

SAMPLING FORMS PACKET

Please complete and sign the attached forms:

1. CORE AND/OR CUTTINGS EXAMINATION/SAMPLING CHARGES
2. RULES FOR SAMPLING CORE AND CUTTINGS FROM THE NEVADA BUREAU OF MINES AND GEOLOGY COLLECTIONS
3. DESTRUCTIVE SAMPLING JUSTIFICATION
4. SAMPLING AGREEMENT
5. ANALYSES FOR OUTSIDE LABS

Reno Assay Laboratories (for your reference)

Scan and return by email to both of the following staff members at GBSSRL:

Rachel Micander
rmicander@unr.edu
775-682-8767 (Pacific Time)

Camryn Burr
camrynb@unr.edu
775-682-8766 (Pacific Time)

NEVADA BUREAU OF MINES AND GEOLOGY – GBSSRL
Phone: 775-682-8767; E-mail Rachel Micander: rmicander@unr.edu

CORE AND/OR CUTTINGS EXAMINATION/SAMPLING CHARGES
(prices effective April 1, 2022; minor revision to page 9 on 29 March 2023)

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

WORK PHONE: _____

E-MAIL: _____

DATE: _____

CORE AND CUTTINGS EXAMINATION:

Nonrefundable service charge of **\$5.00/box** with a **\$25.00 minimum** for examination of core or cuttings

Holes examined: _____

No. of boxes: _____ (SKU=**CORE**; Enter QTY) x \$5.00 = \$ _____

IF LINE ABOVE IS LESS THAN \$25, USE THE \$25 MINIMUM FEE *INSTEAD* \$ 25.00
(nonrefundable)

EXAMINATION TOTAL (NONREFUNDABLE): \$ _____
(nonrefundable)

CUTTINGS SAMPLING:

Nonrefundable service charge of **\$100.00/hole**

Holes sampled: _____

No. of holes: _____ (SKU=**CORE2**; Enter QTY) x **\$100.00** = \$ _____
(nonrefundable)

CORE ONLY SAMPLING:

Nonrefundable service charge of **\$15.00/sample** and a technician fee of **\$75.00/hour** for sample preparation.

Core sampled: _____

No. of samples: _____ (SKU=**CORE5**; Enter QTY) x **\$15.00** = \$ _____

No. of technician hours: _____ (SKU=**CORE6**; Enter QTY) x **\$75.00** = \$ _____

Minimum of one hour, round to the nearest half hour. (nonrefundable)

SHIPPING (SKU=S):

Customers are also responsible for any outbound shipping charges incurred by the GBSSRL. \$ _____

Customers should contact and pay labs directly for return shipping fees. (nonrefundable)

TOTAL (NONREFUNDABLE): \$ _____
(nonrefundable)

REFUNDABLE DEPOSITS:

Office note: ring up refundable deposits on a separate receipt and on the First Data terminal—not on the cart. There is no time limit for refunds on the First Data terminal.

REFUNDABLE deposit of \$200 per sample for any core sent out to a lab for either destructive or non-destructive testing, if the samples are required to be returned to GBSSRL. The full deposit will be refunded to the customer as soon as the core samples have been returned by the lab and received at GBSSRL.

No. of samples: _____ (SKU=**DEP**; Enter QTY) x **\$200.00** = \$ _____
(refundable)

CORE AND/OR CUTTINGS SAMPLING:

Please read and fill out the following additional forms provided by the GBSSRL Office: 2) Rules for Sampling Core and Cuttings from the Nevada Bureau of Mines and Geology Collections, 3) Destructive Sampling Justification, 4) Sampling Agreement, and 5) Analyses for Outside Labs. A list of Reno Assay Labs is also provided for your reference.

RULES FOR SAMPLING CORE AND CUTTINGS FROM THE NEVADA BUREAU OF MINES AND GEOLOGY COLLECTIONS

(revised 1 April 2022)

