherwise.										
EH-124	**3/11/2010**	**EH-1003-100**								
SC (umhos/cm at 25 C)		513	3	477	482	479.6667	2.5166	4.42	Highest	
EH-125	**3/11/2010**	**EH-1003-107**								
Iron (Fe)	DIS	0.03	4	0.02	0.02	0.0200	0.0000	1040	Highest	
Sodium (Na)	DIS	94	4	82	84	83.0000	0.8165	4.49	Highest	
EH-128	**3/12/2010**	**EH-1003-115**								
Iron (Fe)	DIS	0.06	2	0.02	0.02	0.0200	0.0000	3380	Highest	
EH-129	**3/11/2010**	**EH-1003-110**								
pH		8	2	7.6	7.6	7.6000	0.0007	197	Highest	
EH-130	**3/11/2010**	**EH-1003-103**								
pH		7.9	2	7.2	7.2	7.2000	0.0014	172	Highest	
EH-132	**3/12/2010**	**EH-1003-113**								
Iron (Fe)	DIS	0.07	2	0.02	0.02	0.0200	0.0000	4230	Highest	
Total Suspended Solids		717	2	16	27	21.5000	7.7782	29.8	Highest	
EH-133	**3/11/2010**	**EH-1003-111**								
Calcium (Ca)	DIS	42	2	32	33	32.5000	0.7071	4.48	Highest	
TDS (Measured at 180 C)		287	2	230	236	233.0000	4.2426	4.24	Highest	
EH-135	**3/11/2010**	**EH-1003-102**								
pH		7.9	2	7.2	7.3	7.2500	0.0707	3.06	Highest	
SC (umhos/cm at 25 C)		240	2	254	256	255.0000	1.4142	3.54	Lowest	

Notes:

* # of Std Dev (from historical mean) = Value and historical mean difference divided by the historical standard deviation.

**Elev DL = An elevated reporting limit was used for the sample's value. The true value may be less than the reporting limit and therefore the value and historical average difference may not be greater than three times the standard deviation; and/or the sample's value may not be the highest historical concentration.,

APPENDIX 2

DATABASE

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Table of Contents by Station Type

Page	Station Type	Station Name
1	Groundwater	EH-123
1	Groundwater	EH-124
1	Groundwater	EH-125
3	Groundwater	EH-126
3	Groundwater	EH-127
3	Groundwater	EH-128
5	Groundwater	EH-129
5	Groundwater	EH-130
5	Groundwater	EH-131
7	Groundwater	EH-132
7	Groundwater	EH-133
7	Groundwater	EH-134
9	Groundwater	EH-135
9	Groundwater	EH-136
9	Groundwater	EH-137
11	Quality Control	DI BLANK
11	Quality Control	RINSATE

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/8/2010 10:33:59 AM

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ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Table of Contents By Lab Sample ID

Page	Lab Sample ID	Sample ID	Sample Date	Station Name
1	H10030151-001	EH-1003-100	3/11/2010	EH-124
3	H10030151-002	EH-1003-101	3/11/2010	EH-127
9	H10030151-003	EH-1003-102	3/11/2010	EH-135
5	H10030151-004	EH-1003-103	3/11/2010	EH-130
5	H10030151-005	EH-1003-104	3/11/2010	EH-131
9	H10030151-006	EH-1003-105	3/11/2010	EH-136
9	H10030151-007	EH-1003-106	3/11/2010	EH-137
1	H10030151-008	EH-1003-107	3/11/2010	EH-125
3	H10030151-009	EH-1003-108	3/11/2010	EH-126
7	H10030151-010	EH-1003-109	3/11/2010	EH-134
5	H10030151-011	EH-1003-110	3/11/2010	EH-129
7	H10030151-012	EH-1003-111	3/11/2010	EH-133
1	H10030163-001	EH-1003-112	3/12/2010	EH-123
7	H10030163-002	EH-1003-113	3/12/2010	EH-132
11	H10030163-003	EH-1003-114	3/12/2010	RINSATE
3	H10030163-004	EH-1003-115	3/12/2010	EH-128
7	H10030163-005	EH-1003-116	3/12/2010	EH-132
11	H10030163-006	EH-1003-117	3/12/2010	DI BLANK

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/8/2010 10:33:59 AM

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ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Table of Contents by Sample ID

Page	Sample ID	Lab Sample ID	Sample Date	Station Name
1	EH-1003-100	H10030151-001	3/11/2010	EH-124
3	EH-1003-101	H10030151-002	3/11/2010	EH-127
9	EH-1003-102	H10030151-003	3/11/2010	EH-135
5	EH-1003-103	H10030151-004	3/11/2010	EH-130
5	EH-1003-104	H10030151-005	3/11/2010	EH-131
9	EH-1003-105	H10030151-006	3/11/2010	EH-136
9	EH-1003-106	H10030151-007	3/11/2010	EH-137
1	EH-1003-107	H10030151-008	3/11/2010	EH-125
3	EH-1003-108	H10030151-009	3/11/2010	EH-126
7	EH-1003-109	H10030151-010	3/11/2010	EH-134
5	EH-1003-110	H10030151-011	3/11/2010	EH-129
7	EH-1003-111	H10030151-012	3/11/2010	EH-133
1	EH-1003-112	H10030163-001	3/12/2010	EH-123
7	EH-1003-113	H10030163-002	3/12/2010	EH-132
11	EH-1003-114	H10030163-003	3/12/2010	RINSATE
3	EH-1003-115	H10030163-004	3/12/2010	EH-128
7	EH-1003-116	H10030163-005	3/12/2010	EH-132
11	EH-1003-117	H10030163-006	3/12/2010	DI BLANK

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/8/2010 10:33:59 AM

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ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-123	EH-124	EH-125
Water	SAMPLE DATE	3/12/2010	3/11/2010	3/11/2010
	SAMPLE TIME	09:50	08:45	14:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030163-001	H10030151-001	H10030151-008
	SAMPLE NUMBER	EH-1003-112	EH-1003-100	EH-1003-107
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1
	DESCRIPTION			
	REMARKS			
Common Ions (mg/L): ppm unless noted				
	Bicarbonate (HCO3)	210	180	170
	Calcium (Ca) (DIS)	44	55	132
	Chloride (Cl)	12	16	40
	Magnesium (Mg) (DIS)	15	14	33
	Potassium (K) (DIS)	6	5	5
	Sodium (Na) (DIS)	44	35	94
	Sulfate (SO4)	78	81	440
	Total Alkalinity As CACO3	170	150	140
Metals (mg/L): ppm unless noted				
	Selenium-IV (DIS)	<0.005	<0.005	<0.005
	Selenium-VI (DIS)	<0.005	<0.005	0.072
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	0.008	<0.002	0.004
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001	0.002
	Gold (Au) (DIS)	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	<0.02 J	<0.02	0.03
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	0.002	0.004	0.117
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted				
	Oxygen (O) (DIS) (Fld)	7.05	7.07	3.1
	pH	8.1	8.1	7.6
	Depth To Water Level (ft)	40.04	35.38	34.91
	pH (Fld)	7.39	7.41	6.73
	SC (umhos/cm at 25 C) (Fld)	537	521	1269
	SC (umhos/cm at 25 C)	536	513	1260

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

Run Time: 4/8/2010 10:33:59 AM

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ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-123	EH-124	EH-125
Water	SAMPLE DATE	3/12/2010	3/11/2010	3/11/2010
	SAMPLE TIME	09:50	08:45	14:00
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030163-001	H10030151-001	H10030151-008
	SAMPLE NUMBER	EH-1003-112	EH-1003-100	EH-1003-107
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			
Physical/Fld-Lab: ppm unless noted				
	Total Suspended Solids	25	14	120
	TDS (Measured at 180 C)	358	340	922
	Water Temperature (C) (Fld)	12.1	10.5	11.1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-126	EH-127	EH-128
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/12/2010
	SAMPLE TIME	14:30	09:30	13:30
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030151-009	H10030151-002	H10030163-004
	SAMPLE NUMBER	EH-1003-108	EH-1003-101	EH-1003-115
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1
	DESCRIPTION			
	REMARKS			
Common Ions (mg/L): ppm unless noted				
	Bicarbonate (HCO3)	200	91	160
	Calcium (Ca) (DIS)	53	28	36
	Chloride (Cl)	14	4	4
	Magnesium (Mg) (DIS)	23	6	12
	Potassium (K) (DIS)	3	2	4
	Sodium (Na) (DIS)	23	14	18
	Sulfate (SO4)	83	42	38
	Total Alkalinity As CACO3	160	74	130
Metals (mg/L): ppm unless noted				
	Selenium-IV (DIS)	<0.005	<0.005	<0.005
	Selenium-VI (DIS)	<0.005	<0.005	<0.005
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	0.005
	Arsenic (As) (DIS)	0.004	<0.002	0.045
	Arsenic III (DIS)			<0.005
	Arsenic V (DIS)			0.0419
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001	0.001
	Gold (Au) (DIS)	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	0.06 J
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	0.01	<0.001	<0.001
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	0.03
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted				
	Oxygen (O) (DIS) (Fld)	9.19	3.63	8.4
	pH	8.1	7.8	8.1
	Depth To Water Level (ft)	53.4	30.98	45.91
	pH (Fld)	7.43	7.11	7.77

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-126	EH-127	EH-128
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/12/2010
	SAMPLE TIME	14:30	09:30	13:30
	LAB	Hydrometrics	Hydrometrics	Hydrometrics
	LAB NUMBER	H10030151-009	H10030151-002	H10030163-004
	SAMPLE NUMBER	EH-1003-108	EH-1003-101	EH-1003-115
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1
	DESCRIPTION			
	REMARKS			
Physical/Fld-Lab: ppm unless noted				
	SC (umhos/cm at 25 C) (Fld)	535	260	338
	SC (umhos/cm at 25 C)	534	256	359
	Total Suspended Solids	122	34	430
	TDS (Measured at 180 C)	352	190	236
	Water Temperature (C) (Fld)	11.3	8.8	12.7

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-129	EH-130	EH-131
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/11/2010
	SAMPLE TIME	15:35	10:40	11:20
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030151-011	H10030151-004	H10030151-005
	SAMPLE NUMBER	EH-1003-110	EH-1003-103	EH-1003-104
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1
	DESCRIPTION			
	REMARKS			
Common Ions (mg/L): ppm unless noted				
	Bicarbonate (HCO3)	180	120	89
	Calcium (Ca) (DIS)	47	51	29
	Chloride (Cl)	9	11	3
	Magnesium (Mg) (DIS)	15	12	6
	Potassium (K) (DIS)	6	4	2
	Sodium (Na) (DIS)	28	35	13
	Sulfate (SO4)	70	140	44
	Total Alkalinity As CACO3	150	97	73
Metals (mg/L): ppm unless noted				
	Selenium-IV (DIS)	<0.005	<0.005	
	Selenium-VI (DIS)	<0.005	0.021	
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	0.007	<0.002	<0.002
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001	<0.001
	Gold (Au) (DIS)	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	0.002	0.033	<0.001
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted				
	Oxygen (O) (DIS) (Fld)	7.03	3.74	5.79
	pH	8	7.9	7.8
	Depth To Water Level (ft)	53.89	45.48	35.27
	pH (Fld)	7.4	6.89	7
	SC (umhos/cm at 25 C) (Fld)	473	535	261
	SC (umhos/cm at 25 C)	467	530	256

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-129	EH-130	EH-131
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/11/2010
	SAMPLE TIME	15:35	10:40	11:20
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030151-011	H10030151-004	H10030151-005
	SAMPLE NUMBER	EH-1003-110	EH-1003-103	EH-1003-104
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			
Physical/Fld-Lab: ppm unless noted				
	Total Suspended Solids	30	54	20
	TDS (Measured at 180 C)	327	388	180
	Water Temperature (C) (Fld)	13.3	11.1	9.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-132	EH-132	EH-133	EH-134
Water	SAMPLE DATE	3/12/2010	3/12/2010	3/11/2010	3/11/2010
	SAMPLE TIME	10:35	10:50	16:10	15:05
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10030163-002	H10030163-005	H10030151-012	H10030151-010
	SAMPLE NUMBER	EH-1003-113	EH-1003-116	EH-1003-111	EH-1003-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1	R1
	DESCRIPTION				
	REMARKS		Field Duplicate		
Common Ions (mg/L): ppm unless noted					
	Bicarbonate (HCO3)	120	120	180	150
	Calcium (Ca) (DIS)	27	27	42	36
	Chloride (Cl)	4	4	8	4
	Magnesium (Mg) (DIS)	9	9	14	10
	Potassium (K) (DIS)	6	6	6	5
	Sodium (Na) (DIS)	22	21	19	20
	Sulfate (SO4)	52	52	55	43
	Total Alkalinity As CACO3	95	96	140	120
Metals (mg/L): ppm unless noted					
	Selenium-IV (DIS)	<0.005	<0.005	<0.005	<0.005
	Selenium-VI (DIS)	<0.005	<0.005	<0.005	<0.005
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	0.027	0.027	0.008	0.005
	Arsenic III (DIS)	<0.005	<0.005		
	Arsenic V (DIS)	0.029	0.0256		
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001	<0.001	<0.001
	Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	0.07 J	0.03 J	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	<0.001	<0.001	0.001	<0.001
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted					
	Oxygen (O) (DIS) (Fld)	5.23		7.28	6.63
	pH	7.9	8	8	8.1
	Depth To Water Level (ft)	58.22		54.04	53.76
	pH (Fld)	7.48		7.5	7.51

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-132	EH-132	EH-133	EH-134
Water	SAMPLE DATE	3/12/2010	3/12/2010	3/11/2010	3/11/2010
	SAMPLE TIME	10:35	10:50	16:10	15:05
	LAB	Hydrometrics	ELI	Hydrometrics	Hydrometrics
	LAB NUMBER	H10030163-002	H10030163-005	H10030151-012	H10030151-010
	SAMPLE NUMBER	EH-1003-113	EH-1003-116	EH-1003-111	EH-1003-109
	TYPE	Groundwater	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI	RI
	DESCRIPTION				
	REMARKS		Field Duplicate		
Physical/Fld-Lab: ppm unless noted					
	SC (umhos/cm at 25 C) (Fld)	322		412	363
	SC (umhos/cm at 25 C)	320	322	405	356
	Total Suspended Solids	717	660	34	19
	TDS (Measured at 180 C)	239	228	287	261
	Water Temperature (C) (Fld)	14.3		13.6	13.5

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-135	EH-136	EH-137
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/11/2010
	SAMPLE TIME	10:00	11:55	12:30
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030151-003	H10030151-006	H10030151-007
	SAMPLE NUMBER	EH-1003-102	EH-1003-105	EH-1003-106
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	RI	RI	RI
	DESCRIPTION			
	REMARKS			
Common Ions (mg/L): ppm unless noted				
	Bicarbonate (HCO3)	85	87	90
	Calcium (Ca) (DIS)	26	27	26
	Chloride (Cl)	3	3	3
	Magnesium (Mg) (DIS)	6	6	6
	Potassium (K) (DIS)	2	2	2
	Sodium (Na) (DIS)	13	13	13
	Sulfate (SO4)	38	37	38
	Total Alkalinity As CACO3	70	71	74
Metals (mg/L): ppm unless noted				
	Selenium-IV (DIS)	<0.005		
	Selenium-VI (DIS)	<0.005		
	Aluminum (Al) (DIS)	<0.1	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003	<0.003
	Arsenic (As) (DIS)	<0.002	<0.002	<0.002
	Barium (Ba) (DIS)	<0.1	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001	<0.001
	Gold (Au) (DIS)	<0.01	<0.01	<0.01
	Iron (Fe) (DIS)	<0.02	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01	<0.01
	Selenium (Se) (DIS)	<0.001	<0.001	<0.001
	Silver (Ag) (DIS)	<0.005	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted				
	Oxygen (O) (DIS) (Fld)	3.33	4.53	3
	pH	7.9	7.8	7.9
	Depth To Water Level (ft)	29.88	32.35	38.54
	pH (Fld)	6.95	7.03	7.03
	SC (umhos/cm at 25 C) (Fld)	243	243	251
	SC (umhos/cm at 25 C)	240	240	247

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	EH-135	EH-136	EH-137
Water	SAMPLE DATE	3/11/2010	3/11/2010	3/11/2010
	SAMPLE TIME	10:00	11:55	12:30
	LAB	ELI	ELI	ELI
	LAB NUMBER	H10030151-003	H10030151-006	H10030151-007
	SAMPLE NUMBER	EH-1003-102	EH-1003-105	EH-1003-106
	TYPE	Groundwater	Groundwater	Groundwater
	GROUP	R1	R1	R1
	DESCRIPTION			
	REMARKS			
Physical/Fld-Lab: ppm unless noted				
	Total Suspended Solids	21	105	34
	TDS (Measured at 180 C)	171	172	174
	Water Temperature (C) (Fld)	8.7	8.8	8

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	RINSATE
Water	SAMPLE DATE	3/12/2010	3/12/2010
	SAMPLE TIME	13:50	10:15
	LAB	ELI	ELI
	LAB NUMBER	H10030163-006	H10030163-003
	SAMPLE NUMBER	EH-1003-117	EH-1003-114
	TYPE	QC	QC
	GROUP	R1	R1
	DESCRIPTION		
	REMARKS	Blank	Blank
Common Ions (mg/L): ppm unless noted			
	Bicarbonate (HCO3)	<1	<1
	Calcium (Ca) (DIS)	<1	<1
	Chloride (Cl)	<1	<1
	Magnesium (Mg) (DIS)	<1	<1
	Potassium (K) (DIS)	<1	<1
	Sodium (Na) (DIS)	<1	<1
	Sulfate (SO4)	<1	<1
	Total Alkalinity As CACO3	<1	<1
Metals (mg/L): ppm unless noted			
	Selenium-IV (DIS)	<0.005	<0.005
	Selenium-VI (DIS)	<0.005	<0.005
	Aluminum (Al) (DIS)	<0.1	<0.1
	Antimony (Sb) (DIS)	<0.003	<0.003
	Arsenic (As) (DIS)	<0.002	<0.002
	Arsenic III (DIS)	<0.005	<0.005
	Arsenic V (DIS)	<0.005	<0.005
	Barium (Ba) (DIS)	<0.1	<0.1
	Beryllium (Be) (DIS)	<0.001	<0.001
	Cadmium (Cd) (DIS)	<0.001	<0.001
	Chromium (Cr) (DIS)	<0.001	<0.001
	Cobalt (Co) (DIS)	<0.01	<0.01
	Copper (Cu) (DIS)	<0.001	<0.001
	Gold (Au) (DIS)	<0.01	<0.01
	Iron (Fe) (DIS)	<0.02	<0.02
	Lead (Pb) (DIS)	<0.005	<0.005
	Manganese (Mn) (DIS)	<0.01	<0.01
	Mercury (Hg) (DIS)	<0.001	<0.001
	Nickel (Ni) (DIS)	<0.01	<0.01
	Selenium (Se) (DIS)	<0.001	<0.001
	Silver (Ag) (DIS)	<0.005	<0.005
	Tellurium (Te) (DIS)	<0.1	<0.1
	Thallium (Tl) (DIS)	<0.001	<0.001
	Vanadium (V) (DIS)	<0.01	<0.01
	Zinc (Zn) (DIS)	<0.01	<0.01
Physical/Fld-Lab: ppm unless noted			
	pH	5.4	5.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Groundwater Sampling for New Wells - March 11-12, 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	DI BLANK	RINSATE
Water	SAMPLE DATE	3/12/2010	3/12/2010
	SAMPLE TIME	13:50	10:15
	LAB	ELI	ELI
	LAB NUMBER	H10030163-006	H10030163-003
	SAMPLE NUMBER	EH-1003-117	EH-1003-114
	TYPE	QC	QC
	GROUP	R1	R1
	DESCRIPTION		
	REMARKS	Blank	Blank
Physical/Fld-Lab: ppm unless noted			
	SC (umhos/cm at 25 C)	<1	<1
	Total Suspended Solids	<10	<10
	TDS (Measured at 180 C)	<10	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

Run Time: 4/8/2010 10:33:59 AM

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APPENDIX 3

FIELD NOTES

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-124
Sample Code Number: EH-1003-100
Sample Date: 3/11/10
Sample Time: 0845 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.^{2}) / 25	
TD (ft):	48.3	
SWL (ft):	35.38	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	2	
x 3=(gal.)	6	
Actual Vol. Removed (gal.)	10	
Pumping Rate (gpm)	1.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring– other:
Weather Conditions: calm breeze (windy)
(no precip.) rain snow
(clear) p. cloudy overcast
Air Temperature: °C 32 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
0832	PUMP ON						
0834		7.67	7.45	518		10.2	
0836		7.53	7.42	520		10.3	
0838		7.32	7.41	521		10.5	
0840		6.99	7.41	521		10.5	
0842		7.07	7.41	521		10.5	

Turbidity: (circle) clear moderate slight very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	7.07	
pH	7.41	
SC (µmhos/cm)	521	
Turbidity (ntu)		
H_2O Tmp. (°C)	10.5	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-127
Sample Code Number: EH-1003- 101
Sample Date: 3/11/10
Sample Time: 0930 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #EH-1003-
Duplicate Sample Time:

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.^{2}) / 25	
TD (ft):	76.8	
SWL (ft):	30.98'	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	7.3	
x 3=(gal.)	21.9	
Actual Vol. Removed (gal.)	27	
Pumping Rate (gpm)	1.5	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring- other:
Weather Conditions: calm breeze (windy)
(no precip.) rain snow
(clear) p. cloudy overcast
Air Temperature: °C 32 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
0912	PUMP ON						
0918		3.68	7.30	267		8.73	
0921		3.63	7.23	263		8.80	
0924		3.62	7.17	262		8.80	
0927		3.60	7.13	261		8.80	
0930		3.63	7.11	260		8.80	

Turbidity: (circle) clear moderate slight very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	3.63	
pH	7.11	
SC (µmhos/cm)	260	
Turbidity (ntu)		
H_2O Tmp. (°C)	8.80	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RL/2 Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL JD
Laboratory Used: Energy Labs

Site Designation: EH-135
Sample Code Number: EH-1003-102
Sample Date: 3/11/10
Sample Time: 1000 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: ~~EH-1003-~~
Duplicate Sample Time: /

For Groundwater Samples

well volume formula: V = (TD-SWL)x(Dia.^{2}) / 25

Comments

TD (ft): 68.45
SWL (ft): 29.88 — no access/pumping
Casing Diameter (I.D.") 2"
Water Volume (V) (gal): 6
x 3=(gal.) 18
Actual Vol. Removed (gal.) 20
Pumping Rate (gpm) 2.0

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: calm breeze (windy) (no precip.) rain snow (clear) p. cloudy overcast
Air Temperature: °C 33 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
0950	PUMP ON						
0952		3.29	6.96	243		8.6	
0954		3.30	6.96	243		8.7	
0956		3.32	6.95	243		8.7	
0958		3.31	6.95	243		8.7	
1000		3.33	6.95	243		8.7	

Turbidity: (circle) clear moderate slight very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	3.33	
pH	6.95	
SC (µmhos/cm)	243	
Turbidity (ntu)		
H_2O Tmp. (°C)	8.7	
Color	NO	
Odor	None	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

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3/10/2010/8:52 AM

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 1022
Sample Team Member(s): RL JD
Laboratory Used: Energy Labs

