Reference Guidebook for Archaeological Collections Care

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Guidelines and Procedures

1. State Rules and Procedures for Archaeological and Paleontological Curation

DEPARTMENT OF HIGHER EDUCATION

Historical Society

HISTORICAL, PREHISTORICAL, AND ARCHAEOLOGICAL RESOURCES

8 CCR 1504-7

SECTION 9. Curation of collections in approved museums

A. The state of Colorado holds title to all historical, prehistorical and archaeological materials collected from areas owned by the state or any of its political subdivisions.

B. While the society is the official trustee of the State of Colorado (CRS 24-80-202), the society wishes to advance a collaborative partnership with county and local museums or curatorial repositories, (a curatorial repository is a permanent, nonprofit educational or research oriented agency or institution, having professionally trained on-site staff, that provides housing and collections care in perpetuity), to ensure long-term preservation and interpretation of these items. These institutions help to preserve, interpret and promote the natural and cultural inheritance of humanity in Colorado and work in close collaboration with the communities from which their collections originate as well as those they serve. Such an arrangement with the State is advantageous to everyone in Colorado.

C. All materials, except human remains and associated funerary objects, collected from state lands or political subdivisions must be curated in a museum, unless a reputable museum, university, college or other recognized scientific or educational institution can assure permanent preservation on the site.

1. Historical, archaeological, prehistorical, and paleontological collections made under permit may include ceramic, lithic, glass, metal, faunal, floral, and synthetic materials, as well as documents, photographs, organic samples (such as coprolites or soil samples), fossils (vertebrates, invertebrates, paleobotanical, ichnofossils, and associated rock or sediment samples), and human remains and associated funerary objects.

2. Permittees proposing to transport collections out of Colorado must secure a loan agreement between an out-of-state facility and a permanent approved on-site institution, reputable in-state museum, or curatorial repository, subject to the approval of the society, except that ancillary samples may be transported and analyzed without such a loan agreement. Out-of-state analysis of human remains and associated funerary objects is subject to the approval of the society.

3. Proposed analysis of artifacts or fossils which would cause their destruction or damage, such as trace-element analysis of materials, may be performed only with the written consent of the society through the state archaeologist, who shall consider whether such artifacts are unique or duplicated in state-owned collections. The society will supply notification of consent to the affected museum within thirty days.
4. State, County and local agencies or research/educational institutions wishing to ensure collections care of artifacts or specimens permanently on-site (or within close proximity to the origin of the excavated materials) must either be approved through a request to serve as an approved museum or curatorial repository as specified in Section 9 (I) of this chapter or through execution of a special held-in-trust collections agreement with the society.

D. Reburial or repatriation of human remains may supersede their placement in an approved museum.

E. Collections from state or political subdivision lands obtained from an issued permit in accordance with CRS 24-4-104 must be curated in an approved reputable Colorado museum or curatorial repository. The relationship between the society and another reputable Colorado museum or a curatorial repository is an express trust. Title and ownership of these collections is not transferred and the society has the authority to transfer and approve stewardship of the collections through an on-site held-in-trust collections agreement or through the approval of a reputable museum or curatorial repository as outlined in Section 9 (I) of this chapter.

F. Collections recovered from lands owned or controlled by the state or any of its political subdivisions shall be deposited at an approved museum, curatorial repository, an approved on-site agency, or institution within six months after submission of the permittee’s final report. Collections made from permitted archaeological or paleontological projects occurring over multiple years should not be deposited with different museums or curatorial repositories unless an approved museum, curatorial repository, on-site agency or institution, lacks expertise or environmental conditions necessary to ensure the collection’s long-term preservation.

G. Responsibilities and requirements of approved museums or curatorial repositories

Museums and curatorial repositories must be open to the public. They must agree to provide curation of archaeological or paleontological resources in a systematic and accessible manner, and to make them available free of charge for study by qualified students and researchers.

1. Provide a copy and maintain a current and active fine art or other commercial insurance policy or if the museum or curatorial repository whose collections are primarily owned or overseen by a governmental entity, acknowledge that the state collection and any associated state property are covered for liability from any loss or damage.

2. If accepting collections from outside researchers, institutions issuing curation or similarly worded “intent-to-curate” agreements to third-party permitted researchers must first have their template agreement language approved by the state archaeologist or his/her staff designee to avoid confusion that the collections have state of Colorado title.

3. Within ten working days refer to the state archaeologist of Colorado all requests (written and oral) for transfer or repatriation of the state collection (or any part thereof).

4. Maintain separately all written and digital descriptive information associated with the curated state collection, including field notes, site forms and reports in a safe and secure manner.

5. Do not release to any third-party any precise information relating to the exact physical location of a prehistoric site (locale) from which the state collection (or any part thereof) derives, except to qualified researchers or after obtaining from the state archaeologist of Colorado prior written permission. If there are questions as to releasing this information, approved museums or curatorial repositories will consult with the state archaeologist of Colorado.

6. In accordance with these regulations, be open and subject to inspection by the state archaeologist or his/her designee at least once every three years.
7. Accept state collections from permitted work for their specific regional or local area guided by these current rules and procedures and the approved museum’s or curatorial repository’s collection management policy.

8. Annually report back to the state archaeologist or his/her designee any changes to the state’s collection condition or insurance policy changes, loan agreement status and any other tracking requirement methods adopted by the society and the office of the state archaeologist.

9. Properly maintain any State of Colorado property (shelving, cabinetry etc.) in its possession associated with the care of the state collection.

10. Maintain the collection within inert and acid-free storage or packaging.

11. With the exception of approved repatriation, not sell, transfer, assign, pledge, encumber, discard, or otherwise dispose of the state collection (or any part thereof) or any associated State of Colorado property in its possession without written and signed permission from the state archaeologist.

12. Have an established collections management policy and emergency management plan.

13. Within five calendar days of the discovery of any loss or theft of, deterioration or damage to, destruction of the state collection (or any part thereof), or any State of Colorado items of property used to support and care for a state collection in the museum’s or curatorial repository’s possession, the museum or repository will provide to the society written notification of the circumstances surrounding the loss, theft, deterioration, damage, or destruction, and will report to the state archaeologist or his/her designee those actions taken to stabilize the collection, or State of Colorado items or property, and to correct any deficiencies in the physical plant or operating procedures that may have contributed to the loss, theft, deterioration, damage, or destruction.

14. Other than routine, small and simple paleontological specimen or artifact mending repairs, any planned actions that involve major repair or restoration beyond basic re-attachment of the state collection (or any part thereof) or any other State of Colorado property associated with the state collection must be approved of in advance after consultation with the state archaeologist.

15. The society (in co-ordination with other reputable museums, nonprofit or governmental educational institutions) reserves the right to take custody of state collections in the care of an approved museum, curatorial repository, on-site agency or institution through a loan agreement for temporary exhibit purposes.

H. Approved Uses

1. Approved museums or curatorial repositories and the society may fully exhibit and charge reasonable nondiscriminatory admission fees, comparable to fees charged at similar facilities to view these items prepared for interpretive display (either for permanent, temporary or travelling exhibition purposes). Additionally, approved museums or curatorial repositories and the society may photograph and nondestructively study the state collection (or any part thereof) on the museum or curatorial repository’s premises, subject to the museum or repository’s own collections management policies and in accordance with these regulations. Physical reproduction of any state collection item(s) must be approved of in advance by the state archaeologist.
2. State paleontological resources curated at an approved museum or curatorial repository may be cleaned, treated, stabilized and prepared for research, exhibition or loan transportation purposes under standard professional best practices for natural history collections.

3. A held-in-trust state collection may be loaned out by an approved museum or curatorial repository to other institutions and organizations (including for temporary exhibition or study by the society) by securing a loan agreement between the other facilities provided notice of the arrangement is sent to the state archaeologist for tracking purposes. The director of the approved museum or curatorial repository is responsible for all loan transactions of state collections and for ensuring that appropriate and timely administration of the loans is conducted. Relocation inventories must be conducted and included as part of the written loan agreement. Other loan conditions must be addressed in the Collections Management Policy of the curatorial facility that is loaning the material. The loan and transportation of the state collection must be insured for liability purposes through securing a commercial fine art or other insurance policy or be adequately covered by governmental self insurance to fulfill any damage or loss incident. Collections that are not inventoried or cataloged shall not be loaned. Commercial use of loaned collections is prohibited without written consent from the society. Ancillary samples may be transported and analyzed without a formal loan agreement; however, the museum or curatorial repository will provide to the society two copies of any publications, reports, and other documents prepared by researchers studying ancillary samples.

4. All exhibits, reproductions, and studies will credit the state archaeologist of Colorado as follows: “Courtesy of History Colorado, Office of the State Archaeologist.” The museum or curatorial repository will provide to the society two copies of any publications, reports, and other documents prepared by museum or curatorial repository staff studying or exhibiting the state collection (or any part thereof).

5. Approved museums or curatorial repositories and the society may charge a competitive deposit fee for the collections and reasonable administrative processing fees for “curation” or similarly worded “intent-to-curate” agreements with permittees. Permitted researchers that deliver collections not according to the state archaeologist’s current Submission Guidelines for State-Owned Archaeological Collections and these regulations may be subject to corrective hourly labor rate fees plus the cost of supplies by the state approved museum or curatorial repository.

I. Procedures for approving museums

1. Any institution wishing to serve as a museum for collections from state lands (or any subdivision of state lands) or collected as a result of work carried out under a permit issued under authority of this Act shall apply to the society through the state archaeologist for approval.

2. The museum or curatorial repository shall fill out a Request to Serve as an Approved Museum or Curatorial Repository for Held-in-Trust Collections form, signed by the director of the institution and must evidence reputable status with any of the following credentials (or their equivalent successor museum program/designations):

   a. Received from the American Association for State and Local History (AASLH) silver or gold certificates by participating in the Standards and Excellence Program for History Organizations (StEPs) in the stewardship of collections section within the last five years.
b. Show evidence of participation in the Museum Assessment Program in the area of collections stewardship from the American Alliance of Museums within the last five years.

c. Received Core Documents Verification from the American Alliance of Museums within the last five years.

d. Received and maintain formal Accreditation status from the American Alliance of Museums.

e. Considered a designated Federal Repository for curating federally-owned and administered archaeological or paleontological collections under the requirements of Federal Regulations 36 CFR 79.

3. Provide proof to the state archaeologist of a fine art or other appropriate umbrella insurance policy that will adequately cover the care for the state collection from any one claim or aggregate claim arising from a damage or a loss incident. With the insurance policy documents, the society and the approved museum or curatorial repository should be shown as co-beneficiaries (or additionally insured).

a. If the museum or curatorial repository's collections are primarily owned or overseen by a Colorado governmental entity (considered a "public entity" within the meaning of the Colorado Governmental Immunity Act, CRS 24-10-101, et seq.), the museum or curatorial repository must indicate to the state archaeologist that they are self insured in lieu of the fine art or other umbrella insurance policy requirement stated above. If self insured, it is understood that the public entity of the approved museum or curatorial repository will ensure liability to the state collections under its care arising from a damage or a loss incident.

b. In the event of a loss incident, a liability assessment of the value of the collection shall be determined by mutual agreement with the society as the sum of the estimated current fair market value and the estimated costs of replacing the scientific and educational information from the lost artifacts or specimen. A determination of these replacement costs may include, but are not limited to: (a) research design development; (b) fieldwork; (c) laboratory analysis; (d) curation; (e) reports or educational materials; and (f) lost visitor services or experience. In some cases, it may be appropriate for the estimated cost of replacement value to be peer reviewed by archaeologists or paleontologists with appropriate expertise and with no conflicts of interest.

4. If the museum or the curatorial repository curates collections from permitted researchers outside of their approved institution, provide a template copy of a "curation" or similarly worded “intent-to-curate” agreement for approval by the state archaeologist or his/her designee. The agreement form must clearly acknowledge that title to the artifacts or specimens as well as all associated reports, original field notes, maps, drawings, photographs etc., resulting from the investigations to be curated remains solely with the State of Colorado.

5. Approval of a museum or a curatorial repository shall be effective for a period of five years, after which time, the curatorial facility may apply for renewal through the procedures in this chapter.

6. The completed documentation shall be reviewed by the state archaeologist or his/her designee within 30 days of receipt. If clarification or additional information is requested by the society, the facility shall have 30 days to furnish the information required.
7. The museum or curatorial repository may discontinue accepting new collections from outside researchers by amending their agreement upon renewal to serve as an approved facility. Once approval of a museum or a curatorial repository has been granted however, the express trust arrangement with the State of Colorado continues and is perpetual for any of the existing collections under the institution's stewardship.

8. The society has sole discretion to approve or not approve a museum's or curatorial repository's application.

9. Approval may be withdrawn by the society through the state archaeologist if deficiencies in collections care and non-compliance to these regulations appear. Approval will be suspended or revoked in accordance with CRS 24-4-104.

10. Under the authority of CRS 24-80-407, the society may exercise the right to enter into agreement with museums, curatorial repositories, or other public or private entities to fulfill the State’s needs for held-in-trust state collections concordant to these rules and regulations.

11. For each deposited historical, prehistorical, archaeological or paleontological state collection, the approved museum or curatorial repository will sign and acknowledge an official deposit receipt form with a simple inventory list of items accepted for permanent curation by the facility, a copy of which will be forwarded to the state archaeologist or his/her designee.

J. Continuance of pre-approved museums and repositories

1. Previously approved non-expiring museums and curatorial repositories shall honor existing “intent to curate” or similarly worded executed curation agreements with third-party researchers (permittees) up to five years after the effective date of these revised rules unless individual contractual agreements expire within five years. Notice from an approved museum or curatorial repository for continuing the acceptance of collections from previously dated permittee agreements must be given to the state archaeologist of Colorado or his/her designee within 30 days after the expiration date for renewal of approved status. The notice shall be made through the Request to Serve as an Approved Museum or Curatorial Repository for Held-in-Trust Collections form and the museum or repository must list the number and names of all outstanding agreements along with their expiration dates. Extended approval of these previously approved museums or curatorial repositories shall then be made for a period of up to five years based on furthest dated agreement and shall not extend beyond five years following the effective date of these adopted and revised rules.

2. Museums or curatorial repositories that hold in custody held-in-trust state collections that were collected as a result of CRS 24-04-104 that decide not to become a newly approved museum or curatorial repository under these revised rules should nonetheless attempt to provide the highest possible level of care to the existing state collections currently maintained in their facilities. At a minimum, a level of care that prevents deterioration of, damage to or loss of items in the state collection should be maintained.

3. Within five years of the effective date of the adoption of these revised rules, previously approved non-renewing museums or curatorial repositories should either submit a plan for the state archaeologist of Colorado's approval regarding the continued care and management of the state collection or plan for the transfer of the state collections to a museum or curatorial repository approved under the revised 8CCR 1504-7 Section 9 (I) of this chapter.
K. Responsibilities of permittee submitting collection

1. In choosing a museum, permittees should attempt to keep the collection in its area of origin and to keep materials from the same site and the same project together. Permittees should confer with staff of the selected museum and have a written agreement whose template language was approved by the state archaeologist or his/her designee as specified in Section I (4) of this chapter prior to collecting materials in the field.

