

**APPENDIX D**

**INTERVIEW DOCUMENTATION**

**APPENDIX D**

**RECORDS OF INTERVIEWS**

## John Patrick

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**From:** David Faircloth [David.Faircloth@armstrong.edu]  
**Sent:** Friday, February 13, 2009 7:57 AM  
**To:** John Patrick  
**Subject:** RE: Proposed Dormitory on Compass Point Parking Lot

To the best of my knowledge, there are none. Also when I completed the interview you sent me, I answered as if it questions were about both sites, both the building site and the parking lot site.

Thanks,

DLF

>>> John Patrick <[John.Patrick@emc-eng.com](mailto:John.Patrick@emc-eng.com)> 2/12/2009 4:27 PM >>>

David,

To the best of your knowledge are there any asbestos-containing materials, lead-based paint (or other lead contamination), soil and/or groundwater contamination or solid waste (buried waste/landfills) at the proposed dormitory site on the parking lot north of Compass Point Drive?

Thank you,

A. John Patrick, P.G.  
Hydrogeologist - Environmental Department EMC Engineering Services, Inc.

23 E. Charlton Street  
Savannah, Georgia 31401  
PH: (912) 232-6533  
FX: (912) 233-4580  
Cell:(912) 663-6144  
[john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)

-----Original Message-----

**From:** David Faircloth [mailto:David.Faircloth@armstrong.edu]  
**Sent:** Thursday, February 12, 2009 2:04 PM  
**To:** John Patrick  
**Subject:** Re: Proposed Dormitory on Compass Point Parking Lot

John:

I hope this is what you need. Call me if it is not. 344-2685

DLF

>>> John Patrick <[John.Patrick@emc-eng.com](mailto:John.Patrick@emc-eng.com)> 2/12/2009 10:23 AM >>>

David,

We are working for University Housing Services, Inc. to prepare a ESA/GEPA for the planned expansion in the parking lot on Compass Point Drive. Do you have any reason to believe that there is any asbestos-containing materials, lead-based paint (or other lead contamination), soil or groundwater contamination or solid waste in the area of the expansion? Also would you please fill out the attached Interview Form and e-mail it back to me?

Thank you,

A. John Patrick, P.G.  
Hydrogeologist - Environmental Department EMC Engineering Services, Inc.

23 E. Charlton Street  
Savannah, Georgia 31401

PH: (912) 232-6533

FX: (912) 233-4580

Cell: (912) 663-6144

[john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)<[mailto:john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)>

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Date 2-12-09

**ASTM Interview**  
**Owner/Occupant/Key Site Manager/User**

Project Name AASU ESA/GEPA Expansion Compass Point Drive  
Property Description 11935 Abercorn Street, Savannah, GA  
Interviewer John Patrick  
Client UHSI  
EMC Project No. 08-3049.33

**Purpose**

EMC Engineering Services, Inc. is conducting a Phase I Environmental Site Assessment (ESA) per ASTM standard E 1527-05 at the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The objective of this interview / questionnaire is to obtain information indicating *recognized environmental conditions* in connection with the *property*. It is requested that this form be returned within 20 days of receipt.

**Descriptions**

RECs are defined as: "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws."

The *quality of answers* anticipated is defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge.

The *user* is defined as: "A user may include, without limitation, a purchaser of *property*, a potential tenant of *property*, an *owner* of *property*, a lender, or a property manager.

The *property* is defined as: "the real property that is the subject of this *environmental site assessment*. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

*Recorded Land Title Records* is defined as: "records of fee ownership, leases, land contracts, easements, liens, and other encumbrances on or of the *property* recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located.

*Hazardous substances* and *petroleum products* are defined in section 3 of ASTM standard E – 1527-05.

**User's Responsibilities**

**Section 5.2** – *Reasonably ascertainable recorded land title records* should be checked to identify *environmental liens* or *activity and use limitations*, if any, that are currently recorded against the *property*. Any *environmental liens* or *activity and use limitations* so identified shall be reported to the *environmental professional* conducting the Phase I Environmental Site Assessment.

**Section 5.3** – If the *user* is aware of any specialized knowledge or experience that is material to *recognized environmental conditions* in connection with the *property*, it is the *user's* responsibility to communicate

any information based on such specialized knowledge or experience to the *environmental professional*. The *user* should do so before the *environmental professional* performs a *site reconnaissance* of the *property*.

**Section 5.4** – In a transaction involving the purchase of a parcel of *commercial real estate*, if a *user* has *actual knowledge* that the purchase price of the *property* is significantly less than the purchase price of comparable properties, the *user* should try to identify an explanation for the lower price and to make a written record of such explanation.

**Section 5.5** – Either the *user* shall make known to the *environmental professional* the reason why the *user* wants to have the Phase I *Environmental Site Assessment* performed or, if the *user* does not identify the purpose of the Phase I *Environmental Site Assessment*, the *environmental professional* will assume the purpose is to qualify for the innocent landowner defense to CERCLA Liability, and will state this in the summary report.

**Section 9.8** – Prior to the *site visit*, the *property manager*, *key site manager* (if any is identified), and *user* (if different from the *property owner*) shall be asked if they know whether any of the following documents exists and, if so, whether copies can and will be provided to the *environmental professional* within reasonable time and cost constraints. Even partial information provided may be useful. If available, the *environmental professional* conducting the *site visit* will review these documents prior to or during the *site visit*.

- Previous Environmental Site Assessment reports prepared for the subject property.
- Environmental audit reports,
- Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits) in connection with the subject property,
- Registrations for underground and above-ground storage tanks,
- Material Safety Data Sheets for hazardous chemicals used on the subject property,
- Community right-to-know plan, if applicable,
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,
- Reports regarding hydrogeologic conditions on the property or surrounding area,
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property,
- Hazardous waste generator notices or reports, and
- Geotechnical studies.

**Section 9.9** – Prior to the *site visit*, the *property manager*, *key site manager* (if any is identified), and *user* (if different from the *property owner*) shall be asked if they know whether they know of: (1) any pending, threatened, or past litigation relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*; (2) any pending, threatened, or past administrative proceedings relevant to *hazardous substances* or *petroleum products* in, on, or from the *property*; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to *hazardous substances* or *petroleum products*.

The above descriptions, user's responsibilities, and question content were derived from ASTM E 1527-05

Date February 12, 2009

Time 12:13 P.M.

Person Interviewed:

Name David L. Faircloth  
Address 11935 Abercorn Street, Savannah, Georgia 31419  
Phone 912-344-2685

Relationship to Subject Site Director of Plant Operations for Armstrong Atlantic State University

Duration of Occupancy DPO for 16 years. AASU/Board of Regents has owned property since 1963

### **Interview Questions**

#### ***General Site Settings***

1. Are there any current uses of the property likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products in connection with the property? YES / NO (If yes, describe below)

To the best of my knowledge, no.

2. Are there any past uses of the property likely to have involved the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products? YES / NO (If yes, describe below)

To the best of my knowledge, no.

3. Are there any current uses of adjoining properties likely to indicate RECs in connection with the adjoining properties or the subject property? YES / NO (If yes, describe below)

To the best of my knowledge, no.

4. Are there any past uses of adjoining properties likely to indicate RECs in connection with the adjoining properties or the property? YES / NO (If yes, describe below)

To the best of my knowledge, no.

5. Are there any current or past uses in the surrounding area likely to indicate RECs in connection with the adjoining properties or the subject property? YES / NO (If yes, describe below)

To the best of my knowledge, no.

6. Do topographic conditions on the property or the area surrounding the property exist that may facilitate migration of hazardous substances or petroleum products? YES / NO (If yes, describe below)

To the best of my knowledge, no.

7. Generally describe the structures or other improvements on the property. (Number of buildings, number of stories each, approximate age of buildings, ancillary structures (if any), etc.

The only improvements to the property is a parking lot and storm water retention structure.

8. Generally describe any public thoroughfares adjoining the property, any roads, streets, and parking facilities on the property.

Property is bordered on the North by Compass Point Housing Complex and University Drive Parking Lot #1. Property is bordered on the East by Science Drive. Property is bordered on the South by Compass Point Drive. Property is bordered on the West by Roger Warlick Drive.

