

NON CONFIDENTIAL

RICHARD E. BLUBAUGH
Vice President – Environmental
Health and Safety Resources

POWERTECH (USA) Inc.

RECEIVED

MAR 04 2009
Division of Reclamation,
Mining and Safety

March 4, 2009

Allen C. Sorenson
Senior Environmental Protection Specialist
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

**RE: Request for Modification to Notice of Intent (NOI) File No. P-2008-043
Centennial Uranium Project, Weld County, Colorado**

Dear Mr. Sorenson:

Powertech (USA) Inc. (Powertech) hereby requests the Division of Reclamation, Mining and Safety (DRMS) to make a modification to the Notice of Intent (NOI) File No. P-2008-043 that allows Powertech to conduct prospecting in connection with the Centennial Uranium Project in Weld County, Colorado (the Project). The initial NOI was submitted to the DRMS on June 23, 2008 and the final Authorization to Proceed was granted on August 27, 2008 by the DRMS. A modification to the initial NOI was submitted to the DRMS on September 16, 2008 and DRMS' approval of the modified NOI was granted on October 22, 2008, with an Authorization to Proceed pending placement of the surety bond.

Approved prospecting activities covered under NOI File No. P-2008-043 includes:

- Install two (2) groundwater monitoring wells for baseline environmental data collection.
- Advance eight (8) exploration boreholes to delineate uranium resource in the project area.

Approved prospecting activities within NOI File No. P-2008-043 Modification #1 includes:

- Install fifteen (15) groundwater monitoring wells for baseline environmental data collection.
- Advance one (1) exploration borehole/core to delineate uranium resource in the project area.

Proposed prospecting activities included in this modification to the NOI include:

- Construction of an off-channel pit designed to totally contain water produced during hydrogeological aquifer testing. Produced water will evaporate and infiltrate through the substratum underlying the pit location, and ultimately disperse into the atmosphere and throughout bedrock.

Powertech intends on conducting an aquifer pumping test in Section 33 of Township 10 North and Range 67 West during April, 2009, in order to determine hydrogeologic properties of sedimentary rock units that host uranium mineralization as well as adjacent rock units. Groundwater will be pumped from the target sand unit at a rate of 20 gallons per minute for a maximum duration of 6 days, resulting in a total water discharge quantity of 172,800 gallons. Discharged water will be routed via a pipeline to an off-channel infiltration pit located adjacent to the pumping well. Attachments A and B of this report displays the tabulated and physical location characteristics of the off-channel pit.

The design of the off-channel water infiltration pit is included as Attachment C. The excavated portion of the pit will totally contain a maximum volume of 190,384 gallons of water. Preliminary hydrogeologic modeling suggests that a desired aquifer response will occur after 144 hours of pumping at 20 gallons per minute, for a total water production value of 172,800 gallons. These water production calculations result in the proposed excavated portion of the pit being fully adequate to contain all produced water. Excavated subsoil will be utilized to construct a 5.5 foot tall berm around the entire perimeter of the excavated pit to provide additional freeboard, and to account for potential water inputs from unusually high-intensity storm events. It should also be pointed out that a moderate percentage of water discharged into the pit will be lost to infiltration and evaporation during the course of the pump test.

For reclamation and surety bond calculations, Attachments C and D show the total surface disturbance that will take place during the construction and utilization of the off-channel infiltration pit, as well as other site specific information such as pit location photographs. Following utilization of the constructed facilities, the pit will be filled back in with excavated backfill material and topped off with the segregated topsoil. Powertech will comply with DRMS requirements related to the sampling of mud pits during reclamation activities associated with the off-channel infiltration pit.

These requirements state:

- *The concentration of radium-226 or radium-228 in soil may not exceed the background level by more than 5 picocuries per gram (pCi/g) or 0.185 becquerels per gram (Bq/g), averaged over the first 15 centimeters (cm) of soil below the surface; and*
- *The concentration of natural uranium in soil, with no radioactive decay products present may not exceed the background level by more than 30 pCi/g or 1.11 Bq/g, averaged over the top 15 cm of soil below the surface; and 150 pCi/g or 5.55 Bq/g, average concentration at depths greater than 15 cm below the surface, so that no individual member of the public will receive an effective dose equivalent in excess of 100 mrem per year or 1 millisievert (mSv) per year.*

The DRMS will require test results demonstrating that these limits have not been exceeded; the tests are to be conducted during or immediately following the reclamation of the mud pits. If these limits are exceeded, DRMS may require appropriate off site disposal of mud pit contents.

Following the backfilling of the pit with excavated material, the area will be graded to conform to the original topography and re-seeded to the specifications outlined in the NOI application for this modification.

At the request of DRMS, also included in this modification proposal as Attachment E are groundwater quality analytical results from the target sand unit (A2 Sand – Sample IS-003T) in which the pump test well will produce from, as well as from the uppermost aquifer below the ground surface (Upper Laramie Formation – Sample IS-003Ta). In addition, Attachment E includes a groundwater chemical mixing analysis for several constituents, with a particular interest in uranium and radium concentrations, which are slightly elevated within the aquifer from which the pump test well will produce water. It should be noted that the sample analytical results provided in this report are not from wells planned to be used during the pump test, but are from wells located about 500 feet away. During the pump test, water quality samples will be obtained from the produced water.

The Laramie Formation aquifer is the uppermost aquifer below the ground surface where the off-channel infiltration pit is located. Groundwater within the Laramie occurs about 100 feet below the ground surface, and the lowermost contact of the Laramie Formation with the Upper Fox Hills Formation exists at about 434 feet below ground surface. Attachment E includes a dilution chemical mixing analysis that quantifies the resulting water quality when mixing the discharged pump test water volume with the uppermost Laramie Formation aquifer utilizing 2 separate dilution factors. As can be seen from the results of the dilution mixing analysis, in the unlikely event that the dissolved chemical constituent

concentrations of the A2 produced water were to remain constant, and that the entire produced volume of A2 water were to infiltrate through the subsurface to mix with the Laramie Formation aquifer, the resultant A2 water quality would dramatically improve when mixed with even a small volume of the saturated Laramie Formation. In fact, due to the very low total dissolved solid (TDS) concentration of the produced A2 water, the mixing analysis shows that the resultant TDS value would be markedly decreased if the pump test produced water were to mix with the saturated Laramie Formation.

It should be noted, however, that it is extremely unlikely that the produced A2 water will ever mix with the Laramie Formation aquifer in the quantity or quality presented in the mixing calculations. The unsaturated distance between the infiltration pit and the saturated zone of the Laramie Formation is about 100 feet, and the stratigraphy of the unsaturated zone is complex with inter-bedded zones of mudstone and coal. Due to the unique geochemical properties of constituents such as uranium and radium, these elements will react with the surrounding sedimentary mineral assemblages, and will immediately replace other elements and become immobile during the infiltration process. In addition, a percentage of the produced water will evaporate during infiltration into the unsaturated zone of the Laramie Formation.

Please find the enclosed confidential and public DRMS application forms and attachments for NOI modification, along with a check for the \$86.00 application fee. Powertech is hereby requesting that the DRMS review and approve NOI modifications to file number P-2008-043 at your earliest opportunity. Below is a list of attachments to aid the DRMS in their review.

- Attachment A – Tabulated location information of the off-channel water infiltration pit.
- Attachment B – Centennial project area map showing the location of the off-channel water infiltration pit.
- Attachment C – Design of the proposed off-channel water infiltration pit.
- Attachment D – Additional site specific information of the proposed off-channel water infiltration pit location. This attachment includes two photographs of the site as well as vegetation information and disturbance calculations.
- Attachment E – Water quality analytical results for the A2 pump test water and the uppermost Laramie Formation aquifer. Also included in attachment E is an A2 sand and Laramie Formation groundwater dilution mixing analysis.

If you have any questions or require additional information, please feel free to contact Richard Blubaugh at (303)790-7528 or Michael Beshore at (970)556-5988.

Sincerely,



Richard E. Blubaugh
Vice President-Environmental Health & Safety Resources

Enclosures

cc: J. Mays
T. Walsh
M. Beshore

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215

Denver, Colorado 80203

Phone: (303) 866-3567

FAX: (303) 832-8106



Form 2 Public information only For public filing

NOTICE OF INTENT TO CONDUCT PROSPECTING OPERATIONS FOR HARD ROCK/METAL MINES

Bill Ritter, Jr.
Governor

Harris D. Sherman
Executive Director

Ronald W. Cattany
Division Director
Natural Resource Trustee

GENERAL:

To conduct prospecting activities in the State of Colorado, a person or organization must file a Notice of Intent to conduct Prospecting Operations (NOI or Prospecting Notice) and provide a financial warranty for the prospecting operations to the Mined Land Reclamation Board (MLRB or Board). All prospecting operations must comply with the Colorado Mined Land Reclamation Act, as amended (34-32-101 et seq. C.R.S.), and the Colorado Mined Land Reclamation Board Hard Rock/Metal Mines Rules and Regulations 2 CCR 407-1 and amendments to those rules ("Rules"). This NOI form is for all minerals except coal and construction materials. The Division shall determine (where there is a question) if an operation is prospecting or mining.