2. Permittees should follow the guidance of museum staff in regard to collecting procedures. The permittee should adhere to any specific methods of labeling, packaging, and shipment required by the museum and the state archaeologist’s current Submission Guidelines for State-Owned Archaeological Collections. All collections must be placed and delivered within inert and acid-free packaging.

3. The permittee is responsible for returning to the office of the state archaeologist a fully signed official state deposit receipt form by the approved museum, curatorial repository, on-site agency, or institution and the office of the state archaeologist of Colorado. The form must be accompanied by a simple inventory list of items accepted by the approved facility for permanent curation.
Guidelines and Procedures

2. Submission Guidelines for State-Owned Archaeological Collections

Submission Guidelines for State-Owned Archaeological Collections
(Revised January 23, 2018)

These guidelines are offered by the Office of the State Archaeologist (OSAC) to strengthen the statewide curation network. They list standard best practices for collections submitted to Colorado repositories under the authority of a State permit for archaeological work. Please be aware that individual State repositories may have more stringent requirements that will supersede those listed below.

Organization and Container Storage Standards

All archaeological collections submitted must reference the official State of Colorado Smithsonian Trinomial Site Number. It is also assumed—with rare exceptions—that material collections to be housed have already been analyzed, and therefore artifact cleaning, conservation, and inventorying have been completed. While specific guidelines are formulated by each repository, at a minimum each State permit holder should ensure the following common best practices.

1. Material collections must be accompanied by all documenting records (held-in-trust collection inventory form or substitute inventory “catalog”, a copy of the official receipt for deposit form, field notes, site forms, photos, maps, reports, formal letter of transfer/ownership or deeds of gift, and other contracts preferably printed on acid–free archival paper). An explanation of the indexing method used to organize the boxed materials should also be provided. In addition to the secure hardcopies, documentation in digital format may also be submitted to the repository if they have the means to store these data, as well as an established policy for secure data archiving and migration. If the facility lacks these means then these digital data can be submitted to our office as part of the annual permit report.

2. All materials should be cleaned and preserved using appropriate reversible, nondestructive techniques. Documentation should include a record of any applied techniques performed on any artifact. Justification and repository approval should be provided for retaining any soil matrix adhering to any artifact for future analysis.

3. Specimens needing ongoing conservation should be separated and documented. Exceptional specimens should be noted. If ongoing conservation needs are anticipated, a plan should be drafted to address their long term conservation requirements.

4. All specimens or collections should be labeled or bar-coded individually in accordance with the cataloguing, and labeling systems of the repository. Since the State holds title
interest in the items being deposited, approved museums and repositories should not assign permanent accession designations to the collection or individual items as these collections are considered to be held-in-trust by the museums and repositories for the benefit of the State of Colorado. Our office should be consulted to determine labeling standards if the repository has not adopted formal standards for cataloguing and labeling.

5. Typically specimens should be individually labeled (with a reversible base coat and indelible stamp, india ink, bar-coded, etc.) with a site designation and field provenience. If specimens are too small to be numbered individually and/or for large groups of similar specimens are from the same provenience, then they may be put together in labeled, appropriately sized acid-free containers.

6. Acid-free fabric or acid-free paper tags should be appropriately affixed to perishable or fragile specimens that are not to be directly marked upon.

7. All artifact bagging should be done with archival quality plastic, rather than paper bags in accordance with the packaging system of the repository.

8. All boxed containers housing bagged materials should be stable and sturdy, in acid-free boxes and should fit the size/shape requirements of the collection and the repository. In our experience storage boxes are typically no larger than one cubic foot, but there will necessarily be exceptions.

9. Larger containers, such as acid-free storage boxes, should be labeled with permanent markers/india ink or appropriately affixed printed labels on their exterior surfaces. Labels in or on containers should provide the following information: site designation, project name and date, provenience data, analytical group, and number of specimens.

10. Following any artifact study, analytical categories (flaked lithic materials, groundstone, etc.) should be maintained but not disassembled from field provenience organization for housing the collection. For instance obsidian samples removed for specialized sourcing must be returned to their field provenience bag after the analysis has been completed.

11. A held-in-trust collection inventory list should accompany each collection. This inventory or “catalog” must accurately reflect the quantity of the material and the analysis and packaging order. Analytical group designations on inventories should correspond to those used in the final report and on packaging labels. This list should also be made available in an electronic format (such as a standard MS Excel spreadsheet) that is provided to both the repository and OSAC as part of an issued State Permit’s annual and final reporting requirements. Artifact/specimen quantities for annual and final reports should corroborate. Please refer to our office’s official receipt for deposit form and its attached inventory sheet example for minimum reporting categories.

12. The quantity of bulk samples (e.g., matrix, soil, burned rock) to be curated should be discussed with the repository prior to any acceptance. A determination must be reached by both the donor and the repository with regard to their acceptance. The determination of acceptance should give comprehensive consideration to the potential of specimens for future research and to the limited space for housing in most repositories.
Statement of Transfer/Ownership Requirement

Each collection of artifacts to be deposited at a state-approved repository should be accompanied by a signed statement of ownership by the collector or a signed Deed of Gift from the private landowner. The signed and dated statement must indicate the owner’s name, legal address and contact information. The owner may be a State governmental agency (e.g., Colorado Parks & Wildlife), a political subdivision (City, County, local, district), a private landowner, or corporate or business entity. Note that private landowners or entities must negotiate directly with each repository for curation agreements unless either through contract or assignment an archaeological consultant assumes the role of legal agent for the private owner.

Copies of any and all artifact contracts, memoranda of agreement (MOAs), memoranda of understanding (MOUs), or other agreements, between an archaeological consultant and the contracting agency or private landowner must accompany the materials delivered for curation. Copied records should be reproduced on acid-free paper. Photographic records (i.e., slides, negatives, prints) should be enclosed in acid-free polyethylene holders or sleeves. All records must be placed in a logical order and especially large collections should be individually indexed.

(These guidelines will be subject to review by OSAC at least every five years)
Reference Materials and Guidance

1. Repository Collections Policy Template

Repository Collection Policy – Template
Based off American Alliance of Museums Developing a Collections Management Policy (2012)

Mission

[State the mission of the repository and what it hopes to accomplish with its collections, such as research opportunities for students or researchers, and preserving collections]

Vision

[What you and others wish to see happen with the repository and collections, including current and future visions]

Statement of Authority

[Who manages the collections? Who assists with the collections? Where are they housed? Who is the governing body associated with the repository institution and collections? Answering these questions provides a line of authority and responsibility for the repository’s collections, state-owned collections, and federal-owned collections]

Code of Ethics

[Both institutions and organizations follow different (or similar) ethics that are associated with collections, and historical and prehistoric materials – whether that be archival, archaeological, ethnographic, paleontological, environmental, or other applicable materials; these ethics can be searched online, with the Statement of Professional Standards and Ethics (June 2012) by the American Association for State and Local History (AASLH) serving as a good outline for applicable ethics to an institution]

Scope of Collections

[Here is where you will state what the purpose of your institution is in regard to the collections you are currently housing, including archives, archaeological collections, museum collections, and associated documents or materials, as well as a brief overview of what is contained in your collections, which will be expanded upon in the next section]
Types of Collections

[This provides you the opportunity to state the collections you have, including archival or library collections, education (collections used for educational purposes), exhibition (collections used for exhibits), permanent (collections in the institution’s care that will remain in their care), research (collections used by students or researchers for research), or collections held under a repository or management agreement (i.e., state- or federal-owned collections); also include how these collections are used, acquired, and cared for – a brief explanation will do, but enough to describe what is in your care]

Acquisitions/Accessioning

[State your policy for acquiring collections and accessioning them, legally adding them to an institution’s database or collections; here, institutions will outline the criteria and decision-making process, and involved institution parties involved with acquiring and accessioning collections]

Deaccessioning/Disposal

[State your policy and reasoning behind deaccessioning/disposing of collections or materials, this will usually involve a collection not applying to an institution’s mission, allowing the institution to deaccession and transfer collections to an institution that could make use of these collections, or disposing of these collection with proper reasoning or criteria met; also outline the methods of deaccessioning/disposal from databases, removing the physical collection, and documentation of the process]

Loans

[Outline how potential borrowers of institutional collections may loan out certain collections and which collections are available for loan – this will usually include a Loan Agreement Form (these can either be internal for research, teaching, or exhibition, or external for the same reasons); Condition Reports are also a good idea to document the collection/material before and after the loaning period]

Conservation/Care

[What do the rooms/areas where collections are stored look like? What is the environmental control for the room? Are there pest control methods? How do you conserve the collections or materials? How do volunteers and staff handle the artifacts? Providing this information gives a base line for storing and caring for collections in the institution]
Insurance and Risk Management

[Does the institution have insurance on the collections? What is the insurance policy for the collections? Fire detection and fire suppression? Security? Other risk management in the storage facilities? Mentioning an Emergency Response Plan here will also help and can provide more details on the brief summary provided here for risk management]

Documentation, Collection Records, Inventories, Objects in Custody, and Conservation/Care

[What documentation and records are there for collections? Are they physical and where they stored? Or are they on a database? Also, how will the institution handle objects that are abandoned or do not have a clear connection to a collection? How will the institution care and conserve objects and collections? This section provides further information on the collection and how the institution handles them, and the information associated with them]

Access

[Who has access to these collections and their records? Are they available to the public or researchers? Are they available for educational purposes? States who handles the collections for the institution/repository and who, outside of the institution/repository, is allowed to handle them]

Appraisals

[Appraisals can help with identifying parts of collection and insurance policies for the collections; outline who can appraise the collections and the process of bringing in a specialist for appraisal, if needed]

Legal and Ethical Considerations

[A brief examination of laws that pertain to holding collections and objects may be helpful for this section, such as NAGPRA (1990), NHPA and Section 106, and local or state regulations; for a brief summary of some of these laws, they refer to objects or artifacts that are: stolen, looted or reappropriated art, archaeological material removed from federally owned or controlled land, and issues relating to the Native American Graves Protection and Repatriation Act (NAGPRA); also a place to state that no selling of collections or objects will be considered or carried out for profit]
Intellectual Property

[Addresses copyright and intellectual property laws that pertain to certain objects or collections, being aware of said laws, and how the institution will handle accepting (or not accepting) these objects or collections]

Review/Revision

[A section identifying when and why updates may need to be applied to an institution’s collection management policy, and who will carry out this process of review and revision]

Glossary

[A brief glossary of terms and vocabulary used in the collections management policy for staff, volunteers, and board members to review]

For State Collections:  

Section 9 (2017)

Section 9 of the Historical, Prehistorical, and Archaeological Resources Act of the State of Colorado provides rules and procedures for housing State Collections by a State Repository (note that Section 9 is available for review at historycolorado.org under “State-Approved Museums and Curatorial Repositories”). Below is listed a summary of Section 9 and should be considered or referred to before any memorandum, agreement, or consideration to house a State Collection. What your institution plans to do with State Collections, whether current or future, should be stated within your Collection Policy. When the next chance to update your Collection Policy appears, any addition of a State Collection (in general) should be stated and addressed accordingly. Section 9 details this process, but here is a condensed guide on what needs to be considered when preparing for a State Collection (note that State Collections WILL BE held in perpetuity – pay attention to this in any contract, memorandum, or agreement; be prepared for this):

State Repository Curation:

- Colorado owns any collections (historical, prehistorical, and archaeological) from areas owned by the state or any of its political subdivisions;
- Institutions who wish to enter a partnership for State Repository-status will also be entering a collaborative partnership with the State of Colorado in interpreting, preserving, and education (if applicable) of these collections;
- These collections, unlike Federal Collections, must be accessible to the public and available free of charge for study by qualified students and researchers, this includes:
Guidebook for State-Owned Collections

- Having a relevant insurance policy relating to the institution regarding fine art or material culture, or acknowledging that State-Owned collections are covered for liability from any loss or damage, as they are state property;
- Intent-to-Curate agreements by State Repositories to third-party researchers must have their agreement language approved by the State Archaeologist or his/her staff;
- Within 10 days refer all written or oral transfers or repatriations of a state collection to the State Archaeologist of Colorado;
- DO NOT release any location information on the Collection to any third party, except to qualified researchers or receiving written permission from the State Archaeologist of Colorado;
- Be open and subject to inspection by the State Archaeologist or his/her designee at least once every three years;
- Accept State Collections related to specific regional or local area guided by these rules and the State Repository’s Collection Management Policy;
- Annually report the State Collections condition, insurance policy changes, loan agreement status, and “any other tracking requirement methods adopted by the society and the Office of the State Archaeologist”
- Properly maintain State of Colorado property associated with the care of the State Collection
- Maintain proper storage practices, such as acid-free storage or packaging
- Must receive written permission from the State Archaeologist to: repatriate, not sell, transfer, assign, pledge, encumber, discard, or otherwise dispose of any part or the whole of the State Collection;
- Established Collections Management Policy and Emergency Management Plan

Approval for State Repositories:

- Must apply through the State Archaeologist;
- Fill out a Request to Serve as an Approved Museum or Curatorial Repository for Held-in-Trust Collections
- Approval of a State Repository shall be effective for 5 years, after which time the Repository may apply for renewal through Section 9 procedures
- An official deposit receipt of State Collections and agreement must be signed to acknowledge that the State Repository is in-holding of the State Collection

Resources Cited:

American Alliance of Museums (AAM)
2012 Developing a Collections Management Policy. Department of Higher Education of Colorado
Reference Materials and Guidance

2. Pocket Response Plan

The Pocket Response plan is a printable document that outlines the response to an emergency in regards to the collections held by the repository. The document is one sheet of paper double sided that will be placed in a waterproof sleeve. Side A holds all the necessary contact information for individuals and organizations that will need to be contacted during the first minutes and hours of an emergency. Side B has all the appropriate responses for particular types of emergencies and includes who should be contacted from Side A. Several copies should be kept in well-known places as well as alongside your comprehensive emergency plan. This does not negate the need for a comprehensive emergency plan, but rather includes all of the most immediate actions to be taken in an accessible one sheet format. A sample pocket emergency plan is pictured below; to edit and print the form find it here on History Colorado’s website.
Reference Materials and Guidance

3. Outgoing Loan Agreement

Outgoing Loan Agreement Guidelines for Held-In-Trust Collections

History Colorado encourages exhibition of held-in-trust archaeology and fossil collections through proper execution of museum/repository loan agreements. Pursuant to History Colorado’s and the State-Approved Museums and Curatorial Repositories program rules and policies (8 CCR 1504-7, Section 9); this guidance is intended to aid institutions with outgoing loan best practices.

Basic Pre-Requirements

Length of Loans. All loans should typically be made for three (3) years or less. Loans of greater length pose a risk of loss of control of the collection. A best practice actually is to grant only one (1) year loan agreements that may be renewed upon review and re-approval not to exceed a three-year continuous period. This arrangement allows for a yearly check on the status of the loan and greater assessment on the condition of the artifacts/fossils by the lending institution.

Entities that May Borrow. With rare exceptions, State collections should not be loaned to individuals. However, institutions may loan materials from one research institution/museum or repository to another, thereby providing researchers access to the materials at the nearest museum or repository. Many repositories also allow for the loan of microfilm, photocopies, or facsimiles, as opposed to original records.

