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NAS PENSACOLA
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ERRATA PAGES FOR SIGNED FINAL RECORD OF DECISION SITE 15 WITH
TRANSMITTAL NAS PENSACOLA FL
9/7/2000
ENSAFE/ALLEN AND HOSHALL



ENSAFE INC.

ENVIRONMENTAL AND MANAGEMENT CONSULTANTS

5724 Summer Trees Drive • Memphis, Tennessee 38134 • Telephone 901-372-7962 • Facsimile 901-372-2454 • www.ensafe.com

September 7, 2000

Commander
Attn: Mr. Bill Hill, Code 1851
SOUTHNAVFACENGCOM
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Subject: Delivery of Report
CTO-083, Proposed Plans and RODs

Reference: Contract # N62467-89-D-0318, CLEAN II

Dear Mr. Hill:

EnSafe Inc. is pleased to submit two copies of the errata pages for the signed Final Record of Decision for Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), at the Naval Air Station Pensacola in Pensacola, Florida. Please replace the pages previously submitted with the pages enclosed.

If you should have any questions or need any additional information regarding the document, please do not hesitate to call me.

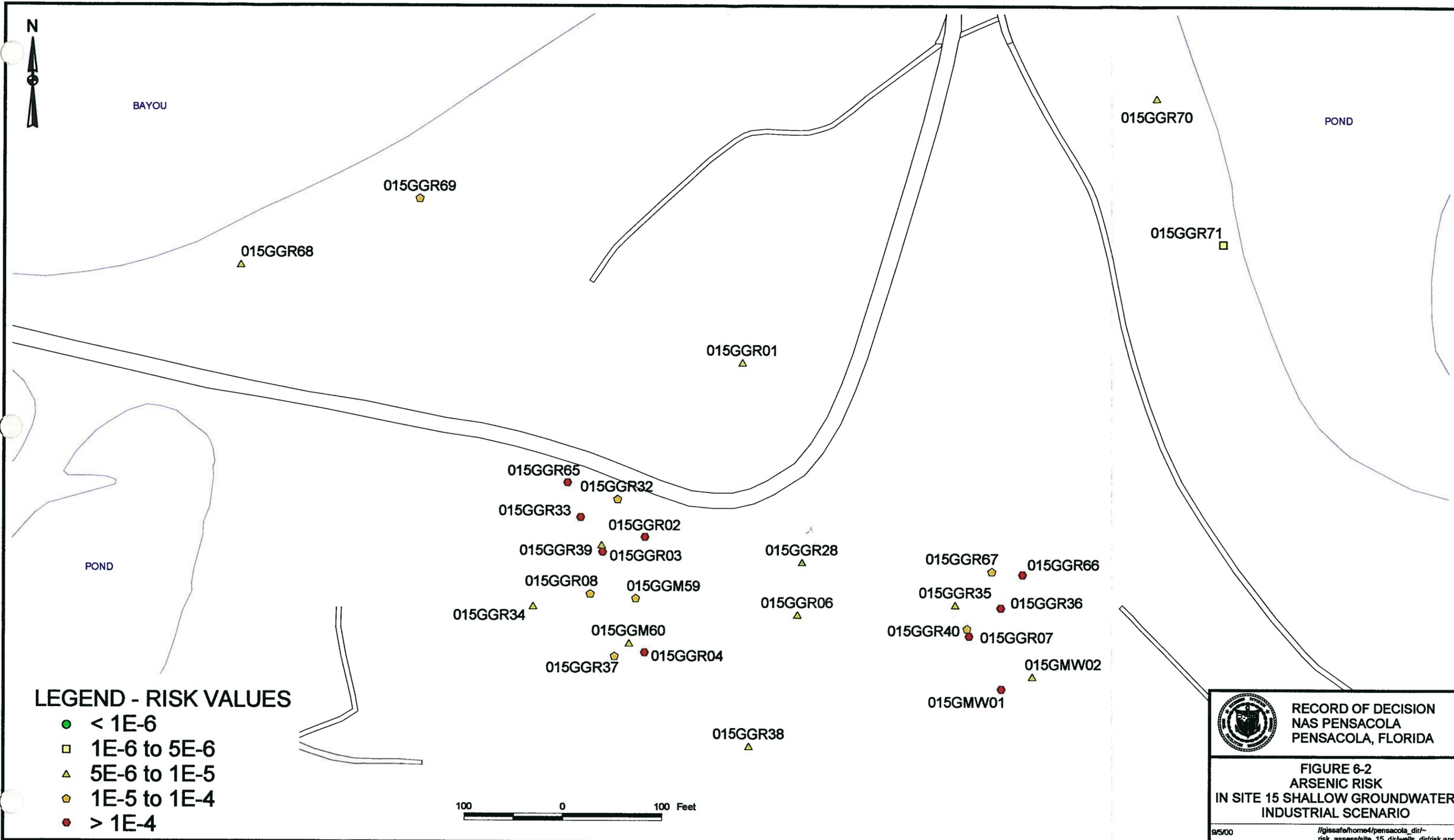
Sincerely,

EnSafe Inc.