9. What is the source of potable water for the property?

City of Savannah domestic water system

10. What is the sewage disposal system for the property?

City of Savannah sanitary sewer system

#### ***Interior and Exterior Observations***

11. Are there any current uses likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products in connection with the property? YES / NO (If yes, describe below)

To the best of my knowledge, no.

12. Are there any past uses of the property likely to have involved the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products? YES / NO (If yes, describe below)

To the best of my knowledge, no.

13. Identify the present uses that use, treat, store, dispose of, or generate hazardous substances and petroleum products on the property.

To the best of my knowledge, none.



14. Identify or indicate approximate quantities involved, types of containers (if any) for any hazardous substances and petroleum products that are unidentified.

To the best of my knowledge, none.

15. Identify the past uses that use, treat, store, dispose of, or generate hazardous substances and petroleum products on the property.

To the best of my knowledge, none.

16. Identify any and all above ground storage tanks, or underground storage tanks or vent pipes, fill pipes or access ways indicating underground storage tanks in connection with the property. (Content, capacity, age, etc.)

To the best of my knowledge, none.

17. Identify any and all strong, pungent, or noxious odors in connection with the property.

None noted.

18. Describe any standing surface water. Describe any and all pools or sumps likely to be containing hazardous substances or petroleum products in connection with the property.

There is a parking lot storm water retention structure on the site but to the best of my knowledge it does not contain any hazardous substances or petroleum products.

19. Identify any and all drums ( $\approx 55$  gal) or containers ( $> 5$  gal), whether or not they are leaking, unless it is known that their contents are not hazardous substances or petroleum products.

To the best of my knowledge, none.

20. List hazardous substances and petroleum products containers (not necessarily in connection with identified uses) on the property and the approximate quantities involved, types and size of containers, and storage conditions.

To the best of my knowledge, none.

21. Describe open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products, the approximate quantities involved, the types and size of containers, and storage conditions.

To the best of my knowledge, none.

22. Describe any and all electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs. Fluorescent light ballasts likely to contain PCBs do not need to be noted.

To the best of my knowledge, none.

#### *Interior Observations*

23. Identify the means of heating and cooling the buildings on the property, including the fuel source for heating and cooling. (Heating oil, gas, electric, radiators from steam boiler fueled by gas, etc.)

To the best of my knowledge, no such equipment is present on the property.

24. Describe stains or corrosion on floors, walls, or ceilings, except for staining from water only.

To the best of my knowledge, none present.

25. Describe floor drains and sumps.

To the best of my knowledge, none present.

#### *Exterior Observations*

26. Describe any and all pits, ponds, or lagoons on the property, particularly if they have been used in connection with waste disposal or waste treatment in connection with the property.

A parking lot storm retention structure is present that serves the parking lot on the property.

27. Describe areas of stained soil or pavement in connection with the property.

To the best of my knowledge, none present.

28. Describe areas of stressed vegetation in connection with the property. (caused by something other than water)

To the best of my knowledge, none.

29. Describe areas that are apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting trash or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal in connection with the property.

To the best of my knowledge, none present.

30. Describe wastewater or other liquid (including storm water) or any discharge into a drain, ditch, or stream on or adjacent to the property.

Storm water is discharged into City of Savannah storm water system.

31. Describe all wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells) in connection with the property.

To the best of my knowledge, none present.

32. Describe indications of on-site septic systems or cesspools in connection with the property.

To the best of my knowledge, none present.

Notes:

Date 2-12-09

ASTM Interview  
General Interview

Project Name Proposed Dormitory  
Property Description AASU  
Interviewer J-L-Patrick  
Client UHS  
EMC Project No. 08-3049.31

Purpose & Descriptions

EMC Engineering Services, Inc. is performing a Phase I Environmental Site Assessment (ESA) per ASTM ASTM Standard E 1527-05 at the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The purpose of this interview is to obtain information that will help to identify the possibility of *recognized environmental conditions* in connection with the property.

RECs are defined as: "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws."

The quality of answers anticipated are defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge."

Date 2-12-09 Time 11:10

Person Interviewed:

Name Michael Medlin  
Address 3205 Century Fm wide Dr  
Phone \_\_\_\_\_

Relationship to Subject Site Student  
Duration of Occupancy 2 year

1. Are you aware of any environmental concerns (pollution, etc.), past or present, in connection with the subject property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Do you have any knowledge, past or present, of any unreported releases of hazardous substances or petroleum products in connection with the subject property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Do you have any knowledge of waste disposal activities, past or present, in connection with the subject property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Do you recall any emergency response activity, past or present, in connection with the subject property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Do you recall any significant soil removal activity, past or present, in connection with the subject property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Identify the source of potable water for the subject property, and any knowledge of public or private wells on the property or nearby properties.

Public  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Identify the sewage disposal system for the subject property and the age of the system.

Public  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Identify the means of heating/cooling the buildings on the subject property, including fuel source.

none  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Do you have any knowledge of any hazardous substances or petroleum products stored on the subject property or surrounding area properties? YES / NO (If yes, describe below)

Describe no  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature Melvin Medi

Date 2-12-08

## John Patrick

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**From:** David Faircloth [David.Faircloth@armstrong.edu]  
**Sent:** Friday, January 30, 2009 7:28 PM  
**To:** john\_patrick@emc-eng.com  
**Subject:** Re: Physical Plant Location

The old plant was located at the south end of Arts Drive in the building labeled Armstrong Annex.

The new plant ops is located at the rear of the Armstrong Center (previously the Publix shopping center)

>>> "John Patrick, PG" <john\_patrick@emc-eng.com> 01/28/09 6:36 PM >>>  
David,

In relation to the features shown on the campus map you sent me, where is the Physical Plant and the old plant operations yard?

Thank you,

A. John Patrick, P.G.

Hydrogeologist - Environmental Department

EMC Engineering Services, Inc.

23 E. Charlton Street

Savannah, Georgia 31401

PH: (912) 232-6533

FX: (912) 233-4580

Cell:(912) 663-6144

<[mailto:john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)> [john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)

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## John Patrick

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**From:** David Roberts [David.Roberts@armstrong.edu]  
**Sent:** Tuesday, January 20, 2009 8:39 AM  
**To:** David Faircloth; PG John Patrick  
**Subject:** Re: AASU ESA

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**Categories:** Red Category

I will be providing further information to DLF answers My responses will be in green

>>> David Faircloth 1/20/2009 8:12 AM >>>  
Answers in red

>>> "John Patrick, PG" <[john\\_patrick@emc-eng.com](mailto:john_patrick@emc-eng.com)> 1/19/2009 12:48 PM >>>  
Mr. Faircloth,

The regulatory search indicated there are no longer any Underground Storage Tanks at the University. Is that correct? This is correct. The only underground fuel tank on the campus was removed more than 10 years ago. **Closure reports are available from this activity the year was 1995**

It also indicated the University is a conditionally exempt small quantity generator of hazardous waste. Do you know where on campus that occurs? Hazardous waste that is generated and disposed of per regulations include fluorescent tubes, computer monitors, fluorescent ballast, periodic wastes coming out of Biology and Chemistry Departments, x-ray film and x-ray film developers coming out of Radiographic Science Department, used petroleum products coming out of Plant Operations mechanical repairs, and a few more sources that I cannot readily identify. I've copied David Roberts, our Environmental Safety Coordinator, I'm sure he can provide much more accurate information.

**Universal waste (storage are old plant operations yard) such as mercury containing lamps PCB ballast and mercury containing equipment are managed using a state agency contract. disposal is called for on a monthly basis**

**Hazardous waste from Chemistry (SC 2117) Biology(SC 1104) Art and Plant operations departments are handled through a licensed contractor and scheduled for removal on a as needed basis. A recent removal; from biology and Chemistry had less than 1000 grams of P waste.**

**Spill containment of oil based products are disposed in the same manner via an off campus transporter. Film processing is on a silver recovery system serviced every 8 weeks. locations fine Arts 211 and university hall 143.**

**Biological hazardous material is removed from the following areas of the campus Biology Chemistry, Dental Hygiene, Medical technology Physical Therapy Psychology and Athletic departments.**

**If there are further questions please contact me at 912 344 3132 or by return email.**

**Dave Roberts**

Thank you,

A. John Patrick, P.G.

Hydrogeologist - Environmental Department

EMC Engineering Services, Inc.