State Requirements of Outgoing Loan Agreements

Notice Requirement. As stated in the State-Approved Museums and Curatorial Repository rules and procedures (8 CCR 1504-7, Section 9), held-in-trust state collection may be loaned out to other institutions and organizations by securing a loan agreement between the other facilities provided notice of the arrangement is sent to the State Archaeologist (c/o the State Curation Coordinator) for tracking purposes. Notices must include at a minimum: the artifact(s)/fossil(s) description, catalog number(s), the Colorado Smithsonian site number(s) from which the artifact(s)/fossil(s) are derived, the full borrowing institution’s contact information (i.e. name, contact, address, phone, e-mail), the type of loan (e.g. exhibit, conservation, fossil prep, research etc.) and the duration of the loan.

When is Permission from the State Archaeologist Required? Permission is required if a loan is proposed and initiated by a researcher for out-of-state study or for any destructive analysis (beyond fossil preparation or destruction of ancillary samples) (see page 5 for more information on requesting permission). If the loan is initiated by a State-Approved Museum/Repository for exhibition, conservation, in-state study or fossil preparation purposes prior approval from the State Archaeologist is not required however all loans must be reported by giving notice to the State Archaeologist (c/o the State Curation Coordinator) as described above.
**Responsible Party.** The director of the approved museum or curatorial repository is responsible for all loan transactions of state collections and for ensuring that appropriate and timely administration of the loans is conducted.

**Loan Inventories are Required.** Relocation inventories must be conducted and included as part of the written loan agreement.

**Insurance is Required.** The loan and transportation of the state collection must be insured for liability purposes through securing a commercial fine art or other insurance policy or be adequately covered by governmental self-insurance to fulfill any damage or loss incident. Collections that are not inventoried or cataloged shall not be loaned.

All loaned objects must be covered by insurance in the full amount of the value (fair market plus estimated replacement value) specified by State-Approved repository from the time the objects are removed from the repository until they are returned in satisfactory condition. Coverage afforded must be “all risk,” “wall to wall” (“nail to nail”). As proof that the loaned objects under the borrower’s policy meet this specification a certificate of insurance, indicating that the State-Approved Museum/Repository and History Colorado (State of Colorado) are shown as additional insured under the policy should be forwarded to the lending State-Approved Museum/Repository prior to the shipping date.

The loaning museum/repository as well as the borrower must understand that in the event of a total collection loss, a liability assessment of the value of the collection shall be determined by mutual agreement with History Colorado as the sum of the estimated current fair market value and the estimated costs of replacing the scientific and educational information from the lost artifacts or specimen. A determination of these replacement costs may include, but are not limited to: (a) research design development; (b) fieldwork; (c) laboratory analysis; (d) curation; (e) reports or educational materials; and (f) lost visitor services or experience. In some cases, it may be appropriate for the estimated cost of replacement value to be peer reviewed by archaeologists or paleontologists with appropriate expertise and with no conflicts of interest.

**Commercial Use is Prohibited.** Commercial use of a State collection is prohibited without written consent from History Colorado.

**Ancillary Samples Do Not Require a Loan Agreement.** Ancillary samples defined as organic or inorganic specimens, other than human remains or artifacts, gathered by scientists for the purpose of analysis to provide information on past environments, diets, chronology, or material source areas. Ancillary samples may include, but are not limited to: charcoal, wood, soil, coprolites, and floral or faunal specimens. Such objects may be transported and analyzed without a formal loan agreement; however, the museum or curatorial repository will provide to History Colorado two copies of any publications, reports, and other documents prepared by researchers studying ancillary samples.

**Credit Line.** All exhibits, reproductions, and studies will credit the State Archaeologist of Colorado as follows: “Courtesy of History Colorado, Office of the State Archaeologist.”
museum or curatorial repository will also provide to History Colorado two copies of any publications, reports, and other documents prepared by museum or curatorial repository staff studying or exhibiting the state collection (or any part thereof).

**Damages.** Damages, whether in transit or on the borrower’s premises, and regardless of responsibility, shall be reported immediately to the outgoing State-Approved repository that is loaning such objects. Within five calendar days of the discovery of any loss or theft of, deterioration or damage to, destruction of the state collection (or any part thereof), or any State property used to support and care for a state collection, the lending State-Approved museum/repository will provide to the Office of the State Archaeologist’s State Curation Coordinator written notification of the circumstances surrounding the loss, theft, deterioration, damage, or destruction, and actions taken to stabilize it. This includes any supporting state property (shelving/cabinets etc.) and efforts to correct any deficiencies in the operating procedures or environment that may have contributed to the loss, theft, deterioration, damage, or destruction.

**Condition of the Collection.** Borrowers should agree to maintain the loaned objects in the condition in which they are received and not to permit cleaning, repairing, retouching, or alteration of any kind without the outgoing loaned repositories prior written consent. Other than routine, small and simple paleontological specimen or artifact mending repairs, any planned actions that involve major repair or restoration beyond basic re-attachment of the state collection (or any part thereof) or any other State of Colorado property associated with the state collection must be approved of in advance after consultation with the State Archaeologist. The agreement should describe the condition of the item when it was loaned, noting any blemishes for which the recipient should not be held accountable and providing the lender with a means to demonstrate the condition of the item when it left their care in case it is returned damaged. Some institutions may ask for a special condition report to be filled out and returned by the borrower.

**Title and Rights.** Loan agreements do not confer on the borrower any right, title, or interest in a held-in-trust State collection. All State-owned objects remain the sole and exclusive title of the State of Colorado. The borrower should also agree to return such objects immediately upon demand by the State-Approved Museum/Repository or if the lending repository is in breach of a loan contract/agreement as History Colorado may direct.

**Other Common Standard Terms and Conditions**

**Stable Condition.** Loans should only be made if the subject object(s) are in stable condition and appropriate for the purpose of a loan (except when loaned for repair).

**International Loans.** Foreign, out of country loans must address all packing, shipping, insurance, destination, and customs information. Loans out of the country can be complicated due to language barriers, customs and government rules. It is best to seek the advice of legal counsel when dealing with international loan requests.

**Exposures.** Borrowers should not expose loaned objects to damage from unfiltered ultraviolet radiation, biological agents, or unstable environmental conditions.
**Transportation Costs.** Borrowers should agree to pay all costs involved in the transportation of loaned objects, including framing, matting, packing, crating, shipping, and for the hiring of special packers when such hiring is deemed necessary.

**Lender’s Contact Information.** Lender’s name and full contact information. This will enable the recipient to easily contact the lender if a question arises about the loan or the item.

**Borrower’s Contact Information.** Recipient’s name and full contact information. This will enable the lender to easily contact the recipient if a question arises about the loan or the item.

**Loan Purpose.** The agreement should describe why the item(s) are being loaned and how it will be used. For example, is the item to be used in an exhibit that will be open to the public? Is the item to be displayed at a private fundraising reception? Is the item to be used by the recipient’s staff for research purposes? Is the item being provided to a vendor or other institution to be scanned?

**Description of the Artifacts/Fossils.** The agreement should carefully describe the item so that it can be readily identified. Please use the official site number (e.g. 5AM2), site name and artifact/fossil description (e.g. three pound two-handed red sandstone mano with small hatch indent on the largest flat surface).

**Storage and Exhibition Requirements.** Some repositories will include information on how the item must be stored and/or exhibited.

**Signature, Title, and Date.** Representatives of the lender and borrower, who are authorized to enter into a legally binding document (e.g. the historical society president or director of a museum), should sign and date the loan agreement.

**Acknowledgement of Return.** The loan agreement should include an area to be completed upon the item’s return in which a representative of the lender acknowledges that the item was received and notes the condition upon return.

**Security.** Regardless of the type of loan, certain security procedures should be in place to protect the artifacts/fossils. Evidence of security procedures must be present before a loan agreement is signed. At a minimum, it is best practice to maintain loaned objects securely within a 24-hour-a-day security alarm system.

**Legal Note.** Only one document can govern any loan transaction. Multiple loan agreements for the same action cannot be enforced. The last one signed will invalidate earlier signed forms. If the museum has specific concerns or specific requirements not addressed on the borrower’s agreement, the lender should amend the loan agreement provided by the borrower as needed rather than issuing another outgoing loan agreement.

Outgoing loan agreements are contracts and should be vetted by your legal counsel.
For Researchers and Permit Holders

Out of State Analysis or Study. Permittees and researchers proposing to transport collections out of the state of Colorado must secure a loan agreement between an out-of-state facility and a permanent approved on-site institution, reputable in-state museum, or curatorial repository, subject to the approval of History Colorado (via the State Archaeologist). Ancillary samples however may be transported and analyzed without such a loan agreement or prior approval from History Colorado. Any proposed out-of-state analysis of human remains and associated funerary objects is subject to the approval of History Colorado.

To request permission to transport State artifacts/fossils out of state please fill out and return Form #1656, the Request for Non-Destructive Out-of-State Transportation Approval for Held-In-Trust Artifacts or Fossil Specimen found on-line HERE or from following pages of this document.

Destructive Analysis Request. Proposed analysis of artifacts or fossils, which would cause their destruction or damage, such as trace-element analysis of materials, may be performed only with the written consent of History Colorado through the State Archaeologist, who shall consider whether such artifacts are unique or duplicated in state-owned collections. If part of the artifact/fossil will remain intact after the analysis is completed and will be returned to the repository for continued curation, an outgoing loan agreement must be issued for the artifact(s)/fossil(s). The Office of the State Archaeologist will supply notification of consent to the affected museum within thirty days, after filling out and sending back to the Office with the proper request form.

To request permission to perform destructive analysis on State artifacts/fossils please fill out and return Form #1647, Request for Destructive Analysis Approval of Held-In-Trust Artifacts or Fossil Specimen found on-line HERE or from following pages in this document.
OUTGOING LOAN AGREEMENT

This agreement is between (REPOSITORY NAME) and the borrower whose name appears below (herein called the Borrower), and provides for the loaning of the object(s) described below, for the purpose of exhibition or study and subject to all terms and conditions of this agreement.

<table>
<thead>
<tr>
<th>Loan Period:</th>
<th>DATE TO DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borrower:</td>
<td>NAME OF INSTITUTION</td>
</tr>
<tr>
<td>Contact Name:</td>
<td></td>
</tr>
<tr>
<td>Title:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City, State, Zip:</td>
<td></td>
</tr>
<tr>
<td>Office phone:</td>
<td>XXX-XXX-XXXX</td>
</tr>
<tr>
<td>Email:</td>
<td></td>
</tr>
</tbody>
</table>

| Description: | |

<table>
<thead>
<tr>
<th>Object ID</th>
<th>Object Information</th>
<th>Current Value</th>
</tr>
</thead>
</table>

Total Loan Value: $0.00

Shipping Instructions:

Note:

INSURANCE COVERAGE TO BE ASSUMED BY: [BORROWER]

Signature below signifies acceptance of all Terms and Conditions of this agreement.

Borrower: [Signature], [Name], [Date]

Repository Name: [Signature], [Name], [Date]

Printed Name/Title: [Signature], [Name], [Date]

Page 1 of 4

Page 2 of 4
Reference Materials and Guidance

4. Request for Out-of-State Non-Destructive Transportation Form

As directed by the Historical, Prehistoric and Archaeological Resource Act (C.R.S. 24-80-405(1)), the Office of the State Archaeologist has developed this form for permitted researchers, (subject to C.R.S. 24-80-406), to request permission to send artifacts or fossil specimen for non-destructive analysis or fossil/artifact preparation out of the State of Colorado. Artifacts or fossils that are still in the possession of a researcher while preparing a final report must facilitate execution of a loan agreement by the State repository to which the artifacts/fossils are accepted for deposit. This form may also be used for academic or other researchers who are proposing transportation of artifacts or fossils out of Colorado for non-destructive study or preparation currently curated by a State-Approved repository.

As specified under the Act’s State rules and procedure (8 CCR 1504-7, Sec. 9(C) 2), ancillary samples (e.g. charcoal, wood, soil, coprolites, and small floral or small faunal specimens from archaeology sites) are not subject to executing any loan agreement and do not require special permission from the Office of the State Archaeologist. All other state artifacts or fossil specimen however must follow the loan provisions of State rules and procedures (8 CCR 1504-7, Sec. 9(H) 3). Specifically this requires relocation inventories to be conducted and included as part of the written loan agreement of the repository. Other loan conditions must be addressed with the Collections Management Policy of the curatorial facility that will hold (or is currently holding) these collections in trust. The loan and transportation of the state collection must be insured for liability purposes through securing a commercial fine art or other insurance policy or be adequately covered by governmental self-insurance to fulfill any damage or loss incident. Commercial use of loaned collections are prohibited without written consent. Loaned material must be returned to the researcher and eventually to the repository in the State of Colorado within a maximum of three (3) years of study. For all artifacts, fossils or ancillary samples subject to study, the researcher or the repository will provide History Colorado two copies of any publications, reports, and other documents that result from the analysis.

Name of the museum/repository that has accepted the artifacts or fossil specimen for curation:
_____________________________________________________________________________________

Name of the museum/repository’s representative contact (please include title, phone and e-mail address):
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
Name of the researcher requesting the proposed analysis. Please provide the researcher contact information and permit number if applicable. [Academic and non-permitted independent researchers must attach a research proposal, proof of higher education enrollment (for students), supporting letter(s) from at least one sponsoring academic instructor (for students), approval from the State-Approved repository, and curriculum vitae with examples of completed/published works (for independent non-permitted researchers).] Please include the researcher’s full contact information (e.g. affiliation, mailing address, phone number and e-mail):

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Proposed analysis/preparation of the artifact(s) or fossil specimen (please describe with official Smithsonian site number(s), site name(s), etc.):
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Briefly describe the proposed research aim/goal(s) (and how will the results be disseminated?):
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Name and address of the out-of-state analysis research institution, firm or consultant (include representative contact name, mailing address, phone number and e-mail):
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
When will the artifacts/specimens be returned to the State of Colorado curating museum/repository or researcher?

How will the artifacts/specimen be insured for liability for the length of the loan and transportation from and back to Colorado? (Please attach any supporting documentation):

Thank You

The Office of the State Archaeologist will supply notification of consent to the affected museum/repository and researcher within thirty days.

(Please attach a draft loan agreement, featured above, prepared by the State repository, and after our Office’s approval, please forward an electronic signed copy of the executed loan agreement to the State Curation Coordinator)
Reference Materials and Guidance

5. Request for Destructive Analysis Form

1/20/2020

#1647

OAHP Tracking No.___________

For Internal Use Only

Request for Destructive Analysis Approval of Held-In-Trust Artifacts or Fossil Specimen #1647

As stated in the Office of Archaeology and Historic Preservation’s State Rules and Procedures, 8CCR 1504-7 (9)(B.3) proposed analysis of artifacts or fossils which would cause their destruction or damage may be performed only with the written consent of History Colorado through the State Archaeologist. Requests are granted with consideration as to whether such artifacts/specimen are unique or duplicated in other state-owned collections. Please note that under State rules and procedure (8 CCR 1504-7, Sec. 9(C) 2), ancillary samples (e.g. charcoal, wood, soil, coprolites, and small floral or small faunal specimens from archaeology sites) do not require special permission from the Office of the State Archaeologist, provided approval has been obtained by the State-Approved repository. For all other State artifacts and fossils, please fill out this form and attach any additional information necessary. The Office of the State Archaeologist will supply notification of consent to the affected museum/repository and research representative contact within thirty days.

