

N60200.AR.001178
NAS CECIL FIELD, FL
5090.3a

LETTER OF TRANSMITTAL AND SPECIAL USE PERMIT FOR WATER QUALITY
MONITORING AND INSTALLATION AND CONSTRUCTION OF MONITORING WELL AT F-18
CRASH SITE NAS CECIL FIELD FL
11/12/1997
U S DEPARTMENT OF AGRICULTURE



United States
Department of
Agriculture

Forest
Service

Seminole
Ranger
District

40929 State Road 19
Umatilla, Florida 32784
(352) 669-3153

File Code: 1580

Date: November 12, 1997

Route To:

Subject: Special Uses

To: Commanding Officer Bryan Kizer, Code 1842
SOUTHNAVFACENGCOM
North Charleston, SC 29419-0068

Enclosed is your approved copy of a Special Use Permit issued to Department of Navy, Southern Division Naval Facilities Engineering Command, c/o Commanding Officer Bryan Kizer to conduct water quality monitoring and the installation and construction of one monitoring well. Please review and keep for your records.

If you have any questions, please contact Donna Grosz at the above address or telephone number.

JIM THORSEN
District Ranger

Enclosure



Commander Kizer

U. S. DEPARTMENT OF AGRICULTURE Forest Service SPECIAL-USE PERMIT Authority: <u>Organic Administrative Act</u> <u>Act of June 4, 1897</u>	Holder No.	Issue Date	Expir. Date
	-----	-- / -- / --	<u>1 1/0 1/0 2</u>
	Type Site(s)	Authority	Auth. Type
	--- <u>9 4 2</u>	--- <u>2</u>	--- <u>2 2</u>
	Region/Forest/District	State/County	
	<u>0 8 / 0 5 / 0 5</u>	<u>1 2 / 0 8 3</u>	
	Cong. Dist.	Latitude	Longitude
	--	-----	-----

SOUTHNAVFACENGCOM
 c/o Commanding Officer Bryan Kizer of Dept. of Navy, Southern Division
 (Holder Name) P.O. Box 190010; N. Charleston, SC 29419-9010
 (Billing Address - 1)

Commanding Officer Bryan Kizer, Code 1842
SOUTHNAVFACENGCOM North Charleston South Carolina 29419-0068
 (Billing Address - 2) (City) (State) (Zip Code)

(hereinafter called the Holder) is hereby authorized to use or occupy National Forest System lands, to use subject to the conditions set out below, on the Ocala National Forest.

This permit covers 1 acres and/or ---- and is described as Section 33, Township 16 South, Range 25 East as shown on the location map attached to and made a part of this permit, and is issued for the purpose of:

To conduct water quality monitoring at the established site. Monitoring will be done one day each quarter of the year. The installation and construction of one monitoring well as described in Exhibit 3.

Exhibit 1: Mitigating Measures Exhibit 2: Well Location Maps
Exhibit 3: Well Installation and Construction Plans

The above described or defined area shall be referred to herein as the "permit area".

TERMS AND CONDITIONS

I. AUTHORITY AND GENERAL TERMS OF THE PERMIT

A. Authority. This permit is issued pursuant to the authorities enumerated at Title 36, Code of Federal Regulations, Section 251 Subpart B, as amended. This permit, and the activities or use authorized, shall be subject to the terms and conditions of the Secretary's regulations and any subsequent amendment to them.

B. Authorized Officer. The authorized officer is the Forest Supervisor or a delegated subordinate officer.

C. License. This permit is a license for the use of federally owned land and does not grant any permanent, possessory interest in real property, nor shall this permit constitute a contract for purposes of the Contract Disputes Act of 1978 (41 U.S.C. 611). Loss of the privileges granted by this permit by revocation, termination, or suspension is not compensable to the holder.

D. Amendment. This permit may be amended in whole or in part by the Forest Service when, at the discretion of the authorized officer, such action is deemed necessary or desirable to incorporate new terms, conditions, and stipulations as may be required by law, regulation, land management plans, or other management decisions.

E. Existing Rights. This permit is subject to all valid rights and claims of third parties. The United States is not liable to the holder for the exercise of any such right or claim.

F. Nonexclusive Use and Public Access. Unless expressly provided for in additional terms, use of the permit area is not exclusive. The Forest Service reserves the right to use or allow others to use any part of the permit area, including roads, for any purpose, provided, such use does not materially interfere with the holder's authorized use. A final determination of conflicting uses is reserved to the Forest Service.

G. Forest Service Right of Entry and Inspection. The Forest Service has the right of unrestricted access of the permitted area or facility to ensure compliance with laws, regulations, and ordinances and the terms and conditions of this permit.

