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NAS PENSACOLA  
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TRANSMITTAL LETTER AND RESPONSE TO COMMENTS FOR FINAL RECOVERY WELL  
REHABILITATION DESIGN AND PRELIMINARY MAINTENANCE PLAN INDUSTRIAL  
WASTEWATER TREATMENT PLANT NAS PENSACOLA FL  
11/30/1994  
RUST ENVIRONMENTAL & INFRASTRUCTURE INC

November 30, 1994

Mr. Tom Sailors, Code 1826  
Naval Facility Engineering Command  
Southern Division  
2155 Eagle Drive  
Charleston, SC 29419-9010

Re: Final Recovery Well Rehabilitation Design and Preliminary Maintenance Plan  
Industrial Wastewater Treatment Plant  
Naval Air Station, Pensacola, Florida  
Contract No. N62467-93-D-0662/1826/04  
RUST E & I Project No. 89656.000

Dear Mr. Sailors:

Please find enclosed two (2) copies of inserts for the Final Recovery Well Rehabilitation Design and Preliminary Maintenance Plan referenced above. Also attached is the response to comments from your letter dated October 26, 1994. This plan incorporates those comments. In addition, four (4) copies will be delivered to Mr. Kelley and two (2) copies will be delivered to Mr. Bill Taylor at the Naval Air Station in Pensacola, Florida.

Upon your review please contact me with any comments or questions.

Sincerely,



Susan B.C. Burdick  
Project Manager

lg/enc.

cc: Tom Kelley, NAS Pensacola (4)  
Bill Taylor, NAS Pensacola (2)

113094.ltr



Response to Comments Dated October 26, 1994  
Draft Recovery Well Rehabilitation Design and Preliminary Maintenance Plan

Comment

3.1 BARTS Water Samples - I would like to see the results of all test and all recommendations how to correct wells.

Response

Upon receipt of BARTS sample results and the microbiologist review, RUST E & I will submit this information to NAVFAC Southern Division.

Comment

4.0 Add Southern Division after NAVFAC.

Response

The text has been revised.

Comment

General - The QAPP should be updated if any method of sampling, testing or lab analysis changes (i.e. is different from the original QAPP).

- Comprehensive does not have to be resubmitted for approval
- A site specific QAPP does not have to be completed for this phase.
- Contact Silvia Labie (FDEP Tallahassee)  
904-488-01900

Response

In that the comprehensive QAPP does not have to be resubmitted or that the site specific QAPP does not have to be completed for this phase, the QAPP has not been revised.

RUST E & I will contact Silvia Labie (FDEP) to find out if the QAPP has to be updated for format purposes for the semi-annual sampling that is to be completed at the IWTP.

### Comment

General - Also evaluate suction and discharge piping for restricted flow. Evaluate discharge pressure vs. flow.  
- As well as well screens.

### Response

O & M inspections will also include an evaluation of the suction and discharge piping for restricted flow, as well as discharge pressure versus flow.

As stated in the Preliminary Maintenance Plan, it is also recommended that a BARTS sample be collected and submitted to Layne to monitor the effectiveness of the rehabilitation process. This information will enable RUSTE & I to generate historical data for each recovery well and to track the growth rate of the contaminants on the well screens.

### Comment

3.1  
Paragraph #3 Last sentence need to add of bacteria.

### Response

The text has been revised.

### Comment

3.1  
Paragraph #4 Please clarify 3rd sentence (what zone?) aerobic or anaerobic growth?

### Response

Once the oxygen has been used by the aerobes, this zone below the BARTS ball will become free of oxygen and anaerobic growth will dominate.

### Comment

3.2.1 Expand on what "green" chemical is.  
- What type chemical  
- Process to apply?  
- What does it do? Kill bacteria - dissolve encrustation

### Response

Well Klean II is a "green" chemical that has been extremely successful in battling encrustation problems. Well Klean II is a low pH, Organic Bio-Cleaner used as a substitute for muriatic acid for rehabilitation of water wells. It dissolves and loosens the scale from pumps, pump parts, screen, and the surrounding aquifer. It is used to break down the natural cementing that often occurs from precipitation or encrustation. The MSDS sheet is included in Appendix A of the Plan.

The cleaning chemicals are mixed with water and placed into the wells via tremie pipe. The solution is alternately agitated and then allowed to stand for a period of time. The microbiologist will recommend the appropriate volumes of chemicals and contact times per well. Upon completion of the recommended process, the chemicals will be pumped out of each well.

### Comment

3.2.2 Sodium Hypochlorite - Does it kill bacteria growth also? Dissolve products?

### Response

Sodium hypochlorite is a bleach that kills bacteria and penetrates through the growth and into the formation, loosening the growth and allowing the growth to be pumped out. The MSDS sheet is included in Appendix A of the plan.

The same process described in the preceding response is also used for sodium hypochlorite.

### Comment

3.4 H & S Plan - Will Layne be providing their own H & S plan or are they covered under yours?

If that is the case Rust employees should follow Layne's H & S plan.

### Response

As stated in the plan, the subcontractor, Layne, will be responsible for their own Health and Safety Plan. In that RUST E & I will provide supervisor personnel to monitor the rehabilitation activities and will not be directly involved in the activities, RUST E & I will continue to follow the approved Health and Safety Plan for the ground-water monitoring at the IWTP in case an emergency situation occurs.