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APPENDIX A
BHP REPORT SUMMARY FORM

Archaeological Report Summary Form

PROJECT CHECKLIST: Please fill out a copy of this checklist and include it with your initial report submission, (including with management summaries or draft reports). This form may be downloaded and expanded as needed, but please do not eliminate any fields.

1. **Report Title** Addendum Report, Second Supplemental Phase Ib Cultural Resources Investigation, Bell Bend Nuclear Power Plant, Luzerne County, Pennsylvania, Prepared for AREVA NP Inc. and UniStar Nuclear Development, LLC, by GAI Consultants, Inc. Homestead, Pennsylvania.

2. **PI** Barbara A. Munford (☒ MA, ☐ PhD) / **Firm** or Institution GAI Consultants, Inc.

3. **Report Date** (Month/Day/Year) October 8, 2010

4. **Number of Pages** ~50 + appendices

5. **Agency Name** NRC Federal ☒ State ☐

6. **Project Area County/Municipality** (list all)

County	Municipality
Luzerne	Salem Township

7. **Project Area Drainage(s)**, (list all)

Sub-basin	Watershed
Central Susquehanna (Number 5)	Toby-Wapwallopen Creek (B) Nescopeck Creek (D)

8. **Project Area Physiographic Zone(s)** (list All) (Use DCNR Map 13 compiled by W.D. Sevon, Fourth Edition, 2000.)

Physiographic Zone
Ridge and Valley Province, Susquehanna Lowlands Section

Archaeological Report Summary Form

9. **Report Type** (some reports are combinations, check as many as apply to this report)

☐ Phase IA/Sensitivity Study

☒ Phase I

☐ Phase II

☐ Phase III

☐ Historic Structures

☐ Geomorphology

☐ Determination of Effects

☐ Other _____

10. **Total Project Area** 71 hectares

11. **Low Probability/Disturbed Areas** 27 hectares = 38 % of project area

12. **Phase I Methods used for total project** (check as many as apply)

☒ shovel tests, ☐ controlled test units/deep tests,

☒ surface survey, ☐ informant interview, ☒ other:

13. **Total Number of Sites** Encountered/Phase I two (2)

Total Sites Tested/Phase II

Total Sites Excavated/Phase III _____

14. Updated PASS Information: Please complete an updated PASS form **for each site** reported by this report. Updated forms need only include the new information and the site number and name.

15. PASS Site Specific Information: In addition, the following pages must also be completed **for each site**. Complete only the portions that pertain to the current report. If the report is a stand-alone Phase II, you do not need to fill in the Phase I methods, since they should have been included in the summary form for the previous report.

15. PASS Site Specific Information

Please complete the following **for each site** reported by this report.

PASS NUMBER 36LU301

A. Phase I Methods (how the site was located - check as many as apply)

- | | |
|---|---|
| <input type="checkbox"/> shovel tests, | <input type="checkbox"/> controlled test units/deep tests, |
| <input checked="" type="checkbox"/> surface survey, | <input type="checkbox"/> informant interview, |
| <input type="checkbox"/> test pits | <input checked="" type="checkbox"/> other: <u>judgmental shovel</u> |

B. Phase II Methods

- ☐ controlled surface collection
- ☐ controlled excavation w. screening of plowzone, > 5 units
- ☐ mechanical stripping of plowzone (_____%)
- ☐ deep excavation units
- ☐ remote sensing
- ☐ other _____

square meters of site tested: _____ sq. m

% of site area tested: _____ %

C. Phase III Methods

- ☐ controlled surface collection
- ☐ controlled excavation w. screening of plowzone, > 5 units
- ☐ mechanical stripping of plowzone _____%
- ☐ deep excavation
- ☐ block excavations
- ☐ remote sensing
- ☐ environmental reconstruction (soils, floral, pollen)
- ☐ dietary reconstruction (floral, faunal)
- ☐ intensive lithic analysis (functional)
- ☐ intensive lithic analysis (technological)
- ☐ raw material sourcing
- ☐ ceramic analysis (seriation)
- ☐ ceramic analysis (functional)
- ☐ blood residue
- ☐ other _____

square meters of site tested: _____ sq. m

% of site area tested: _____ %

Recommendations (normally completed only after Phase II):

-- NR Eligibility recommendation

☐ eligible, ☐ ineligible, ☐ undetermined

-- reasons for determination (check as many as apply; expand as needed)

☐ eligible: Criterion A. Explain _____☐ eligible: Criterion B. Explain _____☐ eligible: Criterion C. Explain _____☐ eligible: Criterion D:☐ settlement patterning (intersite patterning)☐ intrasite artifact patterning☐ features☐ radiocarbon dating☐ organic preservation☐ evidence of culture change through time☐ stratified ☐ temporally discrete clusters☐ burials/human remains☐ technological☐ economics☐ ethnicity☐ dietary☐ other(specify): _____☐ ineligible☐ disturbed☐ ephemeral occupation☐ redundant information☐ undatable☐ other (specify): _____**E. Artifacts/Collections**☒ will be donated to the State Museum of Pennsylvania☐ gift agreement from private owner enclosed**- or -**☐ transfer of responsibility from State Agency enclosed☐ election of repository from Federal Agency enclosed☒ artifacts washed/marked/cataloged following State
Museum guidelines

-- collection will be submitted by _____(date)

☐ will be donated to other approved repository (**this option must be negotiated with the BHP and State Museum or stated as stipulation in MOA**)

☐ curation agreement enclosed

☐ artifacts washed/marked/cataloged following host guidelines

-- collection will be submitted by _____(date)

☐ will be retained by land owner (☐ whole or ☐ partial collection)

☐ expanded documentation enclosed for items retained

☐ proof enclosed that owner was notified of the option to

donate the collection to the State Museum and chose to retain the collection:

☐ letter from owner indicating desire to retain collection

- or -

☐ agency or representative discussed donation option with owner on _____(date)

- and -

☐ copy of letter and certified letter receipt indicating that the owner was offered this option in writing.