H. Assignability. This permit is not assignable or transferable. If the holder through death, voluntary sale or transfer, enforcement of contract, foreclosure, or other valid legal proceeding ceases to be the owner of the improvements, this permit shall terminate.

I. Permit Limitations. Nothing in this permit allows or implies permission to build or maintain any structure or facility, or to conduct any activity unless specifically provided for in this permit. Any use not specifically identified in this permit must be approved by the authorized officer in the form of a new permit or permit amendment.

II. TENURE AND ISSUANCE OF A NEW PERMIT

A. Expiration at the End of the Authorized Period. This permit will expire at midnight on NOVEMBER 1, 2002. Expiration shall occur by operation of law and shall not require notice, any decision document, or any environmental analysis or other documentation.

B. Construction. Any construction authorized by this permit may commence by NOVEMBER 1, 1997 and shall be completed by NOVEMBER 30, 1998. If construction is not completed within the prescribed time, this permit may be revoked or suspended.

C. Minimum Use or Occupancy of the Permit Area. Use or occupancy of the permit area shall be exercised at least 4 days each year, unless otherwise authorized in writing under additional terms of this permit.

D. Notification to Authorized Officer. If the holder desires issuance of a new permit after expiration, the holder shall notify the authorized officer in writing not less than six (6) months prior to the expiration date of this permit.

E. Conditions for Issuance of a New Permit. At the expiration or termination of an existing permit, a new permit may be issued to the holder of the previous permit or to a new holder subject to the following conditions:

1. The authorized use is compatible with the land use allocation in the Forest Land and Resource Management Plan.
2. The permit area is being used for the purposes previously authorized.
3. The permit area is being operated and maintained in accordance with the provisions of the permit.
4. The holder has shown previous good faith compliance with the terms and conditions of all prior or other existing permits, and has not engaged in any activity or transaction contrary to Federal contracts, permits, laws, or regulation.

F. Discretion of Forest Service. Notwithstanding any provisions of any prior or other permit, the authorized officer may prescribe new terms, conditions, and stipulations when a new permit is issued. The decision whether to issue a new permit to a holder or successor in interest is at the absolute discretion of the Forest Service.

II. RESPONSIBILITIES OF THE HOLDER

A. Compliance with Laws, Regulations, and other Legal Requirements. The holder shall comply with all applicable Federal, State, and local laws, regulations, and standards, including but not limited to, the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., the Resource Conservation and Recovery Act, 42 U.S.C. 6901 et seq., the Comprehensive Environmental Response, Control, and Liability Act, 42 U.S. C. 9601 et seq., and other relevant environmental laws, as well as public health and safety laws and other laws relating to the siting, construction, operation, and maintenance of any facility, improvement, or equipment on the property.

B. Plans. Plans for development, layout, construction, reconstruction, or alteration of improvements on the permit area, as well as revisions of such plans, must be prepared by a qualified individual acceptable to the authorized officer and shall be approved in writing prior to commencement of work. The holder may be required to furnish as-built plans, maps, or surveys, or other similar information, upon completion of construction.

C. Maintenance. The holder shall maintain the improvements and permit area to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the authorized officer and consistent with other provisions of this authorization. If requested, the holder shall comply with inspection requirements deemed appropriate by the authorized officer.

D. Hazard Analysis. The holder has a continuing responsibility to identify all hazardous conditions on the permit area which would affect the improvements, resources, or pose a risk of injury to individuals. Any non-emergency actions to abate such hazards shall be performed after consultation with the authorized officer. In emergency situations, the holder shall notify the authorized officer of its actions as soon as possible, but not more than 48 hours, after such actions have been taken.

E. Change of Address. The holder shall immediately notify the authorized officer of a change in address.

F. Change in Ownership. This permit is not assignable and terminates upon change of ownership of the improvements or control of the business entity. The holder shall immediately notify the authorized officer when a change in ownership or control of business entity is pending. Notification by the present holder and potential owner shall be executed using Form FS-2700-3, Special Use Application and Report, or Form FS-2700-3a, Request for Termination of and Application for Special-Use Permit. Upon receipt of the proper documentation, the authorized officer may issue a permit to the party who acquires ownership of, or a controlling interest in, the improvements or business entity.

IV. LIABILITY

For purposes of this section, "holder" includes the holder's heirs, assigns, agents, employees, and contractors.

