

Jefferson Kirkland

From: Holly Holdsworth
Sent: 22 December, 2022 10:25
To: Jefferson Kirkland;
Cc: Memory, Melissa J; Donato, Michael J
Subject: Proposals for McQueens Trail
Attachments: Arrowood Proposal.pdf; POND Proposal.pdf

Good Morning Jefferson and Dave,

Attached are the two proposals received from Pond and Arrowood for the Fort Pulaski oil leak response. When reviewing them, they get fairly technical in nature, so I was looking for any feedback yall had to assist us in deciding which firm to go with.

Any input you can give from your expertise is greatly appreciated.

Thanks,

Holly Holdsworth
Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406
912-652-6784

<http://parks.chathamcounty.org>



From: Holly Holdsworth
Sent: Thursday, December 22, 2022 9:59 AM
To: Stephen Proper < >; James (Corey) Harper < >
Cc: Antonio Murphy
Subject: Proposals for McQueens Trail

Good Morning,

Attached are the two proposals received from POND and Arrowood. When reading over them, they get pretty technical in nature, so I am not real sure I can decipher which is better? They are both close to the same amount of \$\$.

I am going to send to the NPS Spill Response person that I have been in contact with and see if he has thoughts about either one, to help us decide which direction to go? Also I am going to loop in Jefferson Kirkland and see if he has thoughts on these.

Take a look at the attached though and let me know if you have any feedback.

Thanks,

Holly Holdsworth

Deputy Director

Chatham County Parks & Recreation

7226 Varnedoe Drive

Savannah, GA 31406

912-652-6784

<http://parks.chathamcounty.org>



Jefferson Kirkland

From: Anderson, David L
Sent: 23 December, 2022 10:35
To: Holly Holdsworth; Jefferson Kirkland
Cc: Memory, Melissa J; Donato, Michael J
Subject: Re: [EXTERNAL] Proposals for McQueens Trail

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

No worries, Holly. Happy to help.

Dave Anderson
NPS Spill Response
1201 Oakridge Dr
Fort Collins CO 80525
Office 970-225-3539

From: Holly Holdsworth
Sent: Friday, December 23, 2022 7:08:15 AM
To: Anderson, David L
Cc: Memory, Melissa J; Donato, Michael J
Subject: RE: [EXTERNAL] Proposals for McQueens Trail

Thank you so much for your quick response and input, very helpful to assist us in making a decision. And appreciate the feedback we can give to the awarded firm to make sure we present a good overall plan to NPS.

Holly Holdsworth
Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406



From: Anderson, David
Sent: Thursday, December 22, 2022 3:21 PM
To: Holly Holdsworth; Jefferson Kirkland
Cc: Memory, Melissa J; Donato, Michael J
Subject: Re: [EXTERNAL] Proposals for McQueens Trail

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Holly,

While I don't feel comfortable recommending one proposal over the other, I had a quick look and am happy to share the following observations:

- Neither proposal references the need to get a Special Use Permit from Fort Pulaski; it should be reiterated upon award that a SUP is necessary before work is conducted.
- Neither proposal acknowledges that the area was "back bladed" at the time the crane was removed; that activity may have expanded the contaminant footprint.
- Both proposals include the use of a Photoionization Detector (PID) for sample screening; this is an appropriate method for efficiency.
- Neither proposal addresses the need for confirmation clean samples upon completion of excavation; however, that can easily be included in the removal effort.
- Pond proposal:
 - Acknowledges 2 potential sources of contamination to be evaluated (petroleum releases from the crane and treated lumber).
 - Identifies an adequate number and depth for sample collection.
 - Analytical parameters seem appropriate for the contaminants to be evaluated.
 - Includes a bullet to "manage and oversee the soil remediation efforts".
 - References a Notice to Proceed from GDOT.
 - Mentions the need "to obtain the necessary reference materials" but doesn't indicate what those may include.
 - Identifies Georgia EPD Risk Reduction Standards for lab results comparison (corrective active evaluation criteria).
 - Acknowledges the need for "access to the Subject Property"; this will likely be granted with the SUP.
 - No mention of planning for a utility locate.
- Arrowwood proposal:
 - References an area of concern of approximately 25 square feet (5' x 5'?); however, the included aerial photo does appear to identify the area where the crane was located. This may have been a typo intended to be 25 feet square.
 - Only references one potential source of contamination (petroleum releases from the crane).

- Number and depth for sample collection for the petroleum contaminants appears to be adequate.
- Sample parameters appear to be adequate for petroleum.
- Recognized the need to adjust the plan in the field due to site conditions/observations.
- Cost estimate does include confirmation clean samples.
- Section heading indicate a corrective action plan and response oversight are included, but there is no indication of what screening thresholds may be used for corrective action evaluation.

I'm hoping that my observations may assist you in evaluating the proposals. I'd be happy to answer any further questions that the county may have.

Happy Holidays!