15. PASS Site Specific Information

Please complete the following **for each site** reported by this report.

PASS NUMBER 36LU302

A. Phase I Methods (how the site was located - check as many as apply)

- ☒ shovel tests, ☐ controlled test units/deep tests,
☐ surface survey, ☐ informant interview, ☐ other:

B. Phase II Methods

- ☐ controlled surface collection
☐ controlled excavation w. screening of plowzone, > 5 units
☐ mechanical stripping of plowzone (____%)
☐ deep excavation units
☐ remote sensing
☐ other

square meters of site tested: ____ sq. m

% of site area tested: ____ %

C. Phase III Methods

- ☐ controlled surface collection
☐ controlled excavation w. screening of plowzone, > 5 units
☐ mechanical stripping of plowzone ____%
☐ deep excavation
☐ block excavations
☐ remote sensing
☐ environmental reconstruction (soils, floral, pollen)
☐ dietary reconstruction (floral, faunal)
☐ intensive lithic analysis (functional)
☐ intensive lithic analysis (technological)
☐ raw material sourcing
☐ ceramic analysis (seriation)
☐ ceramic analysis (functional)
☐ blood residue
☐ other ____

square meters of site tested: ____ sq. m

% of site area tested: ____ %

Recommendations (normally completed only after Phase II):

-- NR Eligibility recommendation

☐ eligible, ☒ ineligible, ☐ undetermined

-- reasons for determination (check as many as apply; expand as needed)

☐ eligible: Criterion A. Explain _____☐ eligible: Criterion B. Explain _____☐ eligible: Criterion C. Explain _____☐ eligible: Criterion D:☐ settlement patterning (intersite patterning)☐ intrasite artifact patterning☐ features☐ radiocarbon dating☐ organic preservation☐ evidence of culture change through time☐ stratified ☐ temporally discrete clusters☐ burials/human remains☐ technological☐ economics☐ ethnicity☐ dietary☐ other(specify): _____☒ ineligible☒ disturbed☐ ephemeral occupation☐ redundant information☐ undatable☒ other (specify): no structural remains; former house foundation removed**E. Artifacts/Collections**☒ will be donated to the State Museum of Pennsylvania☐ gift agreement from private owner enclosed**- or -**☐ transfer of responsibility from State Agency enclosed☐ election of repository from Federal Agency enclosed☒ artifacts washed/marked/cataloged following State
Museum guidelines

-- collection will be submitted by _____(date)

☐ will be donated to other approved repository (**this option must be negotiated with the BHP and State Museum or stated as stipulation in MOA**)

☐ curation agreement enclosed

☐ artifacts washed/marked/cataloged following host guidelines

-- collection will be submitted by _____(date)

☐ will be retained by land owner (☐ whole or ☐ partial collection)

☐ expanded documentation enclosed for items retained

☐ proof enclosed that owner was notified of the option to

donate the collection to the State Museum and chose to retain the collection:

☐ letter from owner indicating desire to retain collection

- or -

☐ agency or representative discussed donation option with owner on _____(date)

- and -

☐ copy of letter and certified letter receipt indicating that the owner was offered this option in writing.

APPENDIX B
PROJECT CORRESPONDENCE



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

23 March 2009

T. L. Harpster
PPL Bell Bend, LLC
38 Bomboy Lane, Suite 2
Berwick, PA 18603

TO EXPEDITE REVIEW USE
BHP REFERENCE NUMBER

Re: ER# 81-0658-079-Q
Management Summary, Supplemental Phase Ib
Cultural Resources Investigation, 263 Acres of
Additional Project Area Bell Bend Nuclear Power
Plant, Salem Township, Luzerne County,
Pennsylvania

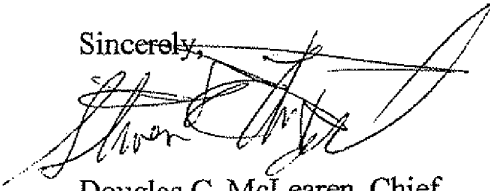
Dear Mr. Harpster:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

This report meets our standards and specifications as outlined in *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations* (BHP 1991) and the Secretary of the Interior's Guidelines for Archaeological Documentation. This report documents archaeological survey of an additional 263 acres added to the original 630 acres reported in the previous Phase Ib Management Summary. No archaeological sites were found as a result of this survey and we agree with the recommendations that no further archaeological work is necessary within this area. We look forward to working with you further in this matter.

If you need further information in this matter please consult Steven McDougal at (717) 772-0923.

Sincerely,



Douglas C. McLearn, Chief
Division of Archaeology &
Protection

cc: B. Munford, GAI Consultants
S. Imboden, NRC

DCM/srm



Commonwealth of Pennsylvania
Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093
www.phmc.state.pa.us

RECEIVED

MAR 22 2010

GAI CONSULTANTS INC.
PROJ. NO. C080204.10

March 17, 2010

CC: JNT
BAM
BR
CF
MPK

Hannah L. Cole
GAI Consultants, Inc.
385 E. Waterfront Drive
Homestead, PA 15120-5005

TO EXPEDITE REVIEW USE
GHP REFERENCE NUMBER

Re: ER 81-0658-079-U
NRC: Bell Bend Power Plant Phase IB Investigations Management
Summary: Historic Resources
Conyngham, Nescopeck, Salem Townships, Luzerne County

Dear Ms. Cole:

The Bureau for Historic Preservation (the State Historic Preservation Office) has reviewed the above named project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992, and the regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation as revised in 1999 and 2004. These regulations require consideration of the project's potential effect upon both historic and archaeological resources.