A. The holder assumes all risk of loss to the authorized improvements.

B. The holder shall indemnify, defend, and hold the United States harmless for any violations incurred under any such laws and regulations or for judgments, claims, or demands assessed against the United States in connection with the holder's use or

occupancy of the property. The holder's indemnification of the United States shall include any loss by personal injury, loss of life or damage to property in connection with the occupancy or use of the property during the term of this permit. Indemnification shall include, but is not limited to, the value of resources damaged or destroyed; the costs of restoration, cleanup, or other mitigation; fire suppression or other types of abatement costs; third party claims and judgments; and all administrative, interest, and other legal costs. This paragraph shall survive the termination or revocation of this authorization, regardless of cause.

C(3). Damage to National Forest Interests, Property, or Resources. The holder, as an agency of the United States, is limited by Federal law as to the assumption of liability for its acts or omissions. The holder does agree, within its legal limitations, and limitations of appropriations, to be responsible for all costs of damages and injury to persons, personal property, and land caused by its operations and activities under the terms of this permit. The holder further agrees, to the extent legally permissible, to use its appropriations and resources as required to pay any awards or claims, and to repair damages to the land within the permit area. It is the intent of this provision that the appropriations of the Forest Service be shielded from burdens, other than administrative costs, which may occur as a result of the activities by the holder under the terms of this permit.

D. In the event of any breach of the conditions of this authorization by the holder, the Authorized Officer may, on reasonable notice, cure the breach for the account at the expense of the holder. If the Forest Service at any time pays any sum of money or does any act which will require payment of money, or incurs any expense, including reasonable attorney's fees, in instituting, prosecuting, and/or defending any action or proceeding to enforce the United States rights hereunder, the sum or sums so paid by the United States, with all interests, costs and damages shall, at the election of the Forest Service, be deemed to be additional fees hereunder and shall be due from the holder to the Forest Service on the first day of the month following such election.

E. With respect to roads, the holder shall be proportionally liable for damages to all roads and trails of the United States open to public use caused by the holder's use to the same extent as provided above, except that liability shall not include reasonable and ordinary wear and tear.

F. The Forest Service has no duty to inspect the permit area or to warn of hazards and, if the Forest Service does inspect the permit area, it shall incur no additional duty nor liability for identified or non-identified hazards. This covenant may be enforced by the United States in a court of competent jurisdiction.

V. TERMINATION, REVOCATION, AND SUSPENSION

A. General. For purposes of this permit, "termination", "revocation", and "suspension" refer to the cessation of uses and privileges under the permit.

"Termination" refers to the cessation of the permit under its own terms without the necessity for any decision or action by the authorized officer. Termination occurs automatically when, by the terms of the permit, a fixed or agreed upon condition, event, or time occurs. For example, the permit terminates at expiration. Terminations are not appealable.

"Revocation" refers to an action by the authorized officer to end the permit because of noncompliance with any of the prescribed terms, or for reasons in the public interest. Revocations are appealable.

"Suspension" refers to a revocation which is temporary and the privileges may be restored upon the occurrence of prescribed actions or conditions. Suspensions are appealable.

B. Revocation or Suspension. The Forest Service may suspend or revoke this permit in whole or part for:

1. Noncompliance with Federal, State, or local laws and regulations.
2. Noncompliance with the terms and conditions of this permit.
3. Reasons in the public interest.
4. Abandonment or other failure of the holder to otherwise exercise the privileges granted.

C. Opportunity to Take Corrective Action. Prior to revocation or suspension for cause pursuant to Section V (B), the authorized officer shall give the holder written notice of the grounds for each action and a reasonable time, not to exceed 90 days, to complete the corrective action prescribed by the authorized officer.

D. Removal of Improvements. Prior to abandonment of the improvements or within a reasonable time following revocation or termination of this authorization, the holder shall prepare, for approval by the authorized officer, an abandonment plan for the permit area. The abandonment plan shall address removal of improvements and restoration of the permit area and prescribed time frames for these actions. If the holder fails to remove the improvements or restore the site within the prescribed time period, they become the property of the United States and may be sold, destroyed or otherwise disposed of without any liability to the United States. However, the holder shall remain liable for all cost associated with their removal, including costs of sale and impoundment, cleanup, and restoration of the site.

VI. FEES

A. Termination for Nonpayment. This permit shall automatically terminate without the necessity of prior notice when land use rental fees are 90 calendar days from the due date in arrears.

Fees for this use have been exempted or waived in full pursuant to 36 CFR 251.57, or revisions thereto, and direction in FSH 2709.11, chapter 30.