The New Law:

Senate Bill (SB) 228 became law on June 2, 2008.

SB 228 revised portions of C.R.S. 34-32-113 pertaining to confidentiality and filing requirements of Prospecting Notices.

Certain aspects of Prospecting Notices will no longer be confidential.

As revised, C.R.S. 34-32-113 (3) now requires, in part, that "All information provided to the Board in a notice of intent to conduct prospecting or a modification of such a notice is a matter of public record subject to the Open Records Act, Part 2 of Article 72 of Title 24, C.R.S., including, in the case of a modification, the original notice of intent; except that information relating to the mineral deposit location, size, or nature and, as determined by the Board, other information designated by the operator as proprietary or trade secrets or that would cause substantial harm to the competitive position of the operator shall be protected as confidential information by the Board and shall not be a matter of public record in the absence of a written release from the operator or until a finding by the Board that reclamation is satisfactory. Such information designated as exempt shall remain confidential until a final determination by the Board". If the Board determines that information is not confidential, the Division shall treat it as public information thirty (30) days from the Board's written order.

C.R.S. 34-32-113 (9) now requires that the applicant provide the NOI in an electronic version in addition to the paper form and that DRMS post on the Division's website the NOI upon submittal. Specifically, this subsection states: "Upon the submittal of a notice of intent to conduct prospecting or a modification of such a notice, the person submitting such notice or modification shall give an electronic version of the notice or

modification, except for that information exempted from public disclosure under subsection (3) of this section and that information designated by the person as exempt from disclosure under subsection (3) of this section, to the Board in a format determined by the Board. The Division shall post such version of the notice or modification on its web site”.

The new requirements apply to NOIs or modifications thereto submitted or approved on or after June 2, 2008.

DEFINITION:

“Prospecting” is defined in Rule 1.1(43) of the Hard Rock/Metal Mining Rules and Regulations as the act of searching for or investigating a mineral deposit. “Prospecting” includes, but is not limited to, sinking shafts, tunneling, drilling core and bore holes and digging pits or cuts and other works for the purpose of extracting samples prior to the commencement of development or extraction operations, and the building of roads, access ways, and other facilities related to such work. The term does not include those activities which cause very little or no disturbance, such as airborne surveys and photographs, use of instruments or devices which are hand-carried or otherwise transported over the surface to make magnetic, radioactive, or other tests and measurements, boundary or claim surveying, location work, or other work which causes no greater land disturbance than is caused by the ordinary, lawful use of the land by persons not prospecting. The term does not include any single activity which results in the disturbance of a single block of land totaling 1600 square feet or less of the land surface, not to exceed two such disturbances per acre; except that the cumulative total of such disturbances will not exceed five acres statewide in any prospecting operation extending over 24 consecutive months” (*Rule 1.1.43*).

APPLICATION FEE: \$86

NOIs require a **\$86** fee, which must accompany this notice or it cannot be processed by the Division (*C.R.S. 34-32-127(2)(a) (I) (K)*).

RECOMMENDATIONS PRIOR TO FILING:

The Hard Rock/Metal Mining Rules and Regulations, the Colorado Mined Land Reclamation Act 34-32-101 and the Colorado Mined Land Reclamation Board regulate the filing, operational and reclamation requirements for prospecting operations in Colorado. It is your obligation to comply with the Act and Regulations. You are encouraged to obtain and review a copy of the Rules, available from the Division or accessed on line at www.mining.state.co.us. In order to file your NOI properly it is recommended that you review the Act and;

- Rule 1.1 Definitions
- Rule 3.1 Reclamation Performance Standards
- Rule 3.3.1 Operating without an NOI - Penalty
- Rule 4 Financial Warranties
- Rule 5 Prospecting Requirements

FILING REQUIREMENTS:

If you plan to conduct prospecting on any lands in Colorado, you must provide all information described in this form. To file an NOI, submit the following;

- One (1) signed and completed NOI form with maps and attachments (original signatures must be done in blue ink);
- One (1) unbound copy of the original NOI form with maps and attachments;
- Application fee; and
- Financial Warranty and applicable warranty form.
- New and additional filings required for SB 228 confidentiality designations.

New and Additional NOI Filing Requirements for Confidentiality Designations:

1. Applicants of NOIs must specifically designate each portion of the submittal that the applicant believes should be confidential. This designation must comply with the provisions of SB228 as discussed above and should include not only information relating to the mineral deposit location, size, or nature but also other information the applicant believes is proprietary or trade secrets or that would cause substantial harm to the competitive position of the applicant. The applicant should distinguish in the submittal between those portions of the NOI that are confidential because they relate to the mineral deposit and those portions that the applicant believes are proprietary, trade secret or harmful to its competitive position. Those portions of the submittal that are not designated as confidential will be available as public record

2. The applicant must submit two separate forms. One form will contain all information, including both public and confidential information (with the confidential information designated as such). This complete form will be used by the DRMS for review and will be held as confidential.

The second form will contain only the information the applicant believes is public with the applicant redacting all information to be held as confidential.

3. The submittals must be provided in both paper and electronic format.

4. All public portions of the submittal will be made available on the Division website and in the Division's public files.

5. All portions of the submittal that are confidential by law, or as designated by the prospector, will remain secured from public access, *i.e.*, not on the website and not in the Division's public files. If the Board rules that some portion of the file should be public, then that portion will be made available and no longer held from public view.

PROCESSING REQUIREMENTS:

The Division will review the NOI and associated Financial Warranty information within twenty (20) working days of receipt by the Division. If the prospector has not been notified of any deficiencies of the NOI Form within twenty (20) working days of receipt, prospecting operations may commence upon approval of the financial warranty. The Prospector has 60 days from the date of filing to correct any deficiencies. For activities on BLM or USFS Lands, the twenty (20) working-day period begins on the day when the appropriate Federal Land Management agency has been notified by the Prospector (see below). Incomplete NOI forms will be terminated and returned to the person or organization, if deficiencies are not corrected within 60 days of filing (*Rule 5.1.3*).

The New Review Process Regarding Confidentiality Designations

Hard Rock Rule 5.1.3 (Office Review) will apply. This rule will guide office review of determinations regarding confidentiality designations. The Division will review the submittal for technical adequacy as stated above, including the review of the submittal in regard to information the applicant has designated as confidential. If the Division identifies any deficiencies in the submittal including any disagreement regarding the designation of confidential materials, then the prospector will be notified by the Division within 20 working days of NOI receipt.

Disputes relating to designation of confidentiality may be resolved by the Prospector removing the confidentiality designation by the Prospector or by Board determination. If the Prospector chooses to request a Board determination regarding confidentiality, then the Prospector must request a Board hearing and determination within the 30 days following Division notification of the Division's disagreement as to any confidentiality designation. The request for determination will follow the procedures of Rule 1.4.11, and any Board hearing will be held in Executive Session since issues of confidentiality will be at issue. The DRMS will not issue an approval decision and the applicant is not authorized to commence prospecting operations until all deficiencies, including confidentiality issues, are resolved.

PROSPECTING ON FEDERAL LAND:

The Division has entered into cooperative agreements with the U.S. Bureau of Land Management (BLM) or the U.S. Forest Service (USFS) to coordinate the review of NOIs and the posting of financial warranties. The primary goal is to ensure that the agencies minimize duplication of functions and thereby minimize regulatory duplication imposed upon prospecting operations. The Division assumes the primary responsibility for the administration, review, and permitting of NOIs. The prospector is required to document that the NOI has been sent to the BLM or the USFS. Upon receipt of the NOI, the Division will notify the appropriate BLM or USFS office and forward a copy of the NOI. Processing of the NOI will not begin until the prospector has submitted evidence acceptable to the Division that the NOI was sent to the BLM or USFS.

FINANCIAL WARRANTY:

A financial warranty must be provided and approved prior to the entry upon lands for the purpose of prospecting. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Prospecting Financial Warranty." The One Site Prospecting Financial Warranty is usually filed by individuals or small companies where prospecting activities are limited to a single area. It must be filed in the amount of \$2,000 per acre for the land to be disturbed, or such other amount as determined by the Division, based on the projected costs of reclamation, taking into account the nature, extent, and duration of the prospecting operation and the magnitude, type and estimated cost of the planned reclamation. A Statewide Financial Warranty is usually filed by larger companies with multiple prospecting sites. It must be filed in an amount equal to the estimated cost of reclamation per acre of affected land for all anticipated sites statewide. (You may increase the Statewide bond at any time in order to cover additional or expanded prospecting activities.) **The financial warranty must be submitted and approved by the Division prior to entry upon lands for the purpose of prospecting.** The financial warranty will be retained by the Board until the prospector has completed reclamation of the prospecting site and has been released, in writing, of reclamation responsibility. Financial warranty forms can be downloaded from the Division's Internet web page located at mining.state.co.us.