Dave Anderson
NPS Spill Response
1201 Oakridge Dr
Fort Collins CO 80525
Office 970-225-3539

From: Holly Holdsworth
Sent: Thursday, December 22, 2022 8:24 AM
To: Jefferson Kirkland <jefferson.kirkland@chathamcountyga.gov>; Anderson, David L <dave.anderson@chathamcountyga.gov>
Cc: Memory, Melissa J <memory.memory@chathamcountyga.gov>; Donato, Michael J <michael.donato@chathamcountyga.gov>
Subject: [EXTERNAL] Proposals for McQueens Trail

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good Morning Jefferson and Dave,

Attached are the two proposals received from Pond and Arrowood for the Fort Pulaski oil leak response. When reviewing them, they get fairly technical in nature, so I was looking for any feedback yall had to assist us in deciding which firm to go with.

Any input you can give from your expertise is greatly appreciated.

Thanks,

Holly Holdsworth
Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406

912-652-6784

<http://parks.chathamcounty.org>



From: Holly Holdsworth
Sent: Thursday, December 22, 2022 9:59 AM
To: Stephen Proper ; James (Corey) Harper <
Cc: Antonio Murphy
Subject: Proposals for McQueens Trail

Good Morning,

Attached are the two proposals received from POND and Arrowood. When reading over them, they get pretty technical in nature, so I am not real sure I can decipher which is better? They are both close to the same amount of \$\$.

I am going to send to the NPS Spill Response person that I have been in contact with and see if he has thoughts about either one, to help us decide which direction to go? Also I am going to loop in Jefferson Kirkland and see if he has thoughts on these.

Take a look at the attached though and let me know if you have any feedback.

Thanks,

Holly Holdsworth
Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406
912-652-6784

<http://parks.chathamcounty.org>



CAUTION: This email has been sent from the government of Chatham County Georgia. Please disregard and delete this message if you are not the intended recipient.

CAUTION: This email has been sent from the government of Chatham County Georgia. Please disregard and delete this message if you are not the intended recipient.

Jefferson Kirkland

From: Holly Holdsworth
Sent: 13 January, 2023 12:42
To: Nathaniel Panther
Cc: Jefferson Kirkland; Keaira Biggins
Subject: Task Order Agreement for Arrowood Environmental Group
Attachments: 048-2022.FtPulaskiOilSpillResponseProposal.pdf; Official Letter to Chatham County_2022 Oil Spill.pdf

Good Afternoon,

I have been working with Fort Pulaski and NPS staff, Jefferson Kirkland and Dennis Rauch with Sweetwater Marine Construction LLC (currently conducting repairs to a bridge on McQueen's Island Trail) in response to the potential soil impacts from diesel fuel, motor oil, hydraulic fluid leakage at the entrance of Fort Pulaski.

We have selected the attached proposal from Arrowood Environmental Group, Inc. to complete the necessary response as outlined in the attached letter from Fort Pulaski.

Next step is a Task Order Agreement from yall to move forward with this project response. We will coordinate the PO and paying the invoices, and send yall copies for your records.

Let me know if you need anything additional from us.

Thanks,

Holly Holdsworth
Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406
912-652-6784

<http://parks.chathamcounty.org>



Jefferson Kirkland

From: Holly Holdsworth
Sent: 18 January, 2023 10:24
To: Memory, Melissa J
Cc: Stephen Proper; Jefferson Kirkland; Larry Miles; Anderson, David L; Barreiro, Deb;
Subject: 1.A.2 RE: Oil Spill/Contamination at Fort Pulaski
Attachments: Response Letter to Fort Pulaski 1.A.2.pdf

Good Morning Ms. Memory,

Please find the attached letter in response to the Oil Spill/Contamination at the McQueen's Island Trail staging area at the entrance of Fort Pulaski National Monument. We appreciate the National Park Service working with us to address this clean up and remediation. We have selected an Environmental Firm and their proposal is also included in our response.

Sincerely,

Holly Holdsworth

Deputy Director
Chatham County Parks & Recreation

7226 Varnedoe Drive
Savannah, GA 31406
912-652-6784

<http://parks.chathamcounty.org>



Jefferson Kirkland

From: Suzanne Cooler
Sent: 25 January, 2023 14:10
To: Jefferson Kirkland
Subject: FW: open records request for McQueen's Island Trail info

Do you have anything?

From: Shannon Bazemore
Sent: Wednesday, January 25, 2023 2:08 PM
To: Suzanne Cooler
Cc: Sherri Oliver
Subject: FW: open records request for McQueen's Island Trail info

Hi Suzanne,

Would your department have any responsive information for the below open records request? Please provide to me or Sherri as soon as possible.

Many thanks,

Shannon Bazemore
Paralegal Administrative Assistant
Chatham County Attorney's Office
P.O. Box 8161
Savannah, GA 31412
Telephone: (912) 652-7837
Fax: (912) 652-7887

"This message originates from the Chatham County Attorney's Office. The message and any file transmitted with it contain confidential information which may be subject to the attorney-client privilege, or otherwise protected against unauthorized use. The information contained in this message and any file transmitted with it is transmitted in this form based on a reasonable expectation of privacy consistent with ABA Formal Opinion No. 99-413. Any disclosure, distribution, copying or use of the information by anyone other than the intended recipient, regardless of address or routing, is strictly prohibited. All attachments are believed to be free of viruses, but any attachments should be checked for viruses before being opened. If you have received this message in error, please advise the sender by immediate reply and delete the original message."