Site Designation: EH-130
Sample Code Number: EH-1003- 103
Sample Date: 3/11/10
Sample Time: 1040 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

well volume formula: V = (TD-SWL)x(Dia.²) / 25 — Comments

TD (ft):	81'	
SWL (ft):	45.48'	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	6	
x 3=(gal.)	18	
Actual Vol. Removed (gal.)	20	
Pumping Rate (gpm)	2.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: calm breeze (windy) (no precip.) rain snow (clear) p. cloudy overcast
Air Temperature: °C 35 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1030	PUMP ON						
1032		3.70	6.94	533		10.9	
1034		3.75	6.91	535		11.1	
1036		3.74	6.90	535		11.1	
1038		3.73	6.90	535		11.1	
1040		3.74	6.89	535		11.1	

Turbidity: (circle) clear slight (moderate) very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	3.74	
pH	6.89	
SC (µmhos/cm)	535	
Turbidity (ntu)		
H_2O Tmp. (°C)	11.1	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL. JD
Laboratory Used: Energy Labs

Site Designation: EH-131
Sample Code Number: EH-1003-104
Sample Date: 3/11/10
Sample Time: 1120 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.²) / 25	
TD (ft):	88	
SWL (ft):	35.27	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	8.4	
x 3=(gal.)	25.2	
Actual Vol. Removed (gal.)	30.0	
Pumping Rate (gpm)	2.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: calm breeze (windy) (no precip.) rain snow (clear) p. cloudy overcast
Air Temperature: °C 34 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1104	PUMP ON						
1108		5.82	7.03	250		9.4	
1112		5.79	7.03	259		9.5	
1115		5.78	7.02	260		9.5	
1117		5.76	7.01	261		9.5	
1119		5.79	7.00	261		9.5	

Turbidity: (circle) clear moderate slight very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	5.79	
pH	7.00	
SC (µmhos/cm)	261	
Turbidity (ntu)		
H_2O Tmp. (°C)	9.5	
Color	NO	
Odor	NO	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
~~1~~	~~250 ml~~	~~Filtered~~	~~Raw~~	~~Sel Spe~~	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJT Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-136
Sample Code Number: EH-1003-105
Sample Date: 3/11/10
Sample Time: 1155 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time: /

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.^{2}) / 25	
TD (ft):	78.8'	
SWL (ft):	32.35'	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	7.4	
x 3=(gal.)	22.2	
Actual Vol. Removed (gal.)	24	
Pumping Rate (gpm)	2.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: calm (breeze) windy (no precip.) rain snow (clear) p. cloudy overcast
Air Temperature: °C 35 F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1141	PUMP ON						
1145		4.66	7.00	244		8.6	
1147		4.66	6.98	244		8.7	
1149		4.61	6.98	244		8.8	
1151		4.57	7.01	243		8.8	
1153		4.53	7.03	243		8.8	

12

Turbidity: (circle) clear moderate slight very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	4.53	
pH	7.03	
SC (µmhos/cm)	243	
Turbidity (ntu)		
H_2O Tmp. (°C)	8.8	
Color	~~ND~~ slight	
Odor	ND	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
~~1~~	~~250 ml~~	~~Filtered~~	~~Raw~~	~~Sel Spe.~~	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-137
Sample Code Number: EH-1003-106
Sample Date: 3/11/10
Sample Time: 1230 (military)

If Duplicate Sample Collected, Please Record Below

~~Duplicate Sample Code #:~~ EH-1003-
~~Duplicate Sample Time:~~

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring– other:
Weather Conditions: calm (breeze) windy
(no precip) rain snow
clear (p. cloudy) overcast
Air Temperature: °C 38 °F

For Groundwater Samples

well volume formula: $V = \frac{(TD-SWL)x(Dia.^2)}{25}$ Comments

TD (ft): 88
SWL (ft): 38.54 no access/pumping
Casing Diameter (I.D.") 2"
Water Volume (V) (gal): 8
x 3=(gal.) 24
Actual Vol. Removed (gal.) 28
Pumping Rate (gpm) 2.0

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1214	PUMP ON						
1218		3.08	7.03	250		7.9	
1220		3.04	7.03	250		7.9	
14 1224		3.02	7.04	251		8.0	
1226		3.00	7.03	250		8.0	
1228		3.00	7.03	251		8.0	

Turbidity: (circle) clear (slight) moderate very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	3.00	
pH	7.03	
SC (µmhos/cm)	251	
Turbidity (ntu)		
H_2O Tmp. (°C)	8.0	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
~~1~~	~~250 ml~~	~~Filtered~~	~~Raw~~	~~Sel Spe~~	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: [signature] Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hin
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-125
Sample Code Number: EH-1003-107
Sample Date: 3/11/10
Sample Time: 1400 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.²) / 25	
TD (ft):	73.1	
SWL (ft):	34.91	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	6	
x 3=(gal.)	18	
Actual Vol. Removed (gal.)	20	
Pumping Rate (gpm)	2.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: (calm) breeze windy (no precip) rain snow clear (p. cloudy) overcast
Air Temperature: °C 40 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1349	PUMP ON						
1351		3.15	6.75	1417		11.0	
1353		3.11	6.74	1355		11.1	
1355		3.09	6.74	1309		11.1	
1357		3.11	6.73	1278		11.1	
1359		3.10	6.73	1269		11.1	

Turbidity: (circle) clear slight (moderate) very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	3.10	
pH	6.73	
SC (µmhos/cm)	1269	
Turbidity (ntu)		
H_2O Tmp. (°C)	11.1	
Color	Yes	
Odor	No	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJ2

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10032
Sample Team Member(s): RL, SD
Laboratory Used: Energy Labs

Site Designation: EH-126
Sample Code Number: EH-1003-108
Sample Date: 3/11/10
Sample Time: 1430 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time: /

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring- other:
Weather Conditions: (calm) breeze windy
(no precip) rain snow
(clear) p. cloudy overcast
Air Temperature: °C 40 F

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.²) / 25	
TD (ft):	72.2	
SWL (ft):	53.40'	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	4	
x 3=(gal.)	12	
Actual Vol. Removed (gal.)	15	
Pumping Rate (gpm)	1.5	

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Bucket
Other Flow or Description:
Flow: gpm cfs Staff Gage

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1420	PUMP ON						
1422		9.83	7.40	532		11.0	
1424		9.70	7.41	532		11.2	
1426		9.60	7.42	532		11.3	
1428		9.41	7.43	534		11.3	
1430		9.19	7.43	535		11.3	

Turbidity: (circle) clear moderate (slight) very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	9.19	
pH	7.43	
SC (µmhos/cm)	535	
Turbidity (ntu)		
H_2O Tmp. (°C)	11.3	
Color	No	
Odor	No	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
~~1~~ 1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-134
Sample Code Number: EH-1003-109
Sample Date: 3/11/10
Sample Time: 1505 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

well volume formula:	V = (TD-SWL)x(Dia.^{2}) / 25	Comments
TD (ft):	67.8'	
SWL (ft):	53.76'	no access/pumping
Casing Diameter (I.D.")	3"	
Water Volume (V) (gal):	2.2	
x 3=(gal.)	6.6	
Actual Vol. Removed (gal.)	12	
Pumping Rate (gpm)	1.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring– other:
Weather Conditions: (calm) breeze windy
(no precip.) rain snow
(clear) p. cloudy overcast
Air Temperature: °C 40 F

For Surface Water Samples

Flow Method: Marsh/McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1454	PUMP ON						
1456		7.49	7.47	406		12.9	
1458		7.09	7.51	381		13.3	
1500		6.87	7.52	373		13.4	
1502		6.72	7.51	367		13.5	
1504		6.64	7.51	364		13.5	
1506		6.63	7.51	363		13.5	

Turbidity: (circle) clear moderate (slight) very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	6.63	
pH	7.51	
SC (µmhos/cm)	363	
Turbidity (ntu)		
H_2O Tmp. (°C)	13.5	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RL

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, SD
Laboratory Used: Energy Labs

Site Designation: EH-129
Sample Code Number: EH-1003- 110
Sample Date: 3/11/10
Sample Time: 1535 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: ~~EH-1003-~~
Duplicate Sample Time:

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.²) / 25	
TD (ft):	94.4'	
SWL (ft):	53.89'	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	6.5	
x 3=(gal.)	19.5	
Actual Vol. Removed (gal.)	24	
Pumping Rate (gpm)	2.0	

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: calm (breeze) windy (no precip.) rain snow clear (p. cloudy) overcast
Air Temperature: °C 34 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1522	PUMP ON						
1526		6.90	7.40	471		12.96	
1528		6.95	7.40	473		13.3	
1530		6.98	7.40	473		13.3	
1532		6.99	7.40	473		13.3	
1534		7.03	7.40	473		13.3	

Turbidity: (circle) clear (slight) moderate very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	7.03	
pH	7.40	
SC (µmhos/cm)	473	
Turbidity (ntu)		
H_2O Tmp. (°C)	13.3	
Color	ND	
Odor	ND	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RL Page of

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, SD
Laboratory Used: Energy Labs

Site Designation: EH-133
Sample Code Number: EH-1003-111
Sample Date: 3/11/10
Sample Time: 1610 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: ~~EH-1003-~~
Duplicate Sample Time: /

For Groundwater Samples

well volume formula: V = (TD-SWL)x(Dia.²) / 25

Comments

TD (ft): 99.6'
SWL (ft): 54.04' — no access/pumping
Casing Diameter (I.D.") 2"
Water Volume (V) (gal): 7.2
x 3=(gal.) 21.6
Actual Vol. Removed (gal.) 24
Pumping Rate (gpm) 2.0

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring- other:

Weather Conditions: (calm) breeze windy (no precip.) rain snow clear (p. cloudy) overcast
Air Temperature: °C 45 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1554	PUMP ON						
1558		7.27	7.52	411		13.1	
1600		7.27	7.51	411		13.3	
1602		7.25	7.50	411		13.6	
1604		7.28	7.50	411		13.6	
1606		7.28	7.50	412		13.6	

Turbidity: (circle) clear moderate (slight) very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	7.28	
pH	7.50	
SC (µmhos/cm)	4.12	
Turbidity (ntu)		
H_2O Tmp. (°C)	13.6	
Color	No	
Odor	No	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
~~1~~	~~250 ml~~	~~Filtered~~	~~HCL~~	~~As 3/5~~	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ

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Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: EH-123
Sample Code Number: EH-1003- 112
Sample Date: 3/12/10
Sample Time: 0950 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

well volume formula: V = (TD-SWL)x(Dia.^{2}) / 25

Comments

TD (ft): 63.7
SWL (ft): 40.04 — no access/pumping
Casing Diameter (I.D.") 2"
Water Volume (V) (gal): 4
x 3=(gal.) 12
Actual Vol. Removed (gal.) 15
Pumping Rate (gpm) 1.5

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring– other:
Weather Conditions: (calm) breeze windy (no precip.) rain snow (clear) p. cloudy overcast
Air Temperature: °C 40 F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
0938	PUMP ON						
0940		7.09	7.43	535		11.7	
0942		7.02	7.41	537		11.9	
0944		7.02	7.39	537		12.0	
0946		7.04	7.39	537		12.1	
0948		7.05	7.39	537		12.1	

Turbidity: (circle) clear moderate (slight) very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	7.05	
pH	7.39	
SC (µmhos/cm)	537	
Turbidity (ntu)		
H_2O Tmp. (°C)	12.1	
Color	no	
Odor	no	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
1	250 ml	Filtered	HCL	As 3/5	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJ2 Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, SD
Laboratory Used: Energy Labs

Site Designation: EH-132
Sample Code Number: EH-1003- 113
Sample Date: 1035
Sample Time: 3/12/10 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003- 116
Duplicate Sample Time: 1050

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring– other:
Weather Conditions: (calm) breeze windy
(no precip.) rain snow
clear (p. cloudy) overcast
Air Temperature: °C 45 °F

For Groundwater Samples

		Comments
well volume formula:	V = (TD-SWL)x(Dia.²) / 25	
TD (ft):	84.5	
SWL (ft):	58.22	no access/pumping
Casing Diameter (I.D.")	2"	
Water Volume (V) (gal):	4.2	
x 3=(gal.)	12.6	
Actual Vol. Removed (gal.)	15	
Pumping Rate (gpm)	1.5	

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1025	PUMP ON						
1027		4.51	7.48	312		14.1	
1029		4.65	7.48	313		14.2	
1031		5.18	7.49	320		14.3	
1033		5.19	7.48	321		14.3	
1035		5.23	7.48	322		14.3	

Turbidity: (circle) clear moderate (slight) very

Sample Method: (grab) composite (pump) bailer other
(describe) Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	5.23	
pH	7.48	
SC (µmhos/cm)	322	
Turbidity (ntu)		
H_2O Tmp. (°C)	14.3	
Color	No	
Odor	No	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
2	500 ml	Unfiltered	Raw	common	
2	250 ml	Filtered	HNO_3	Dmetals	
2	250 ml	Filtered	HCL	As 3/5	
2	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: RJZ Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, SD
Laboratory Used: Energy Labs

Site Designation: Rinsate Blank
Sample Code Number: EH-1003-114
Sample Date: 3/12/10
Sample Time: 1015 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

well volume formula:	V = (TD-SWL)x(Dia.^{2}) / 25	Comments
TD (ft):		
SWL (ft):		no access/pumping
Casing Diameter (I.D.")		
Water Volume (V) (gal):		
x 3=(gal.)		
Actual Vol. Removed (gal.)		
Pumping Rate (gpm)		

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring– other: QAQC
Weather Conditions: (calm) breeze windy
(no precip.) rain snow
clear (p. cloudy) overcast
Air Temperature: °C 40 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
	PUMP ON						

Turbidity: (circle) clear moderate slight very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)		
pH		
SC (µmhos/cm)		
Turbidity (ntu)		
H_2O Tmp. (°C)		
Color		
Odor		

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
1	250 ml	Filtered	HCL	As 3/5	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: [signature] Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL.SD
Laboratory Used: Energy Labs

Site Designation: EH-128
Sample Code Number: EH-1003-115
Sample Date: 3/12/10
Sample Time: 1330 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-116
Duplicate Sample Time:

For Groundwater Samples

well volume formula: $V = \frac{(TD-SWL)x(Dia.^2)}{25}$

Comments

TD (ft): 47.8
SWL (ft): 45.91' — no access/pumping
Casing Diameter (I.D.") 2"
Water Volume (V) (gal): .3
x 3=(gal.) .9
Actual Vol. Removed (gal.) 1.0
Pumping Rate (gpm) Bailer

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water (monitoring well) domestic well adit seep spring- other:
Weather Conditions: (calm) breeze windy (no precip.) rain snow clear (p. cloudy) overcast
Air Temperature: °C 45 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
	PUMP ON						
1gal		8.40	7.77	338		12.7	

Turbidity: (circle) clear (moderate) slight very

Sample Method: (grab) composite (describe) ~~Grundfos~~ (pump) (bailer) other 3" Disp Bailer

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)	8.40	
pH	7.77	
SC (µmhos/cm)	338	
Turbidity (ntu)		
H_2O Tmp. (°C)	12.7	
Color	Tan	
Odor	None	

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
1	250 ml	Filtered	HCL	As 3/5	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	m	F or UF			
	m	F or UF			
	m	F or UF			
	m	F or UF			

Comments: Purged Well Several Times and Let Recover, Sampled With 3" Disp Bailer

Sample Team Member Signature: [signature] Page of

Water Sampling Form ~~ HF-430

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: E. Hln
Project Code: 10022
Sample Team Member(s): RL, JD
Laboratory Used: Energy Labs

Site Designation: DI Blank
Sample Code Number: EH-1003- 117
Sample Date: 3/12/10
Sample Time: 1350 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #: EH-1003-
Duplicate Sample Time:

For Groundwater Samples

well volume formula: V = (TD-SWL)x(Dia.^{2}) / 25

Comments

TD (ft):
SWL (ft): no access/pumping
Casing Diameter (I.D.")
Water Volume (V) (gal):
x 3=(gal.)
Actual Vol. Removed (gal.)
Pumping Rate (gpm)

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY surface water process water
(monitoring well) domestic well adit seep
spring- other:
Weather Conditions: (calm) breeze windy
no precip. rain snow
clear (p. cloudy) overcast
Air Temperature: °C 45 F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameter Stabilization

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
	PUMP ON						

Turbidity: (circle) clear moderate slight very

Sample Method: (describe) (grab) composite (pump) bailer other
Grundfos

Field Parameters

	Sample	Duplicate
ORP (mV)		
DO (mg/l)		
pH		
SC (µmhos/cm)		
Turbidity (ntu)		
H_2O Tmp. (°C)		
Color		
Odor		

Bottles Collected

Quantity	Size	Filter or Unfilt.	Preservative	Parameter	Additional Notes
1	500 ml	Unfiltered	Raw	common	
1	250 ml	Filtered	HNO_3	Dmetals	
1	250 ml	Filtered	HCL	As 3/5	
1	250 ml	Filtered	Raw	Sel Spe	
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			
	ml	F or UF			

Comments:

Sample Team Member Signature: [illegible] Page of

STANDARD OPERATING PROCEDURE
INSTRUMENT CALIBRATION FORM
HF-FORM-500

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: East Helena

Project Number: 10022

Date: 3/11/10

Personnel: R. Lane

Weather Conditions:

calm	breeze	windy
no precip	rain	snow
clear	p. cloudy	overcast

Air Temperature:
°F °C

pH

Meter Type:
SN:

Time	Buffer	Temperature	Reading (Temp Corrected)
07:25	4	15.1	4.00
07:23	7	14.3	7.01
07:28	10	14.8	10.00
Calibration check:			

Specific Conductance

Meter Type: SN:

Time	Standard	Temperature	Reading (Temp Corrected)	Cell Factor
07:20	1413	14.8	1413	—
Calibration check:				

Dissolved Oxygen

Meter Type:
SN:
Time: 07:40
Calibration Results:
9.19

Turbidity

Meter Type: SN:
Standard: Reading:

Redox Potential (Eh)

Meter Type:
SN:
Electrode: Ag/AgCl
Other:
Time:
ZoBell Solution Potential (mV):
Temperature:

PID/FID

Meter Type: SN:
Span Gas Type:

Time	Span Gas		Calibration Memory	Response Factor	Reading
	Gauge Pressure	Concentration			
Calibration Check:					

Notes/Additional Information:

STANDARD OPERATING PROCEDURE
INSTRUMENT CALIBRATION FORM
HF-FORM-500

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: ASARCO E. HLN Long - Term Monitoring Program

Project Number: 1054

Date: 3/12/10

Personnel: R. Luna

Weather Conditions:

calm	breeze	windy
no precip	rain	snow
clear	p. cloudy	overcast

Air Temperature:
°F °C

pH

Meter Type: YSI
SN:

Time	Buffer	Temperature	Reading (Temp Corrected)
08:58	4	15.8	4.00
08:55	7	15.8	7.00
09:05	10	15.8	10.02
Calibration check:			

Specific Conductance

Meter Type: YSI SN:

Time	Standard	Temperature	Reading (Temp Corrected)	Cell Factor
08:50	1413	16.0	1413	
Calibration check:				

Dissolved Oxygen

Meter Type: YSI
SN:
Time: 09:10
Calibration Results:
9.27

Turbidity

Meter Type: SN:
Standard: Reading:

Redox Potential (Eh)

Meter Type: YSI
SN:
Electrode: Ag/AgCl
Other:
Time:
ZoBell Solution Potential (mV):
Temperature:

PID/FID

Meter Type: SN:
Span Gas Type:

Time	Span Gas		Calibration Memory	Response Factor	Reading
	Gauge Pressure	Concentration			
Calibration Check:					

Notes/Additional Information:

APPENDIX 4

CHAIN OF CUSTODIES

CHAIN OF CUSTODY RECORD

Hydrometrics, Inc.®

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO.

PROJECT NAME: EH-March 2010 GW Sampling

SAMPLERS: (Signature) RJZ

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Sel Spc F/Rec							REMARKS
3/11/10	0815		X	EH-1003-100	3	1		1						1							Bill
	0930			101	3																Directly
	1000			102	3																
	1040			103	3																
	1120			104	3																
	1155			105	2	1		1													
	1230			106	2																
	[illegible]00			107	2																
	[illegible]30			108	3	1		1						1							
	1505			109	3																
	1535			110	3																
	1610			111	3																

Relinquished (Signature)	Date/Time	Received by: (Signature)	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
			H10030151		Other ____ Air Bill # ____
Relinquished (Signature)	**Date/Time**	**Received by: (Signature)**	**Remarks**		
			0.9° hand del.		
Relinquished (Signature)	**Date/Time**	**Received for Laboratory by: (Signature)**	**Date/Time**		
[signature]	3/11/10 16:42	[signature]	3/11/10 16:42		

Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____

Split Samples: ☐ Accepted ☐ Declined ____ Signature

HFORM-1-5/99

Return results & electronic copy to:
Computer Dept. at address at top of page

RO 5554

TABLE 3. SAMPLING ANALYTICAL PARAMETERS FOR ANNUAL RESIDENTIAL AND PWS WELL MONTORING PROGRAM, SEMI-ANNUAL LONG-TERM MONITORING PROGRAM, SURFACE WATER MONITORING PROGRAM, AND CAMU MONITORING PROGRAM

Parameter	Analytical Technique	Analytical Method	Project Detection Limit (mg/L)
Physical Parameters			
pH	PH Meter	SM 4500H-B	
Specific Conductivity	SC Meter	SM 2510 B	
TDS	Gravimetric	SM 2540C	10
TSS	Gravimetric	SM 2540D	10
Common Ions			
Alkalinity	Titrimetric	SM 2320 B	1
Bicarbonate	Titrimetric	SM 2320 B	1
Sulfate	Turbidimetric	SM 4500SO4 E	1
Chloride	Colorimetric	SM 4500 CL C	1
Calcium	ICP	200.7	5
Magnesium	ICP	200.7	5
Sodium	ICP	200.7	5
Potassium	ICP	200.7	5
Arsenic and Metals (Groundwater –Dissolved. Surface water Dissolved and Total)			
Arsenic	ICP/ICP-MS	200.7/200.8	0.002
Cadmium	ICP/ICP-MS	200.7/200.8	0.001
Copper	ICP/ICP-MS	200.7/200.8	0.001
Iron	ICP/ICP-MS	200.7/200.8	0.02
Manganese	ICP/ICP-MS	200.7/200.8	0.01
Lead	ICP/ICP-MS	200.7/200.8	0.005
Selenium	ICP/ICP-MS	200.7/200.8	0.001
Zinc	ICP/ICP-MS	200.7/200.8	0.02
Supplemental Trace Metals (Groundwater – Dissolved. Surface Water Dissolved and Total)			
Aluminum	ICP/ICP-MS	200.7/200.8	0.1
Antimony	ICP/ICP-MS	200.7/200.8	0.003
Barium	ICP/ICP-MS	200.7/200.8	0.1
Beryllium	ICP/ICP-MS	200.7/200.8	0.001
Chromium	ICP/ICP-MS	200.7/200.8	0.001
Cobalt	ICP/ICP-MS	200.7/200.8	0.01
Gold	ICP/ICP-MS	200.7/200.8	0.01
Mercury	ICP/ICP-MS	200.8/E245.1	0.001
Nickel	ICP/ICP-MS	200.7/200.8	0.01
Silver	ICP/ICP-MS	200.7/200.8	0.005
Tellurium	ICP/ICP-MS	200.7/200.8	0.1
Thallium	ICP/ICP-MS	200.7/200.8	0.001
Vanadium	ICP/ICP-MS	200.7/200.8	0.01
Field Parameters			
SWL	Electric Tape	HF-SOP-10	0.01 ft
Temperature	PH Meter	HF-SOP-20	NA
Dissolved Oxygen (DO)	DO Meter	HF-SOP-22	NA
PH	pH Meter	HF-SOP-20	NA
Specific Conductivity (SC)	SC Meter	HF-SOP-79	NA