C. Payment Due Date. The payment due date shall be the close of business on N/A of each calendar year payment is due. Payments due the United States for this use shall be deposited at TT-05 Unit Collection Officer, FS; Southern Region; P.O. Box 60000, File No. 41658; San Francisco, CA 94160-1658 in the form of a check, draft, or money order payable to "Forest Service, USDA." Payments shall be credited on the date received by the designated Forest Service collection officer or deposit location. If the due date for the fee or fee calculation statement falls on a non workday, the charges shall not apply until the close of business on the next workday.

D. Late Payment Interest. Pursuant to 31 USC 3717, and regulations at 7 CFR Part 3, Subpart B, and 4 CFR Part 102, an interest charge shall be assessed on any payment or financial statement not received by the due date. Interest shall be assessed using the most current rate prescribed by the United States Department of Treasury's Financial Manual (TFM-6-8020). Interest shall accrue from the date the payment or financial statement was due. In the event that two or more billings are required for delinquent accounts, administrative costs to cover processing and handling of the delinquent debt will be assessed.

E. Additional Penalties. In the event of permit termination pursuant to provisions VI (A), and prior to the issuance of a new permit, a penalty of 6 percent per year shall be assessed on any fee amount overdue in excess of 90 days from the payment due date. This penalty shall accrue from the due date of the first billing or the date the fee calculation financial statement was due. The penalty is in addition to interest and any other charges specified in the above paragraph.

F. Disputed Fees. Disputed fees are due and payable by the due date. No appeal of fees will be considered by the Forest Service without full payment of the disputed amount. Adjustments, if necessary, will be made in accordance with settlement terms or appeal decision.

1. Delinquent Fees.

1. Delinquent fees and other charges shall be subject to all rights and remedies afforded the United States pursuant to Federal law and implementing regulations (31 U.S.C. 3711 et seq.).

2. The authorized officer shall require payment of fees owed the United States under any Forest Service authorization before issuance of a new permit.

VII. OTHER PROVISIONS

A. Members of Congress. No Member of or Delegate to Congress or Resident Commissioner shall benefit from this permit either directly or indirectly, except when the authorized use provides a general benefit to a corporation.

B. Appeals and Remedies. Any discretionary decisions or determinations by the authorized officer are subject to the appeal regulations at 36 CFR 251, Subpart C, or revisions thereto.

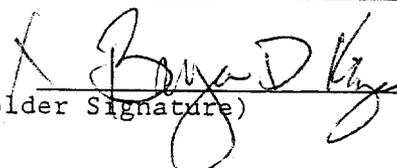
C. Superior Clauses. In the event of any conflict between any of the preceding printed clauses or any provision thereof and any of the following clauses or any provision thereof, the preceding printed clauses shall control.

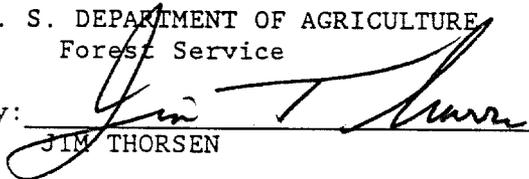
This permit is accepted subject to the conditions set out above.

Commanding Officer

OLDER NAME: Byran Kizer

U. S. DEPARTMENT OF AGRICULTURE
Forest Service

By: 
(Holder Signature)

By: 
JIM THORSEN

(Holder Signature)

District Ranger
(Title)

Date: X 11/3/97

Date: 11-7-97

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0082.

Is information is needed by the Forest Service to evaluate requests to use National Forest System lands and manage those lands to protect natural resources, administer the use, and ensure public health and safety. This information is required to obtain or retain a benefit. The authority for that requirement is provided by the Organic Act of 1897 and the Federal Land Policy and Management Act of 1976, which authorize the Secretary of Agriculture to promulgate rules and regulations for authorizing and managing National Forest System lands. These statutes, along with the Term Permit Act, National Forest Ski Area Permit Act, Granger-Thye Act, Mineral Leasing Act, Alaska Term Permit Act, Act of September 3, 1954, Wilderness Act, National Forest Roads and Trails Act, Act of November 16, 1973, Archeological Resources Protection Act, and Alaska National Interest Lands Conservation Act, authorize the Secretary of Agriculture to issue authorizations for the use and occupancy of National Forest System lands. The Secretary of Agriculture's regulations at 36 CFR Part 251, Subpart B, establish procedures for issuing those authorizations.

The Privacy Act of 1974 (5 U.S.C. 552a) and the Freedom of Information Act (5 U.S.C. 552) govern the confidentiality to be provided for information received by the Forest Service.