- 1). Samples are housed at the Nevada Bureau of Mines and Geology (NBMG) in the Great Basin Science Sample and Records Library (GBSSRL). All sample viewing shall be done in the Examination Room at the GBSSRL under the supervision of a GBSSRL staff member. The only exceptions are when advanced arrangements are made to use a fume hood or the Core Storage Facility in Stead.
- 2). Viewing and sampling are to be done during regular office hours: Tuesday through Friday, 8:00 a.m. to 3:00 p.m. (Pacific Time). An appointment is necessary.
- 3). When viewing and testing the samples, every effort shall be made to avoid loss of material. Samples not being taken for analysis must not be mixed among intervals. High-grading of samples is prohibited.
- 4). The removal of any portion of cuttings or other NBMG samples from the GBSSRL requires a pre-approved, signed sampling agreement. Removal of sample cuts can only be done under the immediate supervision of an NBMG staff member. Once a sample is removed from GBSSRL, it may not be returned or reintegrated into the collection.
- 5). The use of acid and/or solvent tests, when absolutely necessary, are only permitted when cuttings are analyzed in a ceramic dish or dimple tray under a fume hood in the presence of a GBSSRL staff member. Due to limited lab space and staff time, such procedures require an appointment and may be subject to our \$75-per-hour fee with a one-hour minimum. Ultraviolet examinations of samples are permitted. Please contact us in advance for additional information and restrictions if you plan to use X-ray equipment. Excessive wetting of samples is prohibited due to the lack of drying equipment.
- 6). It is not the intent of the State of Nevada to provide drill cuttings for the establishment of third-party sample libraries. Therefore, sampling for any purpose other than that set forth in the sampling agreement is prohibited.
- 7). A nonrefundable fee of **\$5.00 per box with a \$25.00 minimum** will be charged for examining drill core or cuttings from oil and gas, geothermal, water, and mineral exploration holes.
- 8). Additionally, a nonrefundable fee of **\$100.00** per well is required for sampling cuttings or core. Please select only what is necessary for testing, so that others also have the opportunity to sample the remaining cuttings.
- 9). Additional fees and policies apply for sampling core. Please see the Core Sampling Procedures section for more information.
- 10). Copies of all data, including chemical, organic maturation, paleontological, palynological, and any other analyses/tests run, must be supplied to the NBMG directly from the lab performing the test(s). The sampler must choose a lab from the NBMG list of approved labs in the Reno area, and GBSSRL staff will mail the samples to the lab. The sampler will inform the lab of the requested analyses before shipment, and the lab will determine the quantity of sample needed for those analyses. The sampler will pay the lab in full before the work begins (including any pickup charges, if applicable).

The responsible parties are both the individual sampler and the employer (company or client) of the sampler. Either the individual sampler or the affiliated company or client must return any previous sampling results that are overdue in order for both to maintain the privilege of sampling at the GBSSRL.

Due to the expense and the confidential nature of these data, NBMG will hold all data **confidential for two years** from the date of sampling, unless the company agrees to release the data earlier. Upon request by the company to NDOM, the Administrator may grant an extension of the period of confidentiality. If the company does not request a new extension, the data will be released on the previously agreed-upon date.

After the two-year period of confidentiality has expired, the well sampling information and name of the lab performing the analyses, as listed on this agreement, will become public record. The sampler's personal information is not public record and will be removed before the records are made publicly available.

11.) If the result of an analysis performed on GBSSRL samples are published, the GBSSRL must be referenced as the source of geologic material used in the analysis.

CUTTINGS PROCEDURES

1). Sample cuts will not be allowed if the envelope contains less than 5 cc of material. Cuts that would reduce the content to less than 5 cc are also not permitted. Users shall notify the GBSSRL staff when any sample available for analysis is determined to have 5 cc or less in the envelope or if there are other suspected problems with the sample.

2). Prior to 1992, one sample set of cuttings was required for each well. After 1992, two sets were required. These second sets are for archiving and back-up in case samples from the first are missing. They cannot be sampled without the customer first obtaining permission through a written request to the Oil, Gas, and Geothermal Program Manager at the Nevada Division of Minerals (NDOM). Second sets are also generally housed off-site from the GBSSRL, and arrangements must be made in advance to see them.

CORE PROCEDURES

1). All intervals to sample must be selected by the customer during their visit to the GBSSRL. If a customer wishes to sample core, they must consult with the GBSSRL physical curator and indicate the minimum amount of sample required to perform the desired test. The GBSSRL staff member will determine if there is sufficient material to sample.

a. If a customer is unable to view the core in person, they may specify areas for sampling via photographs of the core. However, the GBSSRL does not guarantee that the exact sections of core will be sampled if the customer is not present, and no resampling in the same foot (12 inches/~30 cm) of core is allowed.

2). Before any destructive sampling is performed, the customer must submit a project abstract and justification as to why destructive sampling is necessary. Cost should not be used as the sole justification.

3). Individual core samples taken for the purpose of destructive analysis may not exceed one cubic inch (~16.4 cm³) or a one-inch (2.54 cm) cross section. A sample may also not be larger than 25% of the available core. Destructive sampling may not be conducted on core less than 6 inches (15 cm) long.

a. For non-destructive analysis, 2-inch (5 cm) samples may be taken as long as the sample does not exceed 25% of the available core. Additionally, 1-inch (2.54 cm) samples may be taken from core less than 6 inches (15 cm) for the purpose of non-destructive analysis. All samples taken for the purpose of non-destructive analysis must be returned within 6 months of the original shipment date. A \$200 per

sample deposit will apply for each sample shipped offsite and will be returned upon receipt of the samples to the GBSSRL.

b. If a larger sample size is needed, a scientific justification must be submitted via email to rmicander@unr.edu. GBSSRL staff will determine if approval can be granted for larger sample(s) on a case-by-case basis.

4). No more than one sample per foot (30 cm) of core may be taken, i.e. side-by-side sampling is not allowed.

5). All samples will be cut by the GBSSRL staff.

6) An individual or group may take a maximum of 100 samples per visit—if there is enough time for the NBMG technician to complete the work.