Hydrometrics, Inc.®

CHAIN OF CUSTODY RECORD

2727 Airport Road • Helena, Montana 59601 • (406) 443-4150

PROJ. NO. | PROJECT NAME

SAMPLERS: *(Signature)*

DATE	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	Commons UF/RAW	Nutrients UF/H_2SO_4	Diss. Metal F/HNO_3	CN UF/NaOH	Total Metals UF/HNO_3	Total Recoverable Metals UF/HNO_3	BTEX	TPH	Sel Spec F/Raw	As Spec F/HNO_3						REMARKS
3/12/10	0950		X	EM-1003-112	3	X		X						X							
				113	4										X						
				114	4																
				115	4																
				116	4																
	1350			117	4																

Relinquished *(Signature)*	Date/Time	Received by: *(Signature)*	Lab	P.O. #	Shipped via: Bus, Fed Ex, UPS
[signature]	3/12/10 1620		H10030163 Energy Lab	13.11 Directly	Other ____ Air Bill # ____
Relinquished (Signature)	Date/Time	Received by: *(Signature)*	Remarks Temp 3.6°C		
Relinquished (Signature)	Date/Time	Received for Laboratory by: *(Signature)* [signature]	Date/Time 3-12-2010 16:22	Enclosed: ☐ Parameter sheet w/detection limits ☐ QA/QC standard mixing instructions ☐ Cover letter ☐ Other ____	

HFORM-1-5/99

Return results & electronic copy to:
Computer Dept. at address at top of page

Split Samples:
[] Accepted [] Declined ____ Signature

APPENDIX 5

LABORATORY REPORT

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

ANALYTICAL SUMMARY REPORT

March 23, 2010

Montana Environmental Custodial Trust
PO Box 1230
E. Helena, MT 59635-1230

Workorder No.: H10030151 Quote ID: H493 - All Water Sampling combined

Project Name: EH-March 2010 G/W Sampling

Energy Laboratories Inc received the following 12 samples for Montana Environmental Custodial Trust on 3/11/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10030151-001	EH-1003-100	03/11/10 8:45	03/11/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Selenium By CVAA, Dissolved Selenium-IV, Dissolved Selenium-VI, Dissolved Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030151-002	EH-1003-101	03/11/10 9:30	03/11/10	Aqueous	Same As Above
H10030151-003	EH-1003-102	03/11/10 10:00	03/11/10	Aqueous	Same As Above
H10030151-004	EH-1003-103	03/11/10 10:40	03/11/10	Aqueous	Same As Above
H10030151-005	EH-1003-104	03/11/10 11:20	03/11/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030151-006	EH-1003-105	03/11/10 11:55	03/11/10	Aqueous	Same As Above
H10030151-007	EH-1003-106	03/11/10 12:30	03/11/10	Aqueous	Same As Above
H10030151-008	EH-1003-107	03/11/10 14:00	03/11/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Selenium By CVAA, Dissolved Selenium-IV, Dissolved Selenium-VI, Dissolved Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030151-009	EH-1003-108	03/11/10 14:30	03/11/10	Aqueous	Same As Above
H10030151-010	EH-1003-109	03/11/10 15:05	03/11/10	Aqueous	Same As Above

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

ANALYTICAL SUMMARY REPORT

H10030151-011 EH-1003-110	03/11/10 15:35 03/11/10	Aqueous	Same As Above
H10030151-012 EH-1003-111	03/11/10 16:10 03/11/10	Aqueous	Same As Above

This is a preliminary report that contains incomplete data or data that has not been fully validated. Caution should be exercised in the use of any data presented as final reported results may not reflect the values presented.

If you have any questions regarding these tests results, please call 406-442-0711 or 877-472-0711.

Report Approved By: Assistant Laboratory Manager - Helena

Digitally signed by
Jon Hager
Date: 2010.03.23 09:17:30 -06:00

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-100
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-001
Collection Date: 03/11/10 08:45
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	8.1	s.u.		0.1		A4500-H B	03/16/10 17:53 / hm			MAN-TECH_100316A	11	R60860
Conductivity	513	umhos/cm		1		A2510 B	03/16/10 17:53 / hm			MAN-TECH_100316A	10	R60860
Solids, Total Suspended TSS @ 105 C	14	mg/L		10		A2540 D	03/15/10 14:31 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	3	8224
Solids, Total Dissolved TDS @ 180 C	340	mg/L		10		A2540 C	03/15/10 14:45 / hm	03/15/10 11:36	A2540 C	I-124 (14410200)_100315A	4	8223
INORGANICS												
Alkalinity, Total as CaCO3	150	mg/L		1		A2320 B	03/16/10 17:53 / hm			MAN-TECH_100316A	9	R60860
Bicarbonate as HCO3	180	mg/L		1		A2320 B	03/16/10 17:53 / hm			MAN-TECH_100316A	9	R60860
Chloride	16	mg/L		1		E300.0	03/15/10 19:31 / hm			IC101-H_100315A	36	R60825
Sulfate	81	mg/L		1		E300.0	03/15/10 19:31 / hm			IC101-H_100315A	36	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Calcium	55	mg/L		1		E200.7	03/16/10 16:11 / sld			ICP1-HE_100316B	81	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Magnesium	14	mg/L		1		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:06 / dck			ICPMS204-B_100315A	56	R60797
Potassium	5	mg/L		1		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Selenium	0.004	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Sodium	35	mg/L		1		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:48 / sld			ICP1-HE_100315A	39	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-100
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-001
Collection Date: 03/11/10 08:45
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 08:53 / dck			ICPMS204-B_100314A	96	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 15:59 / eau			A MILLENNIUM_100312D	10	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:13 / eau			SA MILLENNIUM_100312E	8	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-101
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-002
Collection Date: 03/11/10 09:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.8	s.u.		0.1		A4500-H B	03/16/10 18:17 / hm			MAN-TECH_100316A	16	R60860
Conductivity	256	umhos/cm		1		A2510 B	03/16/10 18:17 / hm			MAN-TECH_100316A	15	R60860
Solids, Total Suspended TSS @ 105 C	34	mg/L		10		A2540 D	03/15/10 14:32 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	4	8224
Solids, Total Dissolved TDS @ 180 C	190	mg/L		10		A2540 C	03/15/10 14:45 / hm	03/15/10 11:36	A2540 C	I-124 (14410200)_100315A	5	8223
INORGANICS												
Alkalinity, Total as CaCO3	74	mg/L		1		A2320 B	03/16/10 18:17 / hm			MAN-TECH_100316A	14	R60860
Bicarbonate as HCO3	91	mg/L		1		A2320 B	03/16/10 18:17 / hm			MAN-TECH_100316A	14	R60860
Chloride	4	mg/L		1		E300.0	03/15/10 19:47 / hm			IC101-H_100315A	37	R60825
Sulfate	42	mg/L		1		E300.0	03/15/10 19:47 / hm			IC101-H_100315A	37	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Calcium	28	mg/L		1		E200.7	03/16/10 16:14 / sld			ICP1-HE_100316B	82	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Magnesium	6	mg/L		1		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:11 / dck			ICPMS204-B_100315A	57	R60797
Potassium	2	mg/L		1		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Sodium	14	mg/L		1		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:51 / sld			ICP1-HE_100315A	40	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-101
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-002
Collection Date: 03/11/10 09:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:19 / dck			ICPMS204-B_100314A	101	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:19 / eau			A MILLENNIUM_100312D	19	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:14 / eau			SA MILLENNIUM_100312E	9	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-102
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-003
Collection Date: 03/11/10 10:00
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.9	s.u.		0.1		A4500-H B	03/16/10 18:30 / hm			MAN-TECH_100316A	22	R60860
Conductivity	240	umhos/cm		1		A2510 B	03/16/10 18:30 / hm			MAN-TECH_100316A	21	R60860
Solids, Total Suspended TSS @ 105 C	21	mg/L		10		A2540 D	03/15/10 14:32 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	6	8224
Solids, Total Dissolved TDS @ 180 C	171	mg/L		10		A2540 C	03/15/10 14:46 / hm	03/15/10 11:36	A2540 C	I-124 (14410200)_100315A	7	8223
INORGANICS												
Alkalinity, Total as CaCO3	70	mg/L		1		A2320 B	03/16/10 18:30 / hm			MAN-TECH_100316A	20	R60860
Bicarbonate as HCO3	85	mg/L		1		A2320 B	03/16/10 18:30 / hm			MAN-TECH_100316A	20	R60860
Chloride	3	mg/L		1		E300.0	03/15/10 20:04 / hm			IC101-H_100315A	38	R60825
Sulfate	38	mg/L		1		E300.0	03/15/10 20:04 / hm			IC101-H_100315A	38	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Calcium	26	mg/L		1		E200.7	03/16/10 16:17 / sld			ICP1-HE_100316B	83	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Magnesium	6	mg/L		1		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:16 / dck			ICPMS204-B_100315A	58	R60797
Potassium	2	mg/L		1		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Sodium	13	mg/L		1		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:54 / sld			ICP1-HE_100315A	41	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-102
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-003
Collection Date: 03/11/10 10:00
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:24 / dck			ICPMS204-B_100314A	102	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:19 / eau			A MILLENNIUM_100312D	20	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:16 / eau			A MILLENNIUM_100312E	10	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-103
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-004
Collection Date: 03/11/10 10:40
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.9	s.u.		0.1		A4500-H B	03/16/10 18:36 / hm			MAN-TECH_100316A	25	R60860
Conductivity	530	umhos/cm		1		A2510 B	03/16/10 18:36 / hm			MAN-TECH_100316A	24	R60860
Solids, Total Suspended TSS @ 105 C	54	mg/L		10		A2540 D	03/15/10 14:33 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	7	8224
Solids, Total Dissolved TDS @ 180 C	388	mg/L		10		A2540 C	03/15/10 14:46 / hm	03/15/10 11:36	A2540 C	I-124 (14410200)_100315A	8	8223
INORGANICS												
Alkalinity, Total as CaCO3	97	mg/L		1		A2320 B	03/16/10 18:36 / hm			MAN-TECH_100316A	23	R60860
Bicarbonate as HCO3	120	mg/L		1		A2320 B	03/16/10 18:36 / hm			MAN-TECH_100316A	23	R60860
Chloride	11	mg/L		1		E300.0	03/15/10 20:53 / hm			IC101-H_100315A	41	R60825
Sulfate	140	mg/L		1		E300.0	03/15/10 20:53 / hm			IC101-H_100315A	41	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Calcium	51	mg/L		1		E200.7	03/16/10 16:20 / sld			ICP1-HE_100316B	84	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Magnesium	12	mg/L		1		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:21 / dck			ICPMS204-B_100315A	59	R60797
Potassium	4	mg/L		1		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Selenium	0.033	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Sodium	35	mg/L		1		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 14:57 / sld			ICP1-HE_100315A	42	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-103
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-004
Collection Date: 03/11/10 10:40
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 07:05 / dck			ICPMS204-B_100314A	75	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:01 / eau			A MILLENNIUM_100312D	11	R60771
Selenium-VI	0.021	mg/L		0.005		A3114 B	03/12/10 13:17 / eau			A MILLENNIUM_100312E	11	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-104
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-005
Collection Date: 03/11/10 11:20
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.8	s.u.		0.1		A4500-H B	03/16/10 18:43 / hm			MAN-TECH_100316A	28	R60860
Conductivity	256	umhos/cm		1		A2510 B	03/16/10 18:43 / hm			MAN-TECH_100316A	27	R60860
Solids, Total Suspended TSS @ 105 C	20	mg/L		10		A2540 D	03/15/10 14:33 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	8	8224
Solids, Total Dissolved TDS @ 180 C	180	mg/L		10		A2540 C	03/15/10 14:47 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	10	8223
INORGANICS												
Alkalinity, Total as CaCO3	73	mg/L		1		A2320 B	03/16/10 18:43 / hm			MAN-TECH_100316A	26	R60860
Bicarbonate as HCO3	89	mg/L		1		A2320 B	03/16/10 18:43 / hm			MAN-TECH_100316A	26	R60860
Chloride	3	mg/L		1		E300.0	03/15/10 21:10 / hm			IC101-H_100315A	42	R60825
Sulfate	44	mg/L		1		E300.0	03/15/10 21:10 / hm			IC101-H_100315A	42	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Calcium	29	mg/L		1		E200.7	03/16/10 16:23 / sld			ICP1-HE_100316B	85	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Magnesium	6	mg/L		1		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:27 / dck			ICPMS204-B_100315A	60	R60797
Potassium	2	mg/L		1		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Sodium	13	mg/L		1		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:00 / sld			ICP1-HE_100315A	43	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-104
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-005
Collection Date: 03/11/10 11:20
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:30 / dck			ICPMS204-B_100314A	103	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-105
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-006
Collection Date: 03/11/10 11:55
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.8	s.u.		0.1		A4500-H B	03/16/10 18:49 / hm			MAN-TECH_100316A	31	R60860
Conductivity	240	umhos/cm		1		A2510 B	03/16/10 18:49 / hm			MAN-TECH_100316A	30	R60860
Solids, Total Suspended TSS @ 105 C	105	mg/L		10		A2540 D	03/15/10 14:33 / hm	03/15/10 12:26	A2540 D	I-124 (14410200)_100315B	9	8224
Solids, Total Dissolved TDS @ 180 C	172	mg/L		10		A2540 C	03/15/10 14:47 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	11	8223
INORGANICS												
Alkalinity, Total as CaCO3	71	mg/L		1		A2320 B	03/16/10 18:49 / hm			MAN-TECH_100316A	29	R60860
Bicarbonate as HCO3	87	mg/L		1		A2320 B	03/16/10 18:49 / hm			MAN-TECH_100316A	29	R60860
Chloride	3	mg/L		1		E300.0	03/15/10 21:26 / hm			IC101-H_100315A	43	R60825
Sulfate	37	mg/L		1		E300.0	03/15/10 21:26 / hm			IC101-H_100315A	43	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Calcium	27	mg/L		1		E200.7	03/16/10 16:26 / sld			ICP1-HE_100316B	86	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Magnesium	6	mg/L		1		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 15:32 / dck			ICPMS204-B_100315A	61	R60797
Potassium	2	mg/L		1		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Sodium	13	mg/L		1		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:09 / sld			ICP1-HE_100315A	46	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-105
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-006
Collection Date: 03/11/10 11:55
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 07:15 / dck			ICPMS204-B_100314A	77	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-106
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-007
Collection Date: 03/11/10 12:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.9	s.u.		0.1		A4500-H B	03/16/10 18:56 / hm			MAN-TECH_100316A	34	R60860
Conductivity	247	umhos/cm		1		A2510 B	03/16/10 18:56 / hm			MAN-TECH_100316A	33	R60860
Solids, Total Suspended TSS @ 105 C	34	mg/L		10		A2540 D	03/15/10 14:34 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	10	8224
Solids, Total Dissolved TDS @ 180 C	174	mg/L		10		A2540 C	03/15/10 14:47 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	12	8223
INORGANICS												
Alkalinity, Total as CaCO3	74	mg/L		1		A2320 B	03/16/10 18:56 / hm			MAN-TECH_100316A	32	R60860
Bicarbonate as HCO3	90	mg/L		1		A2320 B	03/16/10 18:56 / hm			MAN-TECH_100316A	32	R60860
Chloride	3	mg/L		1		E300.0	03/15/10 21:42 / hm			IC101-H_100315A	44	R60825
Sulfate	38	mg/L		1		E300.0	03/15/10 21:42 / hm			IC101-H_100315A	44	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Arsenic	ND	mg/L		0.002		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Calcium	26	mg/L		1		E200.7	03/16/10 16:29 / sld			ICP1-HE_100316B	87	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Magnesium	6	mg/L		1		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:13 / dck			ICPMS204-B_100315A	69	R60797
Potassium	2	mg/L		1		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Sodium	13	mg/L		1		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:12 / sld			ICP1-HE_100315A	47	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-106
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-007
Collection Date: 03/11/10 12:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:35 / dck			ICPMS204-B_100314A	104	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-107
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-008
Collection Date: 03/11/10 14:00
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	7.6	s.u.		0.1		A4500-H B	03/16/10 19:03 / hm			MAN-TECH_100316A	37	R60860
Conductivity	1260	umhos/cm		1		A2510 B	03/16/10 19:03 / hm			MAN-TECH_100316A	36	R60860
Solids, Total Suspended TSS @ 105 C	120	mg/L		10		A2540 D	03/15/10 14:34 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	11	8224
Solids, Total Dissolved TDS @ 180 C	922	mg/L		10		A2540 C	03/15/10 14:48 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	14	8223
INORGANICS												
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	03/16/10 19:03 / hm			MAN-TECH_100316A	35	R60860
Bicarbonate as HCO3	170	mg/L		1		A2320 B	03/16/10 19:03 / hm			MAN-TECH_100316A	35	R60860
Chloride	40	mg/L		1		E300.0	03/15/10 22:32 / hm			IC101-H_100315A	47	R60825
Sulfate	440	mg/L		1		E300.0	03/15/10 22:32 / hm			IC101-H_100315A	47	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Arsenic	0.004	mg/L		0.002		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Calcium	132	mg/L		1		E200.7	03/16/10 16:32 / sld			ICP1-HE_100316B	88	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Copper	0.002	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Iron	0.03	mg/L		0.02		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Magnesium	33	mg/L		1		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:18 / dck			ICPMS204-B_100315A	70	R60797
Potassium	5	mg/L		1		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Selenium	0.117	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Sodium	94	mg/L		1		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:22 / sld			ICP1-HE_100315A	50	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-107
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-008
Collection Date: 03/11/10 14:00
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:40 / dck			ICPMS204-B_100314A	105	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:02 / eau			A MILLENNIUM_100312D	12	R60771
Selenium-VI	0.072	mg/L		0.005		A3114 B	03/12/10 13:19 / eau			A MILLENNIUM_100312E	12	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-108
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-009
Collection Date: 03/11/10 14:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	8.1	s.u.		0.1		A4500-H B	03/16/10 19:10 / hm			MAN-TECH_100316A	40	R60860
Conductivity	534	umhos/cm		1		A2510 B	03/16/10 19:10 / hm			MAN-TECH_100316A	39	R60860
Solids, Total Suspended TSS @ 105 C	122	mg/L		10		A2540 D	03/15/10 14:34 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	13	8224
Solids, Total Dissolved TDS @ 180 C	352	mg/L		10		A2540 C	03/15/10 14:49 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	16	8223
INORGANICS												
Alkalinity, Total as CaCO3	160	mg/L		1		A2320 B	03/16/10 19:10 / hm			MAN-TECH_100316A	38	R60860
Bicarbonate as HCO3	200	mg/L		1		A2320 B	03/16/10 19:10 / hm			MAN-TECH_100316A	38	R60860
Chloride	14	mg/L		1		E300.0	03/15/10 22:48 / hm			IC101-H_100315A	48	R60825
Sulfate	83	mg/L		1		E300.0	03/15/10 22:48 / hm			IC101-H_100315A	48	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Arsenic	0.004	mg/L		0.002		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Calcium	53	mg/L		1		E200.7	03/16/10 16:35 / sld			ICP1-HE_100316B	89	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Magnesium	23	mg/L		1		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:23 / dck			ICPMS204-B_100315A	71	R60797
Potassium	3	mg/L		1		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Selenium	0.010	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Sodium	23	mg/L		1		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:25 / sld			ICP1-HE_100315A	51	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-108
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-009
Collection Date: 03/11/10 14:30
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 07:10 / dck			ICPMS204-B_100314A	76	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:07 / eau			A MILLENNIUM_100312D	15	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:23 / eau			A MILLENNIUM_100312E	15	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-109
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-010
Collection Date: 03/11/10 15:05
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	8.1	s.u.		0.1		A4500-H B	03/16/10 19:35 / hm			MAN-TECH_100316A	47	R60860
Conductivity	356	umhos/cm		1		A2510 B	03/16/10 19:35 / hm			MAN-TECH_100316A	46	R60860
Solids, Total Suspended TSS @ 105 C	19	mg/L		10		A2540 D	03/15/10 14:34 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	14	8224
Solids, Total Dissolved TDS @ 180 C	261	mg/L		10		A2540 C	03/15/10 14:49 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	17	8223
INORGANICS												
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	03/16/10 19:35 / hm			MAN-TECH_100316A	45	R60860
Bicarbonate as HCO3	150	mg/L		1		A2320 B	03/16/10 19:35 / hm			MAN-TECH_100316A	45	R60860
Chloride	4	mg/L		1		E300.0	03/15/10 23:37 / hm			IC101-H_100315A	51	R60825
Sulfate	43	mg/L		1		E300.0	03/15/10 23:37 / hm			IC101-H_100315A	51	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Arsenic	0.005	mg/L		0.002		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Calcium	36	mg/L		1		E200.7	03/16/10 16:51 / sld			ICP1-HE_100316B	94	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Magnesium	10	mg/L		1		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:29 / dck			ICPMS204-B_100315A	72	R60797
Potassium	5	mg/L		1		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Selenium	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Sodium	20	mg/L		1		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:28 / sld			ICP1-HE_100315A	52	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-109
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-010
Collection Date: 03/11/10 15:05
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:45 / dck			ICPMS204-B_100314A	106	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:19 / eau			A MILLENNIUM_100312D	21	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:25 / eau			A MILLENNIUM_100312E	16	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-110
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-011
Collection Date: 03/11/10 15:35
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	8.0	s.u.		0.1		A4500-H B	03/16/10 19:42 / hm			MAN-TECH_100316A	50	R60860
Conductivity	467	umhos/cm		1		A2510 B	03/16/10 19:42 / hm			MAN-TECH_100316A	49	R60860
Solids, Total Suspended TSS @ 105 C	30	mg/L		10		A2540 D	03/15/10 14:35 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	15	8224
Solids, Total Dissolved TDS @ 180 C	327	mg/L		10		A2540 C	03/15/10 14:49 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	18	8223
INORGANICS												
Alkalinity, Total as CaCO3	150	mg/L		1		A2320 B	03/16/10 19:42 / hm			MAN-TECH_100316A	48	R60860
Bicarbonate as HCO3	180	mg/L		1		A2320 B	03/16/10 19:42 / hm			MAN-TECH_100316A	48	R60860
Chloride	9	mg/L		1		E300.0	03/15/10 23:54 / hm			IC101-H_100315A	52	R60825
Sulfate	70	mg/L		1		E300.0	03/15/10 23:54 / hm			IC101-H_100315A	52	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Arsenic	0.007	mg/L		0.002		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Calcium	47	mg/L		1		E200.7	03/16/10 16:54 / sld			ICP1-HE_100316B	95	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Magnesium	15	mg/L		1		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:34 / dck			ICPMS204-B_100315A	73	R60797
Potassium	6	mg/L		1		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Selenium	0.002	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Sodium	28	mg/L		1		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:40 / sld			ICP1-HE_100315A	56	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-110
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-011
Collection Date: 03/11/10 15:35
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:50 / dck			ICPMS204-B_100314A	107	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:19 / eau			A MILLENNIUM_100312D	22	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:28 / eau			A MILLENNIUM_100312E	18	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-111
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-012
Collection Date: 03/11/10 16:10
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
PHYSICAL PROPERTIES												
pH	8.0	s.u.		0.1		A4500-H B	03/16/10 19:56 / hm			MAN-TECH_100316A	56	R60860
Conductivity	405	umhos/cm		1		A2510 B	03/16/10 19:56 / hm			MAN-TECH_100316A	55	R60860
Solids, Total Suspended TSS @ 105 C	34	mg/L		10		A2540 D	03/15/10 14:35 / hm	03/15/10 12:26	A2540 D	124 (14410200)_100315B	16	8224
Solids, Total Dissolved TDS @ 180 C	287	mg/L		10		A2540 C	03/15/10 14:49 / hm	03/15/10 11:36	A2540 C	124 (14410200)_100315A	19	8223
INORGANICS												
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	03/16/10 19:56 / hm			MAN-TECH_100316A	54	R60860
Bicarbonate as HCO3	180	mg/L		1		A2320 B	03/16/10 19:56 / hm			MAN-TECH_100316A	54	R60860
Chloride	8	mg/L		1		E300.0	03/16/10 00:10 / hm			IC101-H_100315A	53	R60825
Sulfate	55	mg/L		1		E300.0	03/16/10 00:10 / hm			IC101-H_100315A	53	R60825
METALS, DISSOLVED												
Aluminum	ND	mg/L		0.1		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Antimony	ND	mg/L		0.003		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Arsenic	0.008	mg/L		0.002		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Barium	ND	mg/L		0.1		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Beryllium	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Cadmium	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Calcium	42	mg/L		1		E200.7	03/16/10 16:57 / sld			ICP1-HE_100316B	96	R60849
Chromium	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Cobalt	ND	mg/L		0.01		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Copper	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Lead	ND	mg/L		0.005		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Magnesium	14	mg/L		1		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Manganese	ND	mg/L		0.01		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Mercury	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Nickel	ND	mg/L		0.01		E200.8	03/15/10 16:39 / dck			ICPMS204-B_100315A	74	R60797
Potassium	6	mg/L		1		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Selenium	0.001	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Silver	ND	mg/L		0.005		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Sodium	19	mg/L		1		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:43 / sld			ICP1-HE_100315A	57	R60816
Thallium	ND	mg/L		0.001		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-111
Project: EH-March 2010 G/W Sampling
Matrix: Aqueous