## **History of Armstrong**

Armstrong Junior College was formed in 1935 by the Aldermen of the City of Savannah and the campus consisted of a downtown mansion donated by Lucy Camp Armstrong Moltz and Lucy Armstrong Johnson. The College thrived at its downtown location and eventually occupied 8 additional buildings in the Forsyth Park and Monterey Square areas. In 1959, Armstrong College became a two-year unit of the University System of Georgia.

In 1962, the Mills B. Lane Foundation and Donald Livingston donated a new campus site of 250 acres on the south side of Savannah. Two years later, the Board of Regents conferred four-year status upon Armstrong College.

In 1966, classes began on the new campus and two years later Armstrong State College received accreditation as a senior institution by Southern Association of Colleges and Schools (SACS). The Campus consisted of Administration Building, Lane Library, Student Center (known today as CIS), Hawes Hall, Gamble Hall, Jenkins Hall, Gym (known today as A.R.C.), and Plant Operations.

In the late 60's and early 70's there was a building boom on campus. The Admin building was expanded, Plant Operations was expanded, Lane Library was expanded, Victor Hall was constructed, Solms Hall was constructed and Memorial College Center was constructed.

In the mid to late 70's, Fine Arts and Ashmore Hall were constructed.

There was no more construction on Armstrong's campus until the 1990's. Between 1995 and today the following buildings were constructed. Sports Center, University Hall, Science Center, Bookstore, Greenhouse, Compass Point, Public Safety, Fine Arts Annex and Student Recreation Center.

Also during the 1990's Armstrong developed a campus master plan and began renovating the 1960 era buildings. From 1995 to present, the following buildings have been renovated or are under renovation. Administration Building, Hawes Hall, Solms Hall, Victor Hall, Lane Library, and the Aquatics and Recreation Center.

Also during this period the following buildings received limited systems upgrades mostly related to HVAC and Life Safety. Gamble Hall, CIS, MCC, Fine Arts, Ashmore Hall, and Jenkins Hall

Date 1-16-09

**ASTM Interview**

**General Interview**

Project Name AASU ESA/GEPA  
Property Description 11935 ABERCORN ST SAVANNAH, GA  
Interviewer DAVID KOSCIUK  
Client UHSI  
EMC Project No. 08-3049.30

**Purpose & Descriptions**

EMC Engineering Services, Inc. is performing a Phase I Environmental Site Assessment (ESA) per ASTM ASTM Standard E 1527-05 at the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The purpose of this interview is to obtain information that will help to identify the possibility of *recognized environmental conditions* in connection with the property.

RECs are defined as: "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws."

The quality of answers anticipated are defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge."

Date 1-16-09 Time 12:30

Person Interviewed:  
Name ASHLEY GRIFFIN  
Address \_\_\_\_\_  
Phone \_\_\_\_\_

Relationship to Subject Site RESIDENT OF UNIVERSITY TERRACE  
Duration of Occupancy AUGUST 2008

1. Are you aware of any environmental concerns (pollution, etc.), past or present, in connection with the subject property or surrounding properties? YES / (NO) (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Do you have any knowledge, past or present, of any unreported releases of hazardous substances or petroleum products in connection with the subject property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Do you have any knowledge of waste disposal activities, past or present, in connection with the subject property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Do you recall any emergency response activity, past or present, in connection with the subject property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Do you recall any significant soil removal activity, past or present, in connection with the subject property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Identify the source of potable water for the subject property, and any knowledge of public or private wells on the property or nearby properties.

DON'T KNOW  
\_\_\_\_\_  
\_\_\_\_\_

7. Identify the sewage disposal system for the subject property and the age of the system.

DON'T KNOW  
\_\_\_\_\_  
\_\_\_\_\_

8. Identify the means of heating/cooling the buildings on the subject property, including fuel source.

DON'T KNOW  
\_\_\_\_\_  
\_\_\_\_\_

9. Do you have any knowledge of any hazardous substances or petroleum products stored on the subject property or surrounding area properties? YES ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature

*[Handwritten Signature]*

Date

*1/16/09*

Date 1-15-09

**ASTM Interview**  
**Local Government Officials**

Project Name AASU ESA/GEPA (EXPANSION)  
Property Description 11935 ABERCORN ST SAVANNAH, GA  
Interviewer DAVID KOSCIUK  
Client UHST  
EMC Project No. 08-3049.30

**Purpose**

EMC Engineering Services, Inc is conducting a Phase I Environmental Site Assessment (ESA) per ASTM standard E 1527-05 in connection with the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The objective of this interview is to obtain information indicating *recognized environmental conditions* in connection with the *property*.

**Descriptions**

RECs are defined as: "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws."

The *property* is defined as: "the real property that is the subject of this *environmental site assessment*. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

The *local government official* is defined as: "those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

The "quality of answers" anticipated is defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge.

Date 1-15-09 Time 9:45

Person Interviewed:  
Name CAPT. PAUL PHILLIPS  
Address 931 MOHAWK AVE SAVANNAH, GA  
Phone 912-921-2113

Subject Site (*property*) 11935 ABERCORN ST  
Local Government Agency CITY OF SAVANNAH FIRE DEPT - STATION 11  
Duration of Occupancy 24 YEARS

1. Are you aware of any environmental concerns (pollution, etc.), past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Do you have any knowledge, past or present, of any unreported releases of hazardous substances or petroleum products in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe GAS STATION @ MOHAWK + MIDDLEGROUND  
CHU'S BP - RESPOND TO SPILL + CLEAN-UP  
\_\_\_\_\_  
\_\_\_\_\_

3. Do you have any knowledge of waste disposal activities, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Do you recall any emergency response activity, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
SEE #2  
\_\_\_\_\_  
\_\_\_\_\_

5. Do you recall any significant soil removal activity, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature

Title

TELEPHONE INTERVIEW  
Date CONDUCTED 1-15-09 @ 9:45



**EMC ENGINEERING  
SERVICES, INC.**  
23 East Charlton Street (31401)  
P.O. Box 8101  
Savannah, Georgia 31412

Phone (912) 232-8833  
Fax (912) 232-2820

E-Mail - savannah@emc-eng.com

912-233-4580

Environmental

Marine

Civil

Survey

## FAX TRANSMITTAL SHEET

THIS TRANSMISSION CONTAINS 3 PAGES INCLUDING THIS COVER SHEET

From ~~TO:~~ MS. MICHELLE CORTES To DAVID KOSCIUK  
FAX: 912-353-3234 DATE: 1-16-09  
EMC PROJECT NO: 08-3049.30 RE: AASU ESA/GEPA

### IMPORTANT NOTICE

The information contained in this facsimile message is intended only for the use of the addressee listed above. If you are neither the intended recipient nor the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any disclosure, copying or distribution of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone to arrange return of the document to us.

### NOTE:

- ☐ URGENT - Deliver Immediately
- ☐ Please Call Upon Receipt
- ☐ Attached is the Information We Discussed

- ☒ Please Review and Comment
- ☐ Original to Follow Via Mail
- ☐ Other

THANK YOU FOR YOUR TIME & KNOWLEDGE.

*[Handwritten Signature]*



• Savannah (Corporate) • Albany • Augusta • Atlanta  
• Brunswick • Columbus • Statesboro • Valdosta

Date 1-15-09

**ASTM Interview**  
**Local Government Officials**

Project Name AASU ESA/GEPA (EXPANSION)  
Property Description 11935 ABERCORN ST SAVANNAH, GA  
Interviewer DAVID KOSCIUK  
Client VHSE  
EMC Project No. 08-3049.30

**Purpose**

EMC Engineering Services, Inc is conducting a Phase I Environmental Site Assessment (ESA) per ASTM standard E 1527-05 in connection with the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The objective of this interview is to obtain information indicating *recognized environmental conditions* in connection with the *property*.

**Descriptions**

RECs are defined as: "the presence or likely presence of any *hazardous substances or petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances or petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances or petroleum products* even under conditions in compliance with laws."