Name of the museum/repository curating the artifact(s)/specimen____________________________________________________________________

Name of the museum/repository’s representative contact (please include title, phone and e-mail address):______________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

Name of the researcher requesting the proposed analysis (include State Permit number if applicable). [Academic and non-permitted independent researchers must attach a research proposal, proof of higher education enrollment (for students), supporting letter(s) from at least one sponsoring academic instructor (for students), approval from the State-Approved repository, and curriculum vitae with examples of completed/published works (for non-permitted independent researchers).] Please include the researcher’s full contact information (e.g. affiliation, mailing address, phone number and e-mail):

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________

_____________________________________________________________________________________
Proposed analysis of the artifact(s) or fossil specimen (describe with official Smithsonian site number(s), site name(s), artifact/specimen catalog no(s).(attach list if necessary)):

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Briefly describe the proposed research aim/goal(s) (and how will the results be disseminated?):

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Name and address of the analysis research institution, firm or consultant (include contact name, mailing address and e-mail):

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Describe the number and condition of remaining similarly curated artifacts/specimen in State-approved repositories:

_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________
_____________________________________________________________________________________

Will any remaining artifacts/specimens be returned to the curating museum/repository?

_____________________________________________________________________________________

If Yes, will the Museum/Repository issue a loan agreement with the place of analysis?

_____________________________________________________________________________________

Please forward this form and attachments to the State Curation Coordinator Thank You

The Office of the State Archaeologist will supply notification of consent to the affected museum/repository and researcher within 30 days.
Reference Materials and Guidance
6. Official Receipt for Deposit Form

Official receipt for deposit form for State of Colorado held-in-trust collections from an approved museum or curatorial repository for specimen and/or artifact curation

<table>
<thead>
<tr>
<th>State Verification of Collections</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Completed by OSAC)</td>
</tr>
<tr>
<td>Date Received:</td>
</tr>
</tbody>
</table>

State Archaeologist
History Colorado
1200 Broadway
Denver, CO 80203

The State of Colorado claims title to all artifacts and specimens recovered from State of Colorado county, city, town, district, or other political subdivision lands in the state. These collections must be managed consistent with State standards as stipulated in Section 9 of 8 CCR 1504-7 as they relate to the Historical, Prehistorical, and Archaeological Resources Act of 1973 (as amended 1990; C.R.S. 24-80-401ff). Cultural or paleontological resource permits for collecting activities require that the permittee facilitate the curation of artifacts and specimens in an approved museum or curatorial repository. Collections must be deposited at a repository for curation within six months of submittal of the permittee’s final report. Collections made from permitted archaeological or paleontological projects occurring over multiple years should not be deposited with different museums or curatorial repositories unless an approved museum, curatorial repository, on-site agency or institution, lacks expertise or environmental conditions necessary to ensure the collection’s long-term preservation.

This receipt for deposit form is required as a condition of the permit and must be completed for all approved museum and curatorial repository collections originating from State administered lands,
county city, town district or political subdivision lands, with their associated documentation. The attached inventory “catalog” of items should be submitted electronically if possible.

Instructions

1. All information requested on this form must be completed by the permittee and the repository officials.
2. Permittees must also provide an itemized inventory “catalog” list of objects, lots, samples, and associated documentation to be deposited and attached or sent electronically to the State Archaeologist or his/her designee with this form. The “catalog” inventory must include the site or locality designation, number of units per material type according to the State and the repository standards. A complete collection includes:
   - All artifacts, specimens, and environmental materials collected for deposit with provenience data
   - All survey or excavation records and logs
   - All maps showing locations and boundaries
   - All valid photographs, negatives, and/or slides and digital images
   - All analysis records, and copies of all reports and publications
3. A repository official must acknowledge receipt of the collection. Before signing, the repository official should compare the inventory to the actual objects and records being deposited.
4. After this form has been signed by the repository official, the original form along with the collection inventory “catalog” must be submitted the State Archaeologist or his/her designee by the permittee.
5. After submission to Office of the State Archaeologist (OSAC), the State Archaeologist or his/her designee may contact the repository to verify information from the inventory of collections deposited by the permittee.

Permittee Information

Project Name and Site Nos:

Permittee Name:

Address:
Certification of Collection Deposition to the Repository by Permittee

I, __________________________ (Permittee) certify that __________________________ (name of repository) has on this date, _____________, accepted the collections of objects, lots, samples, and associated documentation described on the attached inventory. Date:

________________________
Signature:

________________________
Date:

Complete or Partial Deposit (check one)

___ I certify that the attached inventory and/or digital file represent all materials and associated documentation from the work performed under this permit (complete deposit).

___ I certify that this represents a portion of the materials and associated documentation. The attached sheet and/or digital file lists what materials are not yet deposited, the reason they are not deposited at this time and when they are expected to be deposited (partial deposit).

Curation Facility Information

Repository Name:

Address:

City, State Zip Code:

Telephone Number,
Web site and E-mail:

Official Authorizing Receipt (name and title):
Guidebook for State-Owned Collections

Tracking Designation Assigned
by the Repository:

Receipt of Collection Statement by the Repository Official

I, _____________________________ (print name of repository official) certify that the ____________
__________________________ (name of facility) has on this date___________________, accepted the
collections of objects, lots, samples, and associated documentation described on the attached inventory
from or separately submitted digital file.

Signature: _____________________________

Date: _____________________________
## 7. Sample Inventory Form

<table>
<thead>
<tr>
<th>Description</th>
<th>Artifact Code</th>
<th>Artifact Number</th>
<th>Number of Pieces</th>
<th>Date Acquired</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artifacts</td>
<td>A001</td>
<td>123456789</td>
<td>5</td>
<td>2010-01-01</td>
<td>Stored</td>
</tr>
<tr>
<td>Manuscripts</td>
<td>M002</td>
<td>987654321</td>
<td>3</td>
<td>2012-02-02</td>
<td>Archival</td>
</tr>
<tr>
<td>Photographs</td>
<td>P003</td>
<td>1234567890</td>
<td>10</td>
<td>2015-03-03</td>
<td>Digitized</td>
</tr>
</tbody>
</table>

**TOTAL ITEMS:** 11

**Notes:** The items are stored in the museum's locked vault. Access is restricted to authorized personnel only.
Reference Materials and Guidance

8. Collection Labeling and Packaging Guidance

Print Edition 1.2
August 2010

Collection Labeling and Packaging Guide
Antonio J. Waring, Jr. Archaeological Laboratory

Archival labeling and packaging of objects, or groups of objects, are essential for the preservation and use of materials within an archaeological collection. Proper packaging and labeling ensures that collection information, most importantly that associated with the object's provenience, is maintained and accessible. A curated archaeological collection and its component parts are not simply warehoused. The information contained within each collection has continuing value and is useful for a wide variety of purposes, including scholarly research, specialized analysis, heritage education, and public exhibition. On many occasions, an individual object or small group of objects needs to be removed temporarily from the collection. A well-organized collection, properly labeled and packaged, effectively limits the possibility of information loss that can occur when an object has to be separated from its associated collection.

The information provided in this Guide is meant to supplement, but not replace, the Standards for Archaeological Curation for curation at the Waring Laboratory. The labeling and packaging measures detailed here conform with standards defined in Curation of Federally Owned and Administered Archeological Collections (36 CFR 79) and are compiled from information primarily derived from the American Association of Museums, the U.S. Army Corps of Engineers (St. Louis District), and the National Park Service. The Waring Laboratory recognizes that these methods and materials may be required due to the specific nature of a collection and its parts. Departures from the specifics outlined in this Guide may be acceptable, if necessary and justified, as long as professional archival standards are maintained and the alternate methods preserve provenience information and facilitate use of the collection. Any variance must be approved in advance of depositing the collection with the Waring Laboratory.


Cataloging

Each collection must be accompanied by three copies of a clearly identified Artifact, Document, and Photo Catalog in archival printed form and on a PC formatted disk or CD in a Microsoft Excel® or ASCII tab-delimited file format.

Cataloging Artifacts

The Waring Laboratory does not mandate the specific type of artifact catalog system used. Catalog groups may be defined by analytic categories or classifications more specific than that provided by material class identification. Regardless of the artifact catalog type, the artifact catalog must have a unique catalog number for each catalog record and include a quantified count; a description, associated provenience information, excavation date, and site number (if available). The artifact catalog must clearly reflect the organization of the artifacts so each inner artifact bag contains only one unique number and be identified on the artifact catalog with that same number. Counts are required for all material except crumbling bone, fractions, charcoal, and C-14 samples. Weights are recommended for all material except for C-14 samples. Additional columns may include measurement, field number, restrictions, and other essential information. Refer to the table below for an example.

<table>
<thead>
<tr>
<th>Mandatory Artifact Catalog Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unique #</td>
</tr>
</tbody>
</table>

Cataloging Photos

The photo catalog must include a unique photo identification number (field number if non-digital or file name if digital), date the photo was taken, provenience information (site, feature number, and/or location), description, photographer’s name, camera used, project name, and format (e.g., tiff, 35mm). Digital photos are accepted, but all unnecessary photos must be culled and not included in the collection (i.e., pictures of pets and fun in the field). It is not necessary to document which photos were discarded. Any altered images must be noted. The preferred format for digital photos is .tiff, which can be changed to be the default on most cameras. The digital photo’s file name must serve as the unique photo catalog number to allow proper correlation between the photo and the digital data. An electronic listing of all files within a PC folder directory can be generated with the command: “dir > filename.txt” at the command prompt. Then the files can be cut and pasted from the “filename.txt” file into a spreadsheet program.
Cataloging Documents

The document catalog minimally must have a complete description, document creation date, and folder number. An example of a document inventory with multiple projects and suggested categories is shown below. Other specific or additional categories may be required.

<table>
<thead>
<tr>
<th>Document Catalog</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLECTION INFORMATION:</td>
</tr>
<tr>
<td>ACCESSION NUMBER</td>
</tr>
<tr>
<td>COLLECTION OWNER</td>
</tr>
<tr>
<td>PROJECT / SITE NAME</td>
</tr>
<tr>
<td>OFFICIAL STATE SITE # [s]</td>
</tr>
<tr>
<td>SubCollection &amp; Folder#</td>
</tr>
<tr>
<td>1.1. Artifact Inventory From Site 9A318</td>
</tr>
<tr>
<td>1.2. Field Notes By John Doe</td>
</tr>
<tr>
<td>1.3. Field Notes By John Doe</td>
</tr>
<tr>
<td>Project Map</td>
</tr>
<tr>
<td>1.4. Bound Report: Report Title</td>
</tr>
<tr>
<td>1.5. Provenience/Bag List For 9A318</td>
</tr>
<tr>
<td>1.6. Provenience/Bag List For 9A318</td>
</tr>
<tr>
<td>1.7. National Register Of Historic</td>
</tr>
<tr>
<td>1.8. Correspondence Regarding Subject</td>
</tr>
<tr>
<td>1.9. Permits</td>
</tr>
<tr>
<td>1.10. Photos – Black And White</td>
</tr>
<tr>
<td>1.11. Photos – Negatives</td>
</tr>
<tr>
<td>1.12. Photos – Slides</td>
</tr>
<tr>
<td>1.13. Research – (Bibliographic)</td>
</tr>
</tbody>
</table>

Labeling

Labeling involves directly labeling and placing a tag inside the storage container with the object. This section defines approved archival materials, identifies when to directly label artifacts, what information is to be included on tags, and how to label associated documentation. All artifacts and associated documentation must be clearly labeled using professional standards and appropriate archival materials for the medium. As previously stated, variations may occur and are handled on a case-by-case basis. Consult with the curatorial staff at the Waring Laboratory when the need for variant materials or methods is identified. The materials and methods that are used for labeling must be documented fully on the Collection Summary Form.

Materials

Below is a list of materials that may be used for labeling and some that are to be avoided.

<table>
<thead>
<tr>
<th>Materials that may be used</th>
<th>Materials that cannot be used</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% cotton string, undyed</td>
<td>Typewriter correction fluid</td>
</tr>
<tr>
<td>Teflon monofilament</td>
<td>Nail polish</td>
</tr>
<tr>
<td>Nylon monofilament in polyethylene tubing</td>
<td>Rubber cement</td>
</tr>
<tr>
<td>Acid-free 100% cotton rag paper</td>
<td>Pressure sensitive tape or labels</td>
</tr>
<tr>
<td>Unbuffered paper with a neutral pH, high alpha cellulose, lignin free Japanese paper</td>
<td>Paper labels moistened by water</td>
</tr>
<tr>
<td>Tyvek®</td>
<td>Ballpoint ink</td>
</tr>
<tr>
<td>Cotton twill tape</td>
<td>Metal fasteners or tags</td>
</tr>
<tr>
<td>India Ink</td>
<td>Edged tags</td>
</tr>
<tr>
<td>Acrylic B72 or B67</td>
<td>Silicone products</td>
</tr>
<tr>
<td>PVA</td>
<td>Chalks</td>
</tr>
<tr>
<td>Pencil</td>
<td>Fusible iron-on fabrics</td>
</tr>
<tr>
<td>Acid-free card stock</td>
<td>Wire</td>
</tr>
<tr>
<td>Reemay®</td>
<td>Elmer's® glue</td>
</tr>
<tr>
<td>Mylar®</td>
<td>Nail polish remover</td>
</tr>
<tr>
<td>Alcohol and acetone solvents</td>
<td></td>
</tr>
</tbody>
</table>

Labeling Artifacts

Every item should be labeled with its associated catalog number as applicable to its material and status in the collection, yet be reversible if the label must be removed or changed. Directly labeled artifacts are less likely to lose their provenience information or to be separated from their catalog number than are artifacts that only have catalog numbers on paper labels or labeled containers. It is crucial that this identifying number not be separated from the specimen. For this reason, objects that can be safely labeled directly should be. All diagnostic artifacts and a representative sample of non-diagnostic artifacts submitted for curation must be directly labeled with associated catalog numbers. These classifications are determined by the Principal Investigator (P.I.) of the project.

All diagnostic artifacts must be directly labeled when possible, either with the reversible “sandwich” technique described below or, when the material dictates, with a small label attached to the artifact with archival string. "Diagnostic" artifacts are identified and defined by the professional archaeologist who recovered the material and include many of the items that comprise an archaeological collection. A representative sample (as defined by the Principal...
Guidebook for State-Owned Collections

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Investigator) of non-diagnostic artifacts of each material class from each provenience also must be directly labeled with associated catalog numbers. Material classes define groupings of artifacts into elementary classification categories such as lithic, animal bone, ceramic, glass, etc. Listed below are a few examples of “Diagnostic” and “Non-Diagnostic” artifacts solely for illustration since the P.I. determines material class. 6,7

"Diagnostic" Examples

**Prehistoric Artifacts**
- Pottery – complete and partial vessels, plain sherds, decorated sherds, rims, basal sherds, lugs, handles.
- Lithics – points, blades, scrapers, drills, perforums, blanks, utilized flakes, celt, adatli weights, hoes, other ground-stone objects.
- Bone – identifiable animal bone, bone tools, worked or cut bone.