Allison L. Harris
Task Order Manager

Enclosure: Final Record of Decision Errata Pages, Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area)

cc: Ms. Kimberly Reavis, Code 0233KR SOUTHNAVFACENGCOM without enclosure
EnSafe Inc. CTO 083 file without enclosure
EnSafe Inc. Library
EnSafe Inc. Knoxville



LEGEND - RISK VALUES

- < 1E-6
- 1E-6 to 5E-6
- ▲ 5E-6 to 1E-5
- ◆ 1E-5 to 1E-4
- > 1E-4

100 0 100 Feet


**RECORD OF DECISION
 NAS PENSACOLA
 PENSACOLA, FLORIDA**

**FIGURE 6-2
 ARSENIC RISK
 IN SITE 15 SHALLOW GROUNDWATER
 INDUSTRIAL SCENARIO**

accept groundwater from the site without pretreatment. Groundwater extraction systems with pretreatment technologies are presented as alternatives 4a and 4b.

As with Alternative 3, extraction of contaminated groundwater associated with Alternative 4 is technically and administratively feasible. Construction and operation of the ex-situ treatment units are also technically and administratively feasible and would not require any extraordinary services, materials, specialists, or innovative technologies.

8.1.2.5 Cost

The costs for the five groundwater alternatives, below in Table 8-1, are considered maximum case scenarios (i.e., if Alternative 2 reaches remedial goals in 20 years rather than 30 years, the alternatives total present worth is \$540,000 rather than \$740,000.). Because of improved housekeeping in the site area, the time to achieve cleanup goals is expected to shorten.

**Table 8-1
 Groundwater Alternatives Cost Comparison**

Cost Element	Alternative					
	1	2	3 *	4a w/ Subtitle D	4a w/ Subtitle C	4b
Capital	None	\$103,000	\$98,000	\$1,296,000	\$1,296,000	\$799,000
Annual O&M	\$10,000 (every 5 years)	\$39,000 (30 years annually)	\$84,300 (for 5 years)	\$600,300 (for 5 years)	\$610,500 (for 5 years)	\$547,340 (for 5 years)
Net Present Worth	\$24,400	\$740,000	\$603,000	\$3,824,000	\$3,867,000	\$3,105,000

Note:

* = Alternative 3 can not be implemented because discharge to the FOTW cannot occur without pretreatment of the flow. Alternatives with pretreatment include Alternatives 4a and 4b.

given that the proposed areas to be covered or excavated are easily accessible to site workers and current access controls have been reliable and will be supplemented through the LUCAP. Thus, implementing this alternative would merely involve placement of the cover, implementation of the LUCAP, and excavation and soil removal. Future monitoring and maintenance would involve visually inspecting the cover periodically and repairing any damage or degradation. However, repairs are easily implemented. Soil covering would not require any extraordinary services or materials. Offsite disposal would be required for excavated soil.

8.2.2.5 Cost

The costs for the four soil alternatives, below in Table 8-2, are considered maximum case scenarios.

Table 8-2
Soil Alternatives Cost Comparison

Cost Element	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Capital	None	\$50,000	\$230,000	\$264,800
Annual O&M	\$10,000 (every 5 years)	\$10,000 (every 5 years)	None	\$4,900 (every year for 30 years)
Net Present Worth	\$24,400	\$74,400	\$230,000	\$332,300



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015GGR67

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015GGM59

015GGR06

015GGR35

015GGR36

015GGR34

015GGM60

015GGR40

015GGR07

015GGR37

015GGR04

015GMW02

015GMW01

015GGR38

LEGEND - RISK VALUES

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100 0 100 Feet



RECORD OF DECISION
NAS PENSACOLA
PENSACOLA, FLORIDA

FIGURE 6-2
ARSENIC RISK
IN SITE 15 SHALLOW GROUNDWATER
INDUSTRIAL SCENARIO

9/5/00

//gissafe/home4/pensacola_dir/
risk_assess/site_15_dir/wells_dir/risk.apr

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September 7, 2000

U.S. Environmental Protection Agency
Attn: Ms. Gena Townsend
Atlanta Federal Center
100 Alabama Street SW
Atlanta, Georgia 30303-3104

Re: Final Record of Decision Errata Pages
Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), NAS Pensacola
Contract # N62467-89-D-0318/083

Dear Ms. Townsend:

On behalf of the Navy, EnSafe Inc. is pleased to submit three copies of errata pages for the signed Final Record of Decision for Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), at the Naval Air Station Pensacola in Pensacola, Florida.