From: Catherine Glasby <cnglasby@chathamcounty.org>
Sent: Wednesday, January 25, 2023 2:00 PM
To: Shannon Bazemore
Subject: FW: open records request for McQueen's Island Trail info

Sherri Oliver

Shannon and Sherri,

Eric emailed me had said he has gotten no response to include an initial letter from the County Attorney's office on this request. Can you please check on it?

Thank you,

Catherine Glasby

Public Information Director
Chatham County, GA
Office: 912-652-7968
Direct line: 912-652-7897

From: Catherine Glasby

Sent: Tuesday, January 17, 2023 9:37 AM

To: Andre Pretorius <____@____>; Sherri Oliver <____@____>; Reginald C. Martin <____@____>; Shannon Bazemore <____@____>; Jonathan Hart <____@____>

Subject: FW: open records request for McQueen's Island Trail info

Please see below.

Thank you,

Catherine Glasby

Public Information Director
Chatham County, GA
Office: 912-652-7968
Direct line: 912-652-7897

From: Eric Curl <eric.curl@savannahagenda.com>

Sent: Tuesday, January 17, 2023 8:41 AM

To: Catherine Glasby <cnglasby@chathamcounty.org>

Subject: open records request for McQueen's Island Trail info

CAUTION: This email originated from outside of Chatham County. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Catheriine,

Please forward this open records request to the appropriate party:

"All correspondence since Dec. 16, 2022 to and from county engineering department staff concerning the Mcqueen's Island Trail."

Thanks,

Eric

--

Eric Curl
Publisher/Writer
Savannah Agenda
eric.curl@savannahagenda.com
(912) 398-4581

<http://parks.chathamcounty.org>



From: Holly Holdsworth

Sent: Thursday, December 22, 2022 9:59 AM

To: Stephen Proper ·

; James (Corey) Harper

Cc: Antonio Murphy

Subject: Proposals for McQueens Trail

Good Morning,

Attached are the two proposals received from POND and Arrowood. When reading over them, they get pretty technical in nature, so I am not real sure I can decipher which is better? They are both close to the same amount of \$\$.

I am going to send to the NPS Spill Response person that I have been in contact with and see if he has thoughts about either one, to help us decide which direction to go? Also I am going to loop in Jefferson Kirkland and see if he has thoughts on these.

Take a look at the attached though and let me know if you have any feedback.

Thanks,

Holly Holdsworth

Deputy Director

Chatham County Parks & Recreation

7226 Varnedoe Drive

Savannah, GA 31406

912-652-6784

<http://parks.chathamcounty.org>



Jefferson Kirkland

From: Jefferson Kirkland
Sent: 5 January, 2023 10:39
To: Suzanne Cooler
Subject: RE: Media requests

I have not yet. I need to begin the warrantee period. As far as opening goes, that is totally up to Parks at this point.



JEFFERSON KIRKLAND

Environmental Program Manager
Coastal Georgia Master Naturalist

Chatham County Department of Engineering
124 Bull Street - Room 430
Savannah, GA 31401

(O) 912-652-7800

(F) 912-652-7818

From: Suzanne Cooler
Sent: 5 January, 2023 09:19
To: Jefferson Kirkland
Subject: Fwd: Media requests

Did we finalize the McQueen contract? Do we know when trail will open?

Begin forwarded message:

From: Sean Evans _____
Date: January 5, 2023 at 9:10:14 AM EST
To: Parveez Yousuf _____, Suzanne Cooler
Cc: Catherine Glasby _____, Abbigail Murphy
Subject: Media requests

Good morning, all,

I hope the new year is off to a great start for you!

I have a few requests from local reporters.

1. A reporter with WTOC is still interested in getting an on-cam interview with someone on the progress of the new trial courthouse. Parveez, once we get a time and day nailed down, I'll send you some questions.
2. Here is a request on McQueens Trail: "Can you please check on this again for me? It's been four weeks now since I sent the below questions regarding the McQueens Island trail. I would like to get the update for my next Connect Savannah column."

"Can you provide me with some info on why the completion dates keep getting pushed back? Does the city anticipate any more contract increases for the project? Considering the number of times the expected completion date has been pushed back, how much confidence does the county have in the latest?"

Thanks as always for your time and assistance!

Sean Evans
Chatham County Public Information Office
124 Bull Street
Savannah, GA 31412
(O) 912-652-7975
(C) 912-659-2852
sevans@chathamcounty.org

Jefferson Kirkland

From: Jefferson Kirkland
Sent: 25 January, 2023 14:25
To: Suzanne Cooler
Subject: RE: open records request for McQueen's Island Trail info

I have collected everything I have to and from CCDOE staff from 16 December to present. I have included attachments.