Lab ID: H10030151-012
Collection Date: 03/11/10 16:10
DateReceived: 03/11/10
Report Date: 03/23/10

Analyses	Result	Units	QUAL	RL	MCL	Method	Analysis Date / By	Prep Date	Prep Method	RunID	Run Order	BatchID
METALS, DISSOLVED												
Vanadium	ND	mg/L		0.01		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
Zinc	ND	mg/L		0.01		E200.8	03/14/10 09:55 / dck			ICPMS204-B_100314A	108	R60784
METALS, SPECIATED												
Selenium-IV	ND	mg/L		0.005		A3114 B	03/12/10 16:19 / eau			A MILLENNIUM_100312D	23	R60771
Selenium-VI	ND	mg/L		0.005		A3114 B	03/12/10 13:29 / eau			A MILLENNIUM_100312E	19	R60772

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: 8223

Date: *23-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 1** SampType: **Method Blank** Sample ID: **MB-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	7	1									

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2010	10	2000	7	**100**	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 6** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2540 C**
Analysis Date: **03/15/10 14:45** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	194	10						190	**2.1**	5	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 9** SampType: **Sample Matrix Spike** Sample ID: **H10030151-004AMS** Method: **A2540 C**
Analysis Date: **03/15/10 14:46** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2370	10	2000	388	**99**	80	120				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030151-007AMS** Method: **A2540 C**
Analysis Date: **03/15/10 14:48** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2150	10	2000	174	**99**	80	120				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

Work Order: H10030151

Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: 8223

Date: *23-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 15** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 C**

Analysis Date: **03/15/10 14:48** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	918	10						922	0.4	5	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

Work Order: H10030151

Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: 8224

Date: *23-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 1** SampType: **Method Blank** Sample ID: **MB-8224** Method: **A2540 D**

Analysis Date: **03/15/10 14:30** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8224** Method: **A2540 D**

Analysis Date: **03/15/10 14:31** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1970	10	2000		99	70	130				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 5** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2540 D**

Analysis Date: **03/15/10 14:32** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	36.0	10						34	5.7	5	R

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 12** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 D**

Analysis Date: **03/15/10 14:34** Units: **mg/L** **Prep Info:** Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	122	10						120	1.7	5	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60771

Date: *23-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100312D: 4** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**

Analysis Date: **03/12/10 15:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0007	0.0003									

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312D: 6** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+4 100312-0.02** Method: **A3114 B**

Analysis Date: **03/12/10 15:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0206	0.0050	0.02		103	90	110				

Associated samples: **H10030151-001C; H10030151-004C; H10030151-008C; H10030151-009C**

Run ID :Run Order: **PSA MILLENNIUM_100312D: 7** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 15:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0217	0.0050	0.02		108	90	110				

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312D: 9** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 15:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0233	0.0050	0.02	0.000653	113	80	120				

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312D: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030151-008CMS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 16:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0288	0.0050	0.02	0.000744	140	80	120				S

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

Work Order: H10030151

Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60771

Date: *23-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100312D: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-008CMSD Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 16:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0290	0.0050	0.02	0.000744	**141**	80	120	0.02876	**0.9**	20	S

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312D: 17** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+4 100312-0.02** Method: **A3114 B**

Analysis Date: **03/12/10 16:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0198	0.0050	0.02		99	90	110				

Associated samples:

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60772

Date: *23-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100312E: 2** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+6 100311-0.02** Method: **A3114 B**

Analysis Date: **03/12/10 12:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0198	0.0050	0.02		99	90	110				

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312E: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 12:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0200	0.0050	0.02		100	90	110				

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312E: 6** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**

Analysis Date: **03/12/10 12:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0003									

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312E: 7** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+6/+4 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 12:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0478	0.0050	0.04		120	80	120				

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312E: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030151-008CMS Se+6/+4 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 13:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0872	0.0050	0.02	0.07207	76	80	120				S

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60772

Date: *23-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100312E: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-008CMSD Se+6/+4 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/12/10 13:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0864	0.0050	0.02	0.07207	71	80	120	0.08719	0.9	20	S

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Run ID :Run Order: **PSA MILLENNIUM_100312E: 17** SampType: **Sample Duplicate** Sample ID: **H10030151-010CDUP** Method: **A3114 B**

Analysis Date: **03/12/10 13:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0050								20	

Associated samples: **H10030151-001C; H10030151-002C; H10030151-003C; H10030151-004C; H10030151-008C; H10030151-009C; H10030151-010C; H10030151-011C; H10030151-012C**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 64** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/14/10 06:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.257	0.10	0.25		103	90	110				
Antimony	0.0503	0.050	0.05		101	90	110				
Arsenic	0.0508	0.0050	0.05		101	90	110				
Barium	0.0503	0.10	0.05		101	90	110				
Beryllium	0.0255	0.0010	0.025		102	90	110				
Cadmium	0.0263	0.0010	0.025		105	90	110				
Chromium	0.0511	0.010	0.05		102	90	110				
Cobalt	0.0513	0.010	0.05		103	90	110				
Copper	0.0509	0.010	0.05		102	90	110				
Lead	0.0497	0.010	0.05		99	90	110				
Manganese	0.255	0.010	0.25		102	90	110				
Mercury	0.00199	0.0010	0.002		99	90	110				
Selenium	0.0515	0.0050	0.05		103	90	110				
Silver	0.0254	0.0050	0.025		102	90	110				
Thallium	0.0496	0.10	0.05		99	90	110				
Vanadium	0.0500	0.10	0.05		100	90	110				
Zinc	0.0525	0.010	0.05		105	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 65** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/14/10 06:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	42.5	0.10	40		106	70	130				
Antimony	0.000374	0.050									
Arsenic	8.20E-05	0.0050									
Barium	-0.000479	0.10									
Beryllium	2.00E-06	0.0010									
Cadmium	0.000460	0.0010									
Chromium	0.000684	0.010									
Cobalt	0.00167	0.010									
Copper	0.00212	0.010									
Lead	6.80E-05	0.010									
Manganese	0.00230	0.010									

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A - Analyte concentration greater than three times the spike amount

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Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 65** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/14/10 06:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.40E-05	0.0010									
Selenium	9.00E-06	0.0050									
Silver	0.000148	0.0050									
Thallium	1.80E-05	0.10									
Vanadium	5.10E-05	0.10									
Zinc	0.00185	0.010									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 66** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/14/10 06:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	44.6	0.10	40		**112**	70	130				
Antimony	0.000213	0.050				0	0				
Arsenic	0.0115	0.0050	0.01		**115**	70	130				
Barium	-0.000492	0.10				0	0				
Beryllium	1.00E-05	0.0010				0	0				
Cadmium	0.0112	0.0010	0.01		**112**	70	130				
Chromium	0.0230	0.010	0.02		**115**	70	130				
Cobalt	0.0240	0.010	0.02		**120**	70	130				
Copper	0.0238	0.010	0.02		**119**	70	130				
Lead	5.60E-05	0.010				0	0				
Manganese	0.0245	0.010	0.02		**123**	70	130				
Mercury	3.40E-05	0.0010				0	0				
Selenium	0.0112	0.0050	0.01		**112**	70	130				
Silver	0.0214	0.0050	0.02		**107**	70	130				
Thallium	4.00E-06	0.10				0	0				
Vanadium	0.0223	0.10	0.02		**111**	70	130				
Zinc	0.0122	0.010	0.01		**122**	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 72** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**
Analysis Date: **03/14/10 06:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	7E-05									
Antimony	ND	3E-05									
Arsenic	ND	5E-05									
Barium	ND	3E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	ND	5E-05									
Cobalt	ND	1E-05									
Copper	ND	7E-05									
Lead	ND	5E-06									
Manganese	ND	2E-05									
Mercury	6E-06	5E-06									
Selenium	ND	0.0002									
Silver	ND	2E-05									
Thallium	ND	1E-05									
Vanadium	ND	6E-05									
Zinc	0.001	9E-05									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 73** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**
Analysis Date: **03/14/10 06:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0497	0.10	0.05		**99**	85	115				
Antimony	0.0501	0.050	0.05		**100**	85	115				
Arsenic	0.0501	0.0050	0.05		**100**	85	115				
Barium	0.0494	0.10	0.05		**99**	85	115				
Beryllium	0.0478	0.0010	0.05		**96**	85	115				
Cadmium	0.0492	0.0010	0.05		**98**	85	115				
Chromium	0.0504	0.010	0.05		**101**	85	115				
Cobalt	0.0496	0.010	0.05		**99**	85	115				
Copper	0.0491	0.010	0.05		**98**	85	115				
Lead	0.0501	0.010	0.05		**100**	85	115				
Manganese	0.0507	0.010	0.05		**101**	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 73** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**

Analysis Date: **03/14/10 06:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000989	0.0010	0.001	0.0000056	98	85	115				
Selenium	0.0491	0.0050	0.05		98	85	115				
Silver	0.0193	0.0050	0.02		96	85	115				
Thallium	0.0501	0.10	0.05		100	85	115				
Vanadium	0.0510	0.10	0.05		102	85	115				
Zinc	0.0513	0.010	0.05	0.001394	100	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 78** SampType: **Sample Matrix Spike** Sample ID: **H10030151-006BMS** Method: **E200.8**

Analysis Date: **03/14/10 07:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0686	0.10	0.05	0.02194	93	70	130				
Antimony	0.0512	0.0050	0.05	0.0001704	102	70	130				
Arsenic	0.0522	0.0050	0.05	0.0007212	103	70	130				
Barium	0.0736	0.10	0.05	0.02436	99	70	130				
Beryllium	0.0478	0.0010	0.05		96	70	130				
Cadmium	0.0495	0.0010	0.05		99	70	130				
Chromium	0.0498	0.010	0.05	0.000182	99	70	130				
Cobalt	0.0489	0.010	0.05	0.0002825	97	70	130				
Copper	0.0480	0.010	0.05	0.0004956	95	70	130				
Lead	0.0500	0.010	0.05	0.0000103	100	70	130				
Manganese	0.0502	0.010	0.05	0.0006483	99	70	130				
Mercury	0.00105	0.0010	0.001	0.0000094	104	70	130				
Selenium	0.0514	0.0050	0.05		103	70	130				
Silver	0.0185	0.0050	0.02		93	70	130				
Thallium	0.0500	0.0050	0.05	0.0000176	100	70	130				
Vanadium	0.0512	0.10	0.05	0.001212	100	70	130				
Zinc	0.0512	0.010	0.05	0.001225	100	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 79** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-006BMSD** Method: **E200.8**

Analysis Date: **03/14/10 07:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0693	0.10	0.05	0.02194	**95**	70	130	0.06855		20	
Antimony	0.0505	0.0050	0.05	0.0001704	**101**	70	130	0.05116	**1.3**	20	
Arsenic	0.0517	0.0050	0.05	0.0007212	**102**	70	130	0.05224	**1**	20	
Barium	0.0737	0.10	0.05	0.02436	**99**	70	130	0.07362		20	
Beryllium	0.0483	0.0010	0.05		**97**	70	130	0.04777	**1.2**	20	
Cadmium	0.0490	0.0010	0.05		**98**	70	130	0.04955	**1.1**	20	
Chromium	0.0501	0.010	0.05	0.000182	**100**	70	130	0.04976	**0.7**	20	
Cobalt	0.0487	0.010	0.05	0.0002825	**97**	70	130	0.04889	**0.5**	20	
Copper	0.0481	0.010	0.05	0.0004956	**95**	70	130	0.04795	**0.3**	20	
Lead	0.0498	0.010	0.05	0.0000103	**100**	70	130	0.05002	**0.4**	20	
Manganese	0.0504	0.010	0.05	0.0006483	**99**	70	130	0.05021	**0.4**	20	
Mercury	0.00103	0.0010	0.001	0.0000094	**102**	70	130	0.00105	**2.1**	20	
Selenium	0.0510	0.0050	0.05		**102**	70	130	0.05139	**0.8**	20	
Silver	0.0189	0.0050	0.02		**94**	70	130	0.01853	**1.8**	20	
Thallium	0.0494	0.0050	0.05	0.0000176	**99**	70	130	0.05001	**1.2**	20	
Vanadium	0.0518	0.10	0.05	0.001212	**101**	70	130	0.05117		20	
Zinc	0.0508	0.010	0.05	0.001225	**99**	70	130	0.05122	**0.8**	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 89** SampType: **Sample Matrix Spike** Sample ID: **H10030084-001BMS** Method: **E200.8**

Analysis Date: **03/14/10 08:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0481	0.10	0.05	0.0001095	**96**	70	130				
Antimony	0.0508	0.0050	0.05	0.0000455	**102**	70	130				
Arsenic	0.0533	0.0050	0.05	0.001964	**103**	70	130				
Barium	0.101	0.10	0.05	0.05344	**96**	70	130				
Beryllium	0.0468	0.0010	0.05		**94**	70	130				
Cadmium	0.0487	0.0010	0.05		**97**	70	130				
Chromium	0.0499	0.010	0.05		**100**	70	130				
Cobalt	0.0486	0.010	0.05	0.0001251	**97**	70	130				
Copper	0.0511	0.010	0.05	0.003574	**95**	70	130				
Lead	0.0503	0.010	0.05	0.000011	**101**	70	130				
Manganese	0.0681	0.010	0.05	0.01879	**99**	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
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Work Order: H10030151

Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60784

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100314A: 89** SampType: **Sample Matrix Spike** Sample ID: **H10030084-001BMS** Method: **E200.8**

Analysis Date: **03/14/10 08:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000970	0.0010	0.001	0.0000162	**95**	70	130				
Selenium	0.0674	0.0050	0.05	0.01796	**99**	70	130				
Silver	0.0133	0.0050	0.02		**67**	70	130				S
Thallium	0.0509	0.0050	0.05	0.0000684	**102**	70	130				
Vanadium	0.0505	0.10	0.05	0.0007095	**100**	70	130				
Zinc	0.0852	0.010	0.05	0.03761	**95**	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100314A: 90** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-001BMSD** Method: **E200.8**

Analysis Date: **03/14/10 08:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0472	0.10	0.05	0.0001095	**94**	70	130	0.04808		20	
Antimony	0.0506	0.0050	0.05	0.0000455	**101**	70	130	0.05085	**0.6**	20	
Arsenic	0.0519	0.0050	0.05	0.001964	**100**	70	130	0.0533	**2.7**	20	
Barium	0.102	0.10	0.05	0.05344	**97**	70	130	0.1014	**0.3**	20	
Beryllium	0.0466	0.0010	0.05		**93**	70	130	0.04682	**0.5**	20	
Cadmium	0.0484	0.0010	0.05		**97**	70	130	0.04867	**0.6**	20	
Chromium	0.0484	0.010	0.05		**97**	70	130	0.04986	**2.9**	20	
Cobalt	0.0478	0.010	0.05	0.0001251	**95**	70	130	0.04857	**1.7**	20	
Copper	0.0502	0.010	0.05	0.003574	**93**	70	130	0.05113	**1.8**	20	
Lead	0.0490	0.010	0.05	0.000011	**98**	70	130	0.05034	**2.6**	20	
Manganese	0.0668	0.010	0.05	0.01879	**96**	70	130	0.06811	**1.9**	20	
Mercury	0.000938	0.0010	0.001	0.0000162	**92**	70	130	0.00097		20	
Selenium	0.0658	0.0050	0.05	0.01796	**96**	70	130	0.06737	**2.3**	20	
Silver	0.0149	0.0050	0.02		**75**	70	130	0.01331	**11**	20	
Thallium	0.0489	0.0050	0.05	0.0000684	**98**	70	130	0.0509	**4**	20	
Vanadium	0.0493	0.10	0.05	0.0007095	**97**	70	130	0.05048		20	
Zinc	0.0841	0.010	0.05	0.03761	**93**	70	130	0.08519	**1.3**	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *23-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 8** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 10:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0507	0.010	0.05		101	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/15/10 10:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.00196	0.010									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/15/10 10:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0228	0.010	0.02		114	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 27** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**

Analysis Date: **03/15/10 12:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.001	7E-05									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**

Analysis Date: **03/15/10 12:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0512	0.010	0.05	0.001344	100	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: 23-Mar-10

Run ID :Run Order: **ICPMS204-B_100315A: 66** SampType: **Sample Matrix Spike** Sample ID: **H10030151-006BMS** Method: **E200.8**
Analysis Date: **03/15/10 15:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0502	0.010	0.05	0.0007668	99	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 67** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-006BMSD** Method: **E200.8**
Analysis Date: **03/15/10 16:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0503	0.010	0.05	0.0007668	99	70	130	0.05016	0.2	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**
Analysis Date: **03/15/10 18:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0500	0.010	0.05		100	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 102** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**
Analysis Date: **03/15/10 19:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.00212	0.010									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICPMS204-B_100315A: 103** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**
Analysis Date: **03/15/10 19:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.0240	0.010	0.02		120	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *23-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**

Analysis Date: **03/15/10 12:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.02	0.10	2		**101**	95	105				
Iron	3.92	0.030	4		**98**	95	105				
Magnesium	40.4	1.0	40		**101**	95	105				
Potassium	39.3	1.0	40		**98**	95	105				
Sodium	41.9	1.0	40		**105**	95	105				
Tellurium	2.01	0.10	2		**100**	95	105				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 7** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**

Analysis Date: **03/15/10 13:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.45	0.10	2.5		**98**	95	105				
Iron	2.46	0.030	2.5		**99**	95	105				
Magnesium	24.0	1.0	25		**96**	95	105				
Potassium	25.1	1.0	25		**100**	95	105				
Sodium	25.5	1.0	25		**102**	95	105				
Tellurium	2.51	0.10	2.5		**100**	95	105				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 10** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/15/10 13:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0222	0.10				0	0				
Iron	180	0.030	200		**90**	80	120				
Magnesium	537	1.0	500		**107**	80	120				
Potassium	0.0214	1.0				0	0				
Sodium	0.0434	1.0				0	0				
Tellurium	0.0513	0.10				0	0				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

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Date: *23-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 11** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 13:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.07	0.10	1		107	80	120				
Iron	192	0.030	200		96	80	120				
Magnesium	551	1.0	500		110	80	120				
Potassium	20.5	1.0	20		103	80	120				
Sodium	20.4	1.0	20		102	80	120				
Tellurium	1.12	0.10	1		112	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 14** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/15/10 13:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 15** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/15/10 13:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.498	0.10	0.5		100	85	115				
Iron	1.03	0.030	1		103	85	115				
Magnesium	10.2	1.0	10		102	85	115				
Potassium	10.1	1.0	10		101	85	115				
Sodium	10.0	1.0	10		100	85	115				
Tellurium	0.486	0.10	0.5		97	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *23-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 16** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**

Analysis Date: **03/15/10 13:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.976	0.010	1		**98**	90	110				
Iron	1.97	0.030	2		**98**	90	110				
Magnesium	20.1	1.0	20		**101**	90	110				
Potassium	19.5	1.0	20		**98**	90	110				
Sodium	20.1	1.0	20		**100**	90	110				
Tellurium	0.998	0.013	1		**100**	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 36** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/15/10 14:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.48	0.10	2.5		**99**	90	110				
Iron	2.43	0.030	2.5		**97**	90	110				
Magnesium	23.9	1.0	25		**96**	90	110				
Potassium	24.7	1.0	25		**99**	90	110				
Sodium	26.5	1.0	25		**106**	90	110				
Tellurium	2.57	0.10	2.5		**103**	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B**

Run ID :Run Order: **ICP1-HE_100315A: 44** SampType: **Sample Matrix Spike** Sample ID: **H10030151-005BMS2** Method: **E200.7**

Analysis Date: **03/15/10 15:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.930	0.010	1		**93**	70	130				
Iron	1.92	0.030	2	0.0043	**96**	70	130				
Magnesium	25.5	1.0	20	6.36	**96**	70	130				
Potassium	22.7	1.0	20	2.434	**101**	70	130				
Sodium	34.0	1.0	20	13.25	**104**	70	130				
Tellurium	0.838	0.025	1		**84**	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

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Run ID :Run Order: **ICP1-HE_100315A: 45** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-005BMSD2** Method: **E200.7**

Analysis Date: **03/15/10 15:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.998	0.010	1		**100**	70	130	0.93	**7**	20	
Iron	2.00	0.030	2	0.0043	**100**	70	130	1.92	**4.3**	20	
Magnesium	26.3	1.0	20	6.36	**100**	70	130	25.5	**3.2**	20	
Potassium	22.7	1.0	20	2.434	**101**	70	130	22.7	**0.1**	20	
Sodium	35.4	1.0	20	13.25	**111**	70	130	34.02	**3.9**	20	
Tellurium	0.994	0.025	1		**99**	70	130	0.8378	**17**	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 48** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/15/10 15:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.57	0.10	2.5		**103**	90	110				
Iron	2.52	0.030	2.5		**101**	90	110				
Magnesium	24.9	1.0	25		**99**	90	110				
Potassium	24.1	1.0	25		**96**	90	110				
Sodium	26.1	1.0	25		**104**	90	110				
Tellurium	2.62	0.10	2.5		**105**	90	110				