7) Customers will be charged a **per-sample fee of \$15** and a **per-hour fee of \$75** for the time that it takes for the GBSSRL technician to prepare the samples. These fees are in addition to the nonrefundable **per-hole** and **viewing fees**.

8) Sample cutting cannot always be completed at the time of the visit and will need to be scheduled with the GBSSRL technician. In some cases, this may take up to four weeks.

The preservation of the usefulness of the GBSSRL is dependent upon observing all rules and using the samples in a responsible, professional manner. Please indicate your agreement to comply with these rules by signing below. Thank you for your cooperation.

Customer _____ Date _____

GBSSRL Staff _____ Date _____

NEVADA BUREAU OF MINES AND GEOLOGY
GREAT BASIN SCIENCE SAMPLE AND RECORDS LIBRARY
Phone: 775-682-8767; email Rachel Micander: rmicander@unr.edu

DESTRUCTIVE SAMPLING JUSTIFICATION
(revised 1 April 2022)

If you will be performing any destructive analysis or any tests that involve removing a sample of core from the GBSSRL warehouse, you must provide a complete project abstract and justification as to why other methods such as non-destructive XRF cannot be used. GBSSRL will not approve any sampling requests unless a full justification is received. Cost alone is not sufficient justification. Please insert your abstract and justification below.

NEVADA BUREAU OF MINES AND GEOLOGY
GREAT BASIN SCIENCE SAMPLE AND RECORDS LIBRARY
 Phone: 775-682-8767; email Rachel Micander: rmicander@unr.edu

SAMPLING AGREEMENT

(revised 1 April 2022; minor revision to page 9 on 29 March 2023)

The undersigned individual agrees that "Rules for Sampling Core and Cuttings from the Nevada Bureau of Mines and Geology Collections" dated 1 April 2022, will be followed; therefore, the Nevada Bureau of Mines and Geology (NBMG) agrees to allow:

Name/title of sampler: _____

Name of supervisor/client: _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ E-mail: _____

to sample ____ (cuttings) / ____ (core) from the oil, gas, geothermal, or water well(s) or mineral test hole(s) listed on the last page(s) of this agreement.

Name and address of contractor/laboratory performing the analyses:

Company name: _____

Address: _____

City/State/Zip: _____

Website: _____

E-mail: _____ Date contacted: _____

The analyses will be run on _____ (date from the lab).

Name of person responsible for performing analyses: _____

FOR THE LAB:

The lab must release the test results to NBMG on the same day it releases them to the customer.

The lab must discuss payment and testing instructions with the customer before processing this order.

Order must be prepaid in full by the customer before the lab begins the work. NBMG is not responsible for any portion of this payment. Thank you!

(Page 2 of 3 of NBMG SAMPLING AGREEMENT)

FOR THE CUSTOMER:

The customer must contact the lab for prepayment and testing instructions before the work is started.

The customer must sign below to authorize the release of the test results by e-mail to Rachel Micander (rmicander@unr.edu) at the Nevada Bureau of Mines and Geology (NBMG).

Copies of all data, including chemical, organic maturation, paleontological, palynological, and any other analyses run, must be supplied to the NBMG directly from the lab performing the analyses and as soon as the tests are run, but no later than _____ (date within 6 months of sampling date).

The sampler must choose from the NBMG list of approved labs in the Reno area, and NBMG will ship the samples directly to the chosen lab. The sampler will inform the lab of the requested analyses before shipment, and the lab will determine the quantity of sample needed for those analyses. The sampler will pay the lab in full before the work begins (including any shipping charges).

Due to the expense and the confidential nature of these data, NBMG will hold all data **confidential for two years** from the date of sampling, unless the company agrees to release the data earlier or requests an extension. **After the two-year period of confidentiality has expired, the name of the lab performing the analyses listed on this agreement will become public record. However, the sampler’s personal information and affiliated company are not public record and will be removed before the records are made publicly available.**

Upon request by the company to the Nevada Division of Minerals (NDOM), the NDOM Administrator may grant an extension of the period of confidentiality.

The data will be released on _____ (date no later than **two years** from the sampling date—unless an extension has been granted).

Agreed to by _____
(signature of sampler)

Agreed to by _____
(signature of NBMG staff member)

Date _____

GBSSRL Office Use Only:

DATE SAMPLES SHIPPED: _____

TRACKING NUMBER: _____

Analysis results emailed to Rachel Micander and sampler on this date: _____



University of Nevada, Reno

Reno Assay Laboratories

ALS Minerals

4977 Energy Way
Reno NV 89502
Office: 775-356-5395
Fax: 775-355-0179
www.alsglobal.com

American Assay Laboratories, Inc.

1500 Glendale Ave.
Sparks NV 89431
Office: 775-356-0606
Fax: 775-356-1413
www.aallabs.com

Bureau Veritas Minerals

605 Boxington Way, Suite 101
Sparks NV 89434
Office: 775-359-6311
Fax: 866-525-8347
www.bureauveritas.com

Florin Analytical Services

7950 Security Circle
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