**Historic Artifacts**
- Ceramics – complete and partial vessels, plain sherds, decorated sherds, rims, basal sherds, sherds with maker's marks, buttons, pipe bowls, pipe stems, marbles, doll or figurine parts.
- Glass – cut, pressed, decorated, vessel bases, lips, handles, fragments with labels or manufacturer's marks, complete and partial vessels.
- Metal – tools and large fragments, machine parts, building hardware, buckles, ornaments, jewelry, flatware, harnessry, other implements.
- Plastic/Rubber – vessel parts, tools/implements, toys.
- Bone – identifiable animal bone, bone tools, worked or cut bone.

"Non-Diagnostic" Examples

Non-utilized lithic flakes, shatter, and other debitage.
- Shell fragments (if not worked or utilized).
- Small, indistinguishable glass fragments.
- Fire-cracked rock.
- Clinkers and slag.
- Construction debris (brick fragments, mortar, etc.).

The method used to label an object depends on a variety of factors. These include physical stability of its surface, roughness, porosity, physical strength, and flexibility. It is important to use methods and materials that are appropriate to the object and do not harm it in any way. 8,9 The catalog number should be placed in an area that does not impact important diagnostic or aesthetic features of the object, and minimizes the handling needed to view the number. The most common method for directly labeling objects is a "sandwich" technique. Steps for this method are: 2

1. Clean (if necessary) the area to be labeled.
2. Place a thin coat of clear reversible lacquer (e.g., Acryloid B72 or B67) on the labeling area. If the artifact is dark in color, use white lacquer for the base coat. Multiple applications may be necessary on porous objects, such as unglazed ceramics. Let the base coat dry thoroughly.
3. Write the label information on top of the base coat using a permanent water- or pigment-based ink (e.g., India ink). Let ink dry completely. Apply a topcoat of clear varnish (e.g., Acryloid B72).
4. Let the label dry thoroughly before placing the object in a container.

It is possible to remove a label if it is incorrect or applied in the wrong location. If a base coat and inked label have been applied, the ink may be removed with a cotton swab slightly moistened with water. This will not affect the lacquer base coat for the application of a new number. If all three layers have been applied, the lacquer and ink may be removed with careful application of the solvent acetone by rolling it on the label with a cotton swab. 8,9,10

Some objects cannot be labeled directly using the sandwich technique. They may be too small or have unstable surfaces [e.g., rusting metal nails]. Most paper, basketry, leather, textiles, and wood should not be marked directly. 4 Human remains must not be directly labeled. 7

In addition to direct labeling, artifacts must be accompanied by an archival stable tag (such as 25% cotton and acid-free paper, or Tyvek®) placed within the bag or other storage container. Tags of different sizes and shapes can be used for the catalog group to fit the appropriate size plastic bag or other container. Tags that may become worn or dirty must be sealed in a plastic bag within the artifact bag to protect it. Tags must not be folded. The tags can be directly printed from the artifact catalog or handwritten. Pencil or archival ink (e.g., pigma pen) must be used on the labels if the tags are handwritten. 2 Inner container tags must be labeled minimally with the project name, excavation date, site number, provenience information, description, and catalog number. Outer container tags must be labeled minimally with the project name,
excavation date, site number, provenience information, and catalog number(s). See the figure below for an example.

(A) - Project Name
- Excavation Date
- Site Number
- Provenience Information
- Catalog Number

(B) - Project Name
- Excavation Date
- Site Number
- Provenience Information
- Description (matches catalog)
- Catalog Number

Outer Tag (A) and Inner Tag (B).

Extremely large objects and special samples may require individual identification tags. Acid-free tags may be attached to large objects by tying or sewing. Identification tags for special samples can be placed in the sealed container with the sample or on the housing of the container. When attaching labels, use materials compatible with the object and its storage location. In general, string or thread should be softer than the artifact’s surface, should not cut through or into the object, should not be attached too tightly, and should not be colored or dyed.

Labeling Documents

Proper labeling of associated records such as photographs, audiovisual materials, digitized data, and field notes is essential. It provides a means to relate one or more records to specific objects or collections in order to obtain contextual information about particular material remains or other analytical information. Again, labeling techniques, as well as the amount of information on the label, depend on the media.

Paper records must be in 100% acid-free and lignin free folders. Each folder must have a folder number handwritten on it with either a carbon ink pen or pencil. If paper documents must be directly labeled, identifying information should be applied near in very small capital letters in the same location on each sheet such as a reverse edge. If using pencil, such as a #4 graphite (2H), use a dull point and apply very little pressure. Critical information on the label includes collection name and/or number, box number, and file number. A unique file title and date may also be included.

Supplementary information may be submitted electronically (i.e., CAD, GIS). A printout on acid-free paper must be provided of all information provided electronically. A statement describing the software along with the version used and disk content must be provided. Archival CD-Roms (rated 100+ years) or a floppy disk may be submitted. Typed or computer generated archival adhesive labels should be used for audiovisual materials on tape or reel and for electronic diskettes. These labels must contain the collection name, the unique identifying number (i.e., folder number), a brief description of the contents, and software name, version, and size.

Labeling Photos

Labeling photographic materials begins with proper handling. It is always wise to wear gloves (cotton or nitrile) since the acid on fingers may cause permanent damage. Each image (negative, slide, or print) must be stored in its own envelope or sleeve made of inert plastic (no PVC) or interleaved with acid-free, lignin free high alpha cellulose unbuffered paper. All photos, slides, and negatives must be cataloged with a unique number. This unique number must be written on the back of all photos and on all slide mounts. Do not write on the negatives. Prints also may be labeled directly in the border area of the reverse side, using indelible or permanent ink. Care should be taken to minimize the pressure applied when writing since it can cause the emulsion to crack.

All digital photos must be printed both on (1) a thumbnail contact sheet with the attached file name, and (2) in larger format no smaller than 3” x 5”. A digital copy of the photos must be provided. If CD-ROMs are used, they must be rated to last 100+ years. A photo catalog must accompany the photos refer to Cataloging Photos for specifications.

Packaging

Archaeological material comes in many shapes and sizes, and highly diverse types of material usually are found in a collection. Few hard and fast rules exist when preparing to package a collection for curation and to explain every variation is beyond the scope of this Guide. This document will identify materials that may be used and outline basic guidelines for packaging artifacts, documentation, photos for curation with the Waring Laboratory. A primary goal of proper packaging is the safety of each object in the collection. Many packaging decisions rely on common sense applications to avoid breaking, abrasion, and deterioration of objects in the collection.
Each collection is considered individually and must be packaged in separate boxes. However, special arrangements may be made for collections comprised of multiple small projects. A complete inventory of all of the artifacts and documentation must accompany each archaeological collection. The catalog may serve as the inventory for the artifacts. A packing list at the folder or artifact-level must be included in each archival curation box. Each box must have a temporary label taped on one end with the collection name, a summary of the box contents, and box number (e.g., Box 3 of 5).

Artifacts and documents are packaged separately in standard Hollinger® type archival boxes (with a separate lid) measuring 15" x 12.5" x 10". The maximum allowable weight of each box and its contents is thirty (30) pounds and the box must be packaged so that artifacts are not crushed. The contents of each box (regardless of total weight) must be well organized, readily accessible, not crushed, and packaged in a way that allows individual bags or documents to be easily removed and accurately replaced.

Materials

The materials used for packaging must be appropriate for the kind and size of the object or document. All materials used for packaging must be inert and acid-free. The table below identifies some of the materials that should, and those that must not, be used for packaging. Although the materials listed in the left column are considered archival, not all of them should be used with certain material classes of artifacts.

<table>
<thead>
<tr>
<th>Packing Materials that may be used</th>
<th>Packing materials that are not acceptable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid-free boxes</td>
<td>Cigar boxes or regular cardboard boxes</td>
</tr>
<tr>
<td>Polypropylene containers</td>
<td>PVC or &quot;plastic&quot; containers</td>
</tr>
<tr>
<td>Acid-free poster board</td>
<td>Acidic cardboard</td>
</tr>
<tr>
<td>Polyethylene foam</td>
<td>Styrofoam</td>
</tr>
<tr>
<td>Heavy Weight</td>
<td>Plastic wrap</td>
</tr>
<tr>
<td>Polyethylene bags with zip closure (e.g., 4mil thickness)</td>
<td>Toilet paper, facial tissue or newspaper</td>
</tr>
<tr>
<td>Polyethylene sheeting and chips</td>
<td>Acidic paper</td>
</tr>
<tr>
<td>Acid-free tissue paper</td>
<td>Brown paper bags</td>
</tr>
<tr>
<td>Polyester batting</td>
<td>Cellulose tape</td>
</tr>
<tr>
<td>Tyvek® for labels</td>
<td>Cotton wool</td>
</tr>
<tr>
<td>Aluminum foil without any additives (C14 samples only)</td>
<td>Foam rubber, urethane foam</td>
</tr>
</tbody>
</table>

Packaging Artifacts

Minimally, material classes (e.g., lithic, pottery, glass, etc.) must be separated from one another in individual containers. More specific classification categories within material classes may be used when separating artifacts into individual containers. The artifact catalog must reflect the sorted organization of the collection, minimally at the level of material class. These material-class (or more specific category) containers then must be stored together in a larger container that includes all materials from a single catalog grouping or provenience (creating multiple inner and outer containers). Do not reuse dirty field containers. A container may be a polyethylene bag, small archival box, or polyethylene or glassine vial.

Select the size container that is appropriate for the object or group of objects. When using bags, a minimum of 4-mil polyethylene bags are required. Each bag must be no more than 2/3rd full. Bags must be broken into multiple bags (e.g., bag 1 of 3) if the bag is too full, or the artifacts are crumbling due to variation in size or fragility. Thicker bags or rigid containers should be used for heavy objects or objects with sharp edges, and padding should be added when necessary.

Acid-free tissue or polyethylene foam sheets may be used to provide an extra measure of cushioning for objects or to cover a sharp object that might otherwise tear the artifact container. Artifacts must not be packaged in a way that would result in crumbling or crushing. Store very small and/or fragile objects (i.e., bone, seeds, shell) in a padded rigid container rather than in a bag. All artifacts must be organized within each archival box in sequential groups of catalog numbers. Larger containers of metal, floration, shell, soil, and matrix samples collected during a project may be boxed separately from the artifacts. A micro-climate is a container that has a sealed climate and is defined in detail in the next section. Human remains and sacred objects must be stored in a separate box to provide the respect they deserve.

If a collection has a highly unstable or
over-sized artifact, then the Waring Laboratory must be contacted as early as possible to identify if special environmental conditions are required.

Basic Information for Packaging by Material Class

The Waring Laboratory performs an inventory for incoming collections to verify if an artifact is stable or unstable. Generally, artifacts are identified as unstable if they show evidence of debris due to crumbling, abrasion, breaking, and/or rusting inside its container. The stability of an object can usually be improved by wrapping it in appropriate acid free tissue paper, using a more rigid container, using special packaging or support, placing a silica gel packet with it, etc. Some artifacts may be highly unstable without conservation. Conservation practices, however, also may hinder some forms of analysis and the Principal Investigator should make informed decisions regarding specific conservation needs. Nevertheless, conservation must not be practiced without first consulting a professional conservator. Below is a list of material classes of archaeological artifacts with a guide to appropriate packaging for curation at the Waring Laboratory. This list is not exhaustive and additional requirements may be needed to ensure the stability of an object.

Floral and Faunal Remains - artifacts and ecofacts are often small, dry, fragile, and/or brittle. These frequently require sturdy containers like a box, vial, or gelatin capsules. If the artifact needs to be wrapped, unbuffered pH-neutral tissue paper must be used because the buffering agent (CaCO3) can react with the artifact, changing its pH.

Ceramics (Historic and Prehistoric) – Ceramics generally can be packaged together inside the same container. Unstable ceramics need to be wrapped in buffered acid-free tissue paper to stop abrasion. Larger ceramic pieces or vessels can be packaged inside a box supported with tissue paper or foam.

Glass - Glass fragments need to be packaged in heavy mul bags and/or wrapped with tissue paper or foam to prevent breaking or tearing the bag. Vessels and other whole objects should be individually wrapped and supported with tissue paper or foam.

Lithics - Most lithics are considered stable and can be packaged together inside the same container without additional medium. Care must be taken to prevent crumbling due to excessive weight and abrasion. Smaller flakes must never be packaged with larger heavy objects. Lithics can be wrapped in buffered tissue paper and/or subdivided into multiple bags.

Metal – All corroding and/or crumbling unstable diagnostic metal artifacts must either be stabilized through electrolysis or placed in micro-environment. Non-diagnostic items must be packaged so as to reduce deterioration. Many different classes of metal artifacts exist. The most common are iron, bronze, silver, copper, and gold. Each class of metal requires a slightly different environment and must be packaged separately so that no one class is in direct contact with another. Metal artifacts showing active signs of deterioration must be packed in a desiccated microclimate designed for >20% relative humidity and loosely wrapped in acid free, unbuffered tissue paper. A micro-environment is created by making a perforated pouch of silica gel. The pouch should consist of a polyethylene ziplock bag with small holes over its entire surface. Then place it on the bottom of a food-quality air-tight freezer boxes made from polyethylene/polypropylene, such as those made by Rubbermaid® or Tupperware®. Two large Rubbermaid® Model No. 3863-87 boxes (approximately 30x22x15cm, 2.2 gallon/8.3 liter capacity) will fit neatly into a standard box with room. For every 5 liters (5000 cm3) of volume within the container add 400 grams of silica gel. Place the artifacts inside a ventilated plastic bag with their identification tag. Add a humidity-indicating strip that can be read through the container, in order to monitor the RH at the artifact(s). Below are the general warning signs of instability associated with each class of metal artifact:

- **Unstable iron** is identified as crumbly and shows signs of pits and/or active rust and leaves a red powdery residue on gloves or in the package.
- **Unstable bronze** crumbles and shows signs of pits and leaves a green powdery residue on gloves or in the package.
- **Tarnished silver** is relatively stable, as the patina acts as a protective barrier. Any newly formed abrasions that tear through the patina causes the rate of deterioration of silver artifacts to greatly increase. Therefore, the method of packaging needs to eliminate the possibility of scratching the silver artifacts during transportation and curation.
- **Copper** is highly reactive and difficult to stabilize. It leaves either a green or white crumbly residue on gloves or in the package.
Soil and Midden Samples - Heavy bulk samples should be double-bagged and packaged separately from the artifacts. All samples must be dry.

As previously mentioned, all inner and outer containers must be labeled in permanent ink using an extra fine Sharpie® pen. The outside of each outer container must be labeled with the project name, catalog number(s), site number, provenience information, date of excavation, and any other essential information. The outside of each inner container must be labeled with the project name, site number, material class, catalog number, and other essential information. An archival identification tag (see Labeling) must be included inside each outer and inner container of artifacts so it is clearly visible. Identification tags in inner bags containing shell, metal, bone, soil samples, or other materials which may deteriorate or stain labels, should be placed first in smaller resalable bags to prevent contact with these artifacts. The example below is demonstrated as bags, but labeling rules apply to other archival storage forms (i.e., boxes).

All documents are to be on acid-free paper or an archival copy should be packaged in folders separate from their original counterparts. Paper records must be placed in acid-free files and folders of appropriate sizes that are properly labeled. Listed below are some general guidelines for packaging documents for curation at the Waring Laboratory.

Photographs, Negatives, Slides – Are to be packaged in polypropylene or polyethylene sleeves. A photographic catalog must be included.