JEFFERSON KIRKLAND
Environmental Program Manager
Coastal Georgia Master Naturalist

Chatham County Department of Engineering
124 Bull Street - Room 430
Savannah, GA 31401

(O) 912-652-7800
(F) 912-652-7818

From: Suzanne Cooler
Sent: 25 January, 2023 14:10
To: Jefferson Kirkland
Subject: FW: open records request for McQueen's Island Trail info

Do you have anything?

From: Shannon Bazemore
Sent: Wednesday, January 25, 2023 2:08 PM
To: Suzanne Cooler
Cc: Sherri Oliver
Subject: FW: open records request for McQueen's Island Trail info

Hi Suzanne,

Would your department have any responsive information for the below open records request? Please provide to me or Sherri as soon as possible.

Many thanks,

Shannon Bazemore
Paralegal Administrative Assistant
Chatham County Attorney's Office
P.O. Box 8161



ARROWOODENV.COM
OFFICE: 912.920.2895
FAX: 888.880.3520
P.O. Box 61237, Savannah, GA 31420

January 12, 2023 (Update)

Holly Holdsworth
Chatham County Parks & Recreation
7226 Varnedoe Dr.
Savannah, GA 31406

RE: Proposal for an Oil Spill Response and Corrective Action
Ft. Pulaski Entrance Area
US Highway 80 and Ft. Pulaski Rd.
Savannah, Chatham County, Georgia
Arrowood Proposal No. 048-2022

Ms. Holdsworth:

Arrowood Environmental Group, Inc. (Arrowood) is pleased to submit a proposal to assess the oil impacted area and former treated lumber staging area near the entrance of the Ft. Pulaski National Monument in Savannah, Chatham County, Georgia (herein referenced as the "Site").

This proposal contains a summary of the project information as we understand it, a proposed scope of services, and an estimate of the costs to perform these services.

PROJECT INFORMATION AND PURPOSE

The purpose of the proposed scope of work is to identify and delineate potential impacts to soil associated with diesel fuel/motor oil/hydraulic fluid leakage from a parked construction crane and treated lumber material storage area near the entrance to the National Monument. An area of approximate 625 square feet (25' x 25') has been identified as the area of concern.

Prior to mobilization to the Site, Arrowood will submit a Special Access Permit application to the National Park Service personnel to gain entry to the Site.



SCOPE OF WORK

UNDERGROUND UTILITY LOCATE

Prior to commencing any subsurface sampling activities on the Site as described in the scope of work, Arrowood will submit a utility locate request to Georgia 811 to prevent damage to underground utilities and for the safety of Site personnel during the assessment. A minimum of three (3) full working days (not including the day of the call) must pass prior to commencing work on the Site. However, utilities that exist on the Property may not be readily identified by the standard UPC identification process. Arrowood will coordinate with site representatives to identify any on site utilities to minimize any potential disruption of services.

Arrowood cannot be held responsible for damage to any utilities not identified and marked. Additionally, please be advised that observed site conditions may reveal the need for alterations to the proposed scope of work. Arrowood will contact the Client immediately prior to commencing with any significant deviations from the proposed scope of work referenced herein.

SPILL AREA DELINEATION/CORRECTIVE ACTION PLAN DEVELOPMENT AND RESPONSE OVERSIGHT

To delineate the soil contamination from the crane oil/hydraulic fluid release and evaluate impacts from stored treated lumber, Arrowood personnel will utilize a 4.0-inch stainless steel hand auger. The hand auger will be clean and decontaminated prior to the advancement of each boring on the Site. Arrowood personnel will advance each soil boring on the Site to a depth of 2.0-feet below ground surface. Soil lithology will be logged into a field notebook and soils will be screened in one-foot intervals utilizing a MiniRAE Photoionization Detector (PID) to screen the samples for vapors. A soil sample will be collected from the interval with the highest screening reading. If no significant detections are indicated within the PID screening, the soil sample will be collected from the 1-foot below ground surface interval. Soil samples will be collected and analyzed for Diesel Range Organics and Oil Range Organics along with RCRA Metals by Eurofins Laboratory in Savannah, Georgia.

Each sample will be placed into individually labeled, laboratory supplied containers and will be immediately placed into an insulated cooler packed with ice. The samples will be logged onto a chain-of-custody which will accompany the samples to the laboratory. Arrowood personnel will hand-deliver the samples to Eurofins Laboratory in Savannah, Georgia for analysis. All laboratory analysis will include Level 4 QA/QC.

Location	Description	Laboratory Analysis
SB-1 through SB-11	On boundaries of 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)



SB-12 through SB-13 TCLP-1	Oil-Stained areas within 625 sq. ft. (25' x 25') impacted area. Composite sample collected from stained soils will be analyzed by the TCLP method for landfill disposal approval.	Soil: DRO/ORO (8015D) RCRA Metals (6010D) TCLP: 1311/Full
SB-14	Duplicate sample location to be selected in the field for QA/QC purposes.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-15	Background sample collected from nearby unimpacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-1C through SB-11C	On boundaries of 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-12C through SB-13C	Oil-Stained areas within 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-14C	Duplicate sample location to be selected in the field for QA/QC purposes.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)

Soil sample locations may be seen attached on **Figure 1**.