PLAN MODIFICATIONS:

Modifications to an existing NOI must be submitted in writing and approved in advance of such activity. Modifications shall be reviewed by the Board or Office in the same manner as new NOIs, use the same NOI form, and include confidentiality designations. Prospectors must fill out sections of the NOI form that will change and indicate the sections that will not change. Prospectors must designate each portion of the modified NOI they believe are to remain confidential. Please note that under SB 228, all information provided to the Board in an NOI or a modification of an NOI is a matter of public record including, in the case of a modification, the original notice of intent, unless that information relates to the mineral deposit location, size, or nature or is designated by the Prospector as proprietary or trade secrets or that would cause substantial harm to the competitive position of the Prospector. Accordingly, the Prospector should also designate the information in the original NOI that it believes is confidential if it has not already done so.

The Board shall determine (where there is a question) if an NOI can be modified or requires the filing of a new NOI in accordance with Rule 1.4.11. If the Division determines that the proposed modification (or new NOI) requires the posting of an additional reclamation bond amount to cover increased costs of reclamation caused by the modification (or new NOI), the NOI holder must submit and the Division must approve the supplemental or additional bond to cover such increased reclamation costs before the NOI holder may undertake any additional or different activities described in the modification

(or new NOI). A separate prospecting notice shall be filed with the Office for each non-contiguous land survey quarter section in which a proposed prospecting activity is to occur. The requirement for separate notices may be waived by the Office for good cause (*Rule 5.1.1*).

ANNUAL REPORTS:

Annual Reports are required for all active prospecting operations effective on December 31, 2006. **By December 31 of each year that the NOI is in effect, the prospector must file an annual reclamation report detailing the exploration and reclamation activities that occurred during that year and whether prospecting has been completed.** For the purpose of reporting prospecting activities, the reporting year shall begin on November 1 and end on October 31. **The report must be accompanied by an annual fee in the amount of \$86.**

RECLAMATION:

Reclamation shall be completed in a timely manner and within five (5) years of completion of prospecting activities. The time period to complete site reclamation commences on the date that prospecting has been completed, as stated in the Annual Report (*Rule 5.1.2(g)*). New or significantly upgraded roads, structures, or other features on private lands that are planned to be retained following prospecting may be identified in the NOI submittal and may be excluded from the financial warranty amount at the discretion of the office. The prospector must submit a notarized letter from the landowner requesting that the roads, structures or other features remain on site and demonstrate that it meets the applicable County zoning and code requirements.

RELEASE OF FINANCIAL WARRANTY AND TERMINATION OF THE NOI:

Upon completion of any phase of reclamation, you should consult Rule 3.1 for reclamation standards and Rule 4.15 for details on how to request a reclamation responsibility release from the MLRB. Following the completion of reclamation, the prospector may request a release of the reclamation responsibility sent by certified mail. The Division will conduct an inspection within 30 days of receiving the request (or as soon thereafter as weather conditions permit). If the operation is located on Public Land or State Land, the Division will coordinate the inspection with the appropriate land management agency (*Rules 3.1 and 4.1.5*).

COMPLIANCE WITH OTHER LAWS:

Compliance with the Act and Rules and Regulations of the Mined Land Reclamation Board does not relieve you of responsibility to comply with all other applicable local, state and federal laws. We recommend that you contact the following agencies and any others to determine whether you need to comply with their legal requirements:

- The Colorado State Historical Preservation Office regarding properties of potential historical significance;
- Colorado Division of Water Resources regarding water rights;
- Colorado Department of Public Health and the Environment, Water Quality Control Division, regarding the potential to discharge pollutants into the State waters;
- Colorado Department of Public Health and the Environment, Air Pollution Control Division, with regard to the potential need for a fugitive dust permit;
- U.S. Bureau of Land Management or the U.S. Forest Service if the proposed operation is on federal lands;
- U.S. Army Corps of Engineers regarding a dredge and fill (404) permit; and
- The County Planning Department for the county or counties in which the proposed operation is located.

AUTHORIZED SIGNATURE:

You, or a person authorized by you, must sign the NOI. By doing so you are stating that the information provided in the NOI is true and correct as of the date specified. For individuals, the NOI must be signed by the NOI holder or the person authorized to sign on the NOI holder's behalf. For companies or partnerships, the NOI must be signed by a person acting under the company's/partnership's express or implied authority, or by an authorized agent.

SUBMIT COMPLETED NOIs TO ONE OF THE OFFICES BELOW:

Denver Office (main):
Division of Reclamation, Mining and Safety
1313 Sherman St., Rm. 215
Denver, CO 80203
Telephone: 303.866.3567
FAX: 303.832.8106

Grand Junction Field Office:
Division of Reclamation, Mining and Safety
101 South 3rd, Ste. 301
Grand Junction, CO 81501
Telephone: 970.243.6368
FAX: 970.241.1516

Durango Field Office:
Division of Reclamation, Mining and Safety
701 Camino Del Rio, Rm. 125
Durango, CO 81301
Telephone: 970.247.5469
FAX: 970.247.5104

Office hours are Monday to Friday, 8:00 a.m. to 5:00 p.m., excluding State Holidays.

Form 2 (Public File)
NOTICE OF INTENT TO CONDUCT PROSPECTING OPERATIONS
FOR HARD ROCK/METAL MINES

CHECK ONE: _____ **There is an NOI Number Already Assigned to this Operation**
NOI# P- _____ (Please reference the file number assigned to this operation)
_____ **New NOI**
 Modification to an Existing NOI
NOI# P- 2008-043 (Provide for **Modifications** to an existing NOI)

GENERAL OPERATION INFORMATION

Type or print clearly, in the space provided, ALL information described below.

I. GENERAL INFORMATION

1. **DATE NOI RECEIVED BY THE DIVISION:** _____ (office use only)
2. **PROJECT NAME:** Centennial Uranium Project, Weld County, CO
3. **PROSPECTOR:**
- | | |
|---|---|
| Name: <u>Richard Blubaugh</u>
Title: <u>V.P. EH&S Resources</u>
Company Name: <u>Powertech (USA) Inc.</u>
Street: <u>5575 DTC Pkwy, Suite 140</u>
P.O. Box: _____
City: <u>Greenwood Village</u>
State: <u>Colorado</u>
Zip Code: <u>80111</u>
Telephone Number: <u>(303) 790-7528</u>
Fax Number: <u>(303) 790-3885</u> | PERSON MLRB SHOULD CONTACT:
Name: <u>Richard Blubaugh</u>
Title: <u>V.P. EH&S Resources</u>
Company Name: <u>Powertech (USA) Inc.</u>
Street: <u>5575 DTC Pkwy, Suite 140</u>
P.O. Box: _____
City: <u>Greenwood Village</u>
State: <u>Colorado</u>
Zip Code: <u>80111</u>
Telephone Number: <u>(303) 790-7528</u>
Fax Number: <u>(303) 790-3885</u> |
|---|---|
4. **APPLICATION FEE:** \$86. (NOIs require a \$86 fee which must accompany this notice or it cannot be processed by the Division).
5. **LOCATION INFORMATION:**
County: Weld
PRINCIPAL MERIDIAN (check one) 6th (Colorado) _____ 10th (New Mexico) _____ (Ute)
SECTION (write number): S 33

2 (Form 2- Public)

TOWNSHIP (write number and check direction) T 10 North X South

RANGE (write number and check direction) R 67 East West X

QUARTER SECTION (check one): NE NW SE SW

QUARTER/QUARTER SECTION (check one): NE NW SE SW

GENERAL DESCRIPTION: (the number of miles and direction to the nearest town and the approximate elevation):

Approximately 7 miles southeast to the town of Nunn, Colorado.

Approximate elevation of prospecting location = 5560 feet.

NOTE: Supply longitude and latitude or UTM coordinates if lands have not been surveyed or as supplemental information to this NOI. GPS measurements will be acceptable for this purpose: See Attachment A

6. LAND OWNERSHIP

Private X Public Domain (BLM) National Forest (USFS) State State Sovereign Lands Other (please describe):

If prospecting is located on BLM or USFS land the remaining section must be completed, otherwise go to section II Maps & Drawings

7. PROSPECTING ON BUREAU OF LAND MANAGEMENT (BLM) LAND AND U.S. FOREST SERVICE (USFS) LAND

The Division and the BLM/USFS have entered into cooperative agreements that eliminate the need for a prospector to post a financial warranty with each agency and allow them to coordinate the review of the NOI in order to minimize administrative processing time and effort.

