

N60508.AR.000512
NAS WHITING FIELD
5090.3a

PERMIT FOR THE INSTALLATION OF GRANULAR ACTIVATED CARBON ABSORPTION
SYSTEM AT THE WEST WATER WELLS NAS WHITING FIELD FL
9/15/1987
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

18.01.00.0028

00771

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

11417 NE
9/30

File: P3
NRS Whiting

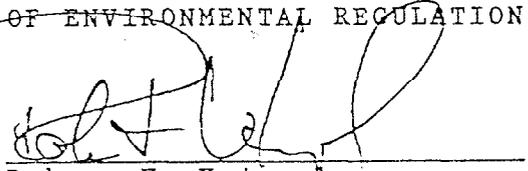
LCDR J. D. Mac Farquhar, CEC, USN
Public Works Officer
Naval Air Station Whiting Field
Milton, Florida 32570-5000

Enclosed is Permit Number WC57-137136 to install a granular activated carbon (GAC) absorption system (GAC) for the West Well at the Naval Air Station Whiting Field, issued pursuant to Section 403.861, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Robert V. Krueger
District Manager

160 Governmental Center
Pensacola, Florida 32501-5794
(904)436-8300

Copies furnished to:

E. F. Hubacker, P.E.
Santa Rosa County Health Unit
Attachments
DER Form Perm 11-42
DER Form 17-1.201(5)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on September 15 1987 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to §120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Yvonne A. Bullock
Clerk

9-15-87
Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHWEST DISTRICT
160 GOVERNMENTAL CENTER
PENSACOLA, FLORIDA 32501-5794



BOB MARTINEZ
GOVERNOR
DALE TWACHTMAN,
SECRETARY
ROBERT V. KRIEGER,
DISTRICT MANAGER

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489
Permit/Certification Number: WC57-137136
Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988
County: Santa Rosa
Latitude/Longitude: 30°41'57"N/87°01'35"W
Section/Township/Range: N/A
Project: Granular Activated Carbon (GAC)
Absorption System for the West
Well

This permit is issued under the provisions of Chapter 403.861, Florida Statutes, and Florida Administrative Code Rules 17-4 and 17-22. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown of the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Install a granular activated carbon (GAC) absorption system on the West Well of the public water system owned and operated by the Naval Air Station Whiting Field (PWS ID No. 1570489) for the removal of trichlorethylene (TCE) and other volatile organic contaminants (VOCs). Also included are other necessary valves, fittings and appurtenances.

The installation shall be in accordance with the approved plans and specifications as prepared and submitted by E. F. Hubacker, P.E.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of this permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. A description of and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurement;
 - the person responsible for performing the sampling or measurement;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

GENERAL CONDITIONS:

14. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

15. To insure maintenance/operator personnel safety, Permittee shall affix permanent sign, or paint on the filter body shell near the access manway, a restricted sign with the following legend:

WARNING

DO NOT ENTER WITHOUT
AIR SUPPLY MASK OR
SELF CONTAINED BREATHING
APPARATUS. INTERIOR DOES NOT
CONTAIN ADEQUATE OXYGEN
ATMOSPHERE TO SUSTAIN LIFE

The sign is to be in contrasting safety colors: Yellow - Black - Red.

16. Permittee shall submit to the Department for review and approval within forty-five (45) days after issuance of this permit, a comprehensive operators/maintenance manual whose contents shall include:

- a. Description of system operations.
- b. Filter unit operating sequence procedures to startup, operate, back flush and drain.
- c. Specifications for activated carbon media.
- d. Procedures for filling new media in the vessel.
- e. Procedures for removing spent media from the vessel.

17. Modified Water supply facilities, including mains, shall be installed, cleaned, disinfected, and bacteriologically cleared for service in accordance with the latest applicable AWWA standards and Department rules and regulations.

18. For initial filter startup, analysis and thereafter, when filter media is changed, the well shall pump thru the filter to the storm sewer for two (2) hours prior to taking samples.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

SPECIFIC CONDITIONS:

19. A request to clear the system for the initial operation startup shall be submitted to the Department for approval within thirty (30) days of completion of construction, testing and disinfection.

This approval will be granted upon:

a. Receipt of certification by a registered professional engineer as to construction in accordance with the approved plans and specifications and compliance with Section 17-22.106, Florida Administrative Code; and,

b. Receipt of two (2) TCE analysis sets from the filter, made at 4 hour intervals (with treated water product still flushed to waste) with resulting treated water product TCE level is equal to or less than 1.8 ug/l.