Following delineation of the soil contamination, Arrowood will oversee Chatham County's removal of the soil and its disposal at a Georgia EPD approved local landfill. In addition to the delineation soil samples, one additional soil sample will be collected from a nearby area not impacted by the spill/treated lumber and analyzed for DRO/GRO and RCRA Metals. This sample will be used as a background sample for determining appropriate clean up concentrations to pre-impact existing conditions. Upon the completion of the soil excavation, Arrowood will collect remedial confirmation soil samples at the same approximate locations of the delineation samples from the sidewalls of the excavation and submit to Eurofins laboratory for analysis for the same parameters used during delineation. The results of the confirmation sampling will be compared to the background soil sample to determine if the soil excavation has removed all impacted soils from the area.



REPORT PREPARATION

Following completion of all investigation services, we will prepare a report for submittal to the client. The report will include all field notes as well as the analytical results summarized in tabular format. Arrowood expects to be able to complete the initial soil delineation sampling by January 30, 2023, followed by remedial work and confirmation sampling. Arrowood would expect the final report to be submitted to the Client by March 10, 2023.

PROJECT COSTS

Arrowood Environmental Group, Inc. proposes to perform these services on a time and material basis for the proposed scope of services. See attached fee proposal for our unit rates and estimated total project cost. Please indicate your approval of this proposal by providing us with a Task Order for the project.

CLOSING

Arrowood Environmental Group, Inc. appreciates the opportunity to be of service to you on this project. If you have any questions, or if we may be of additional assistance, please do not hesitate to your project manager for this project, Mr. Larry Miles,

Sincerely,

A handwritten signature in blue ink that reads "Steven L. Smith, Jr.".

Steven L. Smith, Jr., VP
Senior Environmental Scientist

A handwritten signature in blue ink that reads "J. Larry Miles, Jr.".

J. Larry Miles, Jr. MS, CSP
Principal

A handwritten signature in blue ink that reads "David F. Remick".

David F. Remick, P.G.
Senior Geologist

Attachments (2)
Figure 1 – Proposed Sample Location Map
Itemized Cost Sheet

COST ESTIMATE
Fort Pulaski Oil Spill Response
Chatham County
Hwy. 80 and Ft. Pulaski Road
Arrowood Proposal No. 048-2022

Item	Unit	Unit Cost	Quantity	Cost	Subtotal
------	------	-----------	----------	------	----------

SPILL AREA DELINEATION, CORRECTIVE ACTION PLAN DEVELOPMENT AND RESPONSE OVERSIGHT

TASK 1: FIELD SERVICES

Collect eleven (11) soil samples from the 25 square foot area of contamination plus two (2) additional samples from the stained soil areas and an additional duplicate sample for QA/QC.

Collect a background sample from a nearby non-impacted area for establishing background related cleanup levels. Samples to be analyzed for Diesel/Oil Range Organics and RCRA Metals.

Provide remedial oversight and repeat the same sampling protocol (absent background sample) post remedial efforts to verify all contamination had been removed.

Project Professional	hour	\$105.00	12	\$1,260.00	
Senior Geologist	hour	\$125.00	4	\$500.00	
Mileage (3 trips)	each	\$0.625	150	\$93.75	
PID meter	day	\$200.00	1	\$200.00	
Consumables	lump	\$100.00	1	\$100.00	
					\$2,153.75

TASK 2: ANALYTICAL SERVICES

Spill Delineation

Diesel Range Organics/Oil Range Organics	each	\$69.00	15	\$1,035.00	
RCRA Metals	each	\$104.00	15	\$1,560.00	

Cleanup Confirmation

Diesel Range Organics/Oil Range Organics	each	\$69.00	14	\$966.00	
RCRA Metals	each	\$104.00	14	\$1,456.00	

CONTAMINATE SOIL DISPOSAL

TCLP: VOCs/ SVOCs, Pest/Herb/Metals	each	\$1,119.00	1	\$1,119.00	
-------------------------------------	------	------------	---	------------	--

Task 2: Subtotal: \$6,136.00

TASK 3: PROFESSIONAL SERVICES

Prepare Delineation Sampling and Corrective Plan.