Public reporting burden for collection of information, if requested, is estimated to average 1 hour per response for annual financial information; average 1 hour per response to prepare or update operation and/or maintenance plan; average 1 hour per response for inspection reports; and an average of 1 hour for each request that may include such things as reports, logs, facility and user information, sublease information, and other similar miscellaneous information requests. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB # 0596-0082), Washington, D.C. 20503.

1. Holder shall take all measures necessary to protect the health and safety of all persons affected by its activities performed in connection with the construction, operation, maintenance, or termination of the right-of-way, and shall promptly abate as completely as possible any physical or mechanical procedure, activity, event, or condition, existing or occurring at any time: (1) that is susceptible to abatement by the holder, (2) which arises out of, or could adversely affect the construction, operation, maintenance, or termination of all or any part of the water quality monitoring stations, and (3) that causes or threatens to cause: (a) a hazard to the safety of workers or to public health or safety, or (b) serious and irreparable harm of damage to the environment (including but not limited to areas of vegetation or timber, fish or other wildlife populations, or their habitats, or any other natural resource). Holder shall immediately notify the authorized officer of all serious accidents which occur in connection with such activities.
2. This permit is contingent upon the instation layout and development plans as submitted by the holder and approved as a part of this permit for this specific location. Any and all subsequent relocations, alterations, revisions, additions, construction, or reconstruction of houseing and mointing facilities, including antenna towers or masts, shall require advance notification and approval of the forest Service and advance modification of this permit.
3. The holder shall pack out or otherwise remove from National Forest lands and waters all refuse resulting from operations under this permit.

The holder shall protect the scenic esthetic values of the area under this permit, and the adjacent land, as far as possible with the authorized use, during construction, operation, and maintenance of the improvements.
5. The holder will take reasonable measures to prevent and discourage vandalism or disorderly conduct, and when necessary, will call in the appropriate law enforcement officer.
6. Holder shall be responsible for prevention and control of soil erosion and gulying on lands covered by this permit and adjacent thereto, resulting form construction, operation, maintenance, and termination of the permitted use. Holder shall so construct permitted improvements to avoid the accumulation of excessive heads of water and to avoid encroachment on streams. Holder shall revegetate or otherwise stabilize all ground where the soil has been exposed and shall construct and maintain necessary preventive measures to supplement the vegetation.
7. The holder shall take reasonable precautions to prevent pollution of or deterioration of lands or waters which may result from the exercise of the privileges extended by this permit. In particular, the holder shall at all times comply with applicable local, State, and Federal requirements for pollution abatement. Failure of the holder to comply may result in termination or suspension of this authorization.
8. Unless sooner terminated or revoked by the authorized officer, in accordance with the provisions of the authorization, this authorization shall expire and become void on November 1, 2002, but a new special-use authorization to occupy and use the same National Forest System land may be granted provided the holder will comply with the then-existing laws and

regulations governing the occupancy and use of National Forest lands and shall have notified the authorized officer not less than three months prior to said date that such new authorization is desired.

9. Nothing in this permit shall be construed to imply permission to build or maintain any structure not specifically named on the face of this permit, or approved by the authorized officer in the form of a new permit or permit amendment.
10. The holder agrees to permit the free and unrestricted access to and upon the premises at all times for all lawful and proper purposes not inconsistent with the intent of the permit or with the reasonable exercise and enjoyment by the holder of the privileges thereof.
11. This permit is granted with the express understanding that should future location of United States Government-owned improvements or road rights-of-way require the relocation of the holder's improvements, such relocation will be done by, and at the expense of, the holder within a reasonable time as specified by the authorized officer.
12. Disorderly or otherwise objectionable conduct by the holder or those occupying the premises with permission shall upon proof thereof, be cause for termination of this permit.
13. This permit is not exclusive; that is, the Forest Service reserves the right to use or permit others to use any part of the permitted area for any purpose, provided such use does not interfere with the rights and privileges hereby authorized.
14. The holder agrees that, if treasure or other antiquities are found:
 1. Excavation will cease at the instant of discovery and the Forest Service will be notified so that scientific examination may be made. Excavation will not resume until approval is given in writing by the Forest Service.
 2. This permit confers no ownership rights to the treasure. All specimens found will be held in safekeeping for one (1) year while ownership is established by applicable law. Such period will be used to establish the value, for claimants to come forward, and to negotiate or adjudicate ownership.
 3. The United States as the landowner has a valid claim for all or a share of the treasure trove buried on its property. In addition, if specimens found are other than money, unmounted gems, or precious metals in the form of coin, plate, or bullion, the United States may claim all of it under the Antiquities Act (16 USC 432). It is agreed that any such claims will be settled as in item 2.
15. This permit confers no right to the use of water by the holder.
16. In order to protect the interests of the United States and the public, the issuing officer reserves the right to inspect the permitted use area and improvements thereon at any time for compliance with the terms of this authorization. If the authorized officer determines that the Holder is not