Final Report – Three copies are required and one of these must be unbound.

Field Notes and Laboratory Analysis – The original and one archival copy of all field and laboratory documentation are required.

Catalogs – Three copies of the artifact, document, and photographic catalogs are required. A copy of each of these catalogs must also be provided on a PC formatted disk or CD in Microsoft Excel® or ASCII tab delimited format.

Electronic Media (i.e., CAD, GIS) - May be included with the documentation and must be accompanied by a statement describing the system and software used and the content of each disk, tape, etc.

Maps, Large Drawing, Charts – Must be rolled or folded and properly labeled. Fragile and/or frequently used materials may require encapsulation in Mylar®. Maps on acidic paper should be copied onto acid-free paper whenever possible. Minimally, separate each map with a sheet of acid free tissue paper. Contact the Waring Laboratory if any maps are oversized and are too large to conveniently and safely be placed in the standard archival box.

Packaging Multiple Small Collections

Special arrangements may be made for packaging artifacts and documents that result in small collections from multiple projects. A small collection is defined as one that occupies less than five (5) linear inches of an artifact box (1/3 of an archival box). Multiple small collections may be stored together in the same box only if all of the collections have the same collection owner and with prior approval from the Waring Laboratory. Box labels and box inventories must clearly identify the number of small projects in each box.

Artifacts are packaged the same way as with larger individual collections, but each collection must be organized in the box so it is easy to distinguish one collection from another. Several methods are available for organization of multiple small collections. One method is to place each collection in a small archival box within the curation box. A second method is to use dividers or trays within the curation box. Dividers must be sturdy enough to prevent collections from becoming mixed during transportation. Acidic brown cardboard...
is not acceptable because it off-gases and attracts pests.1-2 Recommended forms of dividers are acid free blue-board or Conoplastic (a plastic polyethylene board). Dividers or trays can be purchased already put together or in sheets that can be cut and molded to preferred dimensions and shapes. Several ideas for dividers and trays are shown below.

All documents for multiple small collections are to be packaged in a box separate from the artifacts. The documentation must be sorted and organized by each collection. A document catalog must be provided (refer to cataloging documents for details). Each folder containing documentation must identify the collection name, category, and folder number. It is preferred that folder numbers start over for each collection, in case the collection is ever moved.

Delivery of a Collection to the Waring Laboratory

An approved Request for Curation Form must be on file with the Waring Laboratory before a collection can be scheduled for delivery. Schedule delivery to the Waring Laboratory at least one week in advance. A Collection Summary Form must be completed and submitted to the Waring Laboratory by the depositor at least one week prior to delivery of the collection. Preference will always be hand delivery. Prior approval will be required for delivery by mail. Appropriate measures must be made to ensure that material will not be broken during shipment, including additional wrapping of artifacts. All material delivered through the mail must be insured, certified, and sent via a Fine Art Shipper. Many shippers are available and information can be found at www.iclcs.org. The Waring Laboratory is not responsible for damage occurred during shipment.

It is acceptable to package the artifacts in extra boxes and packing materials just for transportation purposes. All extra boxes and/or packing material can be removed and returned following delivery to the Waring Laboratory.

Footnoted References

11. Registrars’ Committee of the American Association of Museums. reaam@ai-listserv.sti.edu or www.reaam.org. Online posting.
Reference Materials and Guidance

9. Curatorial Care of Archeological Objects

From Appendix I of the National Park Service Museum Handbook

APPENDIX I: CURATORIAL CARE OF ARCHEOLOGICAL OBJECTS

A. Overview

1. What is an archeological object?

Archeological objects are the result or product of an activity in the past that has been recovered from an archeological site. Archeological objects may have originated in the ancient past or quite recently. Depending upon the soil and climate of the site, a wide variety of materials may be excavated.

- **Inorganic** artifacts include:
  - metal
  - ceramics
  - glass
  - stone

- **Organic** artifacts include:
  - leather
  - basketry
  - textiles
  - modern plastics and other synthetics
  - bone
  - teeth

Archeological collections may also contain non-artifactual samples, such as botanical material, soils, pollen, phytoliths, oxalate crystals, snails, insect remains, and parasites.

While some individual archeological objects are found in NPS collections, the majority have been recovered as part of systematic archeological excavation. Preservation and care of individual objects must also consider the impact on the collection as a whole.

An important part of archeological collections are the associated archival records (for example, field notes, photographs, maps, digital documentation).

For information on managing and preserving these archival records see Museum Handbook, Part II (MH-II), Appendix D: Museum Archives and Manuscript Collections and Museum Handbook, Part I (MH-I), Appendix J: Care of Paper Objects, Appendix M: Management of Cellulose Nitrate and Cellulose Ester Film, and Appendix R: Curatorial Care of Photographic Collections.
2. What does this appendix cover?

This appendix provides guidance only on the care of objects excavated from the ground. For guidance on collections from marine excavations, consult an archeological objects conservator with experience in the treatment of waterlogged materials. See Chapter 3: Preservation: Getting Started, Chapter 8: Introduction to Museum Object Conservation Treatment, and Conserve O Grams 6/1-6/6 for more information.

This appendix does not cover field treatment of objects when first excavated. Good sources of information on this topic include Sease (1987) and Watkinson and Neal (1998) listed in the references.

3. What makes archeological objects different from other materials commonly found in museum collections?

What makes archeological objects different is that at some point they were lost or abandoned and buried underground or in water.

The condition of these objects depends entirely on their reaction with the environmental conditions to which they have been exposed through time. Underground the object reaches a kind of equilibrium with the surrounding soil. Then, when the object is excavated, it must adjust to a new and radically different environment. Reactions can involve both physical and chemical changes. Regardless of the condition of the object before excavation, the moment it becomes exposed it is vulnerable to rapid deterioration. Figure 1.1 illustrates the deterioration rate of archeological objects through time.

![Diagram of deterioration rate of archeological objects through time]

Figure 1.1. Deterioration of Archeological Objects through Time

<table>
<thead>
<tr>
<th>Time</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use life</td>
<td>1. In situ</td>
</tr>
<tr>
<td>Archeological context (underground)</td>
<td>2. Excavated</td>
</tr>
<tr>
<td>Excavation</td>
<td>3. Conservation treatment</td>
</tr>
<tr>
<td>Museum life</td>
<td>4. Final stages</td>
</tr>
</tbody>
</table>

4. **How can I minimize deterioration of archeological objects?**

Preservation of archeological collections is a collaboration between archeologists, curatorial staff and conservators. Each person brings a different perspective and expertise to the problem. It is important to understand the concerns and needs of these other professionals when making decisions about how to care for archeological objects.

Preservation must begin in the field. Curatorial staff should work with archeologists depositing collections to make sure that preservation concerns are addressed during archeological procedures at the site and in the processing laboratory. Work with conservators both in the field and at the repository to ensure preservation choices are based on current research. Follow through with proper curatorial care in museum collections storage.

Refer to Director’s Order #28 and Chapter 6: Management of Archeological Resources of the Cultural Resources Management Guideline, for guidance on the responsibilities of the archeologist before selecting a repository and depositing collections. See Director’s Order #24, NPS Museum Collections Management, for park management’s responsibility to ensure appropriate care and management of archeological collections.

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B. **Handling and Cleaning of Archeological Objects**

1. **How should I handle the objects?**

Because the research value of archeological material may be lessened or destroyed by unnecessary handling and inappropriate treatment, preservation of these materials should be based on preventive care. Careful handling, packaging, and storing of archeological objects are crucial for the survival of the material as an artifact. Mishandling and storage will encourage deterioration and can reduce the material to nothing more than powder.

Archeological objects can have a deceptive appearance of strength when first uncovered. All excavated materials have undergone some form of alteration during the equilibration process underground and during the recovery process. This alteration has physically weakened the object. While underground, objects are supported by the surrounding soil, and when excavated, they may be unable to support their own weight. For this reason, archeologists and conservators often use specialized lifting techniques to excavate fragile and potentially fragile objects. During and after excavation, continue to support these objects on a tray or pallet or in a container that distributes weight properly.

> An archeological object must always be fully supported. Use both hands, a tray, or a supporting container to lift and carry an object, whether it is large or small. Always assume that an excavated object is weak.

Review the guidelines for handling museum objects in Chapter 6: Handling, Packing, and Shipping Museum Objects.
2. How should I clean the artifacts in museum collections?

Cleaning of archaeological material should be kept to a minimum. The cleaning process may destroy important archeological evidence such as surface decorations and composite or associated materials that often exist only as impressions on the surface of the object or in the surrounding soil. Original surfaces of metal objects may lie within layers of corrosion. Evidence of use (for example, food residue in containers, pigment traces on stone palettes, or blood traces on stone projectile points) may be removed by unnecessary cleaning.

Cleaning may also interfere with scientific analysis. For example, the use of acid to remove deposits on ceramics may also remove acid-soluble compounds in the ceramic paste and as a result, invalidate compositional analysis used to determine the prehistoric source of clay. See Conserve O Gram 6/8, “Long-term Effects of Acid-Cleaning Archeological Ceramics.” Water can also remove amino acid traces used to date bone. Washing may also hasten deterioration of salt-contaminated material and can be disastrous to metal objects if they are not carefully and completely dried afterward.

Avoid any treatment that alters the chemical or physical integrity of the artifact. Don’t risk losing valuable information or inflicting irreversible damage.

Once an object has reached the repository and is in custodial care, remove only loose dust and dirt by dry brushing or vacuuming. Don’t wash the object and don’t apply pressure. The surface of an archeological object is often fractured or friable and may be easily dislodged by rubbing. Carefully assess an object’s surface before you start to clean it. If additional cleaning, stabilization, or repair is necessary, consult an experienced conservator.

C. Storage Conditions for Archeological Objects

1. How should I organize archeological collections in storage for best preservation?

Archeological collections are often large and contain a variety of materials with different environmental storage requirements and with different research values. Physical organization of the collections by research values, such as source or cultural affiliation, will not necessarily meet preservation needs. It is better to organize the materials by environmental requirements and maintain the research integrity of the collection through good museum records.

Ideally, all archeological objects should be stored in climate-controlled areas, but this often is not practical. Most archeological collections are large and not all storage facilities have enough climate-controlled storage space to house entire collections. In such cases, it is possible to maximize preservation while minimizing utility costs by implementing a storage strategy based on the environmental requirements of various archeological materials.
2. **What are the environmental requirements?**

See the chart below for a system to organize archeological material by environmental sensitivity.

<table>
<thead>
<tr>
<th>Organization of Archeological Material</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level I: Negligibly climate-sensitive materials</strong></td>
</tr>
<tr>
<td><strong>Materials:</strong></td>
</tr>
<tr>
<td>• stable stone and fired ceramics</td>
</tr>
<tr>
<td>• stable inorganic architectural materials (plaster, mud, daub, bricks, and stone)</td>
</tr>
<tr>
<td>• dry pollen, flotation, and unprocessed soil samples</td>
</tr>
<tr>
<td>• faunal remains</td>
</tr>
<tr>
<td><strong>Required Climate:</strong></td>
</tr>
<tr>
<td>Gradual daily and seasonal fluctuations of temperature and relative humidity can be tolerated.</td>
</tr>
<tr>
<td>• <strong>Relative Humidity:</strong> Above 30% and below 65%. Mold may become a problem above 65%.</td>
</tr>
<tr>
<td>• <strong>Temperature:</strong> Freezing to 100°F. Moderate and cool temperatures are preferred. High temperatures increase deterioration of all materials.</td>
</tr>
</tbody>
</table>

| **Level II: Climate-sensitive materials** |
| **Materials:** |
| • stable metal |
| • stable glass |
| • worked bone, antler, and shell |
| • botanical specimens |
| • textiles |
| • wood |
| • skin, leather, and fur |
| • feathers and horn |
| • natural gums, resins, and lacquer |
| • human remains |
| **Required Climate:** |
| • **Relative Humidity:** Determine a stable point based on the object’s environmental history and current regional climate. If the materials will be stored near the collection site, you may follow these guidelines: |
| 30-40%—semi-arid areas and deserts |
| 40-50%—central and eastern plains and woodlands |
| 45-55%—seacoast and lakeshore |
| Keep conditions as stable as possible. Many organic materials are more sensitive to fluctuations of relative humidity than to any one unchanging level in the moderate range. Do not allow daily fluctuations of more than 3%. From summer to winter, keep the change to no more than a slow 10% drift. |
| • **Temperature:** Above 50°F and below 75°F. You may adjust the temperature slightly to control the relative humidity, but do not exceed changes of 5°F daily. |

| **Level III: Significantly climate-sensitive materials** |
| **Materials:** |
| • unstable (salt-contaminated) ceramics, stone, and bone |
| • unstable glass (glass that appears damp or “weeping”) |
| • unstable metal, particularly iron |
| • mummified human and animal remains |
| • composite objects (objects made of several different materials) |
| **Required Climate:** |
| • **Relative Humidity:** Keep the RH within the restricted range determined by the object’s composition and condition. Follow these guidelines: |
| — metal—under 30%. Unstable iron is best stored below 15%. |
| — unstable glass—30% to 40% |
| — naturally mummified animal remains—15% to 20% |
| — unstable ceramics, stone and bone (salt contaminated)—below 50% |
| (Note: Keep the RH as steady as possible to avoid damage by the hydration cycling of soluble salts.) |
| • **Temperature:** Choose a point between 60°F and 72°F and keep the temperature steady. Allow it to fluctuate only enough to keep the RH in check. |
3. What are the storage requirements for each of the three levels of climate sensitivity?

Each level of climate sensitivity requires a different type of storage.

- **Level I**: General storage for Level I materials should meet the minimum overall standards for all NPS storage spaces as outlined in Chapter 7: Museum Collections Storage.
  
  - Store materials that do not need special attention in boxes on open shelves.
  
  - Store loose material, including the following, in bags within boxes:
    
    - bulk botanical specimens
    - unprocessed soil samples
    - dry pollen and flotation samples
    - slag
    - unworked bone
    - lithic cores and debitage
    - ceramic sherds

  Make sure the bags are strong and will not tear or puncture. Bags made of Tyvek®, a strong spun polyethylene plastic that allows water vapor to escape, are a good choice. Canvas bags and resealable polyethylene bags can also be used.

- **Level II**: Climate-controlled storage for Level II materials should comply with the optimum standards for NPS storage areas as outlined in Chapter 7.

  If your park has no currently available area where the environment can be controlled, consider putting up a prefabricated, climate-controlled structure. See *Conserve O Gram 4/7*, "Museum Collection Storage Space: Is an Insulated Modular Structure Right for your Collection?" Consult your regional or support office curator, conservators specializing in environmental or preventive conservation, or the Museum Management Program for guidance in developing an acceptable storage area.

- **Level III**: Microclimate storage for some Category III materials can be created within the climate-controlled storage area used for Category II materials.

  - Place objects requiring an extremely stable environment within a closed well-gasketed museum cabinet that will shield them from even slight fluctuations in relative humidity.

  - Place metals and unstable glass, which require a relative humidity quite different from other objects in storage, in tightly sealed boxes with moisture-sensitive materials called sorbents. Sorbents, such as *silica gel*, buffer the interior of the container against changes in the relative humidity of the enclosed objects.
D. Storage Techniques for Archeological Collections

1. What type of storage container should I use to store archeological objects?

There are many different types of standard boxes and bags that are appropriate for general storage. Note: These are not for microclimate storage. See Chapter 4 for information on microclimate storage.