Associated samples: **H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 53** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/15/10 15:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030151
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Run ID :Run Order: **ICP1-HE_100315A: 54** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 15:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.491	0.10	0.5		98	85	115				
Iron	0.978	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.4	1.0	10		104	85	115				
Sodium	10.5	1.0	10		105	85	115				
Tellurium	0.497	0.10	0.5		99	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 55** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**
Analysis Date: **03/15/10 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.942	0.010	1		94	90	110				
Iron	1.86	0.030	2		93	90	110				
Magnesium	18.6	1.0	20		93	90	110				
Potassium	20.1	1.0	20		101	90	110				
Sodium	21.1	1.0	20		105	90	110				
Tellurium	0.980	0.013	1		98	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 63** SampType: **Sample Matrix Spike** Sample ID: **H10030163-003BMS2** Method: **E200.7**
Analysis Date: **03/15/10 16:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130				
Iron	2.00	0.030	2		100	70	130				
Magnesium	19.5	1.0	20		98	70	130				
Potassium	20.4	1.0	20		102	70	130				
Sodium	20.9	1.0	20		104	70	130				
Tellurium	0.900	0.025	1		90	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Run ID :Run Order: **ICP1-HE_100315A: 64** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-003BMSD2** Method: **E200.7**

Analysis Date: **03/15/10 16:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130	0.9832	0	20	
Iron	2.03	0.030	2		101	70	130	2.002	1.4	20	
Magnesium	20.2	1.0	20		101	70	130	19.52	3.3	20	
Potassium	20.4	1.0	20		102	70	130	20.36	0.3	20	
Sodium	20.4	1.0	20		102	70	130	20.86	2	20	
Tellurium	1.01	0.025	1		101	70	130	0.8996	12	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 69** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/15/10 16:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0273	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	510	1.0	500		102	80	120				
Potassium	0.0232	1.0				0	0				
Sodium	0.0495	1.0				0	0				
Tellurium	0.0440	0.10				0	0				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 70** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 16:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.08	0.10	1		108	80	120				
Iron	197	0.030	200		98	80	120				
Magnesium	568	1.0	500		114	80	120				
Potassium	20.9	1.0	20		104	80	120				
Sodium	21.0	1.0	20		105	80	120				
Tellurium	1.01	0.10	1		101	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Run ID :Run Order: **ICP1-HE_100315A: 73** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/15/10 16:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 74** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/15/10 16:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.490	0.10	0.5		**98**	85	115				
Iron	1.00	0.030	1		**100**	85	115				
Magnesium	9.97	1.0	10		**100**	85	115				
Potassium	10.1	1.0	10		**101**	85	115				
Sodium	10.1	1.0	10		**101**	85	115				
Tellurium	0.466	0.10	0.5		**93**	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100315A: 184** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/15/10 22:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0181	0.10				0	0				
Iron	182	0.030	200		**91**	80	120				
Magnesium	533	1.0	500		**107**	80	120				
Potassium	0.0182	1.0				0	0				
Sodium	0.0514	1.0				0	0				
Tellurium	0.0532	0.10				0	0				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Run ID :Run Order: **ICP1-HE_100315A: 185** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 22:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.02	0.10	1		**102**	80	120				
Iron	188	0.030	200		**94**	80	120				
Magnesium	516	1.0	500		**103**	80	120				
Potassium	20.6	1.0	20		**103**	80	120				
Sodium	22.3	1.0	20		**111**	80	120				
Tellurium	1.02	0.10	1		**102**	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Date: *23-Mar-10*

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Run ID :Run Order: **IC101-H_100315A: 11** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV031510-12** Method: **E300.0**

Analysis Date: **03/15/10 12:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	12	1.0	12.5		93	90	110				
Sulfate	48	1.0	50		97	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 12** SampType: **Method Blank** Sample ID: **ICB031510-13** Method: **E300.0**

Analysis Date: **03/15/10 12:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.05									
Sulfate	ND	0.1									

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 13** SampType: **Laboratory Fortified Blank** Sample ID: **LFB031510-14** Method: **E300.0**

Analysis Date: **03/15/10 13:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		94	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 29** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-30** Method: **E300.0**

Analysis Date: **03/15/10 17:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		95	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A**

Run ID :Run Order: **IC101-H_100315A: 39** SampType: **Sample Matrix Spike** Sample ID: **H10030151-003AMS** Method: **E300.0**

Analysis Date: **03/15/10 20:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	27	1.0	25	3.389	95	90	110				
Sulfate	90	1.0	50	38.3	103	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
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A - Analyte concentration greater than three times the spike amount

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Run ID :Run Order: **IC101-H_100315A: 39** SampType: **Sample Matrix Spike** Sample ID: **H10030151-003AMS** Method: **E300.0**
Analysis Date: **03/15/10 20:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 40** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-003AMSD** Method: **E300.0**
Analysis Date: **03/15/10 20:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	27	1.0	25	3.389	96	90	110	27.25	0.1	20	
Sulfate	90	1.0	50	38.3	102	90	110	89.82	0.3	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 45** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-46** Method: **E300.0**
Analysis Date: **03/15/10 21:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23	1.0	25		94	90	110				
Sulfate	47	1.0	50		94	90	110				

Associated samples: **H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 49** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009AMS** Method: **E300.0**
Analysis Date: **03/15/10 23:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110				
Sulfate	140	1.0	50	83.34	106	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **IC101-H_100315A: 50** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-009AMSD** Method: **E300.0**
Analysis Date: **03/15/10 23:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110	39	0.3	20	
Sulfate	140	1.0	50	83.34	105	90	110	136.3	0.3	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

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Run ID :Run Order: **ICP1-HE_100316B: 4** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/16/10 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	40.6	1.0	40		101	95	105				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 6** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/16/10 11:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25		101	95	105				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 12:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	547	1.0	500		109	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	548	1.0	500		110	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 64** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 14:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	538	1.0	500		108	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *23-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 65** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/16/10 15:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	557	1.0	500		111	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 68** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**

Analysis Date: **03/16/10 15:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.1									

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 69** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**

Analysis Date: **03/16/10 15:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.87	1.0	10		99	85	115				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 70** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**

Analysis Date: **03/16/10 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	21.2	1.0	20		106	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 76** SampType: **Sample Matrix Spike** Sample ID: **H10030084-005BMS2** Method: **E200.7**

Analysis Date: **03/16/10 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.0	1.0	20	0.2049	99	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust

ANALYTICAL QC SUMMARY REPORT

Date: *23-Mar-10*

Work Order: H10030151

Project: EH-March 2010 G/W Sampling

BatchID: R60849

Run ID :Run Order: **ICP1-HE_100316B: 77** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030084-005BMSD2** Method: **E200.7**

Analysis Date: **03/16/10 15:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.7	1.0	20	0.2049	103	70	130	19.96	3.7	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 78** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/16/10 16:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.8	1.0	25		107	90	110				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B**

Run ID :Run Order: **ICP1-HE_100316B: 90** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**

Analysis Date: **03/16/10 16:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.1	1.0	25		104	90	110				

Associated samples: **H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 92** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009BMS2** Method: **E200.7**

Analysis Date: **03/16/10 16:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	73.8	1.0	20	53.2	103	70	130				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 93** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-009BMSD2** Method: **E200.7**

Analysis Date: **03/16/10 16:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	70.3	1.0	20	53.2	85	70	130	73.78	4.8	20	

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *23-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 187** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**

Analysis Date: **03/16/10 21:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	485	1.0	500		97	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Run ID :Run Order: **ICP1-HE_100316B: 188** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/16/10 21:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	517	1.0	500		103	80	120				

Associated samples: **H10030151-001B; H10030151-002B; H10030151-003B; H10030151-004B; H10030151-005B; H10030151-006B; H10030151-007B; H10030151-008B; H10030151-009B; H10030151-010B; H10030151-011B; H10030151-012B**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
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Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *23-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 3** SampType: **Method Blank** Sample ID: **MBLK** Method: **A2320 B**
Analysis Date: **03/16/10 17:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	0.9									

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 5** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**
Analysis Date: **03/16/10 17:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600		96	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 12** SampType: **Sample Matrix Spike** Sample ID: **H10030151-001AMS** Method: **A2320 B**
Analysis Date: **03/16/10 18:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	780	4.0	600	149.4	105	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 13** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-001AMSD** Method: **A2320 B**
Analysis Date: **03/16/10 18:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	760	4.0	600	149.4	102	90	110	778.4	2.6	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 17** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2320 B**
Analysis Date: **03/16/10 18:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	74	4.0						74.44	0.5	20	
Bicarbonate as HCO3	90	4.0						90.82	0.5	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

Date: *23-Mar-10*

Work Order: H10030151

Project: EH-March 2010 G/W Sampling

BatchID: R60860

Run ID :Run Order: **MAN-TECH_100316A: 44** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**

Analysis Date: **03/16/10 19:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	570	4.0	600		96	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 51** SampType: **Sample Duplicate** Sample ID: **H10030151-011ADUP** Method: **A2320 B**

Analysis Date: **03/16/10 19:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	150	4.0						145.8	0.8	20	
Bicarbonate as HCO3	180	4.0						177.9	0.8	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 57** SampType: **Sample Matrix Spike** Sample ID: **H10030151-012AMS** Method: **A2320 B**

Analysis Date: **03/16/10 20:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	740	4.0	600	144.1	99	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 58** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-012AMSD** Method: **A2320 B**

Analysis Date: **03/16/10 20:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	730	4.0	600	144.1	98	90	110	739.6	0.7	20	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: 23-Mar-10

Run ID :Run Order: **MAN-TECH_100316A: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A2510 B**
Analysis Date: **03/16/10 17:21** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	724	1.0	717.5		101	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 4** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2510 B**
Analysis Date: **03/16/10 17:31** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	1430	1.0	1412		101	90	110				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 18** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2510 B**
Analysis Date: **03/16/10 18:23** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	258	1.0						256	0.8	10	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 41** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A2510 B**
Analysis Date: **03/16/10 19:11** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	720	1.0	718		100	90	110				

Associated samples:

Run ID :Run Order: **MAN-TECH_100316A: 52** SampType: **Sample Duplicate** Sample ID: **H10030151-011ADUP** Method: **A2510 B**
Analysis Date: **03/16/10 19:49** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	467	1.0						466.8	0	10	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
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Client: Montana Environmental Custodial Trust
Work Order: H10030151
Project: EH-March 2010 G/W Sampling

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *23-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 2** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A4500-H B**
Analysis Date: **03/16/10 17:24** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.96	0.10	7		99	99	101				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 19** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A4500-H B**
Analysis Date: **03/16/10 18:23** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.81	0.10						7.81	0	2	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 42** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A4500-H B**
Analysis Date: **03/16/10 19:14** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.00	0.10	7		100	99	101				

Associated samples: **H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 53** SampType: **Sample Duplicate** Sample ID: **H10030151-011ADUP** Method: **A4500-H B**
Analysis Date: **03/16/10 19:49** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.00	0.10						8.01	0.1	2	

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Run ID :Run Order: **MAN-TECH_100316A: 75** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A4500-H B**
Analysis Date: **03/16/10 20:59** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.98	0.10	7		100	99	101				

Associated samples: **H10030151-001A; H10030151-002A; H10030151-003A; H10030151-004A; H10030151-005A; H10030151-006A; H10030151-007A; H10030151-008A; H10030151-009A; H10030151-010A; H10030151-011A; H10030151-012A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Workorder Receipt Checklist

Montana Environmental Custodial Trust

H10030151

Login completed by: Tracy L. Lorash
Date Received: 3/11/2010
Reviewed by: BL2000\wjohnson
Received by: TLL
Reviewed Date: 3/15/2010
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	0.9°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	Not Applicable ☐

Contact and Corrective Action Comments:

No collection time on bottles 105 & 106. Collection time on 108 is 13:30 - COC states 14:30, per Rick Lane, times on COC are correct. COC shows no selenium spec. analysis for samples 105-107 - we don't have sample bottles for 104-106. Per Rick, COC is incorrect, go by the sample bottles. All selenium spec. samples preserved w/ 2ml. HNO3 in lab. Per phone call from Bob Anderson, selenium spec. for 103 & 108 are rush - need results by Tues. tl

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ANALYTICAL SUMMARY REPORT

March 30, 2010

Montana Environmental Custodial Trust
PO Box 1230
E. Helena, MT 59635-1230

Workorder No.: H10030163 Quote ID: H493 - All Water Sampling combined

Project Name: Not Indicated

Energy Laboratories Inc received the following 6 samples for Montana Environmental Custodial Trust on 3/12/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10030163-001	EH-1003-112	03/12/10 9:50	03/12/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Selenium By CVAA, Dissolved Selenium-IV, Dissolved Selenium-VI, Dissolved Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030163-002	EH-1003-113	03/12/10 10:35	03/12/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Arsenic Speciation Dissolved Selenium By CVAA, Dissolved Selenium-IV, Dissolved Selenium-VI, Dissolved Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10030163-003	EH-1003-114	03/12/10 10:15	03/12/10	Aqueous	Same As Above
H10030163-004	EH-1003-115	03/12/10 13:30	03/12/10	Aqueous	Same As Above
H10030163-005	EH-1003-116	03/12/10 10:50	03/12/10	Aqueous	Same As Above
H10030163-006	EH-1003-117	03/12/10 13:50	03/12/10	Aqueous	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)

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ANALYTICAL SUMMARY REPORT

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 Blackburn
Inorganic Supervisor

Digitally signed by
Amanda B. Blackburn
Date: 2010.03.30 14:48:37 -06:00

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-112
Lab ID: H10030163-001
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 09:50
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.1	s.u.		0.1		A4500-H B	03/16/10 20:45 / hm		MAN-TECH_100316A	70	R60860
Conductivity	536	umhos/cm		1		A2510 B	03/16/10 20:45 / hm		MAN-TECH_100316A	69	R60860
Solids, Total Suspended TSS @ 105 C	25	mg/L		10		A2540 D	03/15/10 14:38 / hm	03/15/10 12:26 -124 (14410200)	_100315B	22	8224
Solids, Total Dissolved TDS @ 180 C	358	mg/L		10		A2540 C	03/15/10 14:51 / hm	03/15/10 11:36 -124 (14410200)	_100315A	23	8223
INORGANICS											
Alkalinity, Total as CaCO3	170	mg/L		1		A2320 B	03/16/10 20:45 / hm		MAN-TECH_100316A	68	R60860
Bicarbonate as HCO3	210	mg/L		1		A2320 B	03/16/10 20:45 / hm		MAN-TECH_100316A	68	R60860
Chloride	12	mg/L		1		E300.0	03/16/10 00:59 / hm		IC101-H_100315A	56	R60825
Sulfate	78	mg/L		1		E300.0	03/16/10 00:59 / hm		IC101-H_100315A	56	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Antimony	ND	mg/L		0.003		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Arsenic	0.008	mg/L		0.002		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Calcium	44	mg/L		1		E200.7	03/16/10 17:00 / sld		ICP1-HE_100316B	97	R60849
Chromium	0.001	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Copper	ND	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Magnesium	15	mg/L		1		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Potassium	6	mg/L		1		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Selenium	0.002	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-112
Lab ID: H10030163-001
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 09:50
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	44	mg/L		1		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:46 / sld		ICP1-HE_100315A	58	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Vanadium	ND	mg/L		0.01		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:05 / dck		ICPMS204-B_100315A	79	R60797
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:37 / eau		SA MILLENNIUM_100316C	7	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:37 / eau		SA MILLENNIUM_100316D	7	R60844

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-113
Lab ID: H10030163-002
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:35
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.9	s.u.		0.1		A4500-H B	03/16/10 21:15 / hm		MAN-TECH_100316A	79	R60860
Conductivity	320	umhos/cm		1		A2510 B	03/16/10 21:15 / hm		MAN-TECH_100316A	78	R60860
Solids, Total Suspended TSS @ 105 C	717	mg/L		10		A2540 D	03/15/10 14:38 / hm	03/15/10 12:26	-124 (14410200)_100315B	23	8224
Solids, Total Dissolved TDS @ 180 C	239	mg/L		10		A2540 C	03/15/10 14:51 / hm	03/15/10 11:36	-124 (14410200)_100315A	24	8223
INORGANICS											
Alkalinity, Total as CaCO3	95	mg/L		1		A2320 B	03/16/10 21:15 / hm		MAN-TECH_100316A	77	R60860
Bicarbonate as HCO3	120	mg/L		1		A2320 B	03/16/10 21:15 / hm		MAN-TECH_100316A	77	R60860
Chloride	4	mg/L		1		E300.0	03/16/10 01:16 / hm		IC101-H_100315A	57	R60825
Sulfate	52	mg/L		1		E300.0	03/16/10 01:16 / hm		IC101-H_100315A	57	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Antimony	ND	mg/L		0.003		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Arsenic	0.027	mg/L		0.002		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Calcium	27	mg/L		1		E200.7	03/16/10 17:03 / sld		ICP1-HE_100316B	98	R60849
Chromium	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Copper	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Iron	0.07	mg/L		0.02		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Magnesium	9	mg/L		1		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Potassium	6	mg/L		1		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Selenium	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-113
Lab ID: H10030163-002
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:35
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	22	mg/L		1		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:49 / sld		ICP1-HE_100315A	59	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Vanadium	ND	mg/L		0.01		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:10 / dck		ICPMS204-B_100315A	80	R60797
METALS - SPECIATED											
Arsenic-III	ND	ug/L		5.0		E1632AM	03/18/10 14:53 / eau		SA MILLENNIUM_100318E	14	R60920
Arsenic-V	29.0	ug/L		5.0		E1632AM	03/18/10 14:53 / eau		SA MILLENNIUM_100318E	14	R60920
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:39 / eau		SA MILLENNIUM_100316C	8	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:39 / eau		SA MILLENNIUM_100316D	8	R60844

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-114
Lab ID: H10030163-003
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:15
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	03/16/10 21:26 / hm		MAN-TECH_100316A	85	R60860
Conductivity	ND	umhos/cm		1		A2510 B	03/16/10 21:26 / hm		MAN-TECH_100316A	84	R60860
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/15/10 14:39 / hm	03/15/10 12:26 -124 (14410200)	_100315B	24	8224
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	03/15/10 14:51 / hm	03/15/10 11:36 -124 (14410200)	_100315A	25	8223
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		1		A2320 B	03/16/10 21:26 / hm		MAN-TECH_100316A	83	R60860
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	03/16/10 21:26 / hm		MAN-TECH_100316A	83	R60860
Chloride	ND	mg/L		1		E300.0	03/16/10 01:32 / hm		IC101-H_100315A	58	R60825
Sulfate	ND	mg/L		1		E300.0	03/16/10 01:32 / hm		IC101-H_100315A	58	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Antimony	ND	mg/L		0.003		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Arsenic	ND	mg/L		0.002		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Calcium	ND	mg/L		1		E200.7	03/16/10 17:22 / sld		ICP1-HE_100316B	104	R60849
Chromium	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Copper	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Magnesium	ND	mg/L		1		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Potassium	ND	mg/L		1		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Selenium	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-114
Lab ID: H10030163-003
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:15
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 15:58 / sld		ICP1-HE_100315A	62	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Vanadium	ND	mg/L		0.01		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:15 / dck		ICPMS204-B_100315A	81	R60797
METALS - SPECIATED											
Arsenic-III	ND	ug/L		5.0		E1632AM	03/18/10 15:08 / eau		SA MILLENNIUM_100318E	17	R60920
Arsenic-V	ND	ug/L		5.0		E1632AM	03/18/10 15:08 / eau		SA MILLENNIUM_100318E	17	R60920
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:40 / eau		SA MILLENNIUM_100316C	9	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:40 / eau		SA MILLENNIUM_100316D	9	R60844

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-115
Lab ID: H10030163-004
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 13:30
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.1	s.u.		0.1		A4500-H B	03/16/10 21:33 / hm		MAN-TECH_100316A : 88		R60860
Conductivity	359	umhos/cm		1		A2510 B	03/16/10 21:33 / hm		MAN-TECH_100316A : 87		R60860
Solids, Total Suspended TSS @ 105 C	430	mg/L		10		A2540 D	03/17/10 16:04 / hm	03/17/10 15:34	J-124 (14410200)_100317B : 3		8250
Solids, Total Dissolved TDS @ 180 C	236	mg/L		10		A2540 C	03/17/10 16:33 / hm	03/17/10 15:32	-124 (14410200)_100317A : 34		8249
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		1		A2320 B	03/16/10 21:33 / hm		MAN-TECH_100316A : 86		R60860
Bicarbonate as HCO3	160	mg/L		1		A2320 B	03/16/10 21:33 / hm		MAN-TECH_100316A : 86		R60860
Chloride	4	mg/L		1		E300.0	03/16/10 02:22 / hm		IC101-H_100315A : 61		R60825
Sulfate	38	mg/L		1		E300.0	03/16/10 02:22 / hm		IC101-H_100315A : 61		R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Antimony	0.005	mg/L		0.003		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Arsenic	0.045	mg/L		0.002		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Calcium	36	mg/L		1		E200.7	03/16/10 17:25 / sld		ICP1-HE_100316B : 105		R60849
Chromium	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Copper	0.001	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 16:08 / sld		ICP1-HE_100315A : 65		R60816
Iron	0.06	mg/L		0.02		E200.7	03/15/10 16:08 / sld		ICP1-HE_100315A : 65		R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Magnesium	12	mg/L		1		E200.7	03/15/10 16:08 / sld		ICP1-HE_100315A : 65		R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Potassium	4	mg/L		1		E200.7	03/15/10 16:08 / sld		ICP1-HE_100315A : 65		R60816
Selenium	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A : 82		R60797

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-115
Lab ID: H10030163-004
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 13:30
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	18	mg/L		1		E200.7	03/15/10 16:08 / sid		ICP1-HE_100315A	65	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 16:08 / sid		ICP1-HE_100315A	65	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A	82	R60797
Vanadium	0.03	mg/L		0.01		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A	82	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:20 / dck		ICPMS204-B_100315A	82	R60797
METALS - SPECIATED											
Arsenic-III	ND	ug/L		5.0		E1632AM	03/18/10 15:13 / eau		;A MILLENNIUM_100318E	18	R60920
Arsenic-V	41.9	ug/L		5.0		E1632AM	03/18/10 15:13 / eau		;A MILLENNIUM_100318E	18	R60920
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:42 / eau		·A MILLENNIUM_100316C	10	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:42 / eau		·A MILLENNIUM_100316D	10	R60844