The *property* is defined as: "the real property that is the subject of this *environmental site assessment*. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

The *local government official* is defined as: "those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

The "quality of answers" anticipated is defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge.

Date \_\_\_\_\_ Time \_\_\_\_\_

Person Interviewed:  
Name MS. MICHELLE CORTES  
Address 6555 ABERCORN ST SAVANNAH, GA  
Phone 912-353-3285 Fax: 912-353-3234

Subject Site (property) ARMSTRONG ATLANTIC STATE UNIVERSITY  
Local Government Agency GA EPD - SAVANNAH OFFICE  
Duration of Occupancy \_\_\_\_\_



1. Are you aware of any environmental concerns (pollution, etc.), past or present, in connection with the property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Do you have any knowledge, past or present, of any unreported releases of hazardous substances or petroleum products in connection with the property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3. Do you have any knowledge of waste disposal activities, past or present, in connection with the property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

4. Do you recall any emergency response activity, past or present, in connection with the property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5. Do you recall any significant soil removal activity, past or present, in connection with the property or surrounding properties? YES / ☒ NO (If yes, describe below)

Describe \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature Minelle C. Coe

Title EES TL

Date 01/22/09

**Coastal Health District 9-1****Division of Public Health**

Chatham County Health Department  
P.O. Box 14257  
Savannah, Georgia 31416-1257  
(912) 356-2108  
(912) 356-2868 - fax

Effingham County Health Department  
P.O. Box 350  
Springfield, Georgia 31329  
(912) 754-6484  
(912) 754-7623 - fax



Your Union For Health Care

**FAX SHEET**

TIME: \_\_\_\_\_

DATE: 1-22-09TO: David KosciukOF: EMC EngineeringTELEPHONE NO.: \_\_\_\_\_ FAX: 232-2920233-4580

THE FOLLOWING IS BEING FAX'D TO YOU:

Envir Assessment11935 Abercorn St.

YOU ARE RECEIVING THIS FROM:

TITLE: Chris Rustin EMAIL: \_\_\_\_\_Director  
Division of Environmental Health420 Mall Blvd., Suite A/P. O. Box 14257, Savannah, GA 31416912-356-2160/FAX: 912-356-2969

REMARKS:

TOTAL PAGES SENT: \_\_\_\_\_ EXCLUDING THIS COVER SHEET

Date 1-22-09

ASTM Interview  
Local Government Officials

Project Name AASU ESA/GEP  
Property Description 11935 ABERCORN ST SAVANNAH, GA 31419  
Interviewer DAVID KOSCIUK  
Client UHST  
EMC Project No. 08-3049-30

Purpose

EMC Engineering Services, Inc is conducting a Phase I Environmental Site Assessment (ESA) per ASTM standard E 1527-05 in connection with the above described *property* for the Client. The purpose of the ESA is to identify Recognized Environmental Conditions (RECs) at the site and/or surrounding areas. The objective of this interview is to obtain information indicating *recognized environmental conditions* in connection with the *property*.

Descriptions

RECs are defined as: "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws."

The *property* is defined as: "the real property that is the subject of this *environmental site assessment*. Real property includes buildings and other fixtures and improvements located on the property and affixed to the land.

The *local government official* is defined as: "those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

The "quality of answers" anticipated is defined as: "The person(s) interviewed should be asked to be as specific as reasonably feasible in answering questions. The person(s) interviewed should be asked to answer in good faith and to the extent of their knowledge.

Date \_\_\_\_\_

Time \_\_\_\_\_

Person Interviewed:

Name MR. CHRIS RUSTIN  
Address 2011 EISENHOWER DR SAVANNAH GA 31406  
Phone 912-356-2441 Fax 912-356-2409

Subject Site (property) ARMSTRONG ATLANTIC STATE UNIVERSITY  
Local Government Agency CHADAM COUNTY HEALTH DEPT  
Duration of Occupancy \_\_\_\_\_

1. Are you aware of any environmental concerns (pollution, etc.), past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe no

2. Do you have any knowledge, past or present, of any unreported releases of hazardous substances or petroleum products in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe no

3. Do you have any knowledge of waste disposal activities, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe no

4. Do you recall any emergency response activity, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe no

5. Do you recall any significant soil removal activity, past or present, in connection with the property or surrounding properties? YES / NO (If yes, describe below)

Describe no

Signature R. O. [Signature], M.S., R.E.H.S.  
Title Director of Environmental Health  
Date 1-22-09

**APPENDIX E**

**ARCHAEOLOGICAL REPORT**



# The University of Georgia

*Franklin College of Arts and Sciences  
Department of Anthropology*

*Georgia Archaeological Site File*

## FACSIMILE TRANSMISSION COVER SHEET

Date: 1/9/09

To: A. John Petrick

Firm/Fax #: EMC

Re: Armstrong Atlantic State Univ.

Sender: Tiganash Lamei

You should receive 4 pages, including this cover sheet. If you do not receive all of the pages, please call 706.542.8737. Thank you. G.A.S.F.

Have a nice day! ☺

Georgia Archaeological Site File  
UGA Riverbend Research Labs  
110 Riverbend Road  
Athens, GA 30602-4702  
(office) 706 542-8737  
(fax) 706 542-8920  
January 9, 2009

EMC Engineering Services Inc.  
23 E. Charlton Street  
Savannah, Georgia 31401

A. John Patrick:

As per your request, a search of the Site File records was completed in order to determine if there are any previously recorded archaeological sites within a mile radius of the following project area:

**PROJECT NAME –Armstrong Atlantic State University**  
**TOPOGRAPHIC QUADRANGLE – Burroughs**  
**COUNTY - Chatham**

There are 6 sites located within a 1 mile radius of your project area. There are 5 reports (827, 2071, 2539, 3069, 4388) within this radius. There are 2 sites within a 1/2 mile radius of your project area. There are 3 reports (827, 2071, 2539) within this radius.

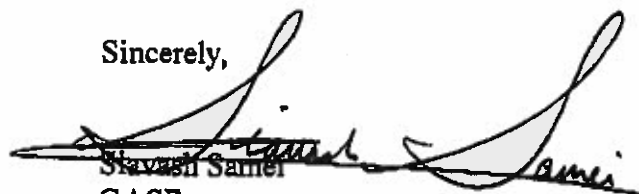
Copies of report abstracts can be accessed through our online documents database at <http://shapiro.anthro.uga.edu/GASF/index.html>.

Although research conducted at the Georgia Archaeological Site File is useful for gaining a preliminary understanding of the distribution of archaeological resources in a given area, there are important limits to this data that must be understood to evaluate the data properly. First, the presence of a few sites in the area of interest does not by any means imply that the location of *all* sites in the area are known. In most cases the data are quite spotty. Second, archaeological salvage and mitigation work on *known* sites may ultimately turn out to be less expensive than the mitigation of *unknown* sites discovered later in a project. Human settlement has traditionally been centered upon well-drained soils on level ground with a nearby fresh water supply. While areas meeting these obvious criteria are certainly more likely locations for archaeological sites than other locations within a project area, there *may* be sites located anywhere within an area. **In light of these factors, it is often prudent to seek the consultation of a professional archaeologist to assess the possible impact of a proposed project on its cultural resources.**

Please be aware that there could possibly be sites that have not been detected in these areas. The limitations of a site search done at the Georgia Archaeological Site File are more completely explained in our Paragraph of Disclaimer. Please know that this search does not fulfill the requirements of the Section 106 laws in the National Historic Preservation Act. If you have questions on the Section 106 law, please contact the Environmental Review Coordinator at the Georgia State Historic Preservation office at (404) 651-6624. Also, if you have any questions or need additional information from the Georgia Archaeological Site Files, do not hesitate to call us at (706) 542-8737.

**PLEASE NOTE THAT SITE FORMS, PROJECT REPORTS, THE SITE FILE MAPS  
OR ANY OTHER INFORMATION REGARDING SITE LOCATIONS ARE NOT FOR  
PUBLIC RELEASE.**

Sincerely,

A handwritten signature in black ink, appearing to read "Slavash Samel", is written over the printed name. The signature is fluid and cursive, with a large loop at the end.