A. CLAIMANT:

Name: N/A

Address:

Telephone:

Fax Number:

B. SITE/CLAIM INFORMATION:

List names, serial numbers and provide legal description to nearest quarter-quarter section of all sites or claims (attach additional page, if necessary).

Table with 3 columns: NAME, SERIAL NUMBER, LEGAL DESCRIPTION. Row 1: N/A

C. **LOCATION MAP:** Attach a USGS 7.5 minute quad, or similar map of adequate scale, which locates the prospecting site(s). N/A

D. Are prospect sites (e.g., drill holes, trench locations, etc...) staked on the ground? Yes _____ No _____ N/A

E. Specify the Land Management Agency, Address and Telephone Number:

N/A

F. The prospector is required to document that the NOI has been sent to the BLM or the USFS. Processing of the NOI will not begin until the prospector has submitted evidence acceptable to the Division that the NOI was sent to the BLM or USFS. Check one: N/A

_____ Evidence of notification is attached to this NOI for BLM Land

_____ Evidence of notification is attached to this NOI for USFS Land.

_____ Other proof of notice is attached to this NOI

II. MAPS & DRAWINGS

Accurate topographic base map showing the location of the proposed project must be submitted with this notice. The prospector may submit a U.S.G.S. 7.5 minute quadrangle, or similar map of adequate scale that: Refer to Attachment B

1. identifies the proposed prospecting site(s) or activity areas involving surface disturbance. Activity areas include all drill holes, mud pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads, and
2. includes sufficient detail to identify and locate known prospecting features and facilities that may be affected and those that are not anticipated to be affected. This includes the location of all drill holes, mud pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads. Color photographs, adequately labeled (including date, orientation and location), of the prospecting site may be used to fulfill this requirement if included with the NOI submittal.

III PROJECT DESCRIPTION

1. Mineral(s) and/or Resource(s) being Investigated: Groundwater & Uranium

2. Estimated dates of commencement and completion:

Commencement: March 20th, 2009

Completion: August 1st, 2009

3. Amount of material to be extracted, moved or proposed to be moved: Total = 1,292 cubic yards

4. Identify the type or method of prospecting proposed and quantity (place an "X")

_____ Cuts X (1) Pits _____ Trenches X Aquifer Testing

_____ Shafts _____ Tunnels _____ Adits _____ Declines

_____ Air Drilling _____ Fluid Drilling _____ Drilling & Blasting

4 (Form 2- Public)

5. Describe proposed surface excavation or other land disturbance, including roads, pits, trenches, waste piles, drill pads and collar areas of underground workings, ponds, etc...

An off-channel infiltration pit will be excavated using an excavator and loader. Excavated backfill material and topsoil will be separated and stockpiled adjacent to the pit. Refer to Attachment C for excavated pit design and soil stockpile criteria.

6. **Proposed Disturbance** (approximate) Describe the proposed drilling to be conducted, including anticipated number of holes, diameter, depth, location, etc... Submit additional pages if necessary:

A. Drill Pads: Quantity _____ Average Width _____ (ft) Average Length _____ (ft)

B. Drill Holes: Quantity _____ Depth _____ (ft) Diameter _____ (in)

C. Mud Pits: Quantity _____ Average Width _____ (ft) Average Length _____ (ft)
Average Depth _____ (ft) Refer to Attachments C & D for off-channel

infiltration pit disturbance details.
Described proposed underground work, including reopening of old workings, advancement of adits or shafts, trenches, pits, cuts, rock dumps, or other types of disturbance, describe type, quantity and general dimensions:

Proposed activity will consist of the construction of one off-channel water infiltration pit for hydrogeologic investigations. Soils will be stockpiled adjacent to the structure, and topsoil will be stockpiled separately. Refer to Attachments C & D for additional surface disturbance details.

D. Other Disturbances (please describe):

Additional surface disturbance may or may not take place from heavy machinery working around the proposed site. This potential disturbance has been compensated for by designating a 20 foot wide area that encircles the entire site. Refer to Attachments C & D for surface disturbance details.

E. Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.

None.

F. New Road(s): Length _____ (ft) Width _____ (ft)

Significantly Upgraded Road(s) Length _____ (ft) Width _____ (ft)

Are culverts or other crossings proposed? If so, please describe: _____

None. No new roads are planned. Access to the site will be from adjacent existing roads. Only minor damage to existing vegetation may occur during this activity.

G. Total project area to be disturbed 0.630 (acres)

H. Describe the equipment to be used for the prospecting operations:

Excavator - To excavate the off-channel water infiltration pit and to move soils to the stockpile locations.

Loader - For fine grading and to move soils to the stockpile locations.

I. Describe and locate any structures to be constructed (i.e. stockpiles, ponds, impoundments):

Refer to Attachment B for location of the off-channel water infiltration pit. Refer to Attachment C for layout of the infiltration pit and stockpiled soils. Refer to Attachment D for photographs of the pit site and additional site location information.

J. Describe anticipated relationship to surface water and groundwater (proximity to streams, penetration of ground water aquifers):

Surface Water - Site is located off-channel, well away from major drainages and surface water bodies.

Groundwater - Water discharge from hydrogeologic investigations, and stored in the off-channel pit, will be allowed to evaporate to air and infiltrate into the sub-surface to the upper bedrock (Laramie Formation).

IV. OPERATION AND RECLAMATION MEASURES:

1. The Board suggests that a photographic record of the pre-prospecting and post-prospecting conditions be kept by the prospector. These photos should be taken from the same location and by the same method to clearly show the pre-prospecting condition of the land and the reclamation efforts. Upon completion of reclamation and request for bond or surety release, the Board may consider the photos as evidence of adequate reclamation, and thus, be able to act more quickly on the request for release.
2. Provide a description of the native vegetation of the area to be disturbed, including tree, shrub, and grass communities of the area. Color photographs, sufficient to adequately represent the ecology of the site and adequately labeled (including date, orientation and location), may be used in lieu of a written description. Based on the quality of the photographs, the Division may require additional detail.

See Attachment D - Photographs & Description of the Area to be Disturbed.

6 (Form 2- Public)

3. Describe the estimated topsoil depth and how topsoil will be salvaged, stockpiled and redistributed for the re-establishment of vegetation. Specify approximate topsoil redistribution depth:

The topsoil thickness is 6 to 18 inches. Off-channel infiltration pit excavation: strip the area to be excavated of topsoil and stockpile; excavate infiltration pit to the prescribed dimensions and stockpile excavated material separate from top soil. Following pump test completion, the infiltration pit will be backfilled with excavated overburden followed by stockpiled top soil, which will be evenly distributed over the disturbed area to a depth of 6 to 18 inches.

4. Describe how drill holes will be plugged (refer to Rule 5.4 of the Rules for required abandonment procedures):
N/A. No drill holes are proposed under this modification to the 2008-043 Notice of Intent.

5. Describe how portals, adits, shafts, ponds, excavations, or other disturbances will be reclaimed (refer to Rule 3 and Rule 5 for specific reclamation performance standards). You may wish to contact the Division for closure specifications.
Reclamation will consist of backfilling the off-channel infiltration pit (as described in section 3 above) and grading the surface to conform to surrounding grades. The surface of the backfilled areas will be crowned in the center so runoff will not collect over the reclaimed infiltration pit. At the conclusion of grading, the disturbed area will be re-seeded with native vegetation.

6. Describe how roads will be reclaimed or returned to their pre-prospecting (or better) condition:

No roads will be constructed as part of this prospecting effort. Minor disturbance to vegetation resulting from heavy equipment accessing the off-channel infiltration pit site from the adjacent road, will be repaired with hand tools and re-seeded.

7 (Form 2- Public)

7. List the seed mixture to be used in the re-establishment of vegetation. See the attached seed mixture calculation to obtain PLS/acre. For assistance with formulating seed mixtures and rates, contact the local NRCS if on private land, BLM/USFS if on public land or State Land Board if on state land.

A. Provide plant name and seeding rate

Plant Name	Seeding Rate (PLS/acre)
Blue Grama (Lovington)	3.0
Big Bluestem (Kaw)	11.0
Little Bluestem (Pastura)	7.0
Western Wheatgrass (Arriba)	10.0
Yellow Indian Grass (Nebraska 28)	1.0
Total	32.0 lbs/acre

B. Describe the method for seed bed preparation, and application method for grass/forb seeding:

The seed will be sown by broadcast-type seeders and "raked in" or otherwise covered with topsoil to a depth of about 1/4 inch. Seed will not be sown in windy conditions or when the ground is frozen. After seeding has been completed, hay or straw mulch will be uniformly placed at a rate of 1/2 lb/square yard.