We concur with the findings of the agency that the following resources are eligible for the National Register of Historic Places.

1. United Reformed & Lutheran Church (Old River Church), Conyngham Township, Luzerne County: This church is an excellent example of the Federal style of architecture and meets National Register criterion C.
2. Woodcrest, 3209 SR 239, Conyngham Township, Luzerne County: This farms is eligible for its local agricultural significance and meets National Register criterion A. It may also be eligible under criterion C, for its architectural significance, however, information and photographs of its interior would need to be submitted to evaluate for this criterion.

We disagree with the findings of the agency concerning the eligibility of the following resource. In our opinion, this resource is eligible for the National Register of Historic Places.

3. North Branch of the Pennsylvania Railroad, Salem Township, Luzerne County: This intact section of the canal reflects the significance of the canal in the mid to late 19th century and therefore is eligible under National Register criterion A.

We concur with the findings of the agency that the following properties are not eligible for the National Register of Historic Places. Based on the information supplied they are not historically or architecturally significant.

4. Thrash Farm, 783 Berwick-Hazleton Highway, Nescopeck Township, Luzerne County
5. Fortner Farm, 212 E. Cherry Road, Nescopeck Township, Luzerne County
6. Croll Farm, 811 River Road, Nescopeck Township, Luzerne County
7. Raber Farm, 950 Berwick-Hazleton Highway, Nescopeck Township, Luzerne County
8. Michaels Farm, 4252 N. Market Street, Salem Township, Luzerne County
9. Heller Farm, 4210 N. Market Street, Salem Township, Luzerne County
10. Valley View Farm, Salem Township, Luzerne County
11. Susquehanna & Tioga Turnpike, Salem Township, Luzerne County
12. Jameson Farm, 62 Kiliti Road, Salem Township, Luzerne County

We disagree with the findings of the agency concerning the National Register eligibility of the following resources. In our opinion, these railroads are not eligible.

13. Pennsylvania & Sunbury Line of the Delaware and Hudson Railroad, Nescopeck Township, Luzerne County: This line was a connection between major Railroad lines of the Pennsylvania Railroad. While Sunbury, Wilkes-Barre and Hazleton Were all major economic centers at the time, it does not make this spur Significant nor played a significant role in the transportation of anthracite coal.
14. The Bloomsburg Division of the Delaware, Lackawanna and Western Railroad, Salem Township, Luzerne County: Based on the information provided the Significance of this section of the DL& W is unproven. It does not appear to have provided significant competition to other railroad lines or to have been an important carrier in relation to other railroads.

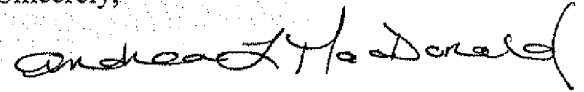
We are unable to complete our review of the following resources until additional information is submitted.

15. Stone Arch Bridge/North Market Street Bridge, Salem Township, Luzerne County: Please supply the correct length measurement of this bridge (see attached guidance for measuring bridges). The submission states that there are only 3 intact stone arch bridges in the county. Our on-line Geographical Information Submission shows that there are over 50 stone arch bridges. Please evaluate this bridge in the context of the bridge survey.
16. Wapwallopen Historic District (potential), Conyngham Township, Luzerne County: Please contact our agency to schedule a site visit to verify the presence and boundaries of a historic district.

Page 3
H. Cole
March 17, 2010

If you need further information in this matter please consult Susan Zacher at (717)
783-9920.

Sincerely,

A handwritten signature in dark ink, appearing to read "Andrea L. MacDonald". The signature is fluid and cursive, with the first name "Andrea" and last name "MacDonald" clearly distinguishable.