Slavash Samel

GASF



## John Patrick

---

**From:** Georgia Archaeological Site File [gasf@uga.edu]  
**Sent:** Tuesday, January 13, 2009 3:55 PM  
**To:** john\_patrick@emc-eng.com  
**Subject:** Armstrong Atlantic State University

Dear John Patrick,

As per your request, I am sending you further information on the survey reports found within your project's Area of Potential Effect:

REPORT: 827

TITLE: Cultural Resources Survey of Hoover Creek Plantation, Chatham County

AUTHOR: Smith, Charlotte A.

YEAR OF PUBLICATION: 1987

COUNTY: Chatham

REPORT: 2071

TITLE: Archaeological Survey for Five Intersection Improvements Along Abercorn Street (SR204)

Chatham County Georgia

AUTHOR: Price, George D.

YEAR OF PUBLICATION: 2001

COUNTY: Chatham

REPORT: 2539

TITLE: Archaeological Resources Survey of the Abercorn Street (SR 204) Widening Corridor  
Chatham County, Georgia

AUTHOR: Reynolds, Michael W.

YEAR OF PUBLICATION: 2003

COUNTY: Chatham

REPORT: 4388

TITLE: An Intensive Archaeological Assessment and Re-evaluation of the McNish Site, \*\*\*\*\*;  
Hunter Army Airfield, Chatham County, Georgia

AUTHOR: O'Brian, Colin E.

YEAR OF PUBLICATION: 2008

COUNTY: Chatham

I would like to also remind you that any project involving the assessment of cultural remains, by state law, must be directed by a cultural resource management (CRM) firm, approved by the state. We will be more than happy to provide you with such a list.

Please let me know if you have any other questions.

Sincerely yours,

Siavash Samei  
GASF

### **Cultural Resources Survey of Hoover Creek Plantation, Chatham County**

An intensive, cultural resources survey was conducted of the proposed Hoover Creek Plantation development located adjacent to Armstrong State College in west central Chatham County, Georgia, southwest of Savannah. The development is planned on 14 hectares (34.62 acres) of marsh and terrace east of Hoover Creek, a tributary of the Little Ogeechee River, northeast of Steadman Island. one archeological site and some modern historic disturbance were noted. 9Ch(SAS)7 is a prehistoric ceramic site dating to the Woodland period that was defined by 5 positive shovel tests yielding a total of 9 sherds. The site is recommended ineligible for nomination to the National Register of Historic Places because of low artifact density. It is the recommendation of the principal investigator that the development can proceed without adverse impact to significant cultural resources.

[\[Return to Search\]](#)

### **Archaeological Survey for Five Intersection Improvements Along Abercorn Street (SR204) Chatham County Georgia**

During October 2000, TRC Garrow Associates, Inc. (TRC), undertook a Phase I archaeological survey for EMC Engineering Services, Inc., for proposed improvements at five intersections along Abercorn Street (SR 204) in Savannah, Chatham County, Georgia. The project area includes intersections along Abercorn Street at Apache Avenue, Largo Drive, Tibet Avenue, Mall Boulevard, and DeRenne Avenue. The rights-of-way at four of the five locations had been dramatically altered by commercial and residential development and had no potential for containing intact archaeological sites. However, one small archaeological site (9CH949) was located within the proposed right-of-way in the southeastern quadrant of the intersection of Abercorn Street and Tibet Avenue. Site 9CH949 appears to have been a domestic residence, occupied in the early nineteenth century and possibly as late as the early twentieth century. Previous construction has destroyed the northern section of the site, and archaeological materials in the remaining portion of the site are mixed. TRC concludes that the site has no further research potential and recommends 9CH949 as not eligible for listing on the National Register of Historic Places.

[\[Return to Search\]](#)

## Archaeological Resources Survey of the Abercorn Street (SR 204) Widening Corridor Chatham County, Georgia

From 23 to 24 July 2001, Brockington and Associates, Inc., conducted an intensive archaeological survey of the Abercorn Street (SR 204) widening corridor in Chatham County, Georgia (Project NHS-002-00 [922], P.I. No. 0002922, HP021219-002), through Hussey, Gay, Bell, and DeYoung Environmental, Inc., for the Georgia Department of Transportation (GDOT). The project was conducted in compliance with Section 106 of the National Historic Preservation Act, and 36 CFR Part 800, by personnel qualified under 36 CFR Part 61. A historic resources survey was completed concurrently with the archaeology survey. The results of the historic resources survey are provided in a separate report (Beaty and Butler 2001). The Abercorn Street (SR 204) project corridor is located in Savannah, Georgia, 0.8 km (0.5 mi) southwest of Hunter Army Airfield (Figure 1). The survey corridor begins at Rio Road and extends west 3.3 km (2.1 mi) to Deerfield Road. It should also be noted that a portion of the present corridor was previously surveyed in 1997 by Brockington and Associates, Inc., for the proposed Middleground Road widening project (Jordan 1997). The previously surveyed area begins 250 meters (820 ft) west of Mohawk Street and extends west 1.3 km (0.85 mi). The previously surveyed section terminates between Middleground Road and Rio Road. For this project the Area of Potential Effect (APE) includes both existing and required right-of-ways. The existing right-of-way extends approximately 3.6 meters (12 ft) from the edge of existing pavement on both sides of Abercorn Street. The required right-of-way will extend 7 meters (24 ft) from the edge of existing pavement on both sides of the road. The construction zone and area of new pavement will extend 3.3 meters (11 ft) from the edge of existing pavement on both sides of the road. During field survey the potential for visual effects from construction were considered. Background research revealed four previously recorded archaeological sites within 0.8 km (0.5 mi) of the project corridor. These sites are 9CH717, 9CH718, 9CH809, and 9CH869. Sites 9CH717 and 9CH718 were recommended eligible for the NRHP; however, they are located well beyond the APE for this project. Site 9CH809 was recommended not eligible for the NRHP and is located beyond the project APE. Although 9CH869 is located only 11 meters (36 ft) from the edge of existing pavement of Abercorn Street and 4 meters (13 ft) beyond the project required right-of-way, it is heavily disturbed and was recommended not eligible for the NRHP. In addition, Brockington and Associates, Inc., has determined that the man-made earthen berm located 1 meter (3 ft) west of 9CH869 is modern. Background research and construction material found within the berm during past archaeological investigations have ruled out the possibility that it is a Civil War or Revolutionary War earthwork. No previously unrecorded archaeological sites were found during the present survey. No additional work is recommended at site 9CH869 or the earthen berm. Cultural resource clearance is recommended for the Abercorn Street widening corridor.

[\[Return to Search\]](#)

**APPENDIX F**

**LIST OF SOURCES/REFERENCES**

## **LIST OF SOURCES/REFERENCES**

To evaluate the regulatory status and develop a historical database, documents were researched or personnel were interviewed from the following sources:

Armstrong Atlantic State University Campus Map

Cortes, Michelle, Environmental Protection Division Emergency Response Unit

EMC Engineering Services; 2008, Plans for Existing and Proposed Conditions of Proposed Dormitory and Parking Lot

Environmental Data Resources, Inc.; 2009, Armstrong Atlantic State University, City Directory Abstract, Environmental Lien Report, Historic Aerial Photographs, Historic Topographic Maps, NEPA Check, Radius Map and Sanborn Map Report

Environmental Protection Division; 1996, County Maps with Old Landfill Sites, Chatham County

Faircloth, David; AASU Director of Plant Operations

Georgia Department of Natural Resources; 1976, Physiographic Map of Georgia

Georgia Geologic Survey; 1988, A Revision of the Lithostratigraphic Units of the Coastal Plain of Georgia, The Miocene Through Holocene, Bulletin 104

Georgia Geologic Survey; 1990, Geology and Ground-Water Resources of the Coastal Area of Georgia, Bulletin 113

Google Earth, 2008

Griffin, Ashley; Resident of AASU University Terrace Apartments, 12220 Apache Ave., Savannah, Georgia

<http://www.msc.fema.gov/>, National Flood Insurance Program

Justice, Hugh; AASU Plant Operator

Kern-Coleman & Co., LLC, 2008; Phase I Environmental Site Assessment of Tract of Land ± 11.05 Acres, Pin # 2-0781 -02-002, 000 Woodley Road

Medlin, Michael, AASU Student

Phillips, Paul; Captain of the Savannah Fire Department

Resource + Land, 2009; Wetland Assessment of Proposed Dormitory and Parking Lot Sites

Roberts, David; AASU Environmental Safety Coordinator

Rowse, Bill; Branch Manager, EMC Engineering Services, Inc., Atlanta, Georgia

Rustin, Chris; Director of Environmental Health, Chatham County Health Department

Savannah Area GIS (SAGIS); 2009

S & ME; 2000, Phase I Environmental Site Assessment, Triangle Property, Savannah, Georgia

S & ME, 2004; GEPA Survey, Proposed Parking Lot, Armstrong Atlantic State University

Tharpe, Rob, President, University Housing Services, Inc.