V. TERMS AND CONDITIONS FOR PROSPECTING OPERATIONS:

1. Reclamation measures shall be fulfilled in a timely manner and completed within five (5) years of completion of prospecting activities.
2. The prospecting operations described in this Notice will be conducted in such a manner as to minimize surface disturbances. In addition to the measures required in Rule 5, precautions to be taken include:
 - A. Confinement of operations to areas near existing roads or trails, where practicable. Existing roads which are to remain as permanent roads after prospecting activities are completed shall be left in a condition equal to or better than the pre-prospecting condition;
 - B. Drilling shall be conducted in such a way as to prevent cuttings and fluids from directly entering any dry or flowing stream channel. Drill cuttings must be spread to a depth no greater than one-half (1/2) inch or buried in an approved disposal pit;

8 (Form 2- Public)

- C. Proper and timely abandonment of drill holes upon completion of drilling;
 - D. Reclamation of affected lands upon completion of operations or phases of an operation;
 - E. Backfilling and revegetating any pits to blend in with the surrounding land surface;
 - F. Safeguarding mine entries, trenches and excavations from unauthorized entry at all times;
 - G. Disposal of any trash, scrap metal, wood, machinery, and buildings;
 - H. Control of noxious weeds within the area affected by the prospector
3. The prospecting operations shall be conducted in such a manner as to comply with all applicable local, state and federal laws and regulations including applicable state and federal air and water quality laws and regulations.
 4. The prospecting operations shall be conducted so as to minimize adverse effects upon wildlife to include covering of open drill holes until properly plugged.
 5. During the prospecting operations, the operator will perform the necessary stabilization and reclamation work to ensure those areas affected by prospecting activities are erosionally and geotechnically stable.
 6. All prospecting operations shall be in compliance with the Colorado Mined Land Reclamation Act, as amended (34-32-101 et seq. C.R.S.), and all rules and regulations currently in effect or promulgated pursuant thereto. See 2 CCR 407-1, Mined Land Reclamation Board Hardrock /Metal Mining Rules.

VI. ADDITIONAL TERMS AND CONDITIONS FOR PROSPECTING ON BLM/USFS LANDS

1. The prospector will supply a copy of this NOI to the appropriate BLM and/or USFS office.
2. The prospector authorizes the MLRB to discuss the information in this Notice of Intent with the BLM and/or USFS.
3. If on BLM land, the prospector will complete reclamation to the standards described in 43 CFR 3809.1-3 (d) and implement reasonable measures to prevent unnecessary or undue degradation of lands during operations.

VII. FINANCIAL WARRANTY

A financial warranty must be provided for the cost of reclamation of the disturbance described in this Notice. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Financial Warranty." **The financial warranty must be submitted and approved by the Division prior to entry upon lands for the purpose of prospecting.**

An One-Site Prospecting Financial Warranty is usually filed by individuals or companies where prospecting activities are limited to a single area. It must be filed in the amount of \$2,000 per acre for land to be disturbed, or such other amount as determined by the Division, based on the projected costs of reclamation. A Statewide Financial Warranty is usually filed by companies with multiple prospecting sites. It must be filed in an amount equal to the estimated cost of reclamation per acre of affected land for all anticipated sites statewide. (You may increase the Statewide bond at any time in order to cover additional or expanded prospecting activities.)

VIII. SIGNATURE REQUIREMENT

Please place you initials on the line provided:

RLB

I hereby verify that the foregoing information is true and accurate and commit to the reclamation of the aforementioned prospecting site as required by the Colorado Mined Reclamation Act and the rules as specified in the Hard Rock/Metal Mining Rules and Regulations and this NOI form.

RLB

I have enclosed the required permit fee.

RLB

I authorize the Division to contact and copy the BLM and/or USFS on any correspondence related to the prospecting operation, if the prospecting operation is located on federal public land.

RLB

I have also enclosed the appropriate reclamation surety amount or will post an amount as determined by the office, based on the projected costs of reclamation.

RLB

I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Reclamation, Mining and Safety.

RLB

I accept and agree to comply with the foregoing terms and conditions and with all of the provisions of Rules 3 and 5, and C.R.S. 34-32-101.

This form has been approved by the Mined Land Reclamation Board pursuant to section 34-32-113, C.R.S., of the Mined Land Reclamation Act. Any alteration or modification of this form shall result in voiding any NOI issued on the altered or modified form and subject the operator to cease and desist orders and civil penalties for operating without a NOI pursuant to section 34-32-123, C.R.S.

I, the undersigned, being the NOI holder or the person authorized to sign on behalf of the NOI holder, declare that the information given in this NOI form is true and correct.

SIGNATURES MUST BE IN BLUE INK

Signed and dated this 4th day of March 2009

Signature of NOI holder or person authorized to sign:

Richard Blubaugh

Name (typed or print) Richard Blubaugh

Title/Position: V.P. EH&S Resources

Attachment A: Location of the Off-Channel Water Infiltration Pit

ID	ACTIVITY	NORTHING (NAD-27 CO-N)	EASTING (NAD- 27 CO-N)	SEC-TOWNSHIP- RANGE	ESTIMATED DEPTH (FT)
IN08-33-PIT1	Section 33 Pump Test #1 Off-Channel Water Infiltration Pit	531,812.85	2,168,436.70	33-T10N-R67W	10

Pumping Test Conditions

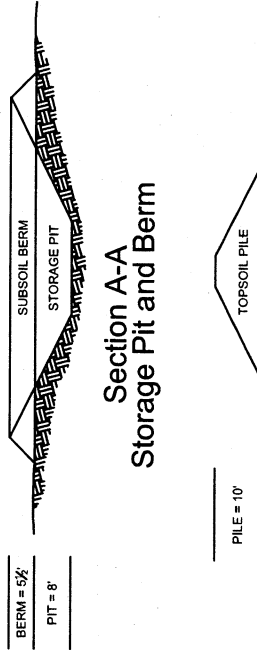
Pumping test discharge = 20 gallons/minute
 Test duration = 6 days
 Total capacity required = 172,800 gallons
 Minimum freeboard = 2 feet

Storage Pit Volume Calculations

Pit depth = 8 feet
 Pit volume at 8 foot depth = 190,384 gallons
 Volume with 2 foot freeboard = 279,272 gallons
 2:1 (Horiz:Vert) slope, all sides
 Excavated topsoil volume = 9,418 ft³ (349 yard³)
 Excavated subsoil volume = 25,450 ft³ (943 yard³)
 Excavated topsoil pile height = 10 feet
 Excavated subsoil berm height = 5½ feet

Footprint Area Calculations

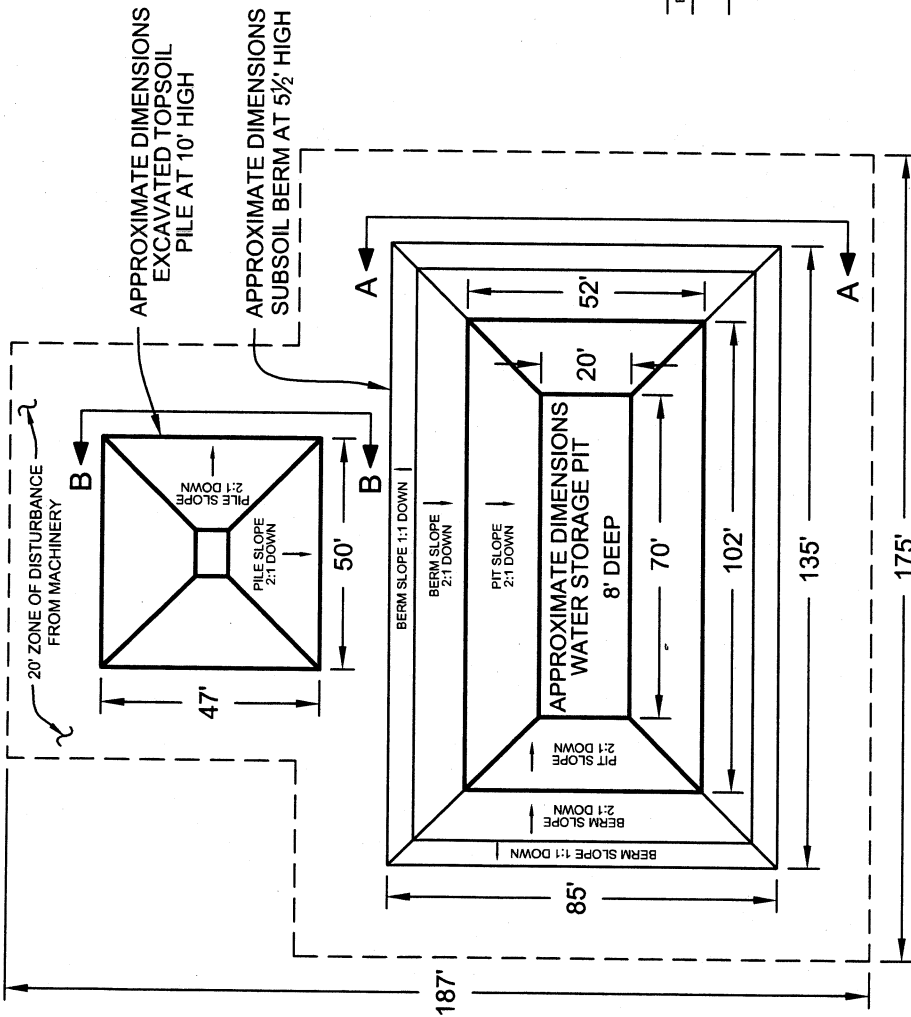
Total area of disturbance = 27,455 ft² (0.630 acre)
 Excavated topsoil footprint = 2,350 ft² (0.054 acre)
 Storage pit footprint = 5,304 ft² (0.122 acre)
 Storage pit + berm footprint = 11,475 ft² (0.263 acre)



Section A-A
Storage Pit and Berm

Section B-B
Excavated Topsoil Pile

Footprint of Total Area of Disturbance = 27,455 ft² (0.630 acre)



Attachment C Off Channel Water Infiltration Pit Design



POWERTECH (USA) INC.