20. Conditions 18 and 19 shall be repeated for the filter body before putting the filter into service and after each change of GAC materials or if the test results from Specific Condition 19.b. exceed 1.8 ug/l. Under no circumstances will treated water that exceeds 2.8 ug/l be introduced into the potable water distribution system.

21. Permittee shall sample influent and effluent from the filter for TCE. Five sample taps are to be provided on each filter. These are to be installed at 0, 45, 56, 67 and 100% of the carbon bed depth. (Influent to filter is at the top and corresponds to 0% level of bed depth).

a. During Initial Start-up and Test Period

- Day 1. Influent and plant effluent between two and four hours after flow established.
- Day 2. Common influent and 45% tap and 100% tap on the filter.
- Day 4. 100% tap on the filter.
- Day 6. 45% and 100% taps on the filter.
- Day 9. 100% tap on the filter.
- Day 12. 100% tap on the filter.
- Day 14. Common influent and 45% and 100% taps on the filter.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

SPECIFIC CONDITIONS:

21. (continued)

b. During Routine Operation

Every 2 weeks - influent and effluent.

Every 4 weeks - 45% tap on the filter.

This schedule is based on previously reported VOCs in the influent and is subject to adjustment based on results reported. The four-week sampling on the filter shall be moved to the next lower tap when break-through is detected.

Bacteriological analyses shall be taken concurrently with the above sampling.

The effluent (product) TCE data results shall be plotted or mathematically analyzed to statistically predict when the carbon should be removed and replaced based on gallons of water treated or calendar days of usage. As soon as the common effluent (product) water TCE level reaches a value of 1.8 ppb the routine sampling shall be increased to one per week. The Department shall be notified and consulted in order to review and approve the final stage sampling and test program.

Sampling and testing shall be in accordance with EPA Methods 601, 602 and 6234. Testing shall be performed at a laboratory certified by the Department of Health and Rehabilitative Services to perform drinking water analysis.

22. Upon receipt of effluent samples with TCE levels greater than or equal to 2.8 ug/l, the filter shall be taken out of service.

23. All P.V.C. pipe used in the distribution system shall bear the N.S.F. logo and shall meet all AWWA C-900-75 standards for 4"-12" diameter pipe.

24. The Department shall be notified and prior approval shall be obtained of any changes or revisions made during construction.

25. Permittee shall ensure that engineer provides contractor with instructions and field sketches detailing locations where concrete encased potable water pipe is required.

26. Permittee shall ensure that engineer provides location and detail of thrust and anchor blocks on potable water distribution system.

PERMITTEE:

J. D. Mac Farquhar

I.D. Number: 1570489

Permit/Certification Number: WC57-137136

Date of Issue: SEP 14 1987

Expiration Date: September 1, 1988

SPECIFIC CONDITIONS:

27. Permittee shall use necessary erosion control measures during and after construction and shall remove all construction debris prior to project completion. In addition, all surfaces disturbed by construction shall be recontoured to final grades prior to project completion. It is noted that the permit does not constitute the Department's review or approval of the stormwater aspects of the project.

28. Permittee will instruct the contractor to remove all surplus material and completely restore to good conditions, all surfaces disturbed, destroyed or removed by the contractor, or his agent, on account of construction. Before final inspection is made, all surfaces disturbed on account of this construction shall be leveled up and all surplus material and rubbish incident to the construction must be removed and disposed of and streets, ditches, sidewalks, crossings, railroad, grass plots and other property affected by the construction shall be left in good and acceptable condition.

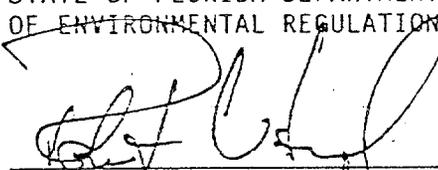
29. Permittee shall ensure that paints and protective coatings to be used on this project which will come into contact with potable water as outlined in Florida Administrative Code Rule 17-22.106(3)(b) has EPA specific approval which details any limitations. Questions as to whether a particular paint or protective coating is on the latest EPA official listing of acceptable drinking water additions can be directed to the District Potable Water Engineer at (904)436-8380. It will be necessary to provide the product name and company name when inquiring.

Expiration date:

September 1, 1988

Issued this 14th day of Sept.,
1987.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Robert V. Kriegel
District Manager