TOPO!®; 2002, National Geographic USGS 7.5" Quadrangle, Burroughs, GA, 1988

University of Georgia Archeological Site File; 2009

U.S. Department of Agriculture; 1974, Soil Survey of Bryan and Chatham Counties, Georgia

U.S. Geologic Survey; 1983, Georgia Geologic Survey Publication CD-1

## **APPENDIX G**

### **RESUMES OF ENVIRONMENTAL PROFESSIONALS & PROFESSIONAL CERTIFICATIONS**





- **TITLE**  
Hydrogeologist
- **PROJECT RESPONSIBILITY**  
Environmental Sampling & Monitoring
- **ACADEMICS**  
BS, Geology/Western Washington University, 1978  
Graduate work toward (MS, Hydrology), University of Idaho, 1990
- **PROFESSIONAL REGISTRATION**  
GA; #0969
- **CERTIFICATION**  
OSHA HAZWOPPER
- **EXPERIENCE**  
Since joining EMC in 1992, Mr. Patrick's responsibilities have included preparing studies and plans for Solid Waste Disposal Facilities, Underground Fuel Storage Facilities, Hazardous Site Inventory Facilities, Surface Mining Sites, Storm Water Control at Industrial Sites, Spill Control at Oil Storage Facilities and ESA/GEPA reports.

He has extensive geologic and hydrogeologic experience with prime contractors for the Department of Energy's proposed nuclear waste repository, environmental consultants, mineral exploration companies, and construction inspection and QA/QC experience

**RELEVANT PROJECTS INCLUDE:**

- **Industrial Storm Water:** Industrial Storm Water Pollution Prevention Plans (SWP3) for millworks, scrap metal yard, inorganic pigment plant, and seafood processing facility
- **Oil Storage Facilities:** Spill Prevention Control and Countermeasures Plan (SPCC) for seafood processing facility
- **Hazardous Site Response:** Release Notification Reports and Perspective Purchaser Corrective Action Plans; Voluntary Site Clean-Up Plans and Health and Safety Plans
- **USCOE:** Sediment Sampling Plans, Investigations, and Reports for harbor dredging
- **Solid Waste Disposal Facilities:** Site Acceptability Studies, Water Quality and Methane Monitoring Plans for four industrial solid waste disposal facilities; Major Modifications to expand landfill capacity, Minor Modifications for groundwater monitoring and methane remediation. Assessment of Corrective Measures for groundwater contamination. Water Quality and Methane Monitoring. Statistical Evaluations
- **Environmental Site Assessments/GEPA:** Phase I and II Environmental Site Assessments for private and municipal clients and GEPA reports for BOR
- **Surface Mining:** Surface mining permits for sand and gravel mines
- **Underground Fuel Storage Tanks:** Corrective Action Plans and GUST Reimbursement Requests for UST releases
- **Groundwater Resources:** Non-potable irrigation water supply wells and hydrogeologic evaluations of potable water supply wells
- **Industrial Waste Water Sludge:** Prepare Sampling Plans in accordance with EPA SW-846

# Western Washington University



## College of Arts and Sciences

The board of trustees of the Western Washington University  
on recommendation of the faculty and by virtue of the  
authority vested in it by law has conferred upon

**Alvin John Patrick**

The Degree of

**Bachelor of Science**

Given at Bellingham, in the State of Washington, this seventeenth  
day of March, nineteen hundred seventy-eight

*James W. Davis*

Dean of the College of Arts and Sciences

*Paul H. Thompson*

President of the College

*Paul B. Hansen*

Chairman of the Board of Trustees



EMC ENGINEERING  
SERVICES, INC.  
Post Office Box 8101  
23 East Charlton Street  
Savannah, Georgia 31412  
Phone: (912) 232-6533  
Fax: (912) 232-2920

QUALIFICATIONS OF ENVIRONMENTAL  
PROFESSIONAL

State of Georgia

THIS IS TO CERTIFY THAT

Alvin John Patrick

has been approved and certified to legally practice geology  
with certification number

969

GEORGIA STATE BOARD OF REGISTRATION FOR  
PROFESSIONAL GEOLOGISTS



February 1, 1993  
DATE

Thomas Crawford William L. Muller  
CHAIRMAN JOINT SECRETARY



EMC ENGINEERING  
SERVICES, INC.  
Post Office Box 8101  
23 East Charlton Street  
Savannah, Georgia 31412  
Phone: (912) 232-6533  
Fax: (912) 232-2920

QUALIFICATIONS OF ENVIRONMENTAL  
PROFESSIONAL

PROJECT:07-5054

**STATE OF GEORGIA**  
**KAREN HANDEL, Secretary of State**

State Board of Registration for Professional Geologists  
Registered Professional Geologist  
LICENSE NO. PG000969

Alvin John Patrick  
298 Hager Lane  
Midway GA 31320  
EXPIRATION DATE - 12/31/2009  
Active



EMC ENGINEERING  
SERVICES, INC.  
Post Office Box 8101  
23 East Charlton Street  
Savannah, Georgia 31412  
Phone: (912) 232-6533  
Fax: (912) 232-2920

**QUALIFICATIONS OF ENVIRONMENTAL  
PROFESSIONAL**

PROJECT:07-5054



➤ **TITLE**

Environmental Technician II ; AHERA Building Inspector

➤ **CERTIFICATIONS**

Asbestos Inspector; #27120-22574; Medical University of South Carolina/Charleston, SC; 2004  
Asbestos Contractor/Supervisor; #9580; Environmental Safety & Health Institute/Jacksonville, FL; 2004

Air Sampler; #AS-00084; SCDHEC, 2004

Field Sampling Strategy; #05-118; AAA Environmental/Spartanburg, SC; 2001

NIOSH 582: Sampling and Evaluating Airborne Asbestos Dust; #04-141; AAA  
Environmental/Spartanburg, SC; 2001

OSHA HAZWOPER (29 CFR 1910.120); 2005

Introduction to CADD; Savannah Technical College; 2005

Lead Inspector : EPA (Target Housing and Child-Occupied Facilities); #1696; The Environmental  
Institute/Marietta, GA; 2006

➤ **EXPERIENCE**

Since joining EMC in 2004, Mr. Kosciuk has assisted with several Phase I Environmental Site Assessments and Corrective Action Plan (CAP) preparations and implementations. He has performed monitoring well installations and abandonments, conducted groundwater and soil sampling and supervised underground storage tank closures. He has conducted methane gas monitoring, piezometer and staff gauge measurements, and facility inspections for asbestos containing materials (ACM) and Lead-Based Paint (LBP). He has assisted in preparing numerous Phase I ESA and GEPA reports. Mr. Kosciuk has also assisted in geotechnical projects (sampling and laboratory analysis).

Prior to joining EMC, Mr. Kosciuk worked as an Industrial Hygienist Technician. His primary responsibilities included: asbestos inspections and sampling (Air and Bulk), lead based paint inspections and sampling (Bulk, Air and XRF Spectrum Analyzer), and OSHA Compliance Monitoring. He was also responsible for daily reports, daily site logs, and data entry.