DRAWN	S. Hetrick	PROJECT	Centennial	DATE	27-Feb-2009
CHECKED	M. Beshore	COORDS	NAD 27 - Colorado State Plane South	PLOT DATE	27-Feb-2009
SCALE	1" = 40'	FILENAME	p:\centennial\maps\waterpit.dwg	REF	157

**Attachment D: Photographs and Description of Area to be Disturbed
IN08-33-PIT1 Off-Channel Water Infiltration Pit (Looking East)**

Total Surface Disturbance = 0.630 acres



Photograph Date & Orientation: February 5, 2009 Looking East

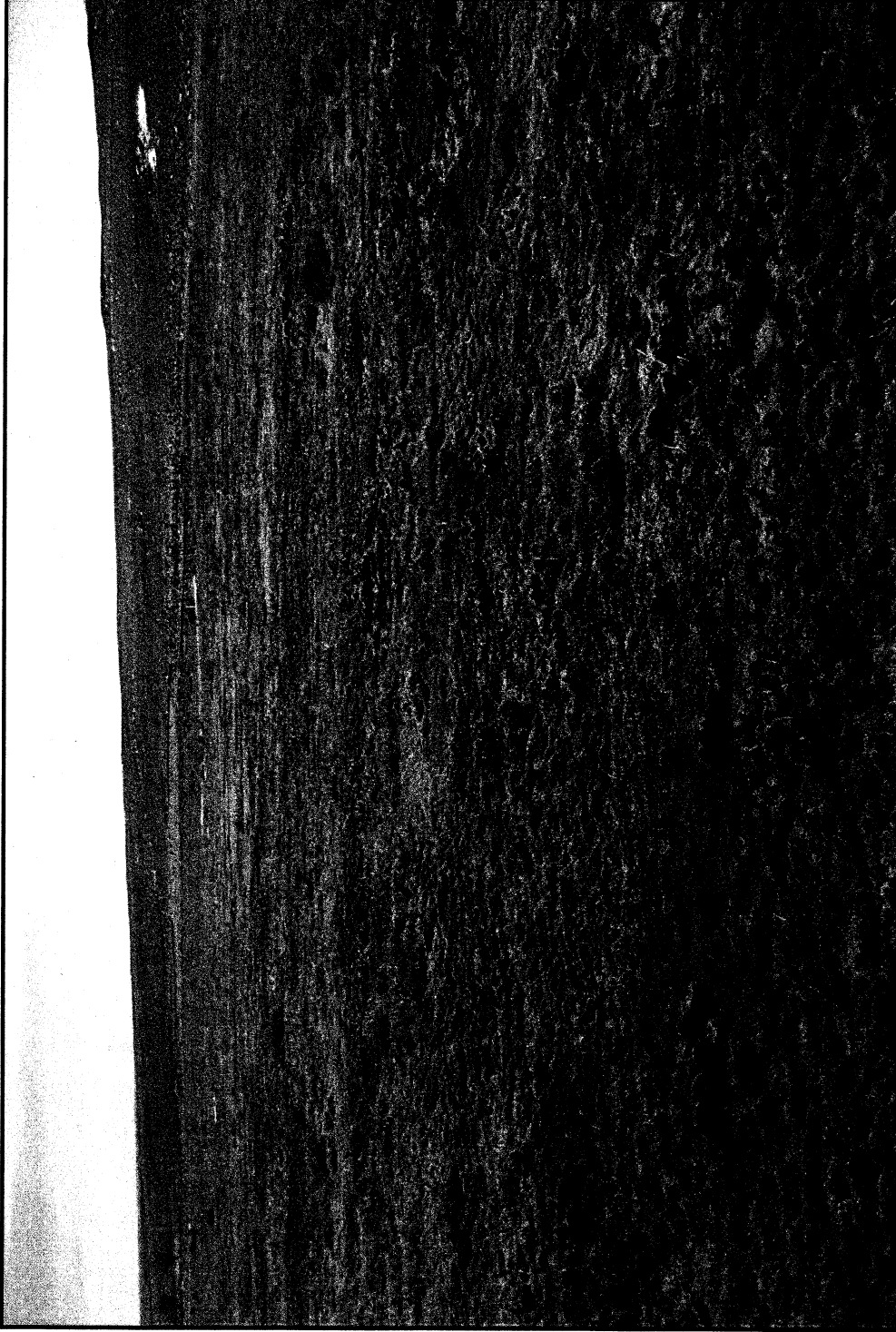
**Types of Vegetation: Buffalo Grass, Blue Grama, 4-Wing Salt Brush, Needle & Thread Grass, Prickly Pear Cactus
Infiltration Pit Surface Disturbance: 85' x 135' = 11,475 sq. ft. = 0.263 acres (includes berm)**

Soil Stock Pile Surface Disturbance: Top Soil = 47' x 50' = 2,350 sq. ft. = 0.054 acres

Zone of Machinery Disturbance: 20' Perimeter around all Activities = 0.313 acres

**Attachment D: Photographs and Description of Area to be Disturbed
IN08-33-PIT1 Off-Channel Water Infiltration Pit (Looking Southeast)**

Total Surface Disturbance = 0.630 acres



Photograph Date & Orientation: February 5, 2009 Looking Southeast

Types of Vegetation: Buffalo Grass, Blue Grama, 4-Wing Salt Brush, Needle & Thread Grass, Prickly Pear Cactus

Infiltration Pit Surface Disturbance: 85' x 135' = 11,475 sq. ft. = 0.263 acres (includes berm)

Soil Stock Pile Surface Disturbance: Top Soil = 47' x 50' = 2,350 sq. ft. = 0.054 acres

Zone of Machinery Disturbance: 20' Perimeter around all Activities = 0.313 acres

Estimate of Constituent concentrations of Pump test water after dilution into a specified volume of Laramie formation water

Inputs	units	Value
Base of Laramie	ft	434
Top of Water table	ft	100
Porosity of Laramie	-	0.15
Pump test Vol	gal	172,800
Laramie dilution water	gal	5,000,000

Computed parameters	units	value
Thickness of Sat'd zone	ft	334
Surface area of affected water in Laramie*	acre	0.32
Dilution factor		29.9:1
* Assumes pump test water is uniformly diluted through saturated thickness of Laramie		

Well ID IS-003T IS-003Ta Computed by
 Formation A2 Laramie mixing model
 Collection date 8/12/2008 8/21/2008

Constituent	units		
Bicarbonate	mg/L	278	411
Calcium	mg/L	87	226
Chloride	mg/L	9	9
Flouride	mg/L	0.5	0.5
Magnesium	mg/L	29	66
Potassium	mg/L	7	15
Silica	mg/L	6.8	5.2
Sodium	mg/L	29	88
Sulfate	mg/L	107	479
TDS (180 C)	mg/L	405	1080
Uranium (total)	mg/L	0.259	0.0112
Radium-226	pCi/L	15	4.7
			407
			221
			9
			0.5
			65
			15
			5.3
			86
			467
			1,057
			0.019
			5.0



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00150
 Lab ID: C08061324-001
 Client Sample ID: IS-003T (A2 Sand - Pump Well)