Senior Geologist	hour	\$125.00	12	\$1,500.00	
GIS Technician	hour	\$75.00	2	\$150.00	
					\$1,650.00

Prepare report of findings

Senior Geologist	hour	\$125.00	10	\$1,250.00	
GIS Technician	hour	\$75.00	2	\$150.00	
					\$1,400.00

Total Estimated Cost \$11,339.75




ARWOOD
 ENVIRONMENTAL GROUP, INC.
 P.O. Box 61237
 Savannah, Ga 31420
 912-920-2895 888-880-3520 FAX

Proposed Soil Boring Locations
 Ft. Pulaski
 Hwy 80 and Ft. Pulaski Rd
 Savannah, GA

KEY:
Site
 Scale:
 NTS

Date: 12/19/22
 Drawn By: LM
 Checked by: SS
SOURCE
 Goggle Earth 2022

FIGURE
1



United States Department of the Interior

NATIONAL PARK SERVICE

Fort Pulaski National Monument

P.O. Box 30757

Savannah, Georgia 31410



In Reply Refer to: 1.A.2

11/18/2022

Michael Kaigler
County Manager
124 Bull St.
Suite 220
Savannah, GA 31401

Dear Mr. Kaigler,

On November 4, 2022, representatives from Fort Pulaski National Monument (Park) and the Georgia Department of Natural Resources observed petroleum stained and saturated soils apparently from a release of oil (hydraulic, lube, fuel oils) from a crane near the entrance monument of the park. This is located in the area where Chatham County had been staging materials for the repairs to the McQueen's Island Trail. Chatham County and the crane owner are potentially liable for costs and damages caused by this incident pursuant to the System Unit Resource Protection Act (54 U.S.C. 100721, *et seq.*) and the Oil Pollution Act (33 U.S.C 2701, *et seq.*).

The park appreciates the prompt attention to this matter by Jefferson Kirkland and Holly Holdsworth and the contractor to remove the crane and other materials stored on the site. We have done preliminary documentation of the location and nature of the spill and associated damage. Now that the materials are removed, it is our hope that we can continue to work cooperatively to evaluate site conditions, remove contaminated soils, conduct an assessment of injuries to Park resources, and appropriately restore the site to baseline (or pre-existing) conditions. The Park would expect a qualified environmental firm to prepare plans for delineation and removal of contaminants resulting from the leaking crane (hydraulic, lube, fuel oils) and treated lumber. Those plans should include a sampling approach, sampling parameters (with analytical methods), approximate number of samples to be collected, and evaluation criteria for contaminant removal. Once sampling is completed and evaluated (with appropriate quality assurance of the analytical data), the Park would expect a plan for excavation and disposal detailing methods to minimize resource disturbance. These plans do not need to be extravagant or burdensome.

Please note that the NPS may require clean up and restoration to baseline conditions as required by 54 U.S.C. § 100101, which may be more restrictive than some state requirements. All activities within Park boundaries will be evaluated for consistency with Federal law and NPS regulations, policies, and procedures. Any activities not consistent with Federal law or NPS regulations, policies and procedures may be denied.

Please be aware that no work may occur within a unit of the NPS without a Special Use Permit (SUP), even if that work was authorized or ordered by a State or other regulatory agency. Work conducted within the Park without written authorization, may incur additional liabilities. NPS must approve all work plans for actions undertaken on site (characterization, monitoring, cleanup, remediation or restoration) prior to initiating any activity. A SUP from the NPS does not constitute approval or a permit by state agencies.

If you have questions, please contact me at _____ or 912-786-8182 ext. 1107

Sincerely,



Melissa Memory
Superintendent
Fort Pulaski National Monument

cc:

Trish Cortelyou-Hamilton, Attorney-Advisor, DOI Office of the Solicitor

Dave Anderson, NPS Spill Response, EQD, Resource Protection Branch

Karen Battle, NPS Damage Assessment Program, EQD Resource Protection Branch

Deb Barrio, Georgia Department of Natural Resources Coastal Resources Division

Jefferson Kirkland, Environmental Program Manager, Chatham County

Holly Holdsworth, Deputy Director Chatham County Parks and Recreation undefined



CHATHAM COUNTY PARKS & RECREATION
Stephen Proper, Director

January 17, 2023

Melissa Memory
Superintendent
Fort Pulaski National Monument
P.O. Box 30757
Savannah, GA 31410

RE: 1.A.2

Dear Ms. Memory,

In response to the events on November 4, 2022 and the letter dated November 18, 2022, Chatham County staff coordinated removal of equipment and materials at the Fort Pulaski National Monument Entrance. Parks and Recreation staff met with you and multiple Environmental Firms to discuss response plans and proper methods needed to minimize resource disturbance and meet the required clean up and restoration conditions.

We appreciate the initial feedback and input from Dave Anderson on the proposals. Chatham County Parks and Recreation has hired Larry Miles with Arrowood Environmental Group, Inc. to prepare plans for delineation and removal of contaminants resulting from the leaking crane (hydraulic, lube, fuel oils) and treated lumber.

Please review the attached proposal and provide any additional feedback. If the plans are sufficient, we request to move forward with a Special Use Permit (SUP). Additional comments, requirements for the SUP, or questions can be directed to me at

or 912-652-6784 and Larry Miles at
or 912-920-2895.