**PROJECTS INCLUDE:**

- ♦ Triton 605 CAP B – Well installation and groundwater sampling, supervision of enhanced fluid recovery events
- ♦ Triton 613 CAP B – Well installation and groundwater sampling, supervision of enhanced fluid recovery events
- ♦ Triton 601 CAP A - Well installation, soil and groundwater sampling
- ♦ Martha's Dry Cleaners: Environmental Remediation – Well installation, soil and groundwater sampling, supervision of enhanced fluid recovery events
- ♦ E.G. Miles Parkway: Phase I ESA and ACM Survey – Site reconnaissance and assessment, report preparation and asbestos inspection
- ♦ Goodyear School: Environmental Remediation – Well installation, soil and groundwater sampling, supervision of remediation work
- ♦ Webb's Fina CAP A – Well installation, soil and groundwater sampling
- ♦ Branch's Bait and Tackle CAP A - Well installation and groundwater sampling
- ♦ St. Elizabeth's UST Closure - Well installation, soil and groundwater sampling, supervision of tank closure
- ♦ Sea Island ACM Survey – Asbestos inspection and report preparation





- ♦ *Darien United Methodist Church ACM Survey - Asbestos inspection and report preparation*
- ♦ *TE Consolidated - Monthly piezometer and staff gauge measurements, groundwater parameter monitoring and production well monitoring*
- ♦ *Maxim Crane CAP B - Monitoring well installation and abandonment, groundwater sampling, and supervision of enhanced fluid recovery events*
- ♦ *Salvation Army - Quarterly methane gas monitoring and report preparation*
- ♦ *Clifton Landfill - Quarterly methane gas monitoring, groundwater parameter monitoring and groundwater sampling*
- ♦ *City of Woodbine Phase II Environmental Site Assessment - Monitoring well abandonment, soil and groundwater sampling, supervision of soil remediation work*
- ♦ *Glynn Academy ACM Survey - Asbestos inspection, report preparation and scheduling of abatement activities*
- ♦ *Air Liquide ACM Survey (St. Mary's, GA) - Asbestos inspection and report preparation*
- ♦ *Kenneth Chandler Property Combined ESA and GEPA (Statesboro, GA) - Site reconnaissance and assessment, report preparation*
- ♦ *Georgia Southern University (Statesboro, GA) - Asbestos and Lead-Based Paint Inspection, report preparation*
- ♦ *Campus Courtyard ESA/GEPA at Georgia Southern University.*

# The Environmental Institute

## David Kosciuk

Social Security Number - 258-63-8242  
EMC Engineering - 23 East Charlton Street - Savannah, Georgia 31401

*Has completed coursework and satisfactorily passed  
an examination that meets all criteria required for  
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation  
and NESHAP Regulations Training*

### *Asbestos in Buildings: Inspector Refresher*

August 29, 2008

Course Date

10897

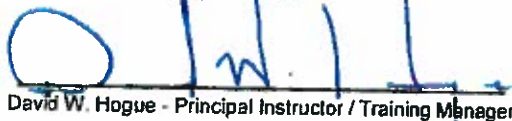
Certificate Number

August 29, 2008

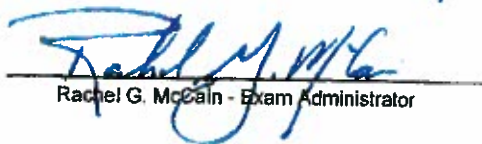
Examination Date

August 28, 2009

Expiration Date



David W. Hogue - Principal Instructor / Training Manager



Rachel G. McCain - Exam Administrator



(Florida Provider Registration Number 0001342 - Course #0002805)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - [www.tei-atl.com](http://www.tei-atl.com)

# The Environmental Institute

## David Kosciuk

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EMC Engineering - 23 East Charleston Street - Savannah, Georgia 31401

*Has completed coursework and satisfactorily passed the hands-on skills assessment and an examination that meets training criteria in accordance with requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities as regulated by Georgia DNR/EPD Chapter 391-3-24 and U. S. EPA TSCA 40 CFR Part 745 for the initial course titled*

**Lead Inspector: EPA**  
*(Target Housing & Child-Occupied Facilities)*

April 3-5, 2006

Course Date

1696

Certificate Number

April 5, 2006

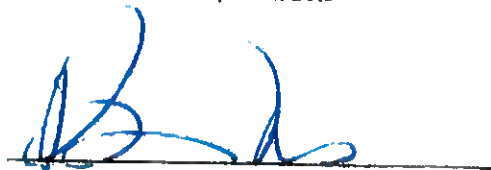
Examination Date

October 5, 2006

Interim Expiration Date

April 4, 2009

Expiration Date



Bonnie B. Maurres - Principal Instructor



David W. Hogue - Training Manager

TEI - 1300 Williams Drive, Suite E - Marietta, Georgia 30066 - (770) 427-3600 - [www.tei-atl.com](http://www.tei-atl.com)

(State of Georgia Accredited - Certification No. 20-0799-0061 - January 15, 1997)



## **PART II: GEORGIA ENVIRONMENTAL POLICY ACT EVALUATION**

**INITIAL GEPA EVALUATION FORM**

Project No.: EMC Project Number: 08-3049

Project Name.: New Dormitory and Parking Lot

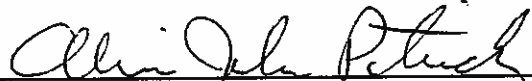
Institution: Armstrong Atlantic State University

Date of Assessment: February 13, 2009

Brief Project Description: AASU proposes to construct a 569 bed campus dormitory and a 600 space parking lot. No environmental issues are anticipated for this project.

*(Sign one statement. Print or type name, organization, and title below signature.)*

Having reviewed this proposed project and the Environmental Checklist, there are no significant adverse environmental effects resulting from this project.

  
\_\_\_\_\_  
Alvin John Patrick, Hydrologist  
EMC Engineering Services, Inc.

Or

Having reviewed this proposed project and the Environmental Checklist, there may be significant adverse environmental effects resulting from this project. These potential adverse environmental effects are referenced on the Checklist and are further described by the attached narrative.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ENVIRONMENTAL CHECK LIST  
GEORGIA ENVIRONMENTAL POLICY ACT**

GEORGIA AREA/CATEGORY	IS AREA AFFECTED?			IF AFFECTED, HOW SEVERLY?			
	NO	YES	UNKNOWN	MINOR	MEDIAN	MAJOR	UNKNOWN
1. Wetlands	X						
2. Flood Plain/River Corridor	X						
3. Water Supply	X						
4. Water Resources	X						
5. Groundwater Recharge Area	X						
6. Storm Water	X						
7. Waste Water	X						
8. Air Quality	X						
9. Solid Wastes		X		X			
10. Soil Stability/Erodibility	X						
11. Protected Mountains	X						
12. Protected Species	X						
13. Critical Habitats	X						
14. Historical	X						
15 .Archeological	X						
16. Parks/Recreation	X						
17. Energy Supplies	X						
18. Beaches	X						
19. Dunes	X						
20. Shoreline	X						
21. Estuary	X						
22 .Forest Land	X						
23. Barrier Island	X						
24. Aquatic Life/Trout Streams	X						

Project No:  
Project Name  
Institution:

EMC Project No. 08-3049  
New Dormitory & Parking Lot  
AASU

(Signed) Alijah Peter  
(Date) 2-13-2008

**Armstrong Atlantic State University  
New Dormitory on Compass Point Drive Parking Lot and New Parking Lot Site  
Located on the Campus of AASU  
11935 Abercorn Street  
Savannah, Georgia 31419**

**Georgia Environmental Policy Act (GEPA)  
Environmental Evaluation & Checklist**

EMC Engineering Services, Inc. (EMC) recently conducted necessary field and desktop studies in order to prepare an environmental evaluation in accordance with Georgia Environmental Policy Act (GEPA). Herein, find the required Checklist and Summary, which encompasses the proposed action in respect to a range of environmental considerations.

An analysis was performed of the topography, hydrography, soils, groundwater recharge areas, floodplain, contours, and other existing features such as roads, rails, and neighboring development. A site inspection was conducted on January 12, and February 12, 2009, in order to visually verify site information and current conditions found during our desktop analysis. In addition, planned construction activity information provided by the staff of EMC Engineering Services, Atlanta Branch, and University Housing Services, Atlanta, Georgia was collected and reviewed in order to familiarize the environmental staff with the technical elements of the proposed work.