Report Date: 08/12/08
 Collection Date: 06/25/08 10:43
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	228	mg/L		1		A2320 B	07/01/08 11:58 / ljl
Carbonate as CO3	ND	mg/L		1		A2320 B	07/01/08 11:58 / ljl
Bicarbonate as HCO3	278	mg/L		1		A2320 B	07/01/08 11:58 / ljl
Hydroxide as OH	ND	mg/L		1		A2320 B	07/01/08 11:58 / ljl
Calcium	87	mg/L		1		E200.7	07/16/08 13:30 / cp
Chloride	9	mg/L		1		A4500-Cl B	07/09/08 13:16 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	06/30/08 14:58 / ljl
Magnesium	29	mg/L		1		E200.7	07/16/08 13:30 / cp
Phosphorus, Ortho as P, Dissolved	ND	mg/L		0.01		E365.1	07/08/08 10:20 / eli-h
Phosphorus, Total as P	0.01	mg/L		0.01		E365.1	07/03/08 10:55 / eli-h
Potassium	7	mg/L		1		E200.7	07/16/08 13:30 / cp
Silica	6.8	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Sodium	29	mg/L		1		E200.7	07/11/08 14:05 / cp
Sulfate	107	mg/L		5		A4500-SO4 E	07/02/08 10:01 / sp
MAJOR IONS - DISSOLVED							
Nitrogen, Nitrate as N	ND	mg/L		0.1		E353.2	07/01/08 11:12 / sw
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/30/08 13:25 / jal
Nitrogen, Nitrite as N	ND	mg/L	H	0.1		A4500-NO2 B	06/27/08 16:58 / jal
NON-METALS							
Organic Carbon, Total (TOC)	1.1	mg/L		0.5		A5310 C	07/09/08 21:31 / jp
Sulfide	ND	mg/L		1		A4500-S F	07/01/08 15:16 / sp
PHYSICAL PROPERTIES							
Hardness as CaCO3	336	mg/L		1		A2340 B	07/16/08 13:30 / sw
Solids, Total Dissolved TDS @ 180 C	405	mg/L		10		A2540 C	06/28/08 10:49 / dd
Solids, Total Suspended TSS @ 105 C	19	mg/L		10		A2540 D	06/30/08 11:44 / jh
Calcium, SAR	4.36	meq/L		0.05		E200.7	07/16/08 13:30 / cp
Magnesium, SAR	2.38	meq/L		0.08		E200.7	07/16/08 13:30 / cp
Sodium, SAR	1	meq/L		1		E200.7	07/16/08 13:30 / cp
Sodium Adsorption Ratio (SAR)	0.7	unitless		0.1		Calculation	07/16/08 13:30 / sw
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Antimony	0.001	mg/L		0.001		E200.8	07/21/08 22:40 / sml
Arsenic	ND	mg/L		0.001		E200.8	07/21/08 22:40 / sml
Barium	ND	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Beryllium	ND	mg/L		0.001		E200.7	07/11/08 14:05 / cp
Boron	0.1	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Cadmium	ND	mg/L		0.001		E200.8	07/21/08 22:40 / sml

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00150
 Lab ID: C08061324-001
 Client Sample ID: IS-003T

Report Date: 08/12/08
 Collection Date: 06/25/08 10:43
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Chromium	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Cobalt	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Copper	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Iron	ND	mg/L		0.03		E200.7	07/11/08 14:05 / cp
Lead	ND	mg/L		0.01		E200.8	07/21/08 22:40 / sml
Manganese	0.11	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Mercury	ND	mg/L		0.0002		E200.8	07/23/08 14:08 / sml
Molybdenum	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Nickel	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
Selenium	ND	mg/L		0.001		E200.8	07/21/08 22:40 / sml
Silver	ND	mg/L		0.05		E200.7	07/11/08 14:05 / cp
Strontium	1.5	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Thallium	ND	mg/L		0.001		E200.8	07/21/08 22:40 / sml
Uranium	0.222	mg/L		0.0003		E200.8	07/21/08 22:40 / sml
Vanadium	ND	mg/L		0.1		E200.7	07/11/08 14:05 / cp
Zinc	ND	mg/L		0.01		E200.7	07/11/08 14:05 / cp
METALS - TOTAL							
Aluminum	0.7	mg/L		0.1		E200.7	07/08/08 02:05 / cp
Antimony	0.066	mg/L	D	0.002		E200.8	07/17/08 00:04 / ts
Arsenic	ND	mg/L		0.001		E200.8	07/17/08 00:04 / ts
Barium	ND	mg/L		0.1		E200.7	07/08/08 02:05 / cp
Beryllium	ND	mg/L		0.001		E200.8	07/21/08 16:05 / ts
Boron	0.1	mg/L		0.1		E200.7	07/08/08 02:05 / cp
Cadmium	ND	mg/L		0.001		E200.8	07/17/08 00:04 / ts
Calcium	96	mg/L		1		E200.7	07/08/08 02:05 / cp
Chromium	ND	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Cobalt	ND	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Copper	0.02	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Iron	13.1	mg/L		0.03		E200.7	07/08/08 02:05 / cp
Lead	ND	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Magnesium	26	mg/L		1		E200.7	07/08/08 02:05 / cp
Manganese	0.22	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Mercury	ND	mg/L		0.0002		E245.1	07/07/08 21:09 / eli-b
Molybdenum	ND	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Nickel	ND	mg/L		0.01		E200.7	07/08/08 02:05 / cp
Potassium	7	mg/L		1		E200.7	07/08/08 02:05 / cp
Selenium	0.002	mg/L	D	0.002		E200.8	07/17/08 00:04 / ts
Silica	9.3	mg/L		0.1		E200.7	07/08/08 02:05 / cp
Silver	ND	mg/L		0.05		E200.7	07/08/08 02:05 / cp
Sodium	30	mg/L		1		E200.7	07/08/08 02:05 / cp
Strontium	1.5	mg/L		0.1		E200.7	07/08/08 02:05 / cp

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00150
 Lab ID: C08061324-001
 Client Sample ID: IS-003T

Report Date: 08/12/08
 Collection Date: 06/25/08 10:43
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Thallium	ND	mg/L		0.001		E200.8	07/17/08 00:04 / ts
Uranium	0.250	mg/L		0.0003		E200.8	07/18/08 17:24 / ts
Vanadium	ND	mg/L		0.1		E200.7	07/08/08 02:05 / cp
Zinc	0.03	mg/L		0.01		E200.7	07/08/08 02:05 / cp
RADIONUCLIDES - DISSOLVED							
Gross Alpha	786	pCi/L				E900.0	08/05/08 09:25 / crw
Gross Alpha precision (±)	15.6	pCi/L				E900.0	08/05/08 09:25 / crw
Gross Alpha MDC	2.9	pCi/L				E900.0	08/05/08 09:25 / crw
Gross Beta	149	pCi/L				E900.0	08/05/08 09:25 / crw
Gross Beta precision (±)	3.5	pCi/L				E900.0	08/05/08 09:25 / crw
Gross Beta MDC	2.8	pCi/L				E900.0	08/05/08 09:25 / crw
Radium 226	15.0	pCi/L				E903.0	07/21/08 18:07 / trs
Radium 226 precision (±)	0.7	pCi/L				E903.0	07/21/08 18:07 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	07/21/08 18:07 / trs
RADIONUCLIDES - TOTAL							
Radon 222	88500	pCi/L		100		D5072-92	06/30/08 17:19 / dpb
Radon 222 precision (±)	473	pCi/L				D5072-92	06/30/08 17:19 / dpb
DATA QUALITY							
A/C Balance (± 5)	7.35	%				Calculation	08/12/08 10:12 / sw
Anions	7.05	meq/L				Calculation	08/12/08 10:12 / sw
Cations	8.17	meq/L				Calculation	08/12/08 10:12 / sw
Solids, Total Dissolved Calculated	417	mg/L				Calculation	08/12/08 10:12 / sw
TDS Balance (0.80 - 1.20)	0.970					Calculation	08/12/08 10:12 / sw
- The Anion / Cation balance was confirmed by re-analysis.							
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		SW8021B	07/04/08 16:59 / dkh
Ethylbenzene	ND	ug/L		0.50		SW8021B	07/04/08 16:59 / dkh
m+p-Xylenes	ND	ug/L		0.50		SW8021B	07/04/08 16:59 / dkh
o-Xylene	ND	ug/L		0.50		SW8021B	07/04/08 16:59 / dkh
Toluene	15	ug/L		0.50		SW8021B	07/04/08 16:59 / dkh
Surr: Trifluorotoluene	96.0	%REC		80-120		SW8021B	07/04/08 16:59 / dkh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00151
 Lab ID: C08061325-001
 Client Sample ID: IS-003Ta (Laramie Fm. - Upper Most Aquifer)