Andrea L. MacDonald, Chief
Division of Preservation Services

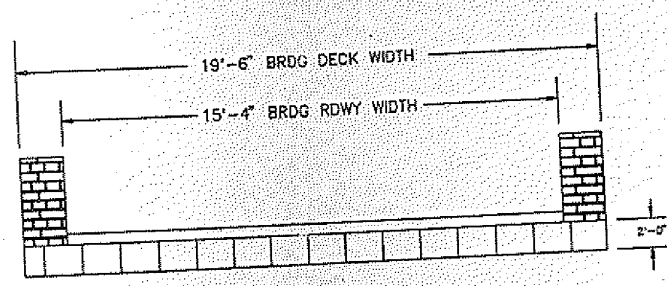
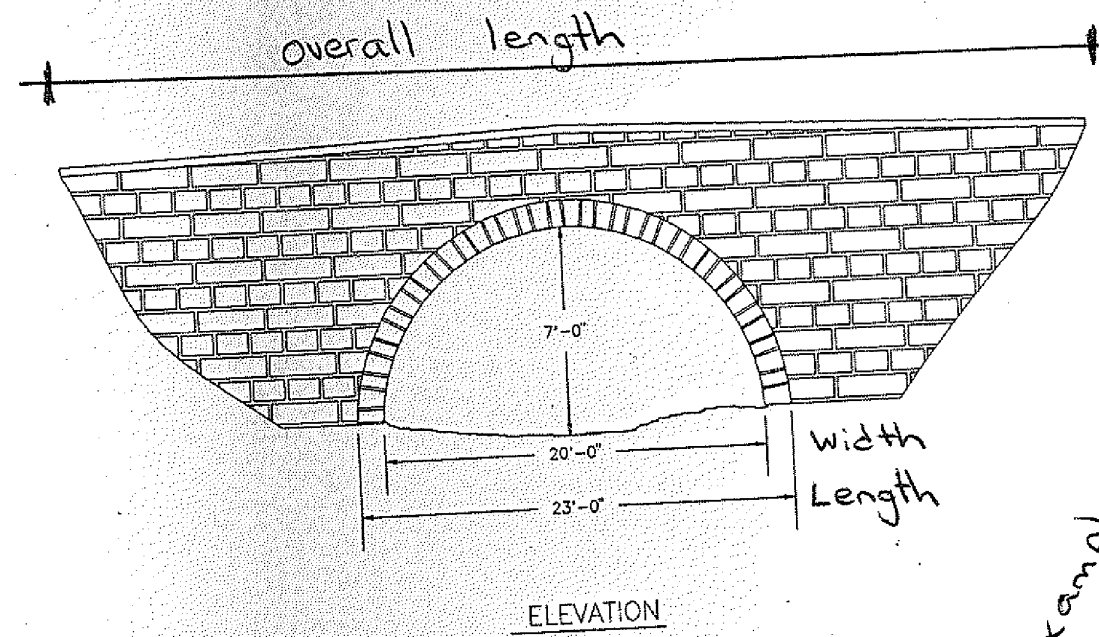
Enclosure
AM/smz

Enclosure for Bridge Measurements

46 7470 0486 2502

Stone Arch Bridge (GAI-06) & North
Market St Bridge (GAI-07), Salem Twp, Luzerne Co

Example for
Bridge Measuring



LUZERNE COUNTY ROAD AND BRIDGE DEPARTMENT		
BRIDGE # 42502 NEW COLUMBUS BOROUGH		
DRAWN GAS	CHECKED JJB	DWG 2/2
SCALE NOTED	DATE AUGUST-94	

APPENDIX C
PENNSYLVANIA ARCHAEOLOGICAL SITE SURVEY FORMS

PENNSYLVANIA ARCHAEOLOGICAL SITE SURVEY

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

Identification and LocationSITE NAME GAI Site 12 SITE NUMBER 36LU301 UPDATE? Y☐ / N☒PUBLISHED REFERENCES (Including compliance reports.) Supplemental Phase Ib Cultural Resources Investigations, Power Block Relocation, Bell Bend Nuclear Power Plant, Luzerne County, PA., Prepared for AREVA NP, Inc. and UniStar Nuclear Development, LLC by GAI Consultants, Inc., Homestead, Pennsylvania, 2010.ER# ER 81-0658-079COUNTY Luzerne TWP. Salem NEAREST TOWN Berwick**Site Characteristics**SITE AREA 16,000 SQUARE METERS BASIS: ☒ COMPUTED ON THE GROUND OR ☐ COMPUTED ON MAPSTRATIFIED? ☒ UNKNOWN ☐ NO
☐ YES : ☐ TOP STRATUM VISIBLE OR ☐ BURIED UNDER STERILESITE DISCOVERY METHOD: (check primary one only) ☐ Previously Recorded (update)

- | | |
|---|--|
| <input type="checkbox"/> Unknown | <input type="checkbox"/> Auger probing |
| <input type="checkbox"/> Collector interview | <input type="checkbox"/> Shovel testing |
| <input type="checkbox"/> Collector interview with field check | <input type="checkbox"/> Systematic test units |
| <input type="checkbox"/> Non-systematic surface survey | <input type="checkbox"/> Extensive excavation |
| <input checked="" type="checkbox"/> Systematic surface survey | |
| <input type="checkbox"/> Systematic shovel testing | |
| <input type="checkbox"/> Remote sensing | |

POTENTIAL FOR ORGANIC PRESERVATION: (check one)

- ☒ Unknown
☐ None
☐ Low potential for organic preservation
☐ Conditions favorable for organic preservation, none documented
☐ Organic material recovered, unknown quality of preservation
☐ Organic material recovered, poor quality of preservation
☐ Organic material recovered, good quality of preservation

SITE TYPE:

Prehistoric

- ☐ Unknown function surface scatter less than 20m radius
☒ Open habitation, prehistoric
☐ Rockshelter/Cave
☐ Quarry
☐ Lithic Reduction
☐ Village (including historic Indian)
☐ Shell Midden
☐ Earthwork
☐ Petroglyph/Pictograph
☐ Burial Mound
☐ Cemetery
☐ Other specialized aboriginal site

- ☐ Isolated flute point locus
☐ Isolated find (diagnostic artifact)
☐ Paleontological site
☐ Path

Historic

- ☒ Historic and Prehistoric
☐ Domestic Site
☐ Military Site
☐ Industrial Site
☐ Shipwreck Site
☐ Commercial Site
☐ Religious Site
☐ Unknown/other/multiple types

☐ Farmstead

CHRONOLOGY (check all that apply)

Prehistoric
☒ Unknown Prehistoric

☐ Paleoindian

☐ Early ☐ Middle ☐ Late

☐ Archaic

☐ Early ☐ Middle ☐ Late

☐ Transitional Tradition

☐ Woodland

☐ Early ☐ Middle ☐ Late

☐ Proto Historic

Historic
☐ Unknown Historic

☐ Contact-Historic

☐ 1550-1600

☐ 1600-1650

☐ 1650-1700

☐ 1700-1800

☐ 1700-1725 ☐ 1725-1750

☐ 1750-1775 ☐ 1775-1800

☐ 1800-1900

☒ 1800-1825 ☒ 1825-1850

☐ 1850-1875 ☐ 1875-1900

☒ 1900-

☐ 1900-1925 ☐ 1925-1950

☐ 1950-1975 ☐ 1975+

BASIS FOR CHRONOLOGICAL INTERPRETATION (check all that apply):--

☒ -- Diagnostic Historic Artifacts

☐ Diagnostic lithic artifacts

☐ Ceramic types

☐ Historical Documentation

☐ Radio Carbon Dates (list below)

RADIO CARBON DATES _____ ± _____
_____ ± _____

FEATURES? ☒ NONE FOUND ☐ YES (identify below) If count is not known, use a "P" for present.