- Use acid-free boxes with lids rather than self-closing boxes with flaps that will wear out over time.

- Store small objects like lithic points and nails in boxes manufactured for the storage of archival and photographic collections.

- Use small resealable polyethylene bags for individual specimens and stack them vertically within each section of the box. You can staple them to acid-free index cards to make them easier to stack. If the objects are not numbered, include an acid-free tag with an identification number inside each bag and also be sure to write the number on the outside of the bag or on the card.

See Figure 1.2. Note the easy visual access and consistent packaging technique illustrated. Never wrap objects in padding material. Wrapping and unwrapping requires excessive handling.

![Figure 1.2. Vertical Stacking of Small Objects within Standard Containers](image-url)

Figure 1.2. Vertical Stacking of Small Objects within Standard Containers
2. *Why is silica gel often used in archaeological storage?*  
Archeological objects are often unstable and very sensitive to changes in relative humidity. Silica gel can moderate fluctuations in relative humidity within a closed container.

Silica gel is inert, amorphous silicon dioxide in a porous granular form that is able to adsorb moisture from the air. It can adsorb 30–40% of its dry weight and responds more quickly than other sorbents to variations in relative humidity. The gel rapidly senses, corrective, and stabilizes fluctuations in relative humidity by humidifying or dehumidifying the air around it to maintain its own preferred environment. See Chapter 4: Museum Collections Environment, for information on use of silica gel in microclimates.

3. *How should I cushion my objects?*  
Use padding material to prevent the contents of a container from shifting when it is moved. Be careful not to overstuff the box with crumpled tissue or other padding material that could exert damaging pressure on fragile objects. Use either of these cushioning techniques:

- Make smooth pillows to place against the surface of the object by folding wadded acid-free buffered tissue paper within loose rolls of tissue. Wrapping the crumpled tissue will keep it from expanding and exerting pressure.
- Fill resealable sandwich-sized polyethylene bags with cotton.

*Don’t use cotton or polyester wool alone. Cotton is an excellent sorbent and may hold moisture directly against the object. Fibers from these materials may snag and damage delicate artifacts.*

4. *How should I organize the box contents?*  
Organize your artifacts so that each object can be easily retrieved without disturbing the rest. One technique is to layer your items. If they are small and lightweight, they can be organized into three or four layers separated by specimen trays within your storage box. Specimen trays make lifting safer. Cushion each layer with a sheet of stable polyethylene foam shelf liner. See Figure 1.3. Museum supply companies manufacture acid-free boxes with fitted trays equipped with adjustable interior compartments. These are ideal for the storage of archeological material.
5. **How do I keep track of what's in the box?**

   Make an inventory:
   
   - First, make sure that the identification numbers you have written on each bag show clearly.
   - Next, label the outside of the box with the numbers by layer.
   - Prepare a more detailed list of the contents and place it in the box on top of the contents.

6. **How do I protect and store larger archeological objects?**

   If the objects are too large for standard specimen trays, you can make custom trays from padded, acid-free board fitted with cotton twill-tape handles. See Figure 1.4 for an illustration. There are many acid-free boards, including matboard, cardboard, foamboard, and honeycomb board, that can be used to make support trays. Make sure you select a board heavy enough not to bend under the weight of the object. Tie the object to the tray with cotton twill tape to keep it from sliding.

   Use rigid polyethylene foam to make tray supports and trays with cavities for fragile three-dimensional objects. You can easily cut large blocks of foam with an electric carving knife and thin sheets with a sharp X-acto knife. Figure 1.5 illustrates the use of rigid polyethylene foam blocks to support a fragile bottle. Figure 1.6 shows the cavity-packing technique to restrict the movement of smaller, rounded items. Cavity-packing is an excellent way to store objects that are moved periodically for research. Make sure that the fit of the object in the cavity is not too tight and that the object may be safely removed from the tray. The cut edge of the rigid foam block can be abrasive so use thin, soft, polyethylene foam (like Volar®) for objects with fragile surfaces. If necessary, carve a finger grip on each side of the object to make grasping easier.
1. Tie twill tape loosely in bows over object to secure it to the tray. The method of attachment should be both obvious and easily unfastened.

2. Use acid-free cardboard, fluted plastic, Fome-core®, or Tycore® for the tray.

3. Use twill tape or nylon rope for handles.

4. Line rigid board with polyethylene foam pad. Cover foam with washed muslin or unbuffered acid-free tissue. Attach the lining to the board with a good quality double-sided tape (e.g., Scotch 415) or with a hot glue gun. If the support tray is small, the twill tape ties should be enough to hold both the pad and the object in place.

5. Be sure to tie knots larger than punched hole.

Figure I.4. A Support Tray for Fragile Material

1. Use rigid blocks of polyethylene foam to support complete ceramic or glass bottles. The foam blocks can be placed in specimen trays on shelving or in museum specimen cabinet drawers.

2. Cut out wells in each block to fit the diameter of the neck and bottom of the bottle.

3. Because cut foam can scratch, line each well with strips of Tyvek® or smooth foam sheets to protect the surface of the bottle from possible abrasion. Remember that the surface of indescent excavated glass is particularly fragile. The bottle should never be made to fit tightly in the foam support.

Figure I.5. Customized Support Blocks for a Fragile Glass Bottle to be Fitted in a Museum Specimen Tray
7. **How should I store very weak and fragile objects?**

Archeological objects that are weak from deterioration may require specialized supports to maintain their structural integrity. Before designing a special mount, evaluate the object’s strong and weak structural points. Determine:

- what the object is
- how it was used or worn
- how it was made

For example, cone-shaped baskets, worn like backpacks, were used to carry heavy objects. Load stresses were distributed down the sides of the basket and concentrated in the bottom. Though the rim is the weakest part of these baskets, they are frequently, but incorrectly, stored upside down like traffic cones.

A good storage mount takes into account the **form and function** of the object and eliminates stress on the weakest parts. A cradle mount like the one illustrated in Figure 1.7 will evenly distribute the weight of an object with an unstable base while keeping it upright as originally used.
1. Starting from the center of the vessel, measure the curve from its base up to 1/3 of its height with a flexible drafting curve.

2. Using a 1"- to 2"-thick piece of rigid polyethylene foam (depending on the size of the vessel to be supported), mark the profiles of a full cross-section of the object, leaving 2" at the bottom of the foam sheet. If the shape of the object is symmetrical, flip the measured curve on one side to the other side as illustrated. Cut the cross-section profile with a sharp knife. Repeat technique to produce another cross-section to be used to bisect the first one.

3. Cut a 1" by 1" notch in the center of the base of one cross-section as shown in 3A. Cut a matching notch in the center of the top of the curve in the other cross-section as shown in 3B.

4. Fit both cross sections together at the notches. Cut a thin foam sheet for lining the cradle surfaces. Pin foam buffering strips to cradle surfaces with toothpicks as shown.

5. Place vessel in the cradle.

Figure 1.7. Construction of a Cradle Mount for Objects with Round Bases
8. **How and when should I design special containers?**

When making a special box or storage container for an archaeological object, keep these things in mind:

- Protect the object from dust and light.
- Provide it with good support.
- Allow researchers maximum visual access.
- Discourage any handling of the object.

In the case of a textile fragment, for example, a researcher will want to examine both sides. The container must permit close examination of the contents, but minimize the need to actually handle the object. A portfolio mount, illustrated in Figure 1.8, is a good solution to this problem. This technique can also be used to store other flat objects like basketry fragments, thick cordage, and other fragile materials. Adjust the thickness of the interior mat to accommodate the dimensions of the object, avoiding any unsafe pressure or crushing of brittle elements.

Boxes for other types of artifacts should have a drop front so that the tray supporting the item can be slid out onto a stable surface. An accident is more likely to happen if the object must be lifted up and out through the top.

You may need to provide special containers and mounts that will protect fragile, unstable, and top-heavy objects during an earthquake.

There is much published information containing instructions for building specialized storage mounts. Two very good references are *Storage of Natural History Collections: Ideas and Practical Solutions* (Roes and de Torres, 1995) and *Working with Polyethylene Foam and Fluted Plastic Sheet* (Schlichting, 1994).


9. **How should I store items subject to the Native American Graves Protection and Repatriation Act of 1990 (NAGPRA)?**

Your park’s archeology collection may contain NAGPRA-related items such as human remains, associated funerary objects, unassociated funerary objects, sacred objects, and objects of cultural patrimony. These collections should be housed and handled with great sensitivity. You may need to store NAGPRA items separately from other collections and limit access to them.

Consult with the lineal descendants, culturally affiliated Indian tribes, Native Alaskan villages or corporations, or Native Hawaiian organizations to ascertain their preferences related to storage techniques and materials. You may need to use alternative storage methods and materials in response to these consultations. See Chapter 7: Museum Collections Storage, for additional information concerning consultation and storage of NAGPRA collections.
1. Cut out front and back of portfolio from a sheet of museum quality mat board. Cut window out of one board. Make window ½" to 1" larger than the dimensions of the textile fragment.

2. Cover window with polyester crepeline (Stabithex®). Pull taut over window opening and attach with water-activated acid-free linen tape.

3. Cut a piece of cushioning material (e.g. Sentinel Foam®, Volara®, Microfoam®) to the inside dimensions of the window. Place material on board. Cover the foam with a non-woven polyester fabric such as Reemay 2014 and attach with water-activated linen tape.

4. Prepare a third board identical to the window front board. Use this board as a spacer to protect textile specimen from being crushed.

5. Stack the three boards. Attach water-activated linen tape along the outside edge like a book-binding. Attach linen bias tape lines with water-activated tape to the front and back boards. Open portfolio and attach center spacer with water-activated tape.

6. Place textile fragment on cushion and close the portfolio. The polyester crepeline (Stabithex®) window facilitates visual identification of specimen without having to open the mount and protects the textile specimen from dust.

Figure I.8. Construction of a Portfolio Mount for Archeological Textile Fragments
## Recommended Storage Materials

### Bags

<table>
<thead>
<tr>
<th>Use:</th>
<th>Don’t Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Resealable polyethylene bags (Ziploc®, Baggies®, Whirl-pak®)</td>
<td>• Kraft lunch bags</td>
</tr>
<tr>
<td>• Spun polyethylene bags (Tyvek®)</td>
<td>• Waxed paper</td>
</tr>
<tr>
<td>• Bags made from heat-sealable clear plastic laminate film</td>
<td>• Envelopes</td>
</tr>
<tr>
<td></td>
<td>None allow visual inspection and all are made from unstable materials. Waxed paper may leave a coating on the object.</td>
</tr>
</tbody>
</table>

### Padding

<table>
<thead>
<tr>
<th>Use:</th>
<th>Don’t Use:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Acid free tissue</td>
<td>• Loose cotton</td>
</tr>
<tr>
<td>• Cotton or polyester batting in plastic or muslin bags</td>
<td>Brittle materials may snag on the loose fibers. Cotton will almost certainly leave lint on the objects.</td>
</tr>
<tr>
<td>• Polyester felt</td>
<td>• Paper towels or facial or toilet tissue</td>
</tr>
<tr>
<td>• Bubble-pak or air-cap</td>
<td>Papers are not durable and contain impurities.</td>
</tr>
<tr>
<td></td>
<td>• Newspaper</td>
</tr>
<tr>
<td></td>
<td>Newspaper smears easily and may leave ink on objects. Newspaper is also very acidic.</td>
</tr>
<tr>
<td></td>
<td>• Excelsior</td>
</tr>
<tr>
<td></td>
<td>Material is very acidic.</td>
</tr>
<tr>
<td></td>
<td>• Vermiculite</td>
</tr>
<tr>
<td></td>
<td>Substance generates dust that not only is difficult to remove, but also hazardous to museum workers</td>
</tr>
</tbody>
</table>

*Figure 1.9. Recommended Storage Materials*
### Plastic Foams

<table>
<thead>
<tr>
<th>Use:</th>
<th>Don’t Use:</th>
</tr>
</thead>
</table>
| • **White** polyethylene closed-cell foam (Polyfoam) | • Blue polyethylene foam (fire retardant)  
Fire retardant additives can migrate to materials. |
| • Crosslinked polyethylene foam (Plastazote®, Volan®) | • Pink polyethylene foam (antistatic)  
Conductor in foam absorbs water from the air and can become soapy. |
| • Ethylene/vinyl acetate copolymers (Evafoam®, Volan®) | • Chlorinated or nitrated plastic (for example, PVC–polyvinyl chloride)  
Plastic outgases hydrogen chloride, which can become hydrochloric acid. |
| • Extruded polyurethane (Styrofoam) | • Polyurethane  
This is unstable and may offgas harmful products. |
| • Polypropylene closed-cell foam (Microfoam) | |

### Clear Plastic Sheets

<table>
<thead>
<tr>
<th>Use:</th>
<th>Don’t Use:</th>
</tr>
</thead>
</table>
| • Polyethylene terephthalate clear polyester (Mylar®) | • Polyvinylidene chloride (for example, Samwrap®)  
PVC is unstable, chlorinated plastic. |
| • Clear polyester and fluorocarbon laminate (Film-O-Wrap®) | • Cellophane  
 Sulphuric acid used in manufacturing process generates acidic by-products. |
| • Clear polyester/polyolefin laminate (Scotchpak®) | |

*Figure 1.9 Recommended Storage Materials (continued)*
<table>
<thead>
<tr>
<th>Boards</th>
<th>Don't Use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Use</strong></td>
<td><strong>Don't Use</strong></td>
</tr>
<tr>
<td>Acid-free mat board</td>
<td>Regular cardboard or matboard</td>
</tr>
<tr>
<td>Acid-free corrugated board</td>
<td>Non-archival cardboard and matboard are acidic.</td>
</tr>
<tr>
<td>Acid-free Foam-Core® (International Paper Co.); extruded polystyrene with polystyrene skin</td>
<td>Urea formaldehyde impregnated paper laminated panel board (Gatorfoam®)</td>
</tr>
<tr>
<td>Honeycomb boards</td>
<td></td>
</tr>
<tr>
<td>- acid-free rigid paperboard (Tycore®)</td>
<td></td>
</tr>
<tr>
<td>- aluminum-board (Hexcel Honeycomb®)</td>
<td></td>
</tr>
<tr>
<td>Corrugated polypropylene boards (Cor-X®, Coroplast®)</td>
<td></td>
</tr>
<tr>
<td>Double-walled polycarbonate (Leesan®)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tape/Ties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Use</strong></td>
<td><strong>Don't Use</strong></td>
</tr>
<tr>
<td>Water-activated paper or linen tape</td>
<td>Pressure sensitive tapes, including:</td>
</tr>
<tr>
<td></td>
<td>- cellophane</td>
</tr>
<tr>
<td></td>
<td>- masking</td>
</tr>
<tr>
<td></td>
<td>- strapping</td>
</tr>
<tr>
<td></td>
<td>- duct</td>
</tr>
<tr>
<td></td>
<td>- electrical</td>
</tr>
<tr>
<td>Cotton or polyester twill tape</td>
<td>The adhesive degrades and the carrier peels off leaving residues and stains.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rubber bands</td>
</tr>
<tr>
<td></td>
<td>Rubber degrades and sticks to the surface.</td>
</tr>
</tbody>
</table>

Figure I.9. Recommended Storage Materials (continued)
<table>
<thead>
<tr>
<th>Use</th>
<th>Don’t Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Polyester Stabilite</td>
<td>• Wool fabric</td>
</tr>
<tr>
<td>• Reenay 2014</td>
<td>• Unwashed muslin</td>
</tr>
<tr>
<td>• Washed muslin</td>
<td>Sizing may attract pests.</td>
</tr>
</tbody>
</table>

**Figure 1.9. Recommended Storage Materials (continued)**
Packing museum objects for shipping can present a challenge. Imaging what can happen to an 800-year-old Anasazi corrugated jar during shipment is frightening. With proper preparation and planning, however, museum objects can be shipped safely and securely.