Sincerely,

Holly Holdsworth
Deputy Director
Chatham County Park and Recreation Department

cc: Stephen Proper, Director, Parks and Recreation _____
Jefferson Kirkland, Environmental Program Manager _____
Larry Miles, Arrowood Environmental Group
Dave Anderson, NPS Spill Response, EQD, Resource Protection Branch

Deb Barreiro, Georgia Department of Natural Resources, Coastal Resources Division

Trish Cortelyou-Hamilton, Attorney-Advisor, DOI Office of the Solicitor

Karen Battle, NPS Damage Assessment Program, EQD Resource Protection Branch



ARROWOODENV.COM
OFFICE: 912.920.2895
FAX: 888.880.3520
P.O. Box 61237, Savannah, GA 31420

January 12, 2023 (Update)

Holly Holdsworth
Chatham County Parks & Recreation
7226 Varnedoe Dr.
Savannah, GA 31406

RE: Proposal for an Oil Spill Response and Corrective Action
Ft. Pulaski Entrance Area
US Highway 80 and Ft. Pulaski Rd.
Savannah, Chatham County, Georgia
Arrowood Proposal No. 048-2022

Ms. Holdsworth:

Arrowood Environmental Group, Inc. (Arrowood) is pleased to submit a proposal to assess the oil impacted area and former treated lumber staging area near the entrance of the Ft. Pulaski National Monument in Savannah, Chatham County, Georgia (herein referenced as the "Site").

This proposal contains a summary of the project information as we understand it, a proposed scope of services, and an estimate of the costs to perform these services.

PROJECT INFORMATION AND PURPOSE

The purpose of the proposed scope of work is to identify and delineate potential impacts to soil associated with diesel fuel/motor oil/hydraulic fluid leakage from a parked construction crane and treated lumber material storage area near the entrance to the National Monument. An area of approximate 625 square feet (25' x 25') has been identified as the area of concern.

Prior to mobilization to the Site, Arrowood will submit a Special Access Permit application to the National Park Service personnel to gain entry to the Site.



SCOPE OF WORK

UNDERGROUND UTILITY LOCATE

Prior to commencing any subsurface sampling activities on the Site as described in the scope of work, Arrowood will submit a utility locate request to Georgia 811 to prevent damage to underground utilities and for the safety of Site personnel during the assessment. A minimum of three (3) full working days (not including the day of the call) must pass prior to commencing work on the Site. However, utilities that exist on the Property may not be readily identified by the standard UPC identification process. Arrowood will coordinate with site representatives to identify any on site utilities to minimize any potential disruption of services.

Arrowood cannot be held responsible for damage to any utilities not identified and marked. Additionally, please be advised that observed site conditions may reveal the need for alterations to the proposed scope of work. Arrowood will contact the Client immediately prior to commencing with any significant deviations from the proposed scope of work referenced herein.

SPILL AREA DELINEATION/CORRECTIVE ACTION PLAN DEVELOPMENT AND RESPONSE OVERSIGHT

To delineate the soil contamination from the crane oil/hydraulic fluid release and evaluate impacts from stored treated lumber, Arrowood personnel will utilize a 4.0-inch stainless steel hand auger. The hand auger will be clean and decontaminated prior to the advancement of each boring on the Site. Arrowood personnel will advance each soil boring on the Site to a depth of 2.0-feet below ground surface. Soil lithology will be logged into a field notebook and soils will be screened in one-foot intervals utilizing a MiniRAE Photoionization Detector (PID) to screen the samples for vapors. A soil sample will be collected from the interval with the highest screening reading. If no significant detections are indicated within the PID screening, the soil sample will be collected from the 1-foot below ground surface interval. Soil samples will be collected and analyzed for Diesel Range Organics and Oil Range Organics along with RCRA Metals by Eurofins Laboratory in Savannah, Georgia.

Each sample will be placed into individually labeled, laboratory supplied containers and will be immediately placed into an insulated cooler packed with ice. The samples will be logged onto a chain-of-custody which will accompany the samples to the laboratory. Arrowood personnel will hand-deliver the samples to Eurofins Laboratory in Savannah, Georgia for analysis. All laboratory analysis will include Level 4 QA/QC.

Location	Description	Laboratory Analysis
SB-1 through SB-11	On boundaries of 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)



SB-12 through SB-13 TCLP-1	Oil-Stained areas within 625 sq. ft. (25' x 25') impacted area. Composite sample collected from stained soils will be analyzed by the TCLP method for landfill disposal approval.	Soil: DRO/ORO (8015D) RCRA Metals (6010D) TCLP: 1311/Full
SB-14	Duplicate sample location to be selected in the field for QA/QC purposes.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-15	Background sample collected from nearby unimpacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-1C through SB-11C	On boundaries of 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-12C through SB-13C	Oil-Stained areas within 625 sq. ft. (25' x 25') impacted area.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)
SB-14C	Duplicate sample location to be selected in the field for QA/QC purposes.	Soil: DRO/ORO (8015D) RCRA Metals (6010D)

Soil sample locations may be seen attached on **Figure 1**.