Prehistoric

Quantity	Prehistoric Features
0	Present, Prehistoric
0	Bundle Burials
0	Burial Mound
0	Burials
0	Burned Areas
0	Cache Pits
0	Circular Houses
0	Cremation Burials
0	Earthworks

Quantity	Prehistoric Features
0	Extended Burials
0	Fish Weir
0	Flexed Burials
0	Hearth/Thermal Feature
0	House Pattern
0	Longhouses
0	Midden Areas
0	Ossuary
0	Other, Prehistoric _____

Quantity	Prehistoric Features
0	Path
0	Petroglyph/Pictograph
0	Postmolds
0	Quarry Pit
0	Semi-Subterranean Structures (e.g. Keyhole Structures)
0	Shell Heap
0	Stockade
0	Storage Pits/Trash Pits

Historic

Quantity	Historic Features
0	Present, Historic
0	Burial
0	Canal Bed
0	Canal Lock
0	Canal Tunnel

Quantity	Historic Features
0	Cellar
0	Cemetery
0	Cistern
0	Dam
0	Ditch

Quantity	Historic Features
0	Fenceline
0	Flower Garden/Bed
0	Fortification
0	Foundation
0	Ice House

Quantity	Historic Features
0	Iron Furnace
0	Kiln
0	Midden
0	Millrace
0	Monument/Boundary Marker
0	Oil Well
0	Other, Historic _____
0	Oven

Quantity	Historic Features
0	Pipeline
0	Pit
0	Posthole/Postmold
0	Privy
0	Quarry/Mine
0	Railroad
0	Road
0	Root Cellar
0	Shipwreck

Quantity	Historic Features
0	Springhouse/Springbox
0	Standing Building or Structure
0	Still
0	Vat
0	Walk/Path
0	Wall
0	Water Well
0	Wharf

Artifacts (Complete inventories may be attached, but please complete the summaries below)

ARTIFACT DATA RECOVERY METHOD:

- | | |
|---|---|
| <input type="checkbox"/> Non-provenienced | <input type="checkbox"/> Controlled excavation |
| <input type="checkbox"/> Surface collection not representative of all artifacts | <input type="checkbox"/> Representative sample of all artifacts (tools and/or debitage, etc.) |
| <input type="checkbox"/> Non-controlled excavation (i.e. artifact location not mapped and/or not all artifacts collected) | <input type="checkbox"/> Representative sample of tools only |
| <input checked="" type="checkbox"/> Controlled surface collection | <input type="checkbox"/> Estimate based on surface collections and/or excavation |
| | <input type="checkbox"/> Estimate based on informant interview |

LITHIC MATERIALS FOUND ON SITE:

Quantity	Material
4	Argillite
0	Chalcedony
8	Chert/Flint (6 Shriver/Helderberg; 2 Onondaga)
0	Crystal Quartz
0	Diabase
0	Diorite
0	English Flint
0	French Flint
0	Granite

Quantity	Material
0	Hematite
0	Hornfels
0	Ironstone
0	Jasper
0	Limestone/Dolomite
0	Metabasalt/Greenstone
0	Metasandstone
0	Onondaga Chert
0	Quartz

Quantity	Material
0	Quartzite
0	Rhyolite (Metarhyolite)
2	Sandstone
0	Shale
0	Siltstone
0	Slate
0	Steatite
0	Vanport Chert (Flint Ridge)
0	Unidentified

ARTIFACT CATEGORIES (Use the comments section to list any artifacts not categorized in these tables. Include either exact quantities or relative as follows:

B	Less than 25
C	25 - 50
D	51 - 100

E	101 - 200
F	201 - 400
G	401 - 800

H	801 or More
I	Present, Quantity Unknown

J	Present, Common
---	-----------------

Prehistoric (Include quantity by material type if appropriate, using the LITHIC list above. Examples:

D	Stone Debitage	52 rhyolite / 26 chert
2	Grooved Axes	sandstone

Quantity	Prehistoric Artifact Types	Material Type
0	Adzes	
0	Antler & Bone Artifacts	
0	Bannerstones	
0	Celts	
0	Ceramics (Prehistoric)	
5	Chipped Stone Tools	Shriver chert / Jasper
0	Clay Pipes (Prehistoric)	
0	Cordage	
0	Core	
0	Fire Cracked Rock	
0	Gorgets/Pendants/Non-Utilitarian Lithics	
0	Grooved Axes	
0	Ground & Polished Stone Tools	

Quantity	Prehistoric Artifact Types	Material Type
2	Hammerstones	
0	Hoes	
0	Human Bone	
0	Netsinkers	
0	Non-Artifactual Bone or Antler	
0	Non-Artifactual Floral Remains	
0	Non-Artifactual Shell	
0	Pestles/Grinding/Pitted Stones	
0	Shell Artifacts	
0	Steatite Bowls/Fragments	
7	Stone Debitage	
0	Stone Pipes	
0	Wooden Artifacts	