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-116
Lab ID: H10030163-005
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:50
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	03/16/10 21:40 / hm		MAN-TECH_100316A	91	R60860
Conductivity	322	umhos/cm		1		A2510 B	03/16/10 21:40 / hm		MAN-TECH_100316A	90	R60860
Solids, Total Suspended TSS @ 105 C	660	mg/L		10		A2540 D	03/17/10 16:04 / hm	03/17/10 15:34	J-124 (14410200)_100317B	5	8250
Solids, Total Dissolved TDS @ 180 C	228	mg/L		10		A2540 C	03/17/10 16:34 / hm	03/17/10 15:31	-124 (14410200)_100317A	36	8249
INORGANICS											
Alkalinity, Total as CaCO3	96	mg/L		1		A2320 B	03/16/10 21:40 / hm		MAN-TECH_100316A	89	R60860
Bicarbonate as HCO3	120	mg/L		1		A2320 B	03/16/10 21:40 / hm		MAN-TECH_100316A	89	R60860
Chloride	4	mg/L		1		E300.0	03/16/10 02:38 / hm		IC101-H_100315A	62	R60825
Sulfate	52	mg/L		1		E300.0	03/16/10 02:38 / hm		IC101-H_100315A	62	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Antimony	ND	mg/L		0.003		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Arsenic	0.027	mg/L		0.002		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Calcium	27	mg/L		1		E200.7	03/16/10 17:28 / sld		ICP1-HE_100316B	106	R60849
Chromium	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Copper	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 16:11 / sld		ICP1-HE_100315A	66	R60816
Iron	0.03	mg/L		0.02		E200.7	03/15/10 16:11 / sld		ICP1-HE_100315A	66	R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Magnesium	9	mg/L		1		E200.7	03/15/10 16:11 / sld		ICP1-HE_100315A	66	R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Potassium	6	mg/L		1		E200.7	03/15/10 16:11 / sld		ICP1-HE_100315A	66	R60816
Selenium	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-116
Lab ID: H10030163-005
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 10:50
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	21	mg/L		1		E200.7	03/15/10 16:11 / sid		ICP1-HE_100315A	66	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 16:11 / sid		ICP1-HE_100315A	66	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Vanadium	ND	mg/L		0.01		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:41 / dck		ICPMS204-B_100315A	86	R60797
METALS - SPECIATED											
Arsenic-III	ND	ug/L		5.0		E1632AM	03/18/10 15:19 / eau		A MILLENNIUM_100318E	19	R60920
Arsenic-V	25.6	ug/L		5.0		E1632AM	03/18/10 15:19 / eau		A MILLENNIUM_100318E	19	R60920
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:45 / eau		A MILLENNIUM_100316C	12	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:45 / eau		A MILLENNIUM_100316D	12	R60844

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-117
Lab ID: H10030163-006
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 13:50
DateReceived: 03/12/10
Report Date: 03/30/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	03/16/10 21:45 / hm		MAN-TECH_100316A	94	R60860
Conductivity	ND	umhos/cm		1		A2510 B	03/16/10 21:45 / hm		MAN-TECH_100316A	93	R60860
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	03/17/10 16:05 / hm	03/17/10 15:34	J-124 (14410200)_100317B	6	8250
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	03/17/10 16:34 / hm	03/17/10 15:31	-124 (14410200)_100317A	38	8249
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		1		A2320 B	03/16/10 21:45 / hm		MAN-TECH_100316A	92	R60860
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	03/16/10 21:45 / hm		MAN-TECH_100316A	92	R60860
Chloride	ND	mg/L		1		E300.0	03/16/10 03:27 / hm		IC101-H_100315A	65	R60825
Sulfate	ND	mg/L		1		E300.0	03/16/10 03:27 / hm		IC101-H_100315A	65	R60825
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Antimony	ND	mg/L		0.003		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Arsenic	ND	mg/L		0.002		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Barium	ND	mg/L		0.1		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Beryllium	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Cadmium	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Calcium	ND	mg/L		1		E200.7	03/16/10 17:31 / sld		ICP1-HE_100316B	107	R60849
Chromium	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Cobalt	ND	mg/L		0.01		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Copper	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Gold	ND	mg/L		0.01		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Iron	ND	mg/L		0.02		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Lead	ND	mg/L		0.005		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Magnesium	ND	mg/L		1		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Manganese	ND	mg/L		0.01		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Mercury	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Nickel	ND	mg/L		0.01		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Potassium	ND	mg/L		1		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Selenium	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Silver	ND	mg/L		0.005		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EH-1003-117
Lab ID: H10030163-006
Matrix: Aqueous

Project: Not Indicated
Collection Date: 03/12/10 13:50
Report Date: 03/30/10
DateReceived: 03/12/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Tellurium	ND	mg/L		0.1		E200.7	03/15/10 16:14 / sld		ICP1-HE_100315A	67	R60816
Thallium	ND	mg/L		0.001		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Vanadium	ND	mg/L		0.01		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
Zinc	ND	mg/L		0.01		E200.8	03/15/10 17:46 / dck		ICPMS204-B_100315A	87	R60797
METALS - SPECIATED											
Arsenic-III	ND	ug/L		5.0		E1632AM	03/18/10 15:24 / eau		A MILLENNIUM_100318E	20	R60920
Arsenic-V	ND	ug/L		5.0		E1632AM	03/18/10 15:24 / eau		A MILLENNIUM_100318E	20	R60920
METALS, SPECIATED											
Selenium-IV	ND	mg/L		0.005		A3114 B	03/16/10 14:49 / eau		A MILLENNIUM_100316C	15	R60842
Selenium-VI	ND	mg/L		0.005		A3114 B	03/16/10 14:49 / eau		A MILLENNIUM_100316D	15	R60844

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8223

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 1** SampType: **Method Blank** Sample ID: **MB-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	7	1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2010	10	2000	7	100	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030151-007AMS** Method: **A2540 C**
Analysis Date: **03/15/10 14:48** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2150	10	2000	174	99	80	120				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 15** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 C**
Analysis Date: **03/15/10 14:48** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	918	10						922	0.4	5	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8224

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 1** SampType: **Method Blank** Sample ID: **MB-8224** Method: **A2540 D**
Analysis Date: **03/15/10 14:30** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8224** Method: **A2540 D**
Analysis Date: **03/15/10 14:31** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1970	10	2000		99	70	130				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 5** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2540 D**
Analysis Date: **03/15/10 14:32** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	36.0	10						34	5.7	5	R

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 12** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 D**
Analysis Date: **03/15/10 14:34** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	122	10						120	1.7	5	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8249

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 27** SampType: **Method Blank** Sample ID: **MB-8249** Method: **A2540 C**
Analysis Date: **03/17/10 16:31** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	ND	1									

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 35** SampType: **Sample Duplicate** Sample ID: **H10030163-004ADUP** Method: **A2540 C**
Analysis Date: **03/17/10 16:33** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	242	10						236	2.5	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 37** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005AMS** Method: **A2540 C**
Analysis Date: **03/17/10 16:34** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2180	10	2000	228	98	80	120				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 39** SampType: **Sample Matrix Spike** Sample ID: **H10030163-006AMS** Method: **A2540 C**
Analysis Date: **03/17/10 16:35** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	1970	10	2000	2	98	80	120				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 46** SampType: **Sample Duplicate** Sample ID: **H10030170-006ADUP** Method: **A2540 C**
Analysis Date: **03/17/10 16:36** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	3180	10						3193	0.4	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8250

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 1** SampType: **Method Blank** Sample ID: **MB-8250** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8250** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1890	10	2000		94	70	130				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 4** SampType: **Sample Duplicate** Sample ID: **H10030163-004ADUP** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	446	10						430	3.7	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 8** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**
Analysis Date: **03/15/10 10:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.254	0.10	0.25		102	90	110				
Antimony	0.0494	0.050	0.05		99	90	110				
Arsenic	0.0493	0.0050	0.05		99	90	110				
Barium	0.0500	0.10	0.05		100	90	110				
Beryllium	0.0251	0.0010	0.025		101	90	110				
Cadmium	0.0258	0.0010	0.025		103	90	110				
Chromium	0.0497	0.010	0.05		99	90	110				
Cobalt	0.0504	0.010	0.05		101	90	110				
Copper	0.0508	0.010	0.05		102	90	110				
Lead	0.0495	0.010	0.05		99	90	110				
Manganese	0.249	0.010	0.25		100	90	110				
Mercury	0.00192	0.0010	0.002		96	90	110				
Nickel	0.0507	0.010	0.05		101	90	110				
Selenium	0.0503	0.0050	0.05		101	90	110				
Silver	0.0250	0.0050	0.025		100	90	110				
Thallium	0.0494	0.10	0.05		99	90	110				
Vanadium	0.0490	0.10	0.05		98	90	110				
Zinc	0.0507	0.010	0.05		101	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**
Analysis Date: **03/15/10 10:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.5	0.10	40		96	70	130				
Antimony	0.000336	0.050									
Arsenic	0.000133	0.0050									
Barium	9.30E-05	0.10									
Beryllium	7.00E-06	0.0010									
Cadmium	0.000460	0.0010									
Chromium	0.000795	0.010									
Cobalt	0.00154	0.010									
Copper	0.00214	0.010									
Lead	6.90E-05	0.010									

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**
Analysis Date: **03/15/10 10:45** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.00215	0.010									
Mercury	2.70E-05	0.0010									
Nickel	0.00196	0.010									
Selenium	0.000228	0.0050									
Silver	0.000181	0.0050									
Thallium	2.10E-05	0.10									
Vanadium	0.000115	0.10									
Zinc	0.00150	0.010									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**
Analysis Date: **03/15/10 10:50** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	39.2	0.10	40		98	70	130				
Antimony	0.000174	0.050				0	0				
Arsenic	0.0103	0.0050	0.01		103	70	130				
Barium	9.70E-05	0.10				0	0				
Beryllium	4.00E-06	0.0010				0	0				
Cadmium	0.0101	0.0010	0.01		101	70	130				
Chromium	0.0213	0.010	0.02		107	70	130				
Cobalt	0.0223	0.010	0.02		112	70	130				
Copper	0.0224	0.010	0.02		112	70	130				
Lead	6.10E-05	0.010				0	0				
Manganese	0.0225	0.010	0.02		112	70	130				
Mercury	1.80E-05	0.0010				0	0				
Nickel	0.0228	0.010	0.02		114	70	130				
Selenium	0.00980	0.0050	0.01		98	70	130				
Silver	0.0197	0.0050	0.02		98	70	130				
Thallium	1.30E-05	0.10				0	0				
Vanadium	0.0208	0.10	0.02		104	70	130				
Zinc	0.0111	0.010	0.01		111	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 27** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**
Analysis Date: **03/15/10 12:36** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	7E-05	7E-05									
Antimony	ND	3E-05									
Arsenic	ND	5E-05									
Barium	ND	3E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	0.0001	5E-05									
Cobalt	ND	1E-05									
Copper	0.0001	7E-05									
Lead	8E-06	5E-06									
Manganese	3E-05	2E-05									
Mercury	1.0E-05	5E-06									
Nickel	0.001	7E-05									
Selenium	0.0002	0.0002									
Silver	5E-05	2E-05									
Thallium	4E-05	1E-05									
Vanadium	ND	6E-05									
Zinc	0.001	9E-05									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**
Analysis Date: **03/15/10 12:41** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0507	0.10	0.05	0.0000705	101	85	115				
Antimony	0.0500	0.050	0.05		100	85	115				
Arsenic	0.0501	0.0050	0.05		100	85	115				
Barium	0.0507	0.10	0.05		101	85	115				
Beryllium	0.0495	0.0010	0.05		99	85	115				
Cadmium	0.0495	0.0010	0.05		99	85	115				
Chromium	0.0513	0.010	0.05	0.0001441	102	85	115				
Cobalt	0.0506	0.010	0.05		101	85	115				
Copper	0.0500	0.010	0.05	0.0001497	100	85	115				
Lead	0.0501	0.010	0.05	0.0000075	100	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
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A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**
Analysis Date: **03/15/10 12:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.0513	0.010	0.05	0.0000315	103	85	115				
Mercury	0.000923	0.0010	0.001	0.0000097	91	85	115				
Nickel	0.0512	0.010	0.05	0.001344	100	85	115				
Selenium	0.0493	0.0050	0.05	0.0001843	98	85	115				
Silver	0.0181	0.0050	0.02	0.0000496	90	85	115				
Thallium	0.0501	0.10	0.05	0.0000391	100	85	115				
Vanadium	0.0512	0.10	0.05		102	85	115				
Zinc	0.0500	0.010	0.05	0.001281	97	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 83** SampType: **Sample Matrix Spike** Sample ID: **H10030163-004BMS** Method: **E200.8**
Analysis Date: **03/15/10 17:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.122	0.10	0.05	0.07799	88	70	130				
Antimony	0.0554	0.0050	0.05	0.004556	102	70	130				
Arsenic	0.0929	0.0050	0.05	0.04454	97	70	130				
Barium	0.0812	0.10	0.05	0.0309	101	70	130				
Beryllium	0.0470	0.0010	0.05		94	70	130				
Cadmium	0.0494	0.0010	0.05	0.0001126	99	70	130				
Chromium	0.0501	0.010	0.05	0.0009564	98	70	130				
Cobalt	0.0512	0.010	0.05	0.002857	97	70	130				
Copper	0.0492	0.010	0.05	0.001042	96	70	130				
Lead	0.0508	0.010	0.05	0.0002188	101	70	130				
Manganese	0.0574	0.010	0.05	0.007422	100	70	130				
Mercury	0.000980	0.0010	0.001	0.000019	96	70	130				
Nickel	0.0506	0.010	0.05	0.00352	94	70	130				
Selenium	0.0519	0.0050	0.05	0.000753	102	70	130				
Silver	0.0179	0.0050	0.02		89	70	130				
Thallium	0.0504	0.0050	0.05	0.0000427	101	70	130				
Vanadium	0.0763	0.10	0.05	0.02628	100	70	130				
Zinc	0.0531	0.010	0.05	0.003582	99	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 84** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-004BMSD** Method: **E200.8**
Analysis Date: **03/15/10 17:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.121	0.10	0.05	0.07799	87	70	130	0.1221	0.7	20	
Antimony	0.0546	0.0050	0.05	0.004556	100	70	130	0.05538	1.4	20	
Arsenic	0.0942	0.0050	0.05	0.04454	99	70	130	0.09291	1.3	20	
Barium	0.0795	0.10	0.05	0.0309	97	70	130	0.08121		20	
Beryllium	0.0459	0.0010	0.05		92	70	130	0.04697	2.3	20	
Cadmium	0.0490	0.0010	0.05	0.0001126	98	70	130	0.04944	0.8	20	
Chromium	0.0510	0.010	0.05	0.0009564	100	70	130	0.05014	1.6	20	
Cobalt	0.0521	0.010	0.05	0.002857	99	70	130	0.05123	1.7	20	
Copper	0.0497	0.010	0.05	0.001042	97	70	130	0.04916	1.1	20	
Lead	0.0506	0.010	0.05	0.0002188	101	70	130	0.05076	0.4	20	
Manganese	0.0585	0.010	0.05	0.007422	102	70	130	0.05739	1.9	20	
Mercury	0.000973	0.0010	0.001	0.000019	95	70	130	0.00098		20	
Nickel	0.0516	0.010	0.05	0.00352	96	70	130	0.05063	1.8	20	
Selenium	0.0519	0.0050	0.05	0.000753	102	70	130	0.05192	0.1	20	
Silver	0.0190	0.0050	0.02		95	70	130	0.0179	6.2	20	
Thallium	0.0503	0.0050	0.05	0.0000427	101	70	130	0.05041	0.2	20	
Vanadium	0.0768	0.10	0.05	0.02628	101	70	130	0.07625		20	
Zinc	0.0534	0.010	0.05	0.003582	100	70	130	0.05313	0.5	20	

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**
Analysis Date: **03/15/10 18:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.249	0.10	0.25		100	90	110				
Antimony	0.0476	0.050	0.05		95	90	110				
Arsenic	0.0496	0.0050	0.05		99	90	110				
Barium	0.0494	0.10	0.05		99	90	110				
Beryllium	0.0249	0.0010	0.025		100	90	110				
Cadmium	0.0257	0.0010	0.025		103	90	110				
Chromium	0.0493	0.010	0.05		99	90	110				
Cobalt	0.0503	0.010	0.05		101	90	110				
Copper	0.0505	0.010	0.05		101	90	110				
Lead	0.0498	0.010	0.05		100	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 18:58** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.250	0.010	0.25		100	90	110				
Mercury	0.00202	0.0010	0.002		101	90	110				
Nickel	0.0500	0.010	0.05		100	90	110				
Selenium	0.0511	0.0050	0.05		102	90	110				
Silver	0.0249	0.0050	0.025		99	90	110				
Thallium	0.0497	0.10	0.05		99	90	110				
Vanadium	0.0488	0.10	0.05		98	90	110				
Zinc	0.0519	0.010	0.05		104	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 102** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/15/10 19:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.3	0.10	40		96	70	130				
Antimony	0.000366	0.050									
Arsenic	0.000115	0.0050									
Barium	0.000129	0.10									
Beryllium	1.10E-05	0.0010									
Cadmium	0.000427	0.0010									
Chromium	0.000681	0.010									
Cobalt	0.00152	0.010									
Copper	0.00205	0.010									
Lead	7.30E-05	0.010									
Manganese	0.00210	0.010									
Mercury	2.10E-05	0.0010									
Nickel	0.00212	0.010									
Selenium	0.000133	0.0050									
Silver	9.70E-05	0.0050									
Thallium	3.60E-05	0.10									
Vanadium	8.40E-05	0.10									
Zinc	0.00145	0.010									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 103** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/15/10 19:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.3	0.10	40		96	70	130				
Antimony	0.000183	0.050				0	0				
Arsenic	0.0103	0.0050	0.01		103	70	130				
Barium	0.000127	0.10				0	0				
Beryllium	9.00E-06	0.0010				0	0				
Cadmium	0.00994	0.0010	0.01		99	70	130				
Chromium	0.0211	0.010	0.02		106	70	130				
Cobalt	0.0222	0.010	0.02		111	70	130				
Copper	0.0218	0.010	0.02		109	70	130				
Lead	6.70E-05	0.010				0	0				
Manganese	0.0221	0.010	0.02		110	70	130				
Mercury	7.00E-06	0.0010				0	0				
Nickel	0.0240	0.010	0.02		120	70	130				
Selenium	0.00997	0.0050	0.01		100	70	130				
Silver	0.0189	0.0050	0.02		95	70	130				
Thallium	2.00E-05	0.10				0	0				
Vanadium	0.0210	0.10	0.02		105	70	130				
Zinc	0.0111	0.010	0.01		111	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/15/10 12:59** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.02	0.10	2		101	95	105				
Iron	3.92	0.030	4		98	95	105				
Magnesium	40.4	1.0	40		101	95	105				
Potassium	39.3	1.0	40		98	95	105				
Sodium	41.9	1.0	40		105	95	105				
Tellurium	2.01	0.10	2		100	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 7** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/15/10 13:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.45	0.10	2.5		98	95	105				
Iron	2.46	0.030	2.5		99	95	105				
Magnesium	24.0	1.0	25		96	95	105				
Potassium	25.1	1.0	25		100	95	105				
Sodium	25.5	1.0	25		102	95	105				
Tellurium	2.51	0.10	2.5		100	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 10** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 13:16** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0222	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	537	1.0	500		107	80	120				
Potassium	0.0214	1.0				0	0				
Sodium	0.0434	1.0				0	0				
Tellurium	0.0513	0.10				0	0				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 11** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/15/10 13:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.07	0.10	1		107	80	120				
Iron	192	0.030	200		96	80	120				
Magnesium	551	1.0	500		110	80	120				
Potassium	20.5	1.0	20		103	80	120				
Sodium	20.4	1.0	20		102	80	120				
Tellurium	1.12	0.10	1		112	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 14** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**
Analysis Date: **03/15/10 13:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 15** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 13:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.498	0.10	0.5		100	85	115				
Iron	1.03	0.030	1		103	85	115				
Magnesium	10.2	1.0	10		102	85	115				
Potassium	10.1	1.0	10		101	85	115				
Sodium	10.0	1.0	10		100	85	115				
Tellurium	0.486	0.10	0.5		97	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT** **Date:** *30-Mar-10*
Work Order: H10030163
Project: Not Indicated **BatchID: R60816**

Run ID :Run Order: **ICP1-HE_100315A: 16** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**
Analysis Date: **03/15/10 13:36** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.976	0.010	1		98	90	110				
Iron	1.97	0.030	2		98	90	110				
Magnesium	20.1	1.0	20		101	90	110				
Potassium	19.5	1.0	20		98	90	110				
Sodium	20.1	1.0	20		100	90	110				
Tellurium	0.998	0.013	1		100	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 48** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/15/10 15:15** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.57	0.10	2.5		103	90	110				
Iron	2.52	0.030	2.5		101	90	110				
Magnesium	24.9	1.0	25		99	90	110				
Potassium	24.1	1.0	25		96	90	110				
Sodium	26.1	1.0	25		104	90	110				
Tellurium	2.62	0.10	2.5		105	90	110				

Associated samples: **H10030163-001B; H10030163-002B**

Run ID :Run Order: **ICP1-HE_100315A: 54** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 15:34** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.491	0.10	0.5		98	85	115				
Iron	0.978	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.4	1.0	10		104	85	115				
Sodium	10.5	1.0	10		105	85	115				
Tellurium	0.497	0.10	0.5		99	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: 30-Mar-10

Run ID :Run Order: ICP1-HE_100315A: 60 | SampType: Continuing Calibration Verification Standard | Sample ID: CCV | Method: E200.7
Analysis Date: 03/15/10 15:52 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.47	0.10	2.5		99	90	110				
Iron	2.45	0.030	2.5		98	90	110				
Magnesium	24.7	1.0	25		99	90	110				
Potassium	24.4	1.0	25		98	90	110				
Sodium	26.0	1.0	25		104	90	110				
Tellurium	2.66	0.10	2.5		106	90	110				

Associated samples: H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 63 | SampType: Sample Matrix Spike | Sample ID: H10030163-003BMS2 | Method: E200.7
Analysis Date: 03/15/10 16:02 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130				
Iron	2.00	0.030	2		100	70	130				
Magnesium	19.5	1.0	20		98	70	130				
Potassium	20.4	1.0	20		102	70	130				
Sodium	20.9	1.0	20		104	70	130				
Tellurium	0.900	0.025	1		90	70	130				

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 64 | SampType: Sample Matrix Spike Duplicate | Sample ID: H10030163-003BMSD2 | Method: E200.7
Analysis Date: 03/15/10 16:05 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130	0.9832	0	20	
Iron	2.03	0.030	2		101	70	130	2.002	1.4	20	
Magnesium	20.2	1.0	20		101	70	130	19.52	3.3	20	
Potassium	20.4	1.0	20		102	70	130	20.36	0.3	20	
Sodium	20.4	1.0	20		102	70	130	20.86	2	20	
Tellurium	1.01	0.025	1		101	70	130	0.8996	12	20	

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 69** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 16:20** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0273	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	510	1.0	500		102	80	120				
Potassium	0.0232	1.0				0	0				
Sodium	0.0495	1.0				0	0				
Tellurium	0.0440	0.10				0	0				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 70** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/15/10 16:23** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.08	0.10	1		108	80	120				
Iron	197	0.030	200		98	80	120				
Magnesium	568	1.0	500		114	80	120				
Potassium	20.9	1.0	20		104	80	120				
Sodium	21.0	1.0	20		105	80	120				
Tellurium	1.01	0.10	1		101	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 74** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 16:40** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.490	0.10	0.5		98	85	115				
Iron	1.00	0.030	1		100	85	115				
Magnesium	9.97	1.0	10		100	85	115				
Potassium	10.1	1.0	10		101	85	115				
Sodium	10.1	1.0	10		101	85	115				
Tellurium	0.466	0.10	0.5		93	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 93** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 17:38** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.468	0.10	0.5		94	85	115				
Iron	0.995	0.030	1		100	85	115				
Magnesium	9.51	1.0	10		95	85	115				
Potassium	10.4	1.0	10	0.1511	103	85	115				
Sodium	11.1	1.0	10		111	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 126** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 19:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.475	0.10	0.5		95	85	115				
Iron	0.982	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.2	1.0	10		102	85	115				
Sodium	10.4	1.0	10		104	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 184** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 22:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0161	0.10				0	0				
Iron	182	0.030	200		91	80	120				
Magnesium	533	1.0	500		107	80	120				
Potassium	0.0182	1.0				0	0				
Sodium	0.0514	1.0				0	0				
Tellurium	0.0532	0.10				0	0				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 185** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 22:24** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.02	0.10	1		102	80	120				
Iron	188	0.030	200		94	80	120				
Magnesium	516	1.0	500		103	80	120				
Potassium	20.6	1.0	20		103	80	120				
Sodium	22.3	1.0	20		111	80	120				
Tellurium	1.02	0.10	1		102	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60825