The following procedures and techniques are based on the experience of Mesa Verde National Park’s curatorial staff in packing artifacts for a traveling exhibit, Gustaf Nordenskiöld, Pioneer Archeologist of Mesa Verde. The exhibit was displayed at the park before traveling to five museums. The majority of the 200 objects were archeological and included sandals, baskets, bone implements, stone tools, pottery, and fiber bundles.

Packing techniques that mitigated the following two concerns were employed: minimum handling of the objects, and simplified unpacking and repacking of the objects by the five museums involved. A packing method known as “package-within-a-package” was used: cavity-packed objects are placed in cardboard boxes; cardboard boxes are then floated within an outer protective shipping crate that provides a safe, stable environment. This Conserve O Gram discusses cavity packing and preparation of the boxes. Conserve O Gram 17/3 describes construction and packing of the crate.

Keep in mind a few basic considerations during the packing process: objects must be properly supported at the strongest points; objects must be protected against the effect of temperature and relative humidity changes and against vibration caused by transporting; and objects must be properly spaced within the box to avoid potential damage caused by crowding.

Preparation

Planning and preparation must precede the packing of museum objects. (See Conserve O Gram 17/1.) It is necessary to inspect and document object condition, select a safe method of shipment, prepare a work space, acquire materials, and observe rules for safe object handling. See NPS Museum Handbook, Part I (Rev 9/90), Chapter 6, for guidelines on each of these procedures.

At Mesa Verde National Park, the Nordenskiöld exhibit was displayed in a building separate from the museum collection work space, making it more practical to pack objects in the exhibit space after the exhibit closed. To minimize the amount of dirt and dust, the boxes and crates were constructed and the Ethafoam® was cut beforehand in a separate space from the exhibit area.

One point cannot be overemphasized: allow sufficient time to pack the objects without being hurried and without interfering with other work activities. The amount of time required to safely pack an object for shipment can be hours or, in some instances, days.

The Corrugated Box

Assembling boxes in which the objects are to be cavity packed is the next step in preparing objects for shipment. Boxes can be either purchased or custom-made. On the one hand, purchasing appropriate size boxes can save valuable staff time. On the other hand, constructing boxes permits customizing them to the dimensions and packaging needs of the objects.
Acid-free corrugated cardboard, both 2- and 4-ply, was used to construct the boxes. It is not absolutely necessary that acid-free cardboard be used. Cost may preclude using acid-free materials. However, using these materials shows that special care was taken during the initial packing of objects and encourages similar care by the receiving museum. In this case, 2-ply corrugated cardboard was used to construct boxes containing small, lightweight objects (e.g., bone awls, stone points, sandals), while 4-ply corrugated cardboard was used for heavier objects that required additional strength and for fragile objects that needed additional protection (e.g., pottery, stone axes, baskets).

The following procedures may be used to determine the size of the boxes needed to pack museum objects for shipment. The procedures apply either for purchasing ready-made boxes or for estimating the amount of cardboard that will be needed for custom-made boxes:

1. Obtain the dimensions of the objects. Photographs of the objects that include dimensions can be helpful, but seeing and examining the objects are important.

2. To these dimensions, add a minimum of two inches on every side as well as top and bottom between object and box for the cavity packing material. When packing multiple objects per box, include space between objects for packing material. Objects of similar material can be grouped together in a box when properly spaced. A listing of the objects grouped according to size within the material type can also be a help in estimating box sizes.

3. When standard boxes are used, obtain the sizes that closely fit the dimensions calculated in step 2 above. It is better to use a box that is a little too large than too small.

4. A two-piece custom-made box consisting of a bottom and separate lid can be constructed as follows:

- Use a mat knife (e.g., an X-Acto knife) and metal ruler to cut corrugated cardboard. Place the ruler, which is used as a cutting guide, along the line to be cut. First score the cardboard along the line, then make additional cuts until all layers of the cardboard have been cut. Change the knife blade frequently to maintain a sharp edge for clean cuts.

- Cut and construct the bottom before making the lid to ensure a snug fit as shown. Score (without cutting) the cardboard along the line to be folded. Tape the corners with fiber tape or reinforced strapping tape. Make a pattern or template to follow before cutting.

- To make the lid to fit the width and depth of the bottom, place the bottom of the box on a sheet of corrugated cardboard and trace the outline. Allow two inches on each side to form a lip for the lid.

- Score the cardboard along the line to be folded to make the lip. Tape the corners with fiber tape or reinforced strapping tape.
**Cavity Packing for Boxes**

Cavity packing involves placing an object in successive layers of material (e.g., polyethylene foam) into which an opening is cut. The packing material insulates the object and will absorb vibrations created during shipping. Cavity packing supports the object and cushions it from movement. It also creates a micro-environment for the objects.

Polyethylene foam (e.g., Ethafoam) can be used to cavity-pack many solid, stable, three-dimensional objects. It is also good for very heavy objects. For more vulnerable objects, such as ceramics or glass, a softer urethane ester-type foam may be preferred.

Ethafoam is available in various densities and comes in sheets 4 feet wide by 8 feet long, with thicknesses varying from 1/2 to 4 inches. The 2- and 3-inch-thick foam was the most useful for this traveling exhibition. Both the 3- and 4-inch-thick Ethafoam can be more difficult to cut by hand and it may be necessary to use an electric saber saw. A sharp, long-blade utility knife, a serrated bread knife, or an electric slicing knife can also be used for cutting. The steps to fabricate cavity packing are as follows:

1. To begin cavity packing, cut the layers of foam to fit the length and width of the box. The number of layers will depend on the depth of the box and thickness of the foam.

2. Take the piece(s) of foam to be carved for the cavity and draw an outline of the object on the foam. Place the object directly on the foam, outlining carefully with a No. 2 pencil. Take care not to mark the object. Size the cavity so that the object is held firmly in place yet can be removed without abrasion or damage.

3. A horizontal cut can be made into the side of the foam under the object's outline and at a depth equal to the thickness of the object. Next a cut is made following the object outline down to the horizontal cut. Remove

4. Allow enough room so that the object can be wrapped with acid-free tissue before being placed in the cavity or that the cavity can be lined with tissue and then folded over the object without crushing it. The tissue prevents abrasion and the loss of fragments dislodged during transportation and also aids in removal of the item from the cavity. When the cavity is lined with tissue, it remains in place while only the object is removed.

5. For shallow cavities, a 1/4-inch-wide strip of cotton bias tape can be placed under the object so that the ends of the tape can be grasped in order to gently pull the object out of the cavity.

6. When cutting a deeper, multi-layer cavity, each layer must conform to the shape of the objects at that level. Fill in excess space with acid-free tissue. Number the layers using felt tip marker so that they are repacked in the same order.
7. After the object is placed in the cavity, add the top layer of foam to completely fill the box and prevent any movement.

8. Secure the lid to the box with adhesive tape or tie it with cotton bias tape.

9. On the exterior of the box lid, list the catalog numbers for all objects in the box as well as the exhibit number, the object box number, and the number of the crate into which it will be packed. Either on the exterior or interior of the box lid, note any instructions for special handling, for unpacking, or for repacking the box. Include photographs or photocopies of the objects that are contained in the box.

The above method for packing objects will minimize the hazards that objects are subject to during travel. Used successfully by Mesa Verde National Park, it is one of several ways to safely pack objects for shipping. Consult the NPS Museum Handbook, Part I (Rev 9/90), Chapter 6, for alternative methods that may suit a particular situation. Procedures and techniques for packing ceramics, glass, and stone are discussed in the NPS Museum Handbook, Part I, Appendix P. Where there are special concerns regarding the packing of a specific object, consult a conservator before proceeding.

Sources

The supplies necessary for packing objects can be obtained through a packaging supplier, or consult the NPS Tools of the Trade for names of vendors for specific materials. NOTE: When ordering supplies that will be used for object packaging, emphasize that supplies must arrive clean. This is especially important when ordering polyethylene foam (Ethafome). Also consider where packing materials will be stored until used. Because foam and paper products absorb moisture, they should be stored in a space that provides control of relative humidity levels.

Standard size, corrugated boxes can be purchased by parks and other government agencies from General Services Administration (GSA). They also are available from local packaging suppliers.

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Reference Materials and Guidance

11. Helpful Notes on Smaller Exhibits by Nicholas Dungey,
Edited by Alaura Hopper

Plan Big:
- Start with big ideas for an exhibit! Specifically revolving around a theme or themes that will be narrowed down to one theme over time.

More than just the exhibit:
- While the small exhibit may only be in one display case, there can be extensions such as exhibit text on a wall, placing an informative stanchion next to the exhibit, or including brochures for visitors to use after interacting with the exhibit.

Interaction:
- Can the exhibit be interactive? Do you have volunteers or workers who can do this? If it’s possible, then an interactive exhibit may be more productive and produce higher visitor count.
- Having a volunteer or worker providing extended information for even an hour a day can create more visitor output to a smaller exhibit.
- Technology and quick, fun surveys aren’t bad either – have this on a nearby table or a cork board where people can pin what they write, these ideas get visitors involved and make it more interesting for them.

Design:
- Eye-catching
- Eye-catching, again (it’s that important); a small exhibit is just that: small. Because of this, you will evidently have less to work with than a full exhibit and less to no lead up to this exhibit; for that reason, you will want to have something eye-catching about you exhibit that has the ability to stop the visitor and ‘catch’ their attention, this can include, but is not limited to:
  - Descriptive visuals
  - Catchy title
  - Interesting artifacts (something that many people may have not seen)
  - Colorful text or displays
  - Bigger text with relevant/thought-provoking information
  - Maps (visitors love maps)
- Note: this is coming from experience on a smaller exhibit I worked on; while it had interesting artifacts, the surrounding colors were pretty dull compared to many colorful or eye-catching exhibits. I didn’t receive a visitor count for it, but I assume it may have been low.
Change:
- Since these are smaller exhibits, they can be changed more often than a full exhibit, providing volunteers, new workers, interns, or students exhibit experience and the ability to share their exhibit ideas and designs with the world.
- "Variety is the spice of life!" Having this variety will bring back more visitors and can provide something eye-opening, -popping, or -catching, possibly having the ability to bring in more visitors to a museum, repository, government building, library, or any other building willing to showcase a small exhibit.

Location:
- Location, location, location!
- Make sure the small exhibit is in a high-traffic location – putting it in front of offices only accessed by office workers will make it a low-traffic location where many of the public will be unable to see it.
- Place it at an entryway where people leaving or entering a building can interact with the exhibit on their own time; or in a more high-traffic area, such as a lobby, to encourage further visitor output.

Informative:
- However you look at it, museums, repositories, governments, or libraries have opinions. By all of these entities have biases – political or otherwise; they have a voice!
- Make use of that voice.
- Have your exhibit be informative and fit with the mission of your entity – even if it is ‘small’ it still has the ability to leave a lasting impact on visitors that may provoke further learning on the exhibit topic or exploration of the entity showcasing the small exhibit.
- If relevant, you can even use it as a small extension of a featured exhibit to be used as an example of what one can see at the full exhibit.

Brief:
- Get your point across.
- Make your text succinct and to the point; don’t provide information that can be easily researched by visitors, but rather provide information that can lead them to do further research, generate that interest!
- Visuals can provide that brief expression in an eye-catching way that uses up more space, but less wordy. Less words does not necessarily mean better, but people will prefer a brief to the point presentation that takes 5-10 minutes rather than a report that provides a lot of information, but takes 30 minutes to read and is mostly forgotten by visitors by the time they move on.

Security and environmental control:
- Have strong security, whether this exhibit be under a glass exhibit case or behind a locked cabinet case, the objects in this exhibit need to be protected and, if possible, under surveillance.
Another thing to consider is environment control – will the objects used in this exhibit (if there are objects) be affected by the surrounding environment? UV light? Fluorescent lighting? Oxidization? Mold? Pests? Fire? People? Where are these objects stored and can they be protected under emergency circumstances? Coming up with a brief emergency preparedness and environmental monitoring plan for this display case can provide ease of mind to the entity.

**Documentation:**
- Draft up some internal loan forms and condition forms, let the rest of the entity know where the objects in this small exhibit are being held – after all YOU may know, but an Intern may be conducting a brief inventory and involuntarily panic because one of the more expensive objects in the collection is “missing” when in actuality it is upstairs in a case they haven’t seen yet – for the sake of sanity and lack of panic. Ake sure to keep documentation of where the artifacts are.

**Collaboration:**
- Work with other entities, create some collaboration to create contacts and ties, support other entities and do the same – it might lead to something even better down the line; start small, continue big!

**Other Resources**
- “Keep it small, stupid!” is a tag line in museums that is known pretty well, but an example of this by Nick Sacco for the National Park Service’s 100th birthday can be found [here](#).
- Pop Museums/Exhibits provide the opportunity to make changes to full exhibits, create public relations, and do evaluation and market research, while taking up little space and resources – steps to creating an exhibit like this can be found [here](#).
Collections Management References

1. Collections Management Guides:


2. Registration:

Collections Management References

3. Web Resources

3a. Archaeological Collections Care and Management

National Park Service Museum Management Program:
https://www.nps.gov/museum/

National Park Service Museum Handbook:
https://www.nps.gov/museum/publications/handbook.html

National Park Service Conserve O Grams:
https://www.nps.gov/museum/publications/conserveogram/cons_toc.html

National Park Service Distance Learning Managing Archaeological Collections Overview:
https://www.nps.gov/archeology/collections/index.htm

University of West Georgia Antonio J. Waring, Jr. Archaeological Laboratory
https://waring.westga.edu

3b. National Associations and Accreditation Programs

American Alliance of Museums (formerly American Association of Museums)
http://www.aam-us.org

American Association for State and Local History
http://www.aaslh.org

3c. Regional Associations

Colorado Wyoming Association of Museums
http://www.cwam-us.org

Mountain Plains Museum Association
https://www.mpma.net
Supplies Sources

1. Archival boxes, folders, photo storage, etc.:

Archival Methods
www.archivalmethods.com
1-866-877-7050

Gaylord
www.gaylord.com
1-800-448-6160

Light Impressions
www.lightimpressionsdirect.com
1-800-656-4876

Talas
www.talasonline.com
1-212-219-0070

University Products
www.universityproducts.com
1-800-628-1912

2. Polyethylene bags:

Consolidated Plastics
https://www.consolidatedplastics.com
1-800-362-1000

Grainger
www.grainger.com
1-800-grainger

Uline
www.uline.com
1-800-295-5510