Historic (Include Quantities by Group as appropriate from table below):

Architectural	Farm Tools	Kitchen (Domestic)
Personal	Arms/Weapons	Industrial Tools

Examples:

D	Glass	50 Architectural / 29 Kitchen
G	Metal	Architectural

Quantity	Historic Artifact	Group
1	Brick	1 Architectural
	Buttons	
14	Ceramics (Historic)	13 Kitchen
	Clay Pipes (Historic)	
	Coins	
5	Glass	1 Architectural/ 4 Kitchen
	Glass Trade Beads	
	Gunflints	

Quantity	Historic Artifact	Group
	Jewelry	
	Metal	
	Non-diagnostic ceramics	
	Redware	
	Strike-a-Light	
	Textiles	
1	Toys	1 Activities (toy car)

DIAGNOSTIC ARTIFACTS

Prehistoric Projectile Points (Include counts by material types, using the LITHIC list above. Examples:

7	Broadspears	5 rhyolite / 2 argillite
2	Lehigh/Snook Kill	chert

Quantity	Prehistoric Point Types	Material
-----	Paleoindian Points	-----
	Pre-Clovis	
	Clovis	
	Mid-Paleo (Folsom)	

Quantity	Prehistoric Point Types	Material
	Late Paleo (Plano)	
	Hardaway-Dalton	
	Fluted Point	
-----	Early Archaic Points	-----

Quantity	Prehistoric Point Types	Material
	Palmer	
	Kirk Corner-notched	
0	St. Charles	
0	Thebes	
0	Charleston	
-----	Middle Archaic Points	-----
0	Bifurcate Points	
0	Middle Archaic Notched/Stemmed Points	
0	MacCorkle	
0	Saint Albans	
0	LeCroy	
0	Otter Creek	
0	Kanawha	
0	Kirk Stemmed	
-----	Late Archaic Points	-----
0	Piedmont Tradition	
0	Laurentian Tradition	
0	Steubenville	
-----	Transitional Tradition	-----

Quantity	Prehistoric Point Types	Material
0	Koens Crispins/Savannah River	
0	Broadspears	
0	Lehigh/Snook Kill	
0	Perkiomen	
0	Susquehanna	
-----	Early Woodland Points	-----
0	Adena (Stemmed)	
0	Meadowood	
0	Helgramite	
0	Orient	
-----	Middle Woodland Points	-----
0	Raccoon Notched	
0	Snyders	
0	Basal Notched	
0	Jacks Reef	
0	Fox Creek	
-----	Late Woodland Points	-----
0	Triangles (Late Woodland)	
-----	Proto Historic Points	-----
0	Triangles (Proto Historic)	

Prehistoric Ceramic Types (Include counts by temper types - if not implied in name - using the LITHIC list above. Additional options include “grit”, “grog” or “shell.”.)

Quantity	Prehistoric Ceramics	Temper
-----	Early Woodland Ceramics	-----
0	Accokeek Ware	
0	Adena Plain	
0	Grit Tempered Flat Bottom	
0	Half-Moon Cordmarked	
0	Interior-Exterior Cordmarked Small Temper-Conical/Globular	
0	Marcy Creek	
0	Steatite Tempered	
0	Vinette I (Interior-Exterior Cordmarked Large Temper-Conical/Globular)	
-----	Middle Woodland/Middle to Late Woodland Ohio Valley Ceramics	-----
0	Abott Zoned	
0	Grit Tempered Exterior Cordmarked-Conical/Globular	
0	Grit Tempered Net Impressed-Conical/Globular	
0	Point Peninsula Series	

Quantity	Prehistoric Ceramics	Temper
0	Shell Tempered Net Impressed-Conical/Globular	
0	Watson Cord Marked	
-----	Late Woodland Ceramics	-----
0	Blue Rock Valanced	
0	Chance Series	
0	Chautauqua Cordmarked	
0	Clemsons Island/Princess Point Series	
0	Early Ontario Iroquois	
0	Erie Series	
0	Funk Incised	
0	Keyser Cordmarked	
0	Lancaster Incised	
0	Mahoning Cord Marked	
0	McFate Incised	
0	McFate/Quiggle Undifferentiated	
0	Meade Island Series	
0	Minguannan Series	
0	Monongahela	

Quantity	Prehistoric Ceramics	Temper
	(Undifferentiated)	
0	Monongahela Cordmarked-Late Woodland	
0	Monongahela Incised	
0	Monongahela Plain	
0	Monongahela Somerset Phase	
0	Oak Hill Series	
0	Overpeck	
0	Owasco Series	
0	Page Cordmarked	
0	Potomac Creek Cord Impressed	
0	Proto-Susquehannock	
0	Quiggle Incised	
0	Richmond Incised	

Quantity	Prehistoric Ceramics	Temper
0	Schultz Incised	
0	Shenks Ferry (Undifferentiated)	
0	Shenks Ferry Cordmarked	
0	Shenks Ferry Incised (Blue Rock Phase)	
0	Shenks Ferry Incised (Stewart Phase)	
0	Shepard Cordmarked	
0	Strickler Cordmarked	
0	Susquehannock (Undifferentiated)	
0	Townsend	
0	Tribal Series	
0	Washington Boro Incised	
0	Whittlesey	
0	Wyoming Valley Series	

Historic Ceramics

Quantity	Historic Ceramics
0	American Stoneware (Blue and Gray)
0	Basalt
0	Chinese Porcelain
0	Cream-Colored Ware
0	Creamware
0	Dry-Bodied (Engine Turned)
0	English Brown Stoneware
0	English Porcelain

Quantity	Historic Ceramics
0	Fulham
1	Ironstone—1 plain ironstone
0	Jackfield
0	Nottingham
	Pearlware (All Decoration Types)
0	Rhenish
	Rockingham
0	Scratch Blue/Brown Salt-Glaze Stoneware

Quantity	Historic Ceramics
0	Tin-Glazed Earthenware
0	Whieldon
0	White Salt-Glaze Stoneware
4	White Ware (Transitional)—3 plain whiteware; 1 spongeware whiteware
	Yellowware

Physical Data and Site Condition

Instructions available. Please fill out as much as is known, especially those items that are measured or observed on site.