Date: *30-Mar-10*

Run ID :Run Order: **IC101-H_100315A: 11** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV031510-12** Method: **E300.0**
Analysis Date: **03/15/10 12:41** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	12	1.0	12.5		93	90	110				
Sulfate	48	1.0	50		97	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 12** SampType: **Method Blank** Sample ID: **ICB031510-13** Method: **E300.0**
Analysis Date: **03/15/10 12:57** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.05									
Sulfate	ND	0.1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 13** SampType: **Laboratory Fortified Blank** Sample ID: **LFB031510-14** Method: **E300.0**
Analysis Date: **03/15/10 13:13** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		94	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 45** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-46** Method: **E300.0**
Analysis Date: **03/15/10 21:59** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23	1.0	25		94	90	110				
Sulfate	47	1.0	50		94	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **IC101-H_100315A: 49** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009AMS** Method: **E300.0**
Analysis Date: **03/15/10 23:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110				
Sulfate	140	1.0	50	83.34	106	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60825

Date: *30-Mar-10*

Run ID :Run Order: IC101-H_100315A: 49 | SampType: Sample Matrix Spike | Sample ID: H10030151-009AMS | Method: E300.0
Analysis Date: 03/15/10 23:04 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: IC101-H_100315A: 50 | SampType: Sample Matrix Spike Duplicate | Sample ID: H10030151-009AMSD | Method: E300.0
Analysis Date: 03/15/10 23:21 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110	39	0.3	20	
Sulfate	140	1.0	50	83.34	105	90	110	136.3	0.3	20	

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: IC101-H_100315A: 59 | SampType: Continuing Calibration Verification Standard | Sample ID: CCV031510-60 | Method: E300.0
Analysis Date: 03/16/10 01:49 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23	1.0	25		93	90	110				
Sulfate	47	1.0	50		95	90	110				

Associated samples: H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: IC101-H_100315A: 63 | SampType: Sample Matrix Spike | Sample ID: H10030163-005AMS | Method: E300.0
Analysis Date: 03/16/10 02:54 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	28	1.0	25	3.921	96	90	110				
Sulfate	100	1.0	50	51.84	104	90	110				

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: IC101-H_100315A: 64 | SampType: Sample Matrix Spike Duplicate | Sample ID: H10030163-005AMSD | Method: E300.0
Analysis Date: 03/16/10 03:11 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	28	1.0	25	3.921	96	90	110	27.83	0.1	20	
Sulfate	100	1.0	50	51.84	103	90	110	103.6	0.5	20	

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60842

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316C: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:05** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0197	0.0050	0.02		98	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 2** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+6 100311-0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0187	0.0050	0.02		93	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 4** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**
Analysis Date: **03/16/10 13:10** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	ND	0.0003									

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 6** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+4/+6 100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:14** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0376	0.0050	0.04		94	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 11** SampType: **Sample Duplicate** Sample ID: **H10030163-004CDUP** Method: **A3114 B**
Analysis Date: **03/16/10 14:43** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	ND	0.0050								20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60842

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316C: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005CMS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0426	0.0050	0.04		106	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-005CMSD Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0421	0.0050	0.04		105	80	120	0.04255	1.1	20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60844

Date: 30-Mar-10

Run ID :Run Order: **PSA MILLENNIUM_100316D: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0197	0.0050	0.02		98	85	115				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 2** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+6 100311-0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0187	0.0050	0.02		93	85	115				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 4** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**
Analysis Date: **03/16/10 13:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0003									

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 6** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+4/+6 100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0376	0.0050	0.04		94	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 11** SampType: **Sample Duplicate** Sample ID: **H10030163-004CDUP** Method: **A3114 B**
Analysis Date: **03/16/10 14:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0050								20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60844

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316D: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005CMS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0426	0.0050	0.04		106	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-005CMSD Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0421	0.0050	0.04		105	80	120	0.04255	1.1	20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 4** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/16/10 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	40.6	1.0	40		101	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 6** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/16/10 11:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25		101	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 12:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	547	1.0	500		109	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	548	1.0	500		110	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 64** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 14:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	538	1.0	500		108	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 65** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 15:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	557	1.0	500		111	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 68** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**
Analysis Date: **03/16/10 15:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.1									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 69** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 15:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.87	1.0	10		99	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 70** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**
Analysis Date: **03/16/10 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	21.2	1.0	20		106	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 90** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/16/10 16:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.1	1.0	25		104	90	110				

Associated samples: **H10030163-001B; H10030163-002B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 92** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009BMS2** Method: **E200.7**
Analysis Date: **03/16/10 16:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	73.8	1.0	20	53.2	103	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 93** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-009BMSD2** Method: **E200.7**
Analysis Date: **03/16/10 16:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	70.3	1.0	20	53.2	85	70	130	73.78	4.8	20	

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 100** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 17:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.2	1.0	10		102	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 102** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/16/10 17:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.2	1.0	25		97	90	110				

Associated samples: **H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 110** SampType: **Sample Matrix Spike** Sample ID: **H10030040-008EMS2** Method: **E200.7**
Analysis Date: **03/16/10 17:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	110	1.0	20	100.4		70	130				A

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 111** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030040-008EMSD2** Method: **E200.7**
Analysis Date: **03/16/10 17:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	118	1.0	20	100.4		70	130	110.4	6.7	20	A

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 133** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 18:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.98	1.0	10		100	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 166** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 20:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.81	1.0	10		98	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 187** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 21:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	485	1.0	500		97	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 188** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 21:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	517	1.0	500		103	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: 30-Mar-10

Run ID :Run Order: **MAN-TECH_100316A: 3** SampType: **Method Blank** Sample ID: **MBLK** Method: **A2320 B**
Analysis Date: **03/16/10 17:30** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	0.9									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 5** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**
Analysis Date: **03/16/10 17:39** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600		96	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 57** SampType: **Sample Matrix Spike** Sample ID: **H10030151-012AMS** Method: **A2320 B**
Analysis Date: **03/16/10 20:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	740	4.0	600	144.1	99	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 58** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-012AMSD** Method: **A2320 B**
Analysis Date: **03/16/10 20:12** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	730	4.0	600	144.1	98	90	110	739.6	0.7	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 80** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A2320 B**
Analysis Date: **03/16/10 21:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	95	4.0						95.18	0.3	20	
Bicarbonate as HCO3	120	4.0						116.1	0.3	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 101** SampType: **Sample Matrix Spike** Sample ID: **H10030179-002AMS** Method: **A2320 B**
Analysis Date: **03/16/10 22:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	850	4.0	600	268	97	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 102** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030179-002AMSD** Method: **A2320 B**
Analysis Date: **03/16/10 22:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	880	4.0	600	268	102	90	110	852.3	3	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A2510 B**
Analysis Date: **03/16/10 17:21** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	724	1.0	717.5		101	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 4** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2510 B**
Analysis Date: **03/16/10 17:31** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	1430	1.0	1412		101	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 41** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A2510 B**
Analysis Date: **03/16/10 19:11** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	720	1.0	718		100	90	110				

Associated samples:

Run ID :Run Order: **MAN-TECH_100316A: 71** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A2510 B**
Analysis Date: **03/16/10 20:46** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	721	1.0	718		100	90	110				

Associated samples:

Run ID :Run Order: **MAN-TECH_100316A: 81** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A2510 B**
Analysis Date: **03/16/10 21:21** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	322	1.0						319.9	0.6	10	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 2** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A4500-H B**
Analysis Date: **03/16/10 17:24** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.96	0.10	7		99	99	101				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 42** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A4500-H B**
Analysis Date: **03/16/10 19:14** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.00	0.10	7		100	99	101				

Associated samples: **H10030163-001A**

Run ID :Run Order: **MAN-TECH_100316A: 72** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A4500-H B**
Analysis Date: **03/16/10 20:49** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.00	0.10	7		100	99	101				

Associated samples: **H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 75** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A4500-H B**
Analysis Date: **03/16/10 20:59** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.98	0.10	7		100	99	101				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 82** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A4500-H B**
Analysis Date: **03/16/10 21:21** Units: **s.u.** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.94	0.10						7.93	0.1	2	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60920

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100318E: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **AS100318-ICV** Method: **E1632AM**
Analysis Date: **03/18/10 14:06** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	27.8	5.0	25		111	87.6	114				
Arsenic-V	22.8	5.0	25		91	87	116				

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 8** SampType: **Continuing Calibration Verification Standard** Sample ID: **AS100318-50** Method: **E1632AM**
Analysis Date: **03/18/10 14:21** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	47.3	5.0	50		95	85	115				
Arsenic-V	53.0	5.0	50		106	85	115				

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 9** SampType: **Initial Calibration Blank, Instrument Blank** Sample ID: **ICB_13r** Method: **E1632AM**
Analysis Date: **03/18/10 14:26** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	ND	5.0				0	0				
Arsenic-V	ND	5.0				0	0				

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 10** SampType: **Laboratory Fortified Blank** Sample ID: **AS100318-LFB** Method: **E1632AM**
Analysis Date: **03/18/10 14:32** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	50.5	5.0	50		101	55	146				
Arsenic-V	49.2	5.0	50		98	55	146				

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 15** SampType: **Sample Matrix Spike** Sample ID: **H10030163-002D MS** Method: **E1632AM**
Analysis Date: **03/18/10 14:58** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	58	5.0	50		117	55	146				
Arsenic-V	80	5.0	50	28.95	101	55	146				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60920

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100318E: 15** SampType: **Sample Matrix Spike** Sample ID: **H10030163-002D MS** Method: **E1632AM**
Analysis Date: **03/18/10 14:58** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 16** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-002D MSD** Method: **E1632AM**
Analysis Date: **03/18/10 15:03** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	68	5.0	50		135	55	146	58.44	14	20	
Arsenic-V	91	5.0	50	28.95	123	55	146	79.58	13	20	

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 21** SampType: **Sample Duplicate** Sample ID: **H10030163-006D DUP** Method: **E1632AM**
Analysis Date: **03/18/10 15:29** Units: **ug/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	ND	5.0								20	
Arsenic-V	ND	5.0								20	

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Workorder Receipt Checklist

Montana Environmental Custodial Trust

H10030163

Login completed by: Tracy L. Lorash
Reviewed by: BL2000\ablackburn
Reviewed Date: 3/30/2010

Date Received: 3/12/2010
Received by: kjw
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	3.6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	Not Applicable ☐

Contact and Corrective Action Comments:

All selenium spec. samples rcv'd unpreserved - added 2ml. HNO3 to each in lab for a final pH of 2. Sample times for EH-1003-113-116 taken from bottles. TI

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8223

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 1** SampType: **Method Blank** Sample ID: **MB-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	7	1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8223** Method: **A2540 C**
Analysis Date: **03/15/10 14:44** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2010	10	2000	7	100	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030151-007AMS** Method: **A2540 C**
Analysis Date: **03/15/10 14:48** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2150	10	2000	174	99	80	120				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315A: 15** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 C**
Analysis Date: **03/15/10 14:48** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	918	10						922	0.4	5	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8224

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 1** SampType: **Method Blank** Sample ID: **MB-8224** Method: **A2540 D**
Analysis Date: **03/15/10 14:30** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8224** Method: **A2540 D**
Analysis Date: **03/15/10 14:31** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1970	10	2000		99	70	130				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 5** SampType: **Sample Duplicate** Sample ID: **H10030151-002ADUP** Method: **A2540 D**
Analysis Date: **03/15/10 14:32** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	36.0	10						34	5.7	5	R

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **ACCU-124 (14410200)_100315B: 12** SampType: **Sample Duplicate** Sample ID: **H10030151-008ADUP** Method: **A2540 D**
Analysis Date: **03/15/10 14:34** Units: **mg/L** Prep Info: Prep Date: **3/15/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	122	10						120	1.7	5	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

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Run ID :Run Order: **ACCU-124 (14410200)_100317A: 27** SampType: **Method Blank** Sample ID: **MB-8249** Method: **A2540 C**
Analysis Date: **03/17/10 16:31** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	ND	1									

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 28** SampType: **Laboratory Control Sample** Sample ID: **LCS-8249** Method: **A2540 C**
Analysis Date: **03/17/10 16:32** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	1960	10	2000		98	90	110				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 35** SampType: **Sample Duplicate** Sample ID: **H10030163-004ADUP** Method: **A2540 C**
Analysis Date: **03/17/10 16:33** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	242	10						236	2.5	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 37** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005AMS** Method: **A2540 C**
Analysis Date: **03/17/10 16:34** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	2180	10	2000	228	98	80	120				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 39** SampType: **Sample Matrix Spike** Sample ID: **H10030163-006AMS** Method: **A2540 C**
Analysis Date: **03/17/10 16:35** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	1970	10	2000	2	98	80	120				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: 8249

Date: *30-Mar-10*

Run ID :Run Order: **ACCU-124 (14410200)_100317A: 46** SampType: **Sample Duplicate** Sample ID: **H10030170-006ADUP** Method: **A2540 C**

Analysis Date: **03/17/10 16:36** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Dissolved TDS @ 180 C	3180	10						3193	0.4	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: 8250

Date: 30-Mar-10

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 1** SampType: **Method Blank** Sample ID: **MB-8250** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 2** SampType: **Laboratory Control Sample** Sample ID: **LCS-8250** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	1890	10	2000		94	70	130				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **ACCU-124 (14410200)_100317B: 4** SampType: **Sample Duplicate** Sample ID: **H10030163-004ADUP** Method: **A2540 D**
Analysis Date: **03/17/10 16:04** Units: **mg/L** Prep Info: Prep Date: **3/17/2010** Prep Method: **A2540 D**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	446	10						430	3.7	5	

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 8** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 10:40** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.254	0.10	0.25		102	90	110				
Antimony	0.0494	0.050	0.05		99	90	110				
Arsenic	0.0493	0.0050	0.05		99	90	110				
Barium	0.0500	0.10	0.05		100	90	110				
Beryllium	0.0251	0.0010	0.025		101	90	110				
Cadmium	0.0258	0.0010	0.025		103	90	110				
Chromium	0.0497	0.010	0.05		99	90	110				
Cobalt	0.0504	0.010	0.05		101	90	110				
Copper	0.0508	0.010	0.05		102	90	110				
Lead	0.0495	0.010	0.05		99	90	110				
Manganese	0.249	0.010	0.25		100	90	110				
Mercury	0.00192	0.0010	0.002		96	90	110				
Nickel	0.0507	0.010	0.05		101	90	110				
Selenium	0.0503	0.0050	0.05		101	90	110				
Silver	0.0250	0.0050	0.025		100	90	110				
Thallium	0.0494	0.10	0.05		99	90	110				
Vanadium	0.0490	0.10	0.05		98	90	110				
Zinc	0.0507	0.010	0.05		101	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: ***ICPMS204-B_100315A: 9*** *SampType:* ***Interference Check Sample A*** *Sample ID:* ***ICSA*** *Method:* ***E200.8***

Analysis Date: **03/15/10 10:45** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.5	0.10	40		96	70	130				
Antimony	0.000336	0.050									
Arsenic	0.000133	0.0050									
Barium	9.30E-05	0.10									
Beryllium	7.00E-06	0.0010									
Cadmium	0.000460	0.0010									
Chromium	0.000795	0.010									
Cobalt	0.00154	0.010									
Copper	0.00214	0.010									
Lead	6.90E-05	0.010									

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**
Analysis Date: **03/15/10 10:45** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.00215	0.010									
Mercury	2.70E-05	0.0010									
Nickel	0.00196	0.010									
Selenium	0.000228	0.0050									
Silver	0.000181	0.0050									
Thallium	2.10E-05	0.10									
Vanadium	0.000115	0.10									
Zinc	0.00150	0.010									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**
Analysis Date: **03/15/10 10:50** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	39.2	0.10	40		98	70	130				
Antimony	0.000174	0.050				0	0				
Arsenic	0.0103	0.0050	0.01		103	70	130				
Barium	9.70E-05	0.10				0	0				
Beryllium	4.00E-06	0.0010				0	0				
Cadmium	0.0101	0.0010	0.01		101	70	130				
Chromium	0.0213	0.010	0.02		107	70	130				
Cobalt	0.0223	0.010	0.02		112	70	130				
Copper	0.0224	0.010	0.02		112	70	130				
Lead	6.10E-05	0.010				0	0				
Manganese	0.0225	0.010	0.02		112	70	130				
Mercury	1.80E-05	0.0010				0	0				
Nickel	0.0228	0.010	0.02		114	70	130				
Selenium	0.00980	0.0050	0.01		98	70	130				
Silver	0.0197	0.0050	0.02		98	70	130				
Thallium	1.30E-05	0.10				0	0				
Vanadium	0.0208	0.10	0.02		104	70	130				
Zinc	0.0111	0.010	0.01		111	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 27** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.8**
Analysis Date: **03/15/10 12:36** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	7E-05	7E-05									
Antimony	ND	3E-05									
Arsenic	ND	5E-05									
Barium	ND	3E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	0.0001	5E-05									
Cobalt	ND	1E-05									
Copper	0.0001	7E-05									
Lead	8E-06	5E-06									
Manganese	3E-05	2E-05									
Mercury	1.0E-05	5E-06									
Nickel	0.001	7E-05									
Selenium	0.0002	0.0002									
Silver	5E-05	2E-05									
Thallium	4E-05	1E-05									
Vanadium	ND	6E-05									
Zinc	0.001	9E-05									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**
Analysis Date: **03/15/10 12:41** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0507	0.10	0.05	0.0000705	101	85	115				
Antimony	0.0500	0.050	0.05		100	85	115				
Arsenic	0.0501	0.0050	0.05		100	85	115				
Barium	0.0507	0.10	0.05		101	85	115				
Beryllium	0.0495	0.0010	0.05		99	85	115				
Cadmium	0.0495	0.0010	0.05		99	85	115				
Chromium	0.0513	0.010	0.05	0.0001441	102	85	115				
Cobalt	0.0506	0.010	0.05		101	85	115				
Copper	0.0500	0.010	0.05	0.0001497	100	85	115				
Lead	0.0501	0.010	0.05	0.0000075	100	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 28** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.8**
Analysis Date: **03/15/10 12:41** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.0513	0.010	0.05	0.0000315	103	85	115				
Mercury	0.000923	0.0010	0.001	0.0000097	91	85	115				
Nickel	0.0512	0.010	0.05	0.001344	100	85	115				
Selenium	0.0493	0.0050	0.05	0.0001843	98	85	115				
Silver	0.0181	0.0050	0.02	0.0000496	90	85	115				
Thallium	0.0501	0.10	0.05	0.0000391	100	85	115				
Vanadium	0.0512	0.10	0.05		102	85	115				
Zinc	0.0500	0.010	0.05	0.001281	97	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 83** SampType: **Sample Matrix Spike** Sample ID: **H10030163-004BMS** Method: **E200.8**
Analysis Date: **03/15/10 17:25** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.122	0.10	0.05	0.07799	88	70	130				
Antimony	0.0554	0.0050	0.05	0.004556	102	70	130				
Arsenic	0.0929	0.0050	0.05	0.04454	97	70	130				
Barium	0.0812	0.10	0.05	0.0309	101	70	130				
Beryllium	0.0470	0.0010	0.05		94	70	130				
Cadmium	0.0494	0.0010	0.05	0.0001126	99	70	130				
Chromium	0.0501	0.010	0.05	0.0009564	98	70	130				
Cobalt	0.0512	0.010	0.05	0.002857	97	70	130				
Copper	0.0492	0.010	0.05	0.001042	96	70	130				
Lead	0.0508	0.010	0.05	0.0002188	101	70	130				
Manganese	0.0574	0.010	0.05	0.007422	100	70	130				
Mercury	0.000980	0.0010	0.001	0.000019	96	70	130				
Nickel	0.0508	0.010	0.05	0.00352	94	70	130				
Selenium	0.0519	0.0050	0.05	0.000753	102	70	130				
Silver	0.0179	0.0050	0.02		89	70	130				
Thallium	0.0504	0.0050	0.05	0.0000427	101	70	130				
Vanadium	0.0763	0.10	0.05	0.02628	100	70	130				
Zinc	0.0531	0.010	0.05	0.003582	99	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: 30-Mar-10

Run ID :Run Order: **ICPMS204-B_100315A: 84** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-004BMSD** Method: **E200.8**
Analysis Date: **03/15/10 17:31** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.121	0.10	0.05	0.07799	87	70	130	0.1221	0.7	20	
Antimony	0.0546	0.0050	0.05	0.004556	100	70	130	0.05538	1.4	20	
Arsenic	0.0942	0.0050	0.05	0.04454	99	70	130	0.09291	1.3	20	
Barium	0.0795	0.10	0.05	0.0309	97	70	130	0.08121		20	
Beryllium	0.0459	0.0010	0.05		92	70	130	0.04697	2.3	20	
Cadmium	0.0490	0.0010	0.05	0.0001126	98	70	130	0.04944	0.8	20	
Chromium	0.0510	0.010	0.05	0.0009564	100	70	130	0.05014	1.6	20	
Cobalt	0.0521	0.010	0.05	0.002857	99	70	130	0.05123	1.7	20	
Copper	0.0497	0.010	0.05	0.001042	97	70	130	0.04916	1.1	20	
Lead	0.0506	0.010	0.05	0.0002188	101	70	130	0.05076	0.4	20	
Manganese	0.0585	0.010	0.05	0.007422	102	70	130	0.05739	1.9	20	
Mercury	0.000973	0.0010	0.001	0.000019	95	70	130	0.00098		20	
Nickel	0.0516	0.010	0.05	0.00352	96	70	130	0.05063	1.8	20	
Selenium	0.0519	0.0050	0.05	0.000753	102	70	130	0.05192	0.1	20	
Silver	0.0190	0.0050	0.02		95	70	130	0.0179	6.2	20	
Thallium	0.0503	0.0050	0.05	0.0000427	101	70	130	0.05041	0.2	20	
Vanadium	0.0768	0.10	0.05	0.02828	101	70	130	0.07625		20	
Zinc	0.0534	0.010	0.05	0.003582	100	70	130	0.05313	0.5	20	

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**
Analysis Date: **03/15/10 18:58** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.249	0.10	0.25		100	90	110				
Antimony	0.0476	0.050	0.05		95	90	110				
Arsenic	0.0496	0.0050	0.05		99	90	110				
Barium	0.0494	0.10	0.05		99	90	110				
Beryllium	0.0249	0.0010	0.025		100	90	110				
Cadmium	0.0257	0.0010	0.025		103	90	110				
Chromium	0.0493	0.010	0.05		99	90	110				
Cobalt	0.0503	0.010	0.05		101	90	110				
Copper	0.0505	0.010	0.05		101	90	110				
Lead	0.0498	0.010	0.05		100	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 101** SampType: **Initial Calibration Verification Standard** Sample ID: **QCS STD** Method: **E200.8**