**Project Location**

The subject sites are located on the east and central sides of the campus of Armstrong Atlantic State University, 11935 Abercorn Street, Savannah, Georgia 31419. The two sites are approximately 300 feet apart on the north side of Compass Point Drive. One site is east of the other. The site on the east is approximately six acres in size and is a concrete parking lot and detention pond. A dormitory is proposed to be built on the eastern site. The detention pond along the north side of Compass Point Drive will have to be partially filled during construction of the dormitory. The western site is approximately seven acres in size and is entirely wooded. The eastern site is bounded on the north by campus parking and campus apartments, east by campus parking and private housing developments, south by Compass Point Drive, woodlands and private housing developments and west by campus parking. The western property is bounded on the north by campus parking and commercial properties, east by campus apartments, south by woodlands and private housing developments and west by campus apartments. The parking lot is proposed to be built on the western site. In the surrounding area, private housing developments are located east and south of the subject sites, north by the AASU campus and commercial property and east by Hoover Creek and the Little Ogeechee River are located west of the subject sites. Both properties and the surrounding area are shown on figures, aerial photographs, topographic maps and photographs in the attached Phase I Environmental Site Assessment.

**Brief Description of Proposed Activities**

The planned use of the subject property is understood to be:

- A 569 bed campus dormitory is proposed to be built on the 6 acre eastern property. It will be a 4 story building, frame construction with 100% brick exterior.
- A 600 space parking lot is proposed to be built on the 7 acre western property. This parking area will be utilized by the students of the proposed dormitory.

1. **Wetlands- Will the action occur in a "wetlands" area?** Yes ☐ No ☒

Both sites are out of the National Wetlands Inventory.

2. **Floodplain/River Corridor- Will the action occur in a floodplain or a river corridor?** Yes ☐ No ☒

According to FEMA FIRM maps, the project site is located outside the 500-year floodplain. This designation denotes a 1% annual chance of flooding and therefore the project will not impact the floodplain or adjacent river corridors.

3. **Water supply- Does the proposed action have the potential for decreasing either the quality or quantity of water available for water supply?** Yes ☐ No ☒

The project area is currently provided potable water from the City of Savannah wells. The amount of water required for the proposed dormitory will not be a significant demand compared to the amount of water used by the City of Savannah. The area is not supplied water from a reservoir on a water supply watershed. The proposed water use will not contaminate the water source to a point where it cannot be treated to meet drinking water standards.

4. **Water Resources- Will the proposed action result in large demand for water from the available water resources? Will the proposed action result in a degradation of quality of waters of the state?** Yes ☐ No ☒

The project area is currently provided potable water from the City of Savannah wells. The amount of water required for the proposed dormitory will not be a significant demand compared to the amount of water used by the City of Savannah. The area is not supplied water from a reservoir on a water supply watershed. The construction contractor will incorporate proper NPDES and soil and erosion control procedures during construction activities. The installation of these measures will minimize turbidity and the release of oils and other pollutants. The integration of erosion and sediment control measures, such as silt curtains and hay bales will reduce the chances of fill material leaving the construction area. The project will include storm water detention ponds to capture storm water runoff during and after construction.

5. **Groundwater Recharge Area- Will the action result in the disturbance or altering of a groundwater recharge area?** Yes ☐ No ☒

According to the Georgia Geologic Survey Hydrologic Atlas 18, the project is not located in the Miocene/Pliocene Most Significant Recharge Area.

6. **Storm Water- Will the project result in increasing the amount of storm water run off for downstream property owners?** Yes ☐ No ☒

Proposed detention ponds at both sites will capture increased runoff from the proposed impervious parking areas and buildings. There is no suspected contamination on the properties that would be transported to downstream property owners or adjacent rivers.

7. **Wastewater- Will the project produce wastewater that is discharged to a surface stream?** Yes ☐ No ☒

The Savannah Waste Water Treatment System is sufficient to treat all waste water generated at the dormitory. The sewage system will not have to be expanded.

8. **Air Quality- Will the action result in a release or discharge of containments into the ambient air?** Yes ☐ No ☒

Best management construction procedures should control all fugitive dust generated during construction. There are no suspected contaminants on the properties that would be of a concern.

9. **Solid Wastes- Will the project result in the generation of solid wastes for disposal, or will the proposed actions occur near or in an active or closed landfill?** Yes ☒ No ☐

Clearing debris consisting of trees, brush, dirt, concrete and construction debris generated during construction of the proposed facilities. These wastes will be disposed of in accordance with EPD Solid Waste Management Rules at a local landfill. There are no suspected contaminants on the properties that would require special handling and disposal. The amount of waste that will be generated is not of concern.

10. **Soil Stability/Erodibility- Will the action displace soils that will be carried off site and pose a threat to surface waters or property?** Yes ☐ No ☒

Proper erosion devices will be installed and maintained throughout the course of demolition and construction of the proposed development.

11. **Protected Mountains- Will the project involve the alteration of lands with high elevations and steep slopes?** Yes ☐ No ☒

The project area does not contain land which lies above 2,200 feet in elevation and has slopes of 25% or more; therefore, this project will not alter protected mountains.

12. **Protected Species- Will the proposed action harm or reduce the population of protected species?** Yes ☐ No ☒

The search area fell within one of the Georgia Endangered Species area. None of the protected species identified were observed during the site reconnaissance. The dormitory site is a parking lot. Furthermore, given the local land development, it is unlikely that either sites are suitable for these animals.

13. **Critical Habitat- Is the proposed action expected to involve any critical habitat?** Yes ☐ No ☒

Given the local land development, this area is not suspected to be a critical habitat for protected species or a wilderness area.

14. **Historical- Will the proposed action involve disturbance of any historic property?** Yes ☐ No ☒

National and state historic maps were reviewed and no sites were found in the area.

15. **Archeological- Will the proposed action involve disturbance of any archeological property?** Yes ☐ No ☒

The University of Georgia Archaeological Site File was reviewed and the subject sites were not found in the file.

There are no anticipated actions associated the proposed use of the subject property that will result in disturbance of any archeological property.

16. **Parks/Recreation- Will the proposed action involve disturbance or otherwise have a significant impact on the State's cultural resources?** Yes ☐ No ☒

The proposed project does not involve park lands, preserves, or other public lands or areas of recognized scenic and/or recreational value.

17. **Energy Supplies- Will the proposed action have significant impact on the reduction in the available energy supplies?** Yes ☐ No ☒

Power consumption for the proposed project is not expected to have a significant impact to the energy consumption of Armstrong Atlantic State University.

18. **Beaches- Will the proposed action involve the disturbance of any beach areas?** Yes ☐ No ☒

The project is not in the vicinity of an ocean beach; therefore the proposed work will have no affect on these areas.

19. **Dunes- Will the proposed activity alter coastal sand dunes?** Yes ☐ No ☒

The project is not within or near the ocean; sand dunes, beaches, sandbars, and shoals will not be affected.

20. **Shoreline- Will the project involve activities in the Georgia Coastal shoreline area or in areas covered under the river corridor protection requirements of Georgia House Bill 643?** Yes ☐ No ☒

The project is not located on or near a coastal shoreline area; therefore, the natural topography and vegetation of these areas will not be affected.

21. **Coastal Marshlands- Will the proposed action alter the Georgia Coastal marshlands environment?** Yes ☐ No ☒

The project is not in coastal marshlands or creeks; therefore, these areas will not be affected as a result of the proposed work.

22. **Barrier Island-Will the proposed project have an adverse affect on coastal barrier islands?** Yes ☐ No ☒

This project is not located along the coastline; therefore the proposed activities will not affect barrier islands.

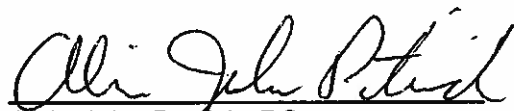
23. **Aquatic Life/Trout Streams-Will the project adversely affect streams or aquatic life inhabiting such area?** Yes ☐ No ☒

The project area did not contain streams or creeks, therefore, these resources will not be impacted by the proposed activities.

### **Conclusion**

Based on field evaluations and a thorough review of reasonably ascertainable information, including exhibits, surveys, maps, interviews and databases, this particular project and its defined project area, as briefly described above, will not result in any significant adverse environmental effects.

Prepared By:



Alvin John Patrick, PG  
Hydrogeologist