complying with the terms of this authorization and that such noncompliance by the Holder may result in endangering the safety and welfare of the users of the authorized area and improvements thereon, he may suspend use or occupancy by the Holder of any part of all of the authorized areas or improvements thereon by notifying the Holder of such suspension in writing. Such notice of suspension will specify a specific period of time within which the Holder will be required to cease and desist from any such noncompliance with the terms of this authorization. Any such suspension effected by the authorized officer will not operate to relieve the Holder from any obligation and responsibilities arising under the other terms of this authorization.

17. Appeal of any provisions of this authorization or any requirements thereof shall be subject to the appeal regulations at 36 CFR 251, Subpart C, or revisions thereto.

EXHIBIT 1

Mitigating Measures

Mitigating Measures

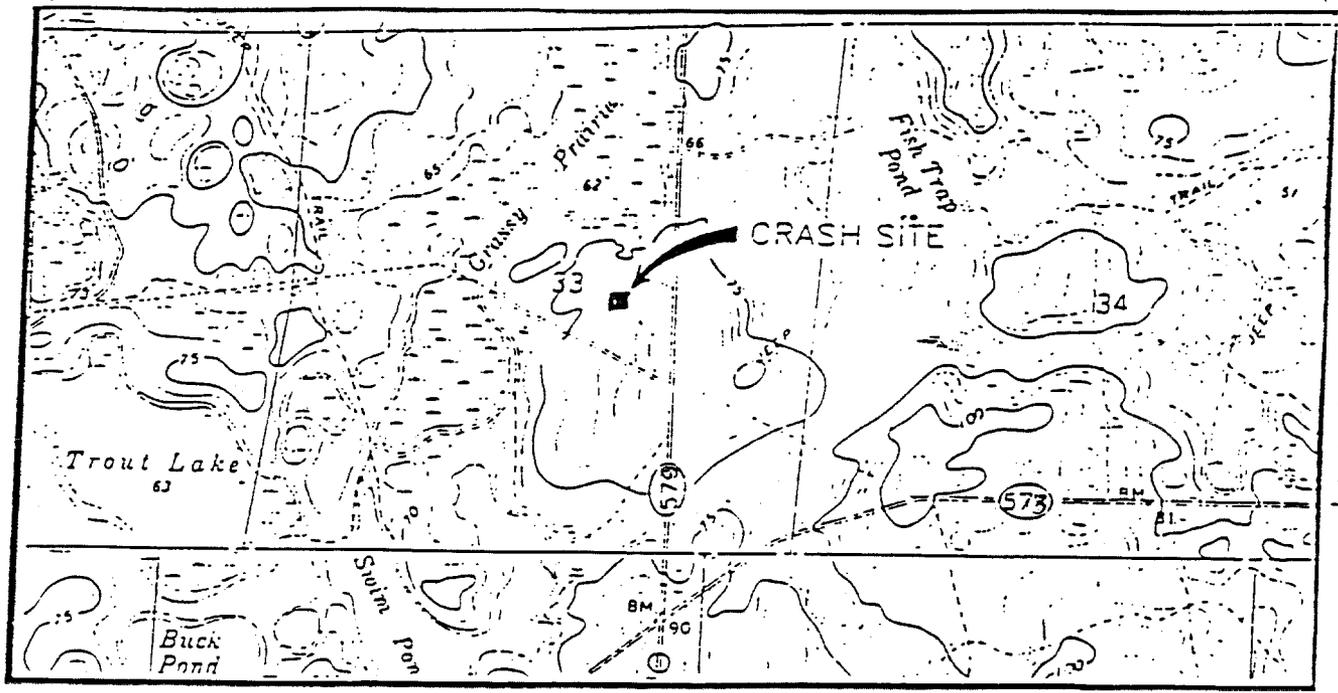
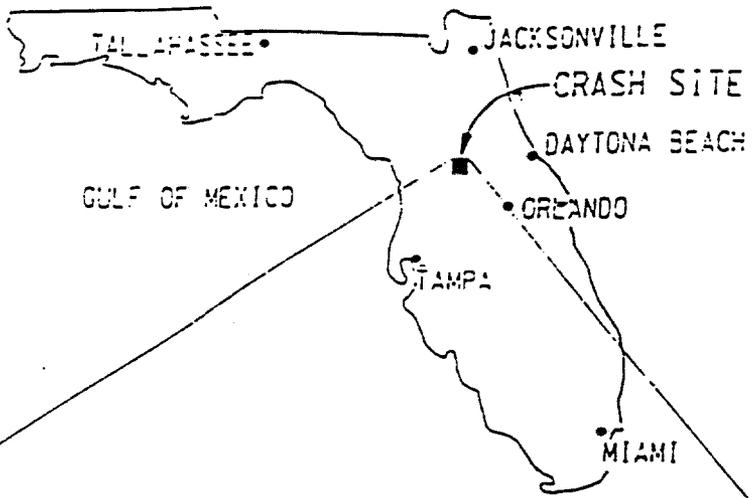
1. The access road used to monitor the well will be restored to its original condition and blocked after well has been installed.
2. The road will be reseeded with Bahia Grass seed prior to completing road closure.
3. When monitoring the well, the person monitoring should have the Special Use Permit with them at all times as proof of authorization.
4. Once monitor testing is completed, the well will be capped off permanently.
5. When monitoring is completed on a scheduled basis, one copy of the monitoring report will be sent to the Seminole Ranger District at the address below:

Ranger Jim Thorsen
Seminole Ranger District
40929 State Road 19
Umatilla, FL 32784
(352) 669-3153

6. When well installation begins, contact District Ranger for schedule of work and coordination.

EXHIBIT 2

Well Location Maps



6.4 MILES TO
 STATE HIGHWAY 19

5.3 MILES TO
 STATE HIGHWAY 42

TAKEN FROM:
 LAKE MARY QUADRANGLE
 FLORIDA - MARION COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC) 1980

NOT TO SCALE

FIGURE 2
 LOCATION MAP

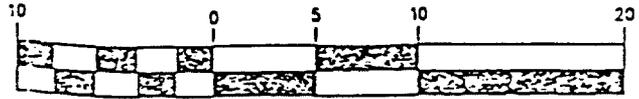


SUBSURFACE ASSESSMENT
 OF F-18 CRASH SITE

NAS CEDIL FIELD
 JACKSONVILLE, FLORIDA

CEF-CS4 

GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.



WELL TABLE

MONITOR WELL ID.	NORTHING EASTING	ELEVATIONS
CEF-CS1A	N 1717448.3765 E 397035.7551	TOP - 81.30' CONC. - 79.73'
CEF-CS2	N 1717416.4544 E 397090.3622	TOP - 83.54' CONC. - 80.73'
CEF-CS3	N 1717462.4544 E 39704.7153	TOP - 80.98' CONC. - 78.54'
CEF-CS4	N 1717485.5863 E 396585.9010	TOP - 79.88' CONC. - 77.34'
CEF-CS5	N 1717454.2838 E 396974.5575	TOP - 80.66' CONC. - 77.77'
CEF-CS6	N 1717443.2801 E 397031.4310	TOP - 81.59' CONC. - 79.07'

 CEF-CS5

Legend

CEF-CS4 

MONITORING WELL LOCATION



LIMITS OF EXCAVATION

 CEF-CS2



B26

SAMPLE GRID



CEF-CS7 PROPOSE MONITORING WELL

tel Environmental, Inc.

F-18 CRASH SITE MAP
NATIONAL FOREST, FLORIDA

DRAWING No.: 22567-22b-01

DATE: 5-9-96

REVISION: 0

NOTES:

1.) ELEVATIONS SHOWN HEREON
NATIONAL GEODETIC VERTIC.

EXHIBIT 3

Well Installation and Construction Plans



TYPICAL WELL CONSTRUCTION DETAILS

22567-223 F-18 Ocala

WELL NO. CEF-05-3
SHEET NO. 1 OF 1
HOLE SIZE 12" DIA
NO. OF WELLS COMPLETED 3
NO. OF HOLES UPGRATE 55'
DATE

SITE AND LOCATION
F-18 CRASH SITE Ocala NATIONAL FOREST FL

COORDINATES N: 1717462.7653
E: 397014.7193

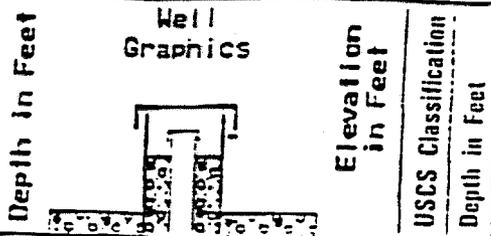
LOGGED BY:
S. SANTAMARIA

GROUND WATER DEPTH / ELEVATION
118.65 TO 62.39'

CHECKED BY:
B. NORTON

DRILLER / DRILLING METHOD
WATER PROTECTION INC. HELIX STEM AUGER
TOP OF RISER CASING / GROUND
81.04' / 79.54'

Well Construction Details



Geologic Description and Classification

SURFACE COMPLETION

Dis. & Type: 6" X 6" ALUMINUM PROTECTOR
Bottom Depth = 2.0 ft.

CONDUCTOR CASING

Dis. & Type: N/A
Bottom Depth = ___ ft.

GROUT SEAL

Type: PORTLAND / 5% BENTONITE

RISER CASING

Dis. & Type: 2" SCH 40 PVC

CENTRALIZERS (above screen) N/A
= ___ ft.

BENTONITE SEAL

Top of Seal = 12.5 ft.
Type: PURE GOLD PELLETS

FILTER PACK

Top of Filter Pack = 14.5 ft.
Type: SILICA SAND 15/30

SCREEN

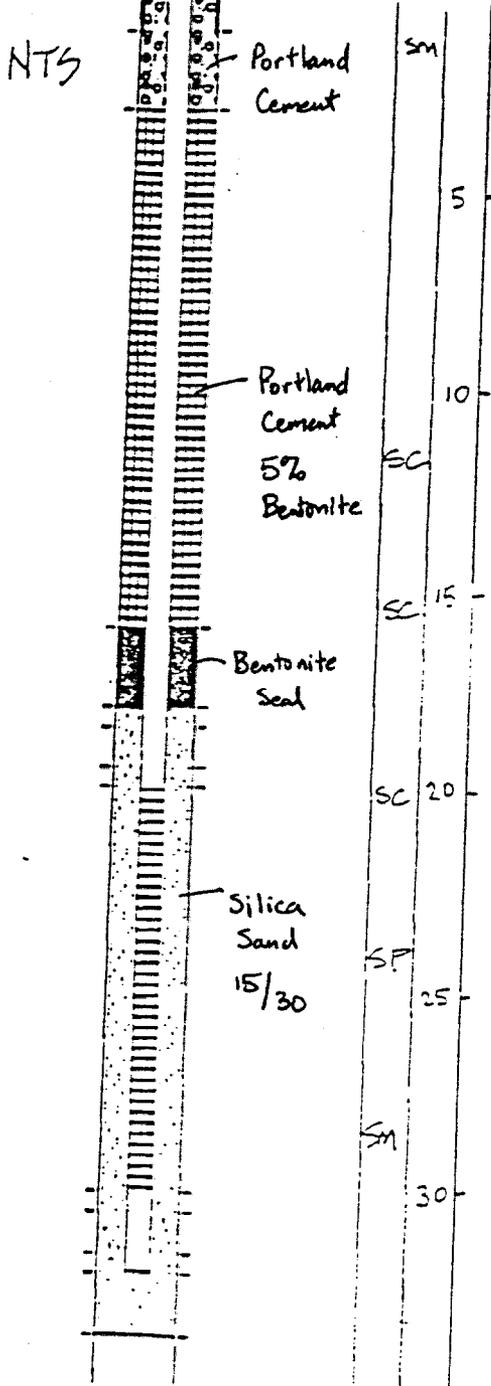
Top of Screen = 16.5 ft.
Dis. & Type: 2" SCH 40 PVC
Slot Size & Type: .01 MILLED
Bottom of Screen = 31.5 ft.

CENTRALIZER (below screen)

Depth = ___ ft. N/A

SUMP

Dis. & Type: N/A
Bottom of Sump = 32.0 ft.



0-11.0': SACKFILL MATERIAL
11.0-14.5': LIGHT TAN CLAYEY SAND, VERY FINE - COARSE GRAIN, DENSE, MOIST, TRACE ROOT AND WOOD FRAGMENTS
14.5-20.8': TAN CLAYEY SAND, MEDIUM - COARSE GRAIN, DENSE, WET AT 19.4'
20.8-21.4': WHITE CLAYEY SAND, VERY FINE - MEDIUM GRAIN, TRACE SILT, DENSE, WET
21.4-25.6': WHITE - TAN SAND, FINE - MEDIUM GRAIN, TRACE SILT, TRACE FINE GRAVEL, DENSE, WET
25.6-33.0': WHITE SILTY SAND, VERY FINE - FINE GRAIN, DENSE, WET

DRILLER WATER PROTECTION INC - JAMES HINST	DRILL MAKE AND MODEL BRUNNARD 411MAN 91	HOLE SIZE 12"	SAMPLE HAMMER WEIGHT/FALL 140# / 30"	HOLE NO. CEF-05-3
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FIGURE 1