Report Date: 08/21/08
 Collection Date: 06/25/08 10:51
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	337	mg/L		1		A2320 B	07/01/08 12:05 / ljl
Carbonate as CO3	ND	mg/L		1		A2320 B	07/01/08 12:05 / ljl
Bicarbonate as HCO3	411	mg/L		1		A2320 B	07/01/08 12:05 / ljl
Hydroxide as OH	ND	mg/L		1		A2320 B	07/01/08 12:05 / ljl
Calcium	226	mg/L		1		E200.7	08/19/08 17:02 / cp
Chloride	9	mg/L		1		A4500-Cl B	07/09/08 13:23 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	06/30/08 15:00 / ljl
Magnesium	66	mg/L		1		E200.7	08/19/08 17:02 / cp
Phosphorus, Ortho as P, Dissolved	ND	mg/L		0.01		E365.1	07/08/08 10:22 / eli-h
Phosphorus, Total as P	0.02	mg/L		0.01		E365.1	07/07/08 12:37 / eli-h
Potassium	15	mg/L		1		E200.7	08/19/08 17:02 / cp
Silica	5.2	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Sodium	88	mg/L		1		E200.7	08/19/08 17:02 / cp
Sulfate	479	mg/L	D	6		A4500-SO4 E	07/02/08 10:04 / sp
MAJOR IONS - DISSOLVED							
Nitrogen, Nitrate as N	ND	mg/L		0.1		E353.2	07/01/08 11:12 / sw
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	06/30/08 13:33 / jal
Nitrogen, Nitrite as N	ND	mg/L		0.1		A4500-NO2 B	06/27/08 16:58 / jal
NON-METALS							
Organic Carbon, Total (TOC)	3.3	mg/L		0.5		A5310 C	07/09/08 21:42 / jp
Sulfide	ND	mg/L		1		A4500-S F	07/01/08 15:18 / sp
PHYSICAL PROPERTIES							
Hardness as CaCO3	835	mg/L		1		A2340 B	08/20/08 13:54 / sw
Solids, Total Dissolved TDS @ 180 C	1080	mg/L		10		A2540 C	06/28/08 10:49 / dd
Solids, Total Suspended TSS @ 105 C	18	mg/L		10		A2540 D	06/30/08 11:44 / jh
Calcium, SAR	11.3	meq/L		0.05		E200.7	08/19/08 17:02 / cp
Magnesium, SAR	5.48	meq/L		0.08		E200.7	08/19/08 17:02 / cp
Sodium, SAR	3.84	meq/L		0.04		E200.7	08/19/08 17:02 / cp
Sodium Adsorption Ratio (SAR)	1.3	unitless		0.1		Calculation	08/20/08 15:54 / kbh
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Antimony	ND	mg/L		0.001		E200.8	08/20/08 06:19 / sml
Arsenic	ND	mg/L		0.001		E200.8	08/20/08 06:19 / sml
Barium	ND	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Beryllium	ND	mg/L		0.001		E200.7	08/19/08 17:02 / cp
Boron	0.2	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Cadmium	ND	mg/L		0.001		E200.8	08/20/08 06:19 / sml

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 D - RL increased due to sample matrix interference.



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00151
 Lab ID: C08061325-001
 Client Sample ID: IS-003Ta

Report Date: 08/21/08
 Collection Date: 06/25/08 10:51
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Chromium	ND	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Cobalt	ND	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Copper	ND	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Iron	ND	mg/L		0.03		E200.7	08/19/08 17:02 / cp
Lead	ND	mg/L		0.01		E200.8	08/20/08 06:19 / sml
Manganese	0.14	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Mercury	ND	mg/L		0.0002		E200.8	08/20/08 06:19 / sml
Molybdenum	ND	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Nickel	ND	mg/L		0.01		E200.7	08/19/08 17:02 / cp
Selenium	ND	mg/L		0.001		E200.8	08/20/08 06:19 / sml
Silver	ND	mg/L		0.05		E200.7	08/19/08 17:02 / cp
Strontium	2.9	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Thallium	ND	mg/L		0.001		E200.8	08/20/08 06:19 / sml
Uranium	0.0095	mg/L		0.0003		E200.8	08/20/08 06:19 / sml
Vanadium	ND	mg/L		0.1		E200.7	08/19/08 17:02 / cp
Zinc	0.07	mg/L		0.01		E200.7	08/19/08 17:02 / cp
METALS - TOTAL							
Aluminum	0.1	mg/L		0.1		E200.7	07/08/08 02:09 / cp
Antimony	0.001	mg/L		0.001		E200.8	07/21/08 16:38 / ts
Arsenic	0.003	mg/L		0.001		E200.8	07/21/08 16:38 / ts
Barium	ND	mg/L		0.1		E200.7	07/08/08 02:09 / cp
Beryllium	ND	mg/L		0.001		E200.8	07/21/08 16:38 / ts
Boron	0.2	mg/L		0.1		E200.7	07/08/08 02:09 / cp
Cadmium	ND	mg/L		0.001		E200.8	07/17/08 00:11 / ts
Calcium	208	mg/L		1		E200.7	07/08/08 02:09 / cp
Chromium	ND	mg/L		0.01		E200.7	07/08/08 02:09 / cp
Cobalt	ND	mg/L		0.01		E200.7	07/08/08 02:09 / cp
Copper	0.01	mg/L		0.01		E200.7	07/08/08 02:09 / cp
Iron	0.25	mg/L		0.03		E200.7	07/08/08 02:09 / cp
Lead	ND	mg/L		0.01		E200.8	07/17/08 00:11 / ts
Magnesium	58	mg/L		1		E200.7	07/08/08 02:09 / cp
Manganese	0.15	mg/L		0.01		E200.7	07/08/08 02:09 / cp
Mercury	ND	mg/L		0.0002		E245.1	07/07/08 21:11 / eli-b
Molybdenum	ND	mg/L		0.01		E200.8	07/17/08 00:11 / ts
Nickel	ND	mg/L		0.01		E200.8	07/17/08 00:11 / ts
Potassium	15	mg/L		1		E200.7	07/08/08 02:09 / cp
Selenium	ND	mg/L		0.001		E200.8	07/21/08 16:38 / ts
Silica	5.7	mg/L		0.1		E200.7	07/08/08 02:09 / cp
Silver	ND	mg/L		0.05		E200.7	07/08/08 02:09 / cp
Sodium	84	mg/L		1		E200.7	07/08/08 02:09 / cp
Strontium	2.9	mg/L		0.1		E200.7	07/08/08 02:09 / cp

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
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 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Powertech (USA) Inc
 Project: Centennial R2-00151
 Lab ID: C08061325-001
 Client Sample ID: IS-003Ta

Report Date: 08/21/08
 Collection Date: 06/25/08 10:51
 Date Received: 06/27/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Thallium	ND	mg/L		0.001		E200.8	07/17/08 00:11 / ts
Uranium	0.0112	mg/L		0.0003		E200.8	07/21/08 16:38 / ts
Vanadium	ND	mg/L		0.1		E200.7	07/08/08 02:09 / cp
Zinc	0.08	mg/L		0.01		E200.7	07/08/08 02:09 / cp
RADIONUCLIDES - DISSOLVED							
Gross Alpha	25.7	pCi/L				E900.0	08/14/08 20:31 / crw
Gross Alpha precision (±)	5.1	pCi/L				E900.0	08/14/08 20:31 / crw
Gross Alpha MDC	5.2	pCi/L				E900.0	08/14/08 20:31 / crw
Gross Beta	13.8	pCi/L				E900.0	08/14/08 20:31 / crw
Gross Beta precision (±)	3.7	pCi/L				E900.0	08/14/08 20:31 / crw
Gross Beta MDC	5.8	pCi/L				E900.0	08/14/08 20:31 / crw
Radium 226	4.7	pCi/L				E903.0	07/21/08 18:07 / trs
Radium 226 precision (±)	0.5	pCi/L				E903.0	07/21/08 18:07 / trs
Radium 226 MDC	0.3	pCi/L				E903.0	07/21/08 18:07 / trs
RADIONUCLIDES - TOTAL							
Radon 222	532	pCi/L		100		D5072-92	06/30/08 17:19 / dpb
Radon 222 precision (±)	90.9	pCi/L				D5072-92	06/30/08 17:19 / dpb
DATA QUALITY							
A/C Balance (± 5)	10.4	%				Calculation	08/21/08 10:28 / lab
Anions	17.0	meq/L				Calculation	08/21/08 10:28 / lab
Cations	20.9	meq/L				Calculation	08/21/08 10:28 / lab
Solids, Total Dissolved Calculated	1090	mg/L				Calculation	08/21/08 10:28 / lab
TDS Balance (0.80 - 1.20)	0.990					Calculation	08/21/08 10:28 / lab
- The Anion / Cation balance was confirmed by re-analysis.							
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50		SW8021B	07/04/08 17:34 / dkh
Ethylbenzene	ND	ug/L		0.50		SW8021B	07/04/08 17:34 / dkh
m+p-Xylenes	ND	ug/L		0.50		SW8021B	07/04/08 17:34 / dkh
o-Xylene	ND	ug/L		0.50		SW8021B	07/04/08 17:34 / dkh
Toluene	0.78	ug/L		0.50		SW8021B	07/04/08 17:34 / dkh
Surr: Trifluorotoluene	94.0	%REC		80-120		SW8021B	07/04/08 17:34 / dkh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.