On site SOIL ASSOCIATION Oquaga-Wellsboro-Lackawana SOIL MAPPING UNIT Rexford loam, 0-3% (RdA)

Most common other mapped SOIL UNIT(S) within 500 meters Chenango gravelly loam, 0-3% (ChA) (may list two)

MAP ELEVATION 660 feet SLOPE PERCENTAGE 0-3% SLOPE DIRECTION West

SLOPE BASIS ☐ MEASURED ON SITE ☒ ESTIMATED FROM SOIL SURVEY OR MAP

BEDROCK Devonian Hamilton Group Most predominant other BEDROCK(S) within 5 km Dev. Trimmers Rock Form. (may list two)

PHYSIOGRAPHIC PROVINCE Ridge and Valley (If within 10 km of a Physiographic Province boundary, name the neighboring PHYSIOGRAPHIC PROVINCE _____)

TOPOGRAPHIC SETTING (check the one that best describes the setting):

- ☐ Island
☐ Beach
☐ Floodplain
☐ Rise in Floodplain
☐ Terrace (Pleistocene along river)

- ☐ Lower Hillslope
☐ Middle Hillslope
☐ Upper Hillslope
☐ Stream Bench (along low order stream) ☐ Hill/Ridge Toe

- ☒ Upland Flat
☐ Hilltop
☐ Ridge Top
☐ Saddle

IMMEDIATE VEGETATION cultivated field PERCENTAGE OF SITE STILL INTACT unknownPRIMARY DISTURBANCE cultivation POSSIBILITY OF DESTRUCTION yes**Water Drainage Area Information**

Instructions available. Please fill out as much as is known, especially those items that are measured or observed on site. Distance to water is particularly critical.

SUBBASIN 5 WATERSHED D MAJOR STREAM Susquehanna River MINOR STREAM Walker RunNEAREST WATER: Distance 91 m Elevation 662 ft Direction S Order Type 2ND NEAREST WATER: Distance 548 m Elevation 650 ft Direction SE Order Type

NEAREST PERRENIAL STREAM CONFLUENCE:

Distance 2,134 m Elevation 500 ft Direction SW Order below confluence

RELATIONSHIP OF FIRST AND SECOND WATER (check one)

- ☒ Do not represent a stream confluence.
☐ Site is located upstream from the confluence and between the 2 water sources.
☐ Site is located upstream from the confluence, but not between the 2 water sources.
☐ Site is located downstream from the confluence.
☐ None of the above apply.

COMMENTS

GAI Site 12 is situated in a cultivated field north of a bend in Walker Run and northwest of a sharp right angle turn in North Market Street. A wetland and a farmstead (house, barn, and outbuildings) lie between field's southern edge and North Market Street. Walker Run is located approximately 91 meters to the south, opposite North Market Street. Phase Ib testing included controlled surface collection (CSC) at 5 meters intervals throughout the field along with the excavation of five judgmentally-placed shovel tests. Phase Ib investigations yielded a dispersed low-density scatter of 14 prehistoric lithics, as well as a scatter of 21 historic specimens, within an 80 x 200 meter area at the southern end of the field and extending into the yard area. Prehistoric lithics included 5 bifaces (1 projectile point, 1 early stage biface, 1 middle stage biface and 2 late stage specimens), 7 debitage and 2 hammerstones. No diagnostic prehistoric artifacts were recovered. All but one of these lithics were recovered from the surface of the cultivated field; one lithic was found in the plowzone in an STP excavated at the edge of the yard area. The historic artifacts represent kitchen and architectural-related materials and include 13 historic ceramics (9 redware, 4 whiteware, and 1 ironstone), 4 bottle/container glass fragments, 1 brick, 1 window glass and 1 toy car. No structural remains were identified within the site boundary during fieldwork and historic map review revealed no structures within the site area. The existing farmstead dates from circa 1880. The recovered historic artifacts represent field scatter and do not constitute an historic period archaeological site.

Shovel testing exposed an Ap-B soil horizon sequence within the site area. The Ap horizon typically consisted of a 30-cm-thick brown silt loam and it superimposed a yellowish brown sandy loam to silty clay loam. Disturbances within the site boundary appear to be limited to cultivation and farmstead construction (at the southern end of the site).

Based on Phase Ib investigations, GAI Site 12 represents an undated prehistoric occupation above Walker Run, along with a field scatter of 19th and 20th century kitchen and architectural debris. GAI Site 12 has the potential to yield diagnostic artifacts and, possibly, intact prehistoric features. Phase II testing may be required to evaluate the site's National Register eligibility.

**ATTACH PHOTOGRAPHS OR DRAWINGS OF DIAGNOSTIC ARTIFACTS WITH SCALE.
IDENTIFY LITHIC MATERIAL TO ARTIFACTS USING DESCRIPTION OR KEY.**

**GENERAL SITE PHOTOGRAPHS OR EXCAVATION PHOTOGRAPHS OR DRAWINGS MAY
ALSO BE INCLUDED.**

We encourage the inclusion of as many illustrations as possible.