These errata pages were completed in response to electronic mail received on August 9, 2000 from the Florida Department of Environmental Protection. Please replace the pages previously submitted with the pages enclosed. The comments and responses are presented below:

Comment 1:

Figure 6-2, Arsenic Risk in Site 15 Shallow Groundwater: This figure shows only the Phase IIIC risk (aka Figure 9-8 from Final RI). This figure would match the text on Page 37 much better if it were to include data from MWs sampled during earlier phases as well (see Figures 9-3 to 9-8 in Final RI).

Response:

Agreed. The revised figure is enclosed.

Comment 2:

Page 72, Section 8.1.2.5 Cost: In the first sentence, there is a 20 year versus 30 year cost for Alternative 2. Add a statement stating that "improved housekeeping and source removal would shorten the time to achieve cleanup goals".

Response:

A statement has been added to address the improved housekeeping in the site area and its impact on the time to achieve cleanup goals.

Comment 3:

Page 78, Section 8.2.2.5 Cost: Correct the first sentence. Cost in Table 8-2 is for four soil alternatives.

Response:

The sentence has been revised to correct reflect the four soil alternatives provided in Table 8-2.

If you should have any questions or need any additional information regarding the document, please do not hesitate to call me.

Sincerely,

EnSafe Inc.



Allison L. Harris
Task Order Manager

Enclosures

cc: Bill Hill, Code 1851 SOUTHNAVFACENGCOM without enclosure
Ron Joyner, NAS Pensacola - 3 copies
Tom Dillon, NOAA - 1 copy
EnSafe Inc. file - 1 copy
EnSafe Inc. Knoxville - 1 copy
EnSafe Inc. Library - 1 copy
Administrative Record



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September 7, 2000

John C. Pace Library
University of West Florida
Attn: Ms. Linda Boldyreff, Document Department
11000 University Parkway
Pensacola, Florida 32514-5750

Re: Final Record of Decision Errata Pages
Operable Unit 4 (Site 15), Naval Air Station Pensacola
Pensacola, Florida

Dear Ms. Boldyreff:

On behalf of the Navy, EnSafe Inc. is pleased to submit one copy of the errata pages for the signed Final Record of Decision for Operable Unit 4 (Site 15), at the Naval Air Station Pensacola in Pensacola, Florida. Please replace the pages previously submitted with the pages enclosed.

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Sincerely,
EnSafe Inc.



Allison L. Harris
Task Order Manager

Enclosure

cc: Mr. Bill Hill, Code 1851 SOUTHNAVFACENGCOM without enclosure
Mr. Harry White, NAS Pensacola PAO without enclosure
Mr. Ron Joyner, NAS Pensacola without enclosure
EnSafe Inc. file without enclosure
EnSafe Inc. Knoxville without enclosure
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Administrative Record



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September 7, 2000

Florida Department of Environmental Protection

Attn: Joe Fugitt

Twin Towers Office Building

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Re: Final Record of Decision Errata Pages,
Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), NAS Pensacola
Contract # N62467-89-D-0318/083

Dear Mr. Fugitt:

On behalf of the Navy, EnSafe Inc. is pleased to submit two copies of the errata pages for the signed Final Record of Decision for Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), at the Naval Air Station Pensacola in Pensacola, Florida.

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EnSafe Inc.



Allison L. Harris
Task Order Manager

Enclosure

cc: Charlie Goodard, FDEP – NW District without enclosure
Bill Hill, Code 1851 SOUTHNAVFACENGCOM without enclosure
EnSafe Inc. Knoxville file without enclosure
EnSafe Inc. library without enclosure
Administrative Record



ENSAFE INC.

ENVIRONMENTAL AND MANAGEMENT CONSULTANTS

5724 Summer Trees Drive • Memphis, Tennessee 38134 • Telephone 901-372-7962 • Facsimile 901-372-2454 • www.ensafe.com

September 7, 2000

Jesse Rigby
125 West Romana Street, Suite 800
Pensacola, Florida 32501

Re: Final Record of Decision Errata Pages
Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), Naval Air Station Pensacola
Pensacola, Florida

Dear Mr. Rigby:

On behalf of the Navy, EnSafe Inc. is pleased to submit one copy of the errata pages for the signed Final Record of Decision for Operable Unit 4 (Site 15, Pesticide Rinsate Disposal Area), at the Naval Air Station Pensacola in Pensacola, Florida. Please replace the pages previously submitted with the pages enclosed.

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Response:

Agreed. The revised figure is enclosed.

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Response:

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Mr. Jesse Rigby
Page 2

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Allison L. Harris
Task Order Manager

Enclosure

cc: Mr. Bill Hill, Code 1851 SOUTHNAVFACENGCOM without enclosure
Mr. Harry White, NAS Pensacola PAO - 1 copy
Mr. John Early - 1 copy
Mr. Jerry Westmoreland - 1 copy
Ms. Lisa Minshew - 1 copy
Administrative Record