Following delineation of the soil contamination, Arrowood will oversee Chatham County's removal of the soil and its disposal at a Georgia EPD approved local landfill. In addition to the delineation soil samples, one additional soil sample will be collected from a nearby area not impacted by the spill/treated lumber and analyzed for DRO/GRO and RCRA Metals. This sample will be used as a background sample for determining appropriate clean up concentrations to pre-impact existing conditions. Upon the completion of the soil excavation, Arrowood will collect remedial confirmation soil samples at the same approximate locations of the delineation samples from the sidewalls of the excavation and submit to Eurofins laboratory for analysis for the same parameters used during delineation. The results of the confirmation sampling will be compared to the background soil sample to determine if the soil excavation has removed all impacted soils from the area.



REPORT PREPARATION

Following completion of all investigation services, we will prepare a report for submittal to the client. The report will include all field notes as well as the analytical results summarized in tabular format. Arrowood expects to be able to complete the initial soil delineation sampling by January 30, 2023, followed by remedial work and confirmation sampling. Arrowood would expect the final report to be submitted to the Client by March 10, 2023.

PROJECT COSTS

Arrowood Environmental Group, Inc. proposes to perform these services on a time and material basis for the proposed scope of services. See attached fee proposal for our unit rates and estimated total project cost. Please indicate your approval of this proposal by providing us with a Task Order for the project.

CLOSING

Arrowood Environmental Group, Inc. appreciates the opportunity to be of service to you on this project. If you have any questions, or if we may be of additional assistance, please do not hesitate to your project manager for this project, Mr. Larry Miles,

Sincerely,

A handwritten signature in blue ink that reads "Steven L. Smith, Jr.".

Steven L. Smith, Jr., VP
Senior Environmental Scientist

A handwritten signature in blue ink that reads "J. Larry Miles, Jr.".

J. Larry Miles, Jr. MS, CSP
Principal

A handwritten signature in blue ink that reads "David F. Remick".

David F. Remick, P.G.
Senior Geologist

Attachments (2)
Figure 1 – Proposed Sample Location Map
Itemized Cost Sheet

COST ESTIMATE
Fort Pulaski Oil Spill Response
Chatham County
Hwy. 80 and Ft. Pulaski Road
Arrowood Proposal No. 048-2022

Item	Unit	Unit Cost	Quantity	Cost	Subtotal
SPILL AREA DELINEATION, CORRECTIVE ACTION PLAN DEVELOPMENT AND RESPONSE OVERSIGHT					
TASK 1: FIELD SERVICES					
<i>Collect eleven (11) soil samples from the 25 square foot area of contamination plus two (2) additional samples from the stained soil areas and an additional duplicate sample for QA/QC.</i>					
<i>Collect a background sample from a nearby non-impacted area for establishing background related cleanup levels. Samples to be analyzed for Diesel/Oil Range Organics and RCRA Metals.</i>					
<i>Provide remedial oversight and repeat the same sampling protocol (absent background sample) post remedial efforts to verify all contamination had been removed.</i>					
Project Professional	hour	\$105.00	12	\$1,260.00	
Senior Geologist	hour	\$125.00	4	\$500.00	
Mileage (3 trips)	each	\$0.625	150	\$93.75	
PID meter	day	\$200.00	1	\$200.00	
Consumables	lump	\$100.00	1	\$100.00	
					\$2,153.75
TASK 2: ANALYTICAL SERVICES					
Spill Delineation					
Diesel Range Organics/Oil Range Organics	each	\$69.00	15	\$1,035.00	
RCRA Metals	each	\$104.00	15	\$1,560.00	
Cleanup Confirmation					
Diesel Range Organics/Oil Range Organics	each	\$69.00	14	\$966.00	
RCRA Metals	each	\$104.00	14	\$1,456.00	
CONTAMINATE SOIL DISPOSAL					
TCLP: VOCs/ SVOCs, Pest/Herb/Metals	each	\$1,119.00	1	\$1,119.00	
					Task 2: Subtotal: \$6,136.00
TASK 3: PROFESSIONAL SERVICES					
<i>Prepare Delineation Sampling and Corrective Plan.</i>					
Senior Geologist	hour	\$125.00	12	\$1,500.00	
GIS Technician	hour	\$75.00	2	\$150.00	
					\$1,650.00
<i>Prepare report of findings</i>					
Senior Geologist	hour	\$125.00	10	\$1,250.00	
GIS Technician	hour	\$75.00	2	\$150.00	
					\$1,400.00
				Total Estimated Cost	\$11,339.75




ARWOOD
 ENVIRONMENTAL GROUP, INC.
 P.O. Box 61237
 Savannah, Ga 31420
 912 920 2895 888 880 3520 FAX

Proposed Soil Boring Locations
 Ft. Pulaski
 Hwy 80 and Ft. Pulaski Rd
 Savannah, GA

KEY:
Site
 Scale:
 NTS

Date: 12/19/22
 Drawn By: LM
 Checked by: SS
 SOURCE
 Goggle Earth 2022

FIGURE
 1