GAI Site 12: Overview from North Market Street, Facing Southwest



GAI Site 12: Showing Cultivated Field and Farmstead, Facing Southwest



GAI Site 12: Showing Cultivated Field, Facing East



GAI Site 12: Showing Cultivated Field and Farmstead, Facing Southeast

ADMINISTRATIVE INFORMATION (CONFIDENTIAL ITEMS HIGHLIGHTED)

7.5 QUAD NAME Berwick EDITION 1955 (Rev 1976) UP 39.37 ACROSS 27.68

(Measure in centimeters from the bottom printed edge upward, and the right printed edge across)

-OR-

U.T.M. COORDINATES: ZONE 18 NORTHING 45 48 640 EASTING 4 01 700

ATTACH SEPARATE SKETCH MAP OF SITE AND/OR PORTION OF 7.5 MIN USGS MAP WITH SITE BOUNDARIES INDICATED.

OWNER _____ ADDRESS _____

TAX PARCEL ID _____ TAX MAP DATE _____

☐ PRIVATE LANDOWNER ☐ PUBLIC LANDOWNER - ☐ FEDERAL ☐ STATE ☐ LOCAL


COLLECTION LOCATIONS 

INFORMANTS _____

RECORDING REASON

- | | |
|--|---|
| <input type="checkbox"/> Informant Interview/Amateur Survey | <input type="checkbox"/> Non-PHMC institution affiliated research |
| <input checked="" type="checkbox"/> State or Federal Compliance Survey | <input type="checkbox"/> PHMC Research |
| <input type="checkbox"/> PHMC Grant | <input type="checkbox"/> Other (Explain in 'Comments' section at end of form) |

CRITERIA FOR NATIONAL REGISTER INCLUSION Based on Phase Ib results, GAI Site 12 is recommended as Potentially Eligible for listing in the NRHP.

SUBMITTED BY Barbara A. Munford (GAI Consultants, Inc.) ADDRESS 

CITY  STATE  DATE 6/21/2010

PHONE NUMBER  EMAIL ADDRESS 

S.P.A. CHAPTER AFFILIATION _____

INSTITUTIONAL AFFILIATION _____

ADMINISTRATIVE COMMENTS _____

Remember! Ask the landowner's permission before you collect artifacts on private property. It is a violation of state law to collect artifacts on state lands and a violation of federal law to collect artifacts on federal lands.

Completed forms should be sent to:

Bureau for Historic Preservation
Commonwealth Keystone Bldg, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093

This figure is withheld per section 34 of the National Historic Preservation Act and Title 36 of the Code of Federal Regulations Part 800.11(c).

PENNSYLVANIA ARCHAEOLOGICAL SITE SURVEY

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

Identification and LocationSITE NAME GAI Site 13 SITE NUMBER 36LU302 UPDATE? Y☐ / N☒PUBLISHED REFERENCES (Including compliance reports.) Supplemental Phase Ib Cultural Resources Investigation, Power Block Relocation, Bell Bend Nuclear Power Plant, Luzerne County, PA., Prepared for AREVA NP, Inc. and UniStar Nuclear Development, LLC by GAI Consultants, Inc., Homestead, Pennsylvania, 2010.ER# ER 81-0658-079COUNTY Luzerne TWP. Salem NEAREST TOWN Berwick**Site Characteristics**SITE AREA 2,400 SQUARE METERS BASIS: ☒ COMPUTED ON THE GROUND OR ☐ COMPUTED ON MAPSTRATIFIED? ☒ UNKNOWN ☐ NO
☐ YES : ☐ TOP STRATUM VISIBLE OR ☐ BURIED UNDER STERILESITE DISCOVERY METHOD: (check primary one only) ☐ Previously Recorded (update)

- | | |
|---|--|
| <input type="checkbox"/> Unknown | <input type="checkbox"/> Auger probing |
| <input type="checkbox"/> Collector interview | <input checked="" type="checkbox"/> Shovel testing |
| <input type="checkbox"/> Collector interview with field check | <input type="checkbox"/> Systematic test units |
| <input type="checkbox"/> Non-systematic surface survey | <input type="checkbox"/> Extensive excavation |
| <input type="checkbox"/> Systematic surface survey | |
| <input type="checkbox"/> Systematic shovel testing | |
| <input type="checkbox"/> Remote sensing | |

POTENTIAL FOR ORGANIC PRESERVATION: (check one)

- ☒ Unknown
☐ None
☐ Low potential for organic preservation
☐ Conditions favorable for organic preservation, none documented
☐ Organic material recovered, unknown quality of preservation
☐ Organic material recovered, poor quality of preservation
☐ Organic material recovered, good quality of preservation

SITE TYPE:

Prehistoric

- ☐ Unknown function surface scatter less than 20m radius
☐ Open habitation, prehistoric
☐ Rockshelter/Cave
☐ Quarry
☐ Lithic Reduction
☐ Village (including historic Indian)
☐ Shell Midden
☐ Earthwork
☐ Petroglyph/Pictograph
☐ Burial Mound
☐ Cemetery
☐ Other specialized aboriginal site

- ☐ Isolated flute point locus
☐ Isolated find (diagnostic artifact)
☐ Paleontological site
☐ Path

Historic

- ☐ Historic and Prehistoric
☒ Domestic Site
☐ Military Site
☐ Industrial Site
☐ Shipwreck Site
☐ Commercial Site
☐ Religious Site
☐ Unknown/other/multiple types