Analysis Date: **03/15/10 18:58** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.250	0.010	0.25		100	90	110				
Mercury	0.00202	0.0010	0.002		101	90	110				
Nickel	0.0500	0.010	0.05		100	90	110				
Selenium	0.0511	0.0050	0.05		102	90	110				
Silver	0.0249	0.0050	0.025		99	90	110				
Thallium	0.0497	0.10	0.05		99	90	110				
Vanadium	0.0488	0.10	0.05		98	90	110				
Zinc	0.0519	0.010	0.05		104	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICPMS204-B_100315A: 102** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.8**

Analysis Date: **03/15/10 19:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	38.3	0.10	40		96	70	130				
Antimony	0.000366	0.050									
Arsenic	0.000115	0.0050									
Barium	0.000129	0.10									
Beryllium	1.10E-05	0.0010									
Cadmium	0.000427	0.0010									
Chromium	0.000681	0.010									
Cobalt	0.00152	0.010									
Copper	0.00205	0.010									
Lead	7.30E-05	0.010									
Manganese	0.00210	0.010									
Mercury	2.10E-05	0.0010									
Nickel	0.00212	0.010									
Selenium	0.000133	0.0050									
Silver	9.70E-05	0.0050									
Thallium	3.60E-05	0.10									
Vanadium	8.40E-05	0.10									
Zinc	0.00145	0.010									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60797

Date: *30-Mar-10*

Run ID :Run Order: **ICPMS204-B_100315A: 103** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/15/10 19:09** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	*38.3*	*0.10*	*40*		**96**	*70*	*130*				
Antimony	0.000183	0.050				0	0				
Arsenic	0.0103	0.0050	0.01		**103**	70	130				
Barium	0.000127	0.10				0	0				
Beryllium	9.00E-06	0.0010				0	0				
Cadmium	0.00994	0.0010	0.01		**99**	70	130				
Chromium	0.0211	0.010	0.02		**106**	70	130				
Cobalt	0.0222	0.010	0.02		**111**	70	130				
Copper	0.0218	0.010	0.02		**109**	70	130				
Lead	6.70E-05	0.010				0	0				
Manganese	0.0221	0.010	0.02		**110**	70	130				
Mercury	7.00E-06	0.0010				0	0				
Nickel	0.0240	0.010	0.02		**120**	70	130				
Selenium	0.00997	0.0050	0.01		**100**	70	130				
Silver	0.0189	0.0050	0.02		**95**	70	130				
Thallium	2.00E-05	0.10				0	0				
Vanadium	0.0210	0.10	0.02		**105**	70	130				
Zinc	0.0111	0.010	0.01		**111**	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/15/10 12:59** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.02	0.10	2		101	95	105				
Iron	3.92	0.030	4		98	95	105				
Magnesium	40.4	1.0	40		101	95	105				
Potassium	39.3	1.0	40		98	95	105				
Sodium	41.9	1.0	40		105	95	105				
Tellurium	2.01	0.10	2		100	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 7** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/15/10 13:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.45	0.10	2.5		98	95	105				
Iron	2.46	0.030	2.5		99	95	105				
Magnesium	24.0	1.0	25		96	95	105				
Potassium	25.1	1.0	25		100	95	105				
Sodium	25.5	1.0	25		102	95	105				
Tellurium	2.51	0.10	2.5		100	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 10** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 13:16** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0222	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	537	1.0	500		107	80	120				
Potassium	0.0214	1.0				0	0				
Sodium	0.0434	1.0				0	0				
Tellurium	0.0513	0.10				0	0				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 11** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/15/10 13:19** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.07	0.10	1		107	80	120				
Iron	192	0.030	200		96	80	120				
Magnesium	551	1.0	500		110	80	120				
Potassium	20.5	1.0	20		103	80	120				
Sodium	20.4	1.0	20		102	80	120				
Tellurium	1.12	0.10	1		112	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 14** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**
Analysis Date: **03/15/10 13:30** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	ND	0.002									
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 15** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 13:33** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.498	0.10	0.5		100	85	115				
Iron	1.03	0.030	1		103	85	115				
Magnesium	10.2	1.0	10		102	85	115				
Potassium	10.1	1.0	10		101	85	115				
Sodium	10.0	1.0	10		100	85	115				
Tellurium	0.486	0.10	0.5		97	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 16** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**
Analysis Date: **03/15/10 13:36** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.976	0.010	1		98	90	110				
Iron	1.97	0.030	2		98	90	110				
Magnesium	20.1	1.0	20		101	90	110				
Potassium	19.5	1.0	20		98	90	110				
Sodium	20.1	1.0	20		100	90	110				
Tellurium	0.998	0.013	1		100	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 48** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/15/10 15:15** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.57	0.10	2.5		103	90	110				
Iron	2.52	0.030	2.5		101	90	110				
Magnesium	24.9	1.0	25		99	90	110				
Potassium	24.1	1.0	25		96	90	110				
Sodium	26.1	1.0	25		104	90	110				
Tellurium	2.62	0.10	2.5		105	90	110				

Associated samples: **H10030163-001B; H10030163-002B**

Run ID :Run Order: **ICP1-HE_100315A: 54** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 15:34** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.491	0.10	0.5		98	85	115				
Iron	0.978	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.4	1.0	10		104	85	115				
Sodium	10.5	1.0	10		105	85	115				
Tellurium	0.497	0.10	0.5		99	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: 30-Mar-10

Run ID :Run Order: ICP1-HE_100315A: 60 | SampType: Continuing Calibration Verification Standard | Sample ID: CCV | Method: E200.7
Analysis Date: 03/15/10 15:52 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	2.47	0.10	2.5		99	90	110				
Iron	2.45	0.030	2.5		98	90	110				
Magnesium	24.7	1.0	25		99	90	110				
Potassium	24.4	1.0	25		98	90	110				
Sodium	26.0	1.0	25		104	90	110				
Tellurium	2.66	0.10	2.5		106	90	110				

Associated samples: H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 63 | SampType: Sample Matrix Spike | Sample ID: H10030163-003BMS2 | Method: E200.7
Analysis Date: 03/15/10 16:02 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130				
Iron	2.00	0.030	2		100	70	130				
Magnesium	19.5	1.0	20		98	70	130				
Potassium	20.4	1.0	20		102	70	130				
Sodium	20.9	1.0	20		104	70	130				
Tellurium	0.900	0.025	1		90	70	130				

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 64 | SampType: Sample Matrix Spike Duplicate | Sample ID: H10030163-003BMSD2 | Method: E200.7
Analysis Date: 03/15/10 16:05 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.983	0.010	1		98	70	130	0.9832	0	20	
Iron	2.03	0.030	2		101	70	130	2.002	1.4	20	
Magnesium	20.2	1.0	20		101	70	130	19.52	3.3	20	
Potassium	20.4	1.0	20		102	70	130	20.36	0.3	20	
Sodium	20.4	1.0	20		102	70	130	20.86	2	20	
Tellurium	1.01	0.025	1		101	70	130	0.8996	12	20	

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: 30-Mar-10

Run ID :Run Order: ICP1-HE_100315A: 69 | SampType: Interference Check Sample A | Sample ID: ICSA | Method: E200.7
Analysis Date: 03/15/10 16:20 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0273	0.10				0	0				
Iron	180	0.030	200		90	80	120				
Magnesium	510	1.0	500		102	80	120				
Potassium	0.0232	1.0				0	0				
Sodium	0.0495	1.0				0	0				
Tellurium	0.0440	0.10				0	0				

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 70 | SampType: Interference Check Sample AB | Sample ID: ICSAB | Method: E200.7
Analysis Date: 03/15/10 16:23 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.08	0.10	1		108	80	120				
Iron	197	0.030	200		98	80	120				
Magnesium	568	1.0	500		114	80	120				
Potassium	20.9	1.0	20		104	80	120				
Sodium	21.0	1.0	20		105	80	120				
Tellurium	1.01	0.10	1		101	80	120				

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Run ID :Run Order: ICP1-HE_100315A: 74 | SampType: Laboratory Fortified Blank | Sample ID: LFB | Method: E200.7
Analysis Date: 03/15/10 16:40 | Units: mg/L | Prep Info: | Prep Date: | Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.490	0.10	0.5		98	85	115				
Iron	1.00	0.030	1		100	85	115				
Magnesium	9.97	1.0	10		100	85	115				
Potassium	10.1	1.0	10		101	85	115				
Sodium	10.1	1.0	10		101	85	115				
Tellurium	0.466	0.10	0.5		93	85	115				

Associated samples: H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B

Qualifiers: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits | A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 93** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 17:38** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.468	0.10	0.5		94	85	115				
Iron	0.995	0.030	1		100	85	115				
Magnesium	9.51	1.0	10		95	85	115				
Potassium	10.4	1.0	10	0.1511	103	85	115				
Sodium	11.1	1.0	10		111	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 126** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/15/10 19:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.475	0.10	0.5		95	85	115				
Iron	0.982	0.030	1		98	85	115				
Magnesium	9.69	1.0	10		97	85	115				
Potassium	10.2	1.0	10		102	85	115				
Sodium	10.4	1.0	10		104	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100315A: 184** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/15/10 22:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.0181	0.10				0	0				
Iron	182	0.030	200		91	80	120				
Magnesium	533	1.0	500		107	80	120				
Potassium	0.0182	1.0				0	0				
Sodium	0.0514	1.0				0	0				
Tellurium	0.0532	0.10				0	0				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60816

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100315A: 185** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/15/10 22:24** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	1.02	0.10	1		102	80	120				
Iron	188	0.030	200		94	80	120				
Magnesium	516	1.0	500		103	80	120				
Potassium	20.6	1.0	20		103	80	120				
Sodium	22.3	1.0	20		111	80	120				
Tellurium	1.02	0.10	1		102	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60825

Date: *30-Mar-10*

Run ID :Run Order: **IC101-H_100315A: 11** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV031510-12** Method: **E300.0**
Analysis Date: **03/15/10 12:41** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	12	1.0	12.5		93	90	110				
Sulfate	48	1.0	50		97	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 12** SampType: **Method Blank** Sample ID: **ICB031510-13** Method: **E300.0**
Analysis Date: **03/15/10 12:57** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.05									
Sulfate	ND	0.1									

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 13** SampType: **Laboratory Fortified Blank** Sample ID: **LFB031510-14** Method: **E300.0**
Analysis Date: **03/15/10 13:13** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		94	90	110				
Sulfate	48	1.0	50		95	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 45** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-46** Method: **E300.0**
Analysis Date: **03/15/10 21:59** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23	1.0	25		94	90	110				
Sulfate	47	1.0	50		94	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A**

Run ID :Run Order: **IC101-H_100315A: 49** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009AMS** Method: **E300.0**
Analysis Date: **03/15/10 23:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110				
Sulfate	140	1.0	50	83.34	106	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60825

Date: *30-Mar-10*

Run ID :Run Order: **IC101-H_100315A: 49** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009AMS** Method: **E300.0**
Analysis Date: **03/15/10 23:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 50** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-009AMSD** Method: **E300.0**
Analysis Date: **03/15/10 23:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	39	1.0	25	14	100	90	110	39	0.3	20	
Sulfate	140	1.0	50	83.34	105	90	110	136.3	0.3	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 59** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV031510-60** Method: **E300.0**
Analysis Date: **03/16/10 01:49** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23	1.0	25		93	90	110				
Sulfate	47	1.0	50		95	90	110				

Associated samples: **H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 63** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005AMS** Method: **E300.0**
Analysis Date: **03/16/10 02:54** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	28	1.0	25	3.921	96	90	110				
Sulfate	100	1.0	50	51.84	104	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **IC101-H_100315A: 64** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-005AMSD** Method: **E300.0**
Analysis Date: **03/16/10 03:11** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	28	1.0	25	3.921	96	90	110	27.83	0.1	20	
Sulfate	100	1.0	50	51.84	103	90	110	103.6	0.5	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60842

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316C: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:05** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0197	0.0050	0.02		98	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 2** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+6 100311-0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0187	0.0050	0.02		93	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 4** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**
Analysis Date: **03/16/10 13:10** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	ND	0.0003									

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 6** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+4/+6 100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:14** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0376	0.0050	0.04		94	90	110				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 11** SampType: **Sample Duplicate** Sample ID: **H10030163-004CDUP** Method: **A3114 B**
Analysis Date: **03/16/10 14:43** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	ND	0.0050								20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60842

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316C: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005CMS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:46** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0426	0.0050	0.04		106	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316C: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-005CMSD Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:48** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-IV	0.0421	0.0050	0.04		105	80	120	0.04255	1.1	20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60844

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316D: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV Se+4100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:05** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0197	0.0050	0.02		98	85	115				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 2** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV Se+6 100311-0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	*Result*	*PQL*	*SPK value*	*SPK Ref Val*	*%REC*	*LowLimit*	*HighLimit*	*RPD Ref Val*	*%RPD*	*RPDLimit*	*Qual*
Selenium-VI	0.0187	0.0050	0.02		93	85	115				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 4** SampType: **Method Blank** Sample ID: **MBLK** Method: **A3114 B**
Analysis Date: **03/16/10 13:10** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0003									

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 6** SampType: **Laboratory Control Sample** Sample ID: **LCS Se+4/+6 100311-SS0.02** Method: **A3114 B**
Analysis Date: **03/16/10 13:14** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0376	0.0050	0.04		94	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 11** SampType: **Sample Duplicate** Sample ID: **H10030163-004CDUP** Method: **A3114 B**
Analysis Date: **03/16/10 14:43** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	ND	0.0050								20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60844

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100316D: 13** SampType: **Sample Matrix Spike** Sample ID: **H10030163-005CMS Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:46** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0426	0.0050	0.04		106	80	120				

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Run ID :Run Order: **PSA MILLENNIUM_100316D: 14** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-005CMSD Se+4/+6 100311-SS0.02** Method: **A3114 B**

Analysis Date: **03/16/10 14:48** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium-VI	0.0421	0.0050	0.04		105	80	120	0.04255	1.1	20	

Associated samples: **H10030163-001C; H10030163-002C; H10030163-003C; H10030163-004C; H10030163-005C; H10030163-006C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 4** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **E200.7**
Analysis Date: **03/16/10 11:48** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	40.6	1.0	40		101	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 6** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/16/10 11:54** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25		101	95	105				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 9** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 12:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	547	1.0	500		109	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 10** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 12:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	548	1.0	500		110	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 64** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 14:58** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	538	1.0	500		108	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 65** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 15:01** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	557	1.0	500		111	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 68** SampType: **Method Blank** Sample ID: **MBLK** Method: **E200.7**
Analysis Date: **03/16/10 15:31** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.1									

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 69** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 15:34** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.87	1.0	10		99	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 70** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **E200.7**
Analysis Date: **03/16/10 15:37** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	21.2	1.0	20		106	90	110				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 90** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/16/10 16:38** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.1	1.0	25		104	90	110				

Associated samples: **H10030163-001B; H10030163-002B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT** **Date:** *30-Mar-10*
Work Order: H10030163
Project: Not Indicated **BatchID: R60849**

Run ID :Run Order: **ICP1-HE_100316B: 92** SampType: **Sample Matrix Spike** Sample ID: **H10030151-009BMS2** Method: **E200.7**
Analysis Date: **03/16/10 16:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	73.8	1.0	20	53.2	103	70	130				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 93** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-009BMSD2** Method: **E200.7**
Analysis Date: **03/16/10 16:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	70.3	1.0	20	53.2	85	70	130	73.78	4.8	20	

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 100** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 17:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.2	1.0	10		102	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 102** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **03/16/10 17:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.2	1.0	25		97	90	110				

Associated samples: **H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 110** SampType: **Sample Matrix Spike** Sample ID: **H10030040-008EMS2** Method: **E200.7**
Analysis Date: **03/16/10 17:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	110	1.0	20	100.4		70	130				A

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD
J - *Analyte detected below quantitation limits*; R - *RPD outside accepted recovery limits*; A - *Analyte concentration greater than three times the spike amount*

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60849

Date: *30-Mar-10*

Run ID :Run Order: **ICP1-HE_100316B: 111** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030040-008EMSD2** Method: **E200.7**
Analysis Date: **03/16/10 17:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	118	1.0	20	100.4		70	130	110.4	6.7	20	A

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 133** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 18:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.98	1.0	10		100	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 166** SampType: **Laboratory Fortified Blank** Sample ID: **LFB** Method: **E200.7**
Analysis Date: **03/16/10 20:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.81	1.0	10		98	85	115				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 187** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **03/16/10 21:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	485	1.0	500		97	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Run ID :Run Order: **ICP1-HE_100316B: 188** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/16/10 21:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	517	1.0	500		103	80	120				

Associated samples: **H10030163-001B; H10030163-002B; H10030163-003B; H10030163-004B; H10030163-005B; H10030163-006B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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A - Analyte concentration greater than three times the spike amount

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Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: 30-Mar-10

Run ID :Run Order: **MAN-TECH_100316A: 3** SampType: **Method Blank** Sample ID: **MBLK** Method: **A2320 B**
Analysis Date: **03/16/10 17:30** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	0.9									

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: **MAN-TECH_100316A: 5** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**
Analysis Date: **03/16/10 17:39** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600		96	90	110				

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: **MAN-TECH_100316A: 57** SampType: **Sample Matrix Spike** Sample ID: **H10030151-012AMS** Method: **A2320 B**
Analysis Date: **03/16/10 20:04** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	740	4.0	600	144.1	99	90	110				

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: **MAN-TECH_100316A: 58** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030151-012AMSD** Method: **A2320 B**
Analysis Date: **03/16/10 20:12** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	730	4.0	600	144.1	98	90	110	739.6	0.7	20	

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Run ID :Run Order: **MAN-TECH_100316A: 80** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A2320 B**
Analysis Date: **03/16/10 21:21** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	95	4.0						95.18	0.3	20	
Bicarbonate as HCO3	120	4.0						116.1	0.3	20	

Associated samples: H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A

Qualifiers:
ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 101** SampType: **Sample Matrix Spike** Sample ID: **H10030179-002AMS** Method: **A2320 B**
Analysis Date: **03/16/10 22:08** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	850	4.0	600	268	97	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 102** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030179-002AMSD** Method: **A2320 B**
Analysis Date: **03/16/10 22:16** Units: **mg/L** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	880	4.0	600	268	102	90	110	852.3	3	20	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 1** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A2510 B**
Analysis Date: **03/16/10 17:21** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	724	1.0	717.5		101	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 4** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2510 B**
Analysis Date: **03/16/10 17:31** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	1430	1.0	1412		101	90	110				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 41** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A2510 B**
Analysis Date: **03/16/10 19:11** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	720	1.0	718		100	90	110				

Associated samples:

Run ID :Run Order: **MAN-TECH_100316A: 71** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A2510 B**
Analysis Date: **03/16/10 20:46** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	721	1.0	718		100	90	110				

Associated samples:

Run ID :Run Order: **MAN-TECH_100316A: 81** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A2510 B**
Analysis Date: **03/16/10 21:21** Units: **umhos/cm** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Conductivity	322	1.0						319.9	0.6	10	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
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N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60860

Date: *30-Mar-10*

Run ID :Run Order: **MAN-TECH_100316A: 2** SampType: **Initial Calibration Verification Standard** Sample ID: **ICV** Method: **A4500-H B**
Analysis Date: **03/16/10 17:24** Units: **s.u.** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.96	0.10	7		99	99	101				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 42** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A4500-H B**
Analysis Date: **03/16/10 19:14** Units: **s.u.** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.00	0.10	7		100	99	101				

Associated samples: **H10030163-001A**

Run ID :Run Order: **MAN-TECH_100316A: 72** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **A4500-H B**
Analysis Date: **03/16/10 20:49** Units: **s.u.** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.00	0.10	7		100	99	101				

Associated samples: **H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 75** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A4500-H B**
Analysis Date: **03/16/10 20:59** Units: **s.u.** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.98	0.10	7		100	99	101				

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Run ID :Run Order: **MAN-TECH_100316A: 82** SampType: **Sample Duplicate** Sample ID: **H10030163-002ADUP** Method: **A4500-H B**
Analysis Date: **03/16/10 21:21** Units: **s.u.** Prep Info: Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.94	0.10						7.93	0.1	2	

Associated samples: **H10030163-001A; H10030163-002A; H10030163-003A; H10030163-004A; H10030163-005A; H10030163-006A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60920

Date: 30-Mar-10

Run ID :Run Order: **PSA MILLENNIUM_100318E: 5** SampType: **Initial Calibration Verification Standard** Sample ID: **AS100318-ICV** Method: **E1632AM**
Analysis Date: **03/18/10 14:06** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	27.8	5.0	25		111	87.6	114				
Arsenic-V	22.8	5.0	25		91	87	116				

Associated samples: H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D

Run ID :Run Order: **PSA MILLENNIUM_100318E: 8** SampType: **Continuing Calibration Verification Standard** Sample ID: **AS100318-50** Method: **E1632AM**
Analysis Date: **03/18/10 14:21** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	47.3	5.0	50		95	85	115				
Arsenic-V	53.0	5.0	50		106	85	115				

Associated samples: H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D

Run ID :Run Order: **PSA MILLENNIUM_100318E: 9** SampType: **Initial Calibration Blank, Instrument Blank** Sample ID: **ICB_13r** Method: **E1632AM**
Analysis Date: **03/18/10 14:26** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	ND	5.0				0	0				
Arsenic-V	ND	5.0				0	0				

Associated samples: H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D

Run ID :Run Order: **PSA MILLENNIUM_100318E: 10** SampType: **Laboratory Fortified Blank** Sample ID: **AS100318-LFB** Method: **E1632AM**
Analysis Date: **03/18/10 14:32** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	50.5	5.0	50		101	55	146				
Arsenic-V	49.2	5.0	50		98	55	146				

Associated samples: H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D

Run ID :Run Order: **PSA MILLENNIUM_100318E: 15** SampType: **Sample Matrix Spike** Sample ID: **H10030163-002D MS** Method: **E1632AM**
Analysis Date: **03/18/10 14:58** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	58	5.0	50		117	55	146				
Arsenic-V	80	5.0	50	28.95	101	55	146				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than three times the spike amount

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Client: Montana Environmental Custodial Trust
Work Order: H10030163
Project: Not Indicated

ANALYTICAL QC SUMMARY REPORT

BatchID: R60920

Date: *30-Mar-10*

Run ID :Run Order: **PSA MILLENNIUM_100318E: 15** SampType: **Sample Matrix Spike** Sample ID: **H10030163-002D MS** Method: **E1632AM**
Analysis Date: **03/18/10 14:58** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 16** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10030163-002D MSD** Method: **E1632AM**
Analysis Date: **03/18/10 15:03** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	68	5.0	50		135	55	146	58.44	14	20	
Arsenic-V	91	5.0	50	28.95	123	55	146	79.58	13	20	

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Run ID :Run Order: **PSA MILLENNIUM_100318E: 21** SampType: **Sample Duplicate** Sample ID: **H10030163-006D DUP** Method: **E1632AM**
Analysis Date: **03/18/10 15:29** Units: **ug/L** Prep Info: Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic-III	ND	5.0								20	
Arsenic-V	ND	5.0								20	

Associated samples: **H10030163-002D; H10030163-003D; H10030163-004D; H10030163-005D; H10030163-006D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount