



ENSAFE INC.

ENVIRONMENTAL AND MANAGEMENT CONSULTANTS

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

June 16, 2004

Commander
Attn: James Reed/18812JR
NAVFAC BFD SOUTH
2155 Eagle Drive
P.O. Box 190010
North Charleston, SC 29419-9010

Subject: CTO-0094; NSA Mid-South, Millington, Tennessee

Document Transmittal – *N-12 Tank Site Technical Memorandum, Revision 0*, June 16, 2004

Reference: Contract N62467-89-D-0318 (CLEAN II)

Dear Sir:

This letter is provided to document submittal of the *N-12 Tank Site Technical Memorandum, Revision 0*, June 16, 2004. The document has been distributed as shown on the attached NSA Mid-South RFI Distribution List.

If you have any questions or comments of a technical nature, please contact me at 901/372-7962. Comments or questions of a contractual nature should be directed to Debra Blagg at the same number.

Sincerely,

EnSafe Inc.

A handwritten signature in black ink, appearing to read "John Stedman, Jr.", with a stylized flourish at the end.

By: John Stedman, Jr.
Task Order Manager

Enclosures: As Stated

cc: Contracts File: CTO-0094 (w/out enclosure)
Project File: 0094-001-14-300-00 (w/out enclosure)
Other: See attached NSA Mid-South Distribution List



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TECHNICAL MEMORANDUM

To: Jim Reed, SOUTHDIV
Jennifer Tufts, USEPA Region IV
Roger Donovan, TDEC
Rob Williamson, NSA Mid-South
Tonya Barker/ Jim Heide, NSA Mid-South
Jack Carmichael, USGS

From: Corey Coleman, EnSafe Inc.

Date: June 16, 2004

Re: Recommendation for Site Closure
N-12 Tank Site
NSA Mid-South

INTRODUCTION

This technical memorandum provides a basis for the "no further action" recommendation at the N-12 Tank Site on the transferred portion of NSA Mid-South's north side at the corner of Funafuti and Fourth Street. This area consists mainly of paved streets, parking areas some grassy areas, and is just south of the airfield which extends east to west. Figure 1 presents the location of the N-12 Tank Site.

BACKGROUND

The N-12 Tank Site formerly served as the Aircraft Intermediate Maintenance Department (AIMD) painting shop. The building, at one time, contained one large spray booth and two smaller booths. According to NSA Mid-South personnel, sand blasting and paint stripping using methyl chloride occurred in the shop as well as a practice of hosing down the building with water. This practice could have permitted over-spray to migrate throughout the building. Presently, this building is vacant, and all operations have ceased (*Corrective Measures Study Work Plan Northside Loess Soil and Groundwater*, EnSafe, August 2001).

In 1997, a 7.5-gallon underground storage tank (UST) and the surrounding petroleum-contaminated soil were removed from the west side of the site. This UST contained fuel for an emergency generator and is reported to have supplanted a 55-gallon UST previously situated at the site (EnSafe, 2001). The N-12 Tank investigation is documented in the *Contamination Assessment Report UST N-12* (EnSafe, July 1998).

ACTION TAKEN

The N-12 Tank Site contamination assessment report recommended a corrective measures study (CMS) to address benzene and total petroleum hydrocarbons (TPH) contamination in the loess groundwater at this site which proved to be limited to the saturated loess zone (EnSafe, 2001).

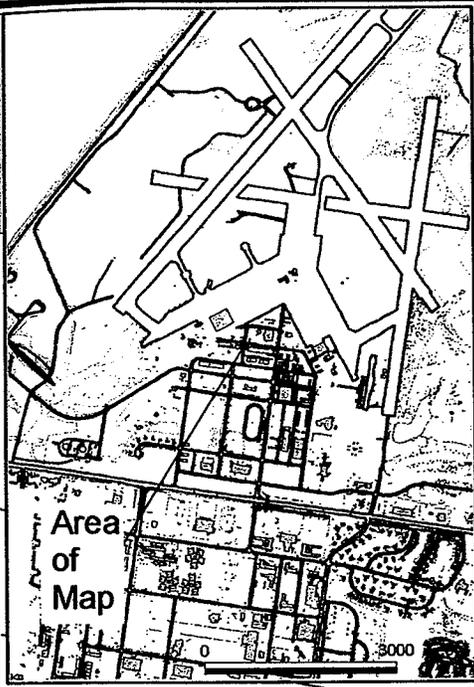
Regarding soil contamination, affected areas were limited to a small area in the tank pit, and therefore UST N-12 soil did not warrant a corrective measures study unless the quarterly groundwater monitoring revealed concentrations above TDEC's¹ non-drinking water cleanup levels (EnSafe, 2001). The use of this non-drinking water standard is supported due to the nature of the loess groundwater. In some areas of NSA Mid-South, no water bearing zones in the loess exist; hence the zone is not laterally continuous throughout NSA Mid-South and may be considered a "perched" zone (EnSafe, 2001).

Quarterly groundwater samples were analyzed for volatile organic compounds (VOC), gasoline range organics (GRO), and extractable petroleum hydrocarbons (EPH). Analytical results for the site are documented in Table 1. This table reports the results of the sampling done at the N-12 Tank Site's four monitoring wells. Wells N12G01LS, N12G02LS, and N12G03LS all reported results below TDEC's cleanup levels for each parameter analyzed. Well N12G04LS exceeded the TDEC cleanup level for benzene (70 µg/L) in the January 13, 1998, sample as well as the July 12, 2001, sample. Since this time, samples have reported a decline of concentrations and even a non-detection in the August 11, 2003, sample. This well also exceeded TDEC's cleanup level for extractable petroleum hydrocarbons (1,000 µg/L) on April 4, 2001, but since this time samples have resulted in values less than 1 µg/L and some non-detections as well. No other parameters that have exceeded cleanup levels. Copies of laboratory reports for the sampling events are included in Attachment A.

CONCLUSIONS

Based on the results of the quarterly groundwater monitoring and soil removal, there are no concentrations exceeding cleanup levels, and therefore corrective measures are not warranted for this site. In addition, with the exception of abandoning loess monitoring wells, no further action is recommended for soil and loess groundwater at the N-12 Tank Site.

¹Tennessee Department of Environment and Conservation



Funafuti Street

NFMW01LS

58

N12G03LS

N12G02LS

N12G04LS

N12G01LS

N-12

Fourth Street

301LF

Building
 Natural Features
 Roads

0 30 60 Feet



Figure 1
Building N-12
NSA Mid-South
Millington, Tennessee

Table 1
NSA MID-SOUTH
N-12 LOESS GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC and PETROLEUM COMPOUNDS (ug/L)

Sample ID (Well ID)	Parameter	PRG (ug/L)	MCLs (ug/L)	TDEC*	Jan	Jul	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Aug
					98	00	01	01	01	01	02	02	03	
N12G01LS	Ethylbenzene	2.9	700			ND	ND	ND	ND	ND	ND	ND	ND	0.30J
	Methyl tert-butyl ether	13												0.24J
	TN EPH (C12-C40)			1000		ND	160	ND		ND	ND	110	ND	ND
	Trichloroethene	0.028	5			ND	ND	ND	ND	0.33J	0.30J	0.42	ND	ND
N12G02LS	Chloromethane	1.5				ND	ND	ND	ND	ND	ND	0.90J	0.66J	ND
	Ethylbenzene	2.9	700			ND	ND	ND	ND	ND	ND	ND	ND	1.12J
N12G03LS	TN EPH (C12-C40)			1000		ND	ND	ND			210	250	ND	ND
	Trichloroethene	0.028	5			ND	ND	ND	ND	ND	ND	0.35J	ND	ND
N12G04LS	Acetone	610			ND	ND	ND	ND	ND	ND	26J	ND	ND	ND
	Benzene	0.34	5	70	150	20	14	68J	89	5.9	51	11	1	ND
	Chloromethane	1.5			ND	ND	ND	ND	ND	ND	ND	0.79J	ND	ND
	cis-1,2-Dichloroethene	61	700							ND	ND	ND	ND	0.32J
	Diesel Range Organics			1000	320J									
	Ethylbenzene	2.9	700		46	1.0J	ND	20J	3.0J	ND	16	3.8	ND	ND
	Gasoline Range Organics			1000	720			310J	190	72	170	19J	ND	ND
	Methyl tert-butyl ether	13			12									ND
	TN EPH (C12-C40)			1000		ND	130	1100J		ND	160	22	ND	150
	Toluene	720	1000		71	ND	ND	24J	2.0J	ND	8.0	2	ND	ND
	Trichloroethene	0.028	5			ND	ND	ND	ND	ND	ND	0.22J	ND	0.29J
	Xylene (Total)	210	10000		130	ND	13	26J	9.0	ND	29	4.2	ND	ND

Notes:

ug/L = micrograms/Liter

MCLs = EPA Maximum Contaminant Level (MCL) for Drinking Water dated July 2002.

EPH = Extractable Petroleum Hydrocarbons

PRG = Preliminary Remedial Goal

ND = Non-detection

* = Tennessee Department of Environment and Conservation (TDEC) Division of Underground Storage Tanks Cleanup Levels for a non-drinking water aquifer (TDEC, 1996).

J = Estimated Value

A blank cell denotes that the well was not sampled or not analyzed for the corresponding parameter.

Bold = Exceeds MCL and/or TDEC cleanup level.

**Attachment A
Analytical Data**

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

DRO		SHORT ID ----->	N12GMW01	N12GMW02	N12GMW03	N12GMW04	N12GMW04				
		SAMPLE ID ----->	N12-G-MW01-13	N12-G-MW02-13	N12-G-MW03-13	N12-G-MW04-13	N12-H-MW04-13				
		ORIGINAL ID ----->	N12GMW0113	N12GMW0213	N12GMW0313	N12GMW0413	N12HMW0413				
		LAB SAMPLE ID ---->	S880248*3	S880248*4	S880248*5	S880248*6	S880248*7				
		ID FROM REPORT -->	N12GMW0113	N12GMW0213	N12GMW0313	N12GMW0413	N12HMW0413				
		SAMPLE DATE ----->	01/13/98	01/13/98	01/14/98	01/13/98	01/13/98				
		DATE EXTRACTED -->	01/19/98	01/19/98	01/19/98	01/19/98	01/19/98				
		DATE ANALYZED -->	01/21/98	01/21/98	01/21/98	01/21/98	01/21/98				
		MATRIX ----->	Water	Water	Water	Water	Water				
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L				
CAS #	Parameter	MEM46	VAL	MEM46	VAL	MEM46	VAL	MEM46	VAL		
9999900-02-6	Diesel Range Organics		0.1 U		0.1 U		0.1 U		0.32 J		0.22 J

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

		SHORT ID ----->	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS					
GRO		SAMPLE ID ----->	N12-G-01LS-06	N12-G-01LS-07	N12-G-01LS-08	N12-G-01LS-09	N12-G-01LS-10	N12-G-01LS-11					
		ORIGINAL ID ----->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS09	N12G01LS10	N12G01LS11					
		LAB SAMPLE ID ---->	43655.02	45739.02	46184.04	46974.01	S116506*5	S240198*1					
		ID FROM REPORT -->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS09	N12G01LS10	N12G01LS11					
		SAMPLE DATE ----->	07/19/00	01/30/01	04/04/01	07/12/01	10/03/01	01/10/02					
		DATE EXTRACTED -->			04/09/01								
		DATE ANALYZED ---->	07/27/00	02/05/01	04/18/01	07/19/01	10/10/01	01/15/02					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L					
CAS #	Parameter	43655	VAL	45739	VAL	46184	VAL	46974	VAL	MEM91	VAL	MEM97	VAL
9999900-02-5	Gasoline Range Organics	100.	U	15.	U	100.	U	100.	U	0.036	U	0.036	U

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO		SHORT ID ----->	N12G01LS	N12G01LS	N12G01LS	N12G02LS	N12G02LS	N12G02LS					
		SAMPLE ID ----->	N12-G-01LS-12	N12-G-01LS-13	N12-G-01LS-14	N12-G-02LS-06	N12-G-02LS-07	N12-G-02LS-08					
		ORIGINAL ID ----->	N12G01LS12	N12G01LS13	N12G01LS14	N12G02LS06	N12G02LS07	N12G02LS08					
		LAB SAMPLE ID ---->	S242382*1	S245225*6	S386282*1	43655.07	45739.03	46184.05					
		ID FROM REPORT -->	N12G01LS12	N12G01LS13	N12G01LS14	N12G02LS06	N12G02LS07	N12G02LS08					
		SAMPLE DATE ----->	04/03/02	07/19/02	08/11/03	07/19/00	01/30/01	04/04/01					
		DATE EXTRACTED -->	04/10/02		08/14/03			04/09/01					
		DATE ANALYZED -->	04/10/02	07/24/02	08/14/03	07/27/00	02/05/01	04/17/01					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	MG/L	MG/L	MG/L	UG/L	UG/L	UG/L					
CAS #	Parameter	MEM108	VAL	MEM141	VAL	MEM195	VAL	43655	VAL	45739	VAL	46184	VAL
9999900-02-5	Gasoline Range Organics	0.036	U	0.036	U	0.036	U	100.	U	18.	U	100.	U

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO		SHORT ID ----->	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS					
		SAMPLE ID ----->	N12-G-02LS-09	N12-G-02LS-10	N12-G-02LS-11	N12-G-02LS-12	N12-G-02LS-13	N12-G-02LS-14					
		ORIGINAL ID ----->	N12G02LS09	N12G02LS10	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14					
		LAB SAMPLE ID ---->	46974.02	S116506*6	S240198*2	S242382*2	S245225*8	S386282*2					
		ID FROM REPORT -->	N12G02LS09	N12G02LS10	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14					
		SAMPLE DATE ----->	07/12/01	10/03/01	01/10/02	04/03/02	07/19/02	08/11/03					
		DATE EXTRACTED -->				04/10/02		08/15/03					
		DATE ANALYZED ---->	07/19/01	10/10/01	01/15/02	04/10/02	07/24/02	08/15/03					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L					
CAS #	Parameter	46974	VAL	MEM91	VAL	MEM97	VAL	MEM108	VAL	MEM141	VAL	MEM195	VAL
9999900-02-5	Gasoline Range Organics	100.	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO	SHORT ID ----->		N12G03LS		N12G03LS		N12G03LS		N12G03LS		N12G03LS		
	CAS #	Parameter	VAL	UNIT									
9999900-02-5	Gasoline Range Organics	100.	U	15.	U	19.	U	100.	U	100.	U	100.	U

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

CAS #	Parameter	MEM97		MEM108		MEM141		MEM195		43655		45739	
		VAL	UNIT	VAL	UNIT	VAL	UNIT	VAL	UNIT	VAL	UNIT	VAL	UNIT
9999900-02-5	Gasoline Range Organics	0.036	U	0.036	U	0.036	U	0.036	U	100.	U	66.	U

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO	SHORT ID ----->		N12G04LS		N12G04LS		N12G04LS		N12G04LS		N12G04LS		
	CAS #	Parameter	VAL	UNIT	VAL	UNIT	VAL	UNIT	VAL	UNIT	VAL	UNIT	
9999900-02-5	Gasoline Range Organics	310.	J	100.	UJ	190.		0.072		0.17		0.02	J

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO		SHORT ID ----->	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12GMW01				
		SAMPLE ID ----->	N12-H-04LS-12	N12-G-04LS-13	N12-H-04LS-13	N12-G-04LS-14	N12-H-04LS-14	N12-G-04LS-14	N12-G-MW01-13				
		ORIGINAL ID ----->	N12H04LS12	N12G04LS13	N12H04LS13	N12G04LS14	N12H04LS14	N12G04LS14	N12GMW0113				
		LAB SAMPLE ID ---->	S242382*5	S245225*7	S245225*9	S386282*4	S386282*5	S386282*5	S880248*3				
		ID FROM REPORT -->	N12H04LS12	N12G04LS13	N12H04LS13	N12G04LS14	N12H04LS14	N12G04LS14	N12GMW0113				
		SAMPLE DATE ----->	04/03/02	07/19/02	07/19/02	08/11/03	08/11/03	08/11/03	01/13/98				
		DATE EXTRACTED -->	04/10/02			08/15/03	08/14/03	08/14/03					
		DATE ANALYZED -->	04/10/02	07/24/02	07/24/02	08/15/03	08/14/03	08/14/03	01/16/98				
		MATRIX ----->	Water										
		UNITS ----->	MG/L										
CAS #	Parameter	MEM108	VAL	MEM141	VAL	MEM141	VAL	MEM195	VAL	MEM195	VAL	MEM46	VAL
9999900-02-5	Gasoline Range Organics	0.019	J	0.036	U	0.036	U	0.036	U	0.036	U	0.036	UJ

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

GRO		SHORT ID ----->	N12GMW02	N12GMW03	N12GMW04	N12GMW04		
		SAMPLE ID ----->	N12-G-MW02-13	N12-G-MW03-13	N12-G-MW04-13	N12-H-MW04-13		
		ORIGINAL ID ----->	N12GMW0213	N12GMW0313	N12GMW0413	N12HMMW0413		
		LAB SAMPLE ID ----->	S880248*4	S880248*5	S880248*6	S880248*7		
		ID FROM REPORT ----->	N12GMW0213	N12GMW0313	N12GMW0413	N12HMMW0413		
		SAMPLE DATE ----->	01/13/98	01/14/98	01/13/98	01/13/98		
		DATE ANALYZED ----->	01/16/98	01/16/98	01/16/98	01/16/98		
		MATRIX ----->	Water	Water	Water	Water		
		UNITS ----->	MG/L	MG/L	MG/L	MG/L		
CAS #	Parameter	MEM46	VAL	MEM46	VAL	MEM46	VAL	
9999900-02-5	Gasoline Range Organics		0.036 UJ		0.36 UJ		0.72 J	

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

TN EPH	SHORT ID ----->	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS						
	SAMPLE ID ----->	N12-G-01LS-06	N12-G-01LS-07	N12-G-01LS-08	N12-G-01LS-10	N12-G-01LS-11	N12-G-01LS-12						
	ORIGINAL ID ----->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS10	N12G01LS11	N12G01LS12						
	LAB SAMPLE ID ---->	43655.02	45739.02	46184.04	S116506*5	S240198*1	S242382*1						
	ID FROM REPORT -->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS10	N12G01LS11	N12G01LS12						
	SAMPLE DATE ----->	07/19/00	01/30/01	04/04/01	10/03/01	01/10/02	04/03/02						
	DATE EXTRACTED -->	07/24/00	02/02/01	04/09/01	10/05/01	01/14/02	04/08/02						
	DATE ANALYZED ---->	07/26/00	02/07/01	04/13/01	10/11/01	01/16/02	04/10/02						
	MATRIX ----->	Water	Water	Water	Water	Water	Water						
	UNITS ----->	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L						
CAS #	Parameter	43655	VAL	45739	VAL	46184	VAL	MEM91	VAL	MEM97	VAL	MEM108	VAL
9999000-96-4	TN EPH (C12-C40)	100.	U	160.		100.	U	0.1	U	0.1	U	0.11	

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

		SHORT ID ----->	N12G01LS	N12G01LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS				
TN EPH		SAMPLE ID ----->	N12-G-01LS-13	N12-G-01LS-14	N12-G-02LS-06	N12-G-02LS-07	N12-G-02LS-08	N12-G-02LS-10					
		ORIGINAL ID ----->	N12G01LS13	N12G01LS14	N12G02LS06	N12G02LS07	N12G02LS08	N12G02LS10					
		LAB SAMPLE ID ---->	S245206*4	S386282*1	43721.01	45739.03	46184.05	S116506*6					
		ID FROM REPORT -->	N12G01LS13	N12G01LS14	N12G02LS06	N12G02LS07	N12G02LS08	N12G02LS10					
		SAMPLE DATE ----->	07/19/02	08/11/03	07/19/00	01/30/01	04/04/01	10/03/01					
		DATE EXTRACTED -->	07/25/02	08/13/03	07/26/00	02/02/01	04/09/01	10/05/01					
		DATE ANALYZED ---->	07/29/02	08/14/03	07/26/00	02/07/01	04/13/01	10/11/01					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	MG/L	MG/L	UG/L	UG/L	UG/L	MG/L					
CAS #	Parameter	MEM141	VAL	MEM195	VAL	43655	VAL	45739	VAL	46184	VAL	MEM91	VAL
9999000-96-4	TN EPH (C12-C40)	0.1	U	0.1	U	100.	U	100.	U	100.	U	0.1	U

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

CAS #	Parameter	MEM97		MEM108		MEM141		MEM195		43655		45739	
		VAL	U	VAL	U	VAL	U	VAL	U	VAL	U	VAL	U
9999000-96-4	TN EPH (C12-C40)	0.1	U	0.1	U	0.1	U	0.1	U	100.	U	100.	U

SHORT ID ----->	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G03LS	N12G03LS
SAMPLE ID ----->	N12-G-02LS-11	N12-G-02LS-12	N12-G-02LS-13	N12-G-02LS-14	N12-G-03LS-06	N12-G-03LS-07
ORIGINAL ID ----->	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14	N12G03LS06	N12G03LS07
LAB SAMPLE ID ---->	S240198*2	S242382*2	S245225*8	S386282*2	43655.01	45739.04
ID FROM REPORT -->	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14	N12G03LS06	N12G03LS07
SAMPLE DATE ----->	01/10/02	04/03/02	07/19/02	08/11/03	07/19/00	01/30/01
DATE EXTRACTED -->	01/14/02	04/08/02	07/25/02	08/13/03	07/24/00	02/02/01
DATE ANALYZED ---->	01/16/02	04/10/02	07/29/02	08/14/03	07/26/00	02/07/01
MATRIX ----->	Water	Water	Water	Water	Water	Water
UNITS ----->	MG/L	MG/L	MG/L	MG/L	UG/L	UG/L

DATALCP3
06/10/04

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

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TN EPH		SHORT ID ----->	N12G03LS	N12G03LS	N12G03LS	N12G03LS	N12G03LS	N12G03LS					
		SAMPLE ID ----->	N12-H-03LS-07	N12-G-03LS-08	N12-G-03LS-11	N12-G-03LS-12	N12-G-03LS-13	N12-G-03LS-14					
		ORIGINAL ID ----->	N12H03LS07	N12G03LS08	N12G03LS11	N12G03LS12	N12G03LS13	N12G03LS14					
		LAB SAMPLE ID ---->	45739.06	46184.06	S240198*3	S242382*3	S245206*5	S386282*3					
		ID FROM REPORT -->	N12H03LS07	N12G03LS08	N12G03LS11	N12G03LS12	N12G03LS13	N12G03LS14					
		SAMPLE DATE ----->	01/30/01	04/04/01	01/10/02	04/03/02	07/19/02	08/11/03					
		DATE EXTRACTED -->	02/02/01	04/09/01	01/14/02	04/08/02	07/25/02	08/13/03					
		DATE ANALYZED ---->	02/08/01	04/13/01	01/16/02	04/10/02	07/29/02	08/14/03					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L					
CAS #	Parameter	45739	VAL	46184	VAL	MEM97	VAL	MEM108	VAL	MEM141	VAL	MEM195	VAL
9999000-96-4	TN EPH (C12-C40)	100.	U	100.	U	0.21		0.25		0.1	U	0.1	U

*** Validation Complete ***

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TN EPH	SHORT ID ----->	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS						
	SAMPLE ID ----->	N12-G-04LS-06	N12-G-04LS-07	N12-G-04LS-08	N12-H-04LS-08	N12-G-04LS-10	N12-G-04LS-11						
	ORIGINAL ID ----->	N12G04LS06	N12G04LS07	N12G04LS08	N12H04LS08	N12G04LS10	N12G04LS11						
	LAB SAMPLE ID ---->	43655.06	45739.05	46184.07	46184.08	S116506*7	S240198*4						
	ID FROM REPORT -->	N12G04LS06	N12G04LS07	N12G04LS08	N12H04LS08	N12G04LS10	N12G04LS11						
	SAMPLE DATE ----->	07/19/00	01/30/01	04/04/01	04/04/01	10/03/01	01/10/02						
	DATE EXTRACTED -->	07/24/00	02/02/01	04/09/01	04/09/01	10/05/01	01/14/02						
	DATE ANALYZED ---->	07/26/00	02/07/01	04/13/01	04/13/01	10/11/01	01/16/02						
	MATRIX ----->	Water	Water	Water	Water	Water	Water						
	UNITS ----->	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L						
CAS #	Parameter	43655	VAL	45739	VAL	46184	VAL	46184	VAL	MEM91	VAL	MEM97	VAL
9999000-96-4	TN EPH (C12-C40)	100.	U	130.		1100.	J	100.	UJ	0.1	U	0.16	

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CAS #	Parameter	N12G04LS											
		MEM108	VAL	MEM108	VAL	MEM141	VAL	MEM141	VAL	MEM195	VAL		
9999000-96-4	TN EPH (C12-C40)	0.022	J	0.017	J	0.1	U	0.1	U	0.15		0.13	

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID ----->		N12G01LS		N12G01LS		N12G01LS		N12G01LS		N12G01LS		N12G01LS	
	CAS #	Parameter	43655	VAL	45739	VAL	46184	VAL	46974	VAL	MEM91	VAL	MEM97	VAL
		SAMPLE ID ----->	N12-G-01LS-06		N12-G-01LS-07		N12-G-01LS-08		N12-G-01LS-09		N12-G-01LS-10		N12-G-01LS-11	
		ORIGINAL ID ----->	N12G01LS06		N12G01LS07		N12G01LS08		N12G01LS09		N12G01LS10		N12G01LS11	
		LAB SAMPLE ID ----->	43655.02		45739.02		46184.04		46974.01		S116506*5		S240198*1	
		ID FROM REPORT ----->	N12G01LS06		N12G01LS07		N12G01LS08		N12G01LS09		N12G01LS10		N12G01LS11	
		SAMPLE DATE ----->	07/19/00		01/30/01		04/04/01		07/12/01		10/03/01		01/10/02	
		DATE EXTRACTED ----->												
		DATE ANALYZED ----->	07/24/00		02/02/01		04/12/01		07/16/01		10/11/01		01/21/02	
		MATRIX ----->	Water											
		UNITS ----->	UG/L											
71-55-6	1,1,1-Trichloroethane		5.	U										
79-34-5	1,1,2,2-Tetrachloroethane		5.	U										
79-00-5	1,1,2-Trichloroethane		5.	U										
75-34-3	1,1-Dichloroethane		5.	U										
75-35-4	1,1-Dichloroethene		5.	U										
107-06-2	1,2-Dichloroethane		5.	U										
540-59-0	1,2-Dichloroethene (total)		5.	U	5.	U	5.	U	5.	U	NR		NR	
78-87-5	1,2-Dichloropropane		5.	U	5.	U	5.	U	5.	U	25.	U	25.	U
78-93-3	2-Butanone (MEK)		5.	U	5.	U	5.	U	5.	U	25.	U	25.	U
591-78-6	2-Hexanone		5.	U	5.	U	5.	U	5.	U	25.	U	25.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)		5.	U	5.	U	5.	U	5.	U	50.	U	50.	U
67-64-1	Acetone		5.	U										
71-43-2	Benzene		5.	U										
75-27-4	Bromodichloromethane		5.	U										
75-25-2	Bromoform		5.	U	5.	U	5.	U	5.	U	10.	U	10.	U
74-83-9	Bromomethane		5.	UR	5.	U								
75-15-0	Carbon disulfide		5.	U	5.	U	5.	UR	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride		5.	U										
108-90-7	Chlorobenzene		5.	U	5.	U	5.	U	5.	U	10.	U	10.	U
75-00-3	Chloroethane		5.	U										
67-66-3	Chloroform		5.	U	5.	U	5.	U	5.	U	10.	U	10.	U
74-87-3	Chloromethane		5.	U										
124-48-1	Dibromochloromethane		5.	U										
100-41-4	Ethylbenzene		5.	U										
75-09-2	Methylene chloride		42.	U	5.	U								
100-42-5	Styrene		5.	U										
127-18-4	Tetrachloroethene		5.	U										
108-88-3	Toluene		5.	U	5.	U	5.	U	5.	U	0.33	J	0.3	J
79-01-6	Trichloroethene		5.	U	5.	U	5.	U	5.	U	10.	U	10.	U
75-01-4	Vinyl chloride		5.	U	5.	U	5.	U	5.	U	10.	U	10.	U
1330-20-7	Xylene (Total)		5.	U										
10061-01-5	cis-1,3-Dichloropropene		5.	U										
10061-02-6	trans-1,3-Dichloropropene		5.	U	5.	U	5.	U	5.	U	50.	U	50.	U
110-75-8	2-Chloroethylvinylether		NR		NR		NR		NR		10.	U	10.	U
108-05-4	Vinyl acetate		NR		NR		NR		NR					

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TANK N-12 LOESS GROUNDWATER RESULTS
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VOC	SHORT ID ----->	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS	N12G01LS
	SAMPLE ID ----->	N12-G-01LS-06	N12-G-01LS-07	N12-G-01LS-08	N12-G-01LS-09	N12-G-01LS-10	N12G01LS
	ORIGINAL ID ----->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS09	N12G01LS10	N12G01LS11
	LAB SAMPLE ID ---->	43655.02	45739.02	46184.04	46974.01	S116506*5	S240198*1
	ID FROM REPORT -->	N12G01LS06	N12G01LS07	N12G01LS08	N12G01LS09	N12G01LS10	N12G01LS11
	SAMPLE DATE ----->	07/19/00	01/30/01	04/04/01	07/12/01	10/03/01	01/10/02
	DATE EXTRACTED -->			04/12/01			
	DATE ANALYZED -->	07/24/00	02/02/01	04/12/01	07/16/01	10/11/01	01/21/02
	MATRIX ----->	Water	Water	Water	Water	Water	Water
	UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	43655 VAL	45739 VAL	46184 VAL	46974 VAL	MEM91 VAL	MEM97 VAL
156-59-2	cis-1,2-Dichloroethene	NR	NR	NR	NR	5. U	5. U
156-60-5	trans-1,2-Dichloroethene	NR	NR	NR	NR	5. U	5. U
1634-04-4	Methyl tert-butyl ether	NR	NR	NR	NR	NR	NR
91-20-3	Naphthalene	NR	NR	NR	NR	NR	NR

*** Validation Complete ***

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POST-RFI SAMPLING EVENTS

VOC	SHORT ID ----->		N12G01LS		N12G01LS		N12G01LS		N12G02LS		N12G02LS		N12G02LS	
	CAS #	Parameter	MEM108	VAL	MEM141	VAL	MEM195	VAL	43655	VAL	45739	VAL	46184	VAL
		SAMPLE ID ----->	N12-G-01LS-12		N12-G-01LS-13		N12-G-01LS-14		N12-G-02LS-06		N12-G-02LS-07		N12-G-02LS-08	
		ORIGINAL ID ----->	N12G01LS12		N12G01LS13		N12G01LS14		N12G02LS06		N12G02LS07		N12G02LS08	
		LAB SAMPLE ID ----->	S242382*1		S245225*6		S386282*1		43655.07		45739.03		46184.05	
		ID FROM REPORT ----->	N12G01LS12		N12G01LS13		N12G01LS14		N12G02LS06		N12G02LS07		N12G02LS08	
		SAMPLE DATE ----->	04/03/02		07/19/02		08/11/03		07/19/00		01/30/01		04/04/01	
		DATE EXTRACTED ----->			07/26/02		08/23/03				02/02/01		04/12/01	
		DATE ANALYZED ----->	04/17/02		07/26/02		08/23/03		07/24/00				04/12/01	
		MATRIX ----->	Water											
		UNITS ----->	UG/L											
71-55-6	1,1,1-Trichloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)		NR		NR		NR		5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)		10.	U	10.	U	10.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone		10.	U	10.	U	10.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)		10.	U	10.	U	10.	U	5.	U	5.	U	5.	U
67-64-1	Acetone		25.	UR	25.	U	25.	U	5.	U	5.	U	5.	U
71-43-2	Benzene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
74-83-9	Bromomethane		1.	U	1.	U	1.	U	5.	UR	5.	U	5.	U
75-15-0	Carbon disulfide		1.	U	1.	U	1.	U	5.	U	5.	U	5.	UR
56-23-5	Carbon tetrachloride		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
75-00-3	Chloroethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene		1.	U	1.	U	0.3	J	5.	U	5.	U	5.	U
75-09-2	Methylene chloride		5.	U	5.	U	5.	U	27.	U	5.	U	5.	U
100-42-5	Styrene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
127-18-4	Tetrachloroethene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
108-88-3	Toluene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene		0.42	J	1.	U	1.	U	5.	U	5.	U	5.	U
75-01-4	Vinyl chloride		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)		2.	U	2.	U	2.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene		1.	U	1.	U	1.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether		10.	U	NR									
108-05-4	Vinyl acetate		2.	U	2.	U	NR		NR		NR		NR	

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID -----> SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> ID FROM REPORT --> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ----> MATRIX -----> UNITS ----->	N12G02LS N12-G-02LS-09 N12G02LS09 46974.02 N12G02LS09 07/12/01 07/16/01 Water UG/L		N12G02LS N12-G-02LS-10 N12G02LS10 S116506*6 N12G02LS10 10/03/01 10/11/01 Water UG/L		N12G02LS N12-G-02LS-11 N12G02LS11 S240198*2 N12G02LS11 01/10/02 01/19/02 Water UG/L		N12G02LS N12-G-02LS-12 N12G02LS12 S242382*2 N12G02LS12 04/03/02 04/17/02 Water UG/L		N12G02LS N12-G-02LS-13 N12G02LS13 S245225*8 N12G02LS13 07/19/02 07/26/02 07/26/02 Water UG/L		N12G02LS N12-G-02LS-14 N12G02LS14 S386282*2 N12G02LS14 08/11/03 08/23/03 08/23/03 Water UG/L	
		CAS #	Parameter	46974	VAL	MEM91	VAL	MEM97	VAL	MEM108	VAL	MEM141	VAL
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
78-93-3	2-Butanone (MEK)	5.	U	25.	U	25.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	5.	U	25.	U	25.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	25.	U	25.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	5.	U	50.	U	50.	U	25.	UR	25.	U	25.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
74-83-9	Bromomethane	5.	U	10.	U	10.	U	1.	U	1.	U	1.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-00-3	Chloroethane	5.	U	10.	U	10.	U	1.	U	1.	U	1.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
74-87-3	Chloromethane	5.	U	10.	U	10.	U	0.9	J	0.66	J	1.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	1.	U	1.	U	1.12	J
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
75-01-4	Vinyl chloride	5.	U	10.	U	10.	U	1.	U	1.	U	1.	U
1330-20-7	Xylene (Total)	5.	U	10.	U	10.	U	2.	U	2.	U	2.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	1.	U	1.	U	1.	U
110-75-8	2-Chloroethylvinylether	NR		50.	U	50.	U	10.	U	NR		NR	
108-05-4	Vinyl acetate	NR		10.	U	10.	U	2.	U	2.	U	NR	

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC		SHORT ID ----->	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS	N12G02LS					
		SAMPLE ID ----->	N12-G-02LS-09	N12-G-02LS-10	N12-G-02LS-11	N12-G-02LS-12	N12-G-02LS-13	N12-G-02LS-14					
		ORIGINAL ID ----->	N12G02LS09	N12G02LS10	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14					
		LAB SAMPLE ID ----->	46974.02	S116506*6	S240198*2	S242382*2	S245225*8	S386282*2					
		ID FROM REPORT ----->	N12G02LS09	N12G02LS10	N12G02LS11	N12G02LS12	N12G02LS13	N12G02LS14					
		SAMPLE DATE ----->	07/12/01	10/03/01	01/10/02	04/03/02	07/19/02	08/11/03					
		DATE EXTRACTED ----->					07/26/02	08/23/03					
		DATE ANALYZED ----->	07/16/01	10/11/01	01/19/02	04/17/02	07/26/02	08/23/03					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L					
CAS #	Parameter	46974	VAL	MEM91	VAL	MEM97	VAL	MEM108	VAL	MEM141	VAL	MEM195	VAL
156-59-2	cis-1,2-Dichloroethene	NR		5.	U	5.	U	1.	U	1.	U	1.	U
156-60-5	trans-1,2-Dichloroethene	NR		5.	U	5.	U	1.	U	1.	U	1.	U
1634-04-4	Methyl tert-butyl ether	NR		NR		NR		NR		NR		10.	U
91-20-3	Naphthalene	NR		NR		NR		NR		NR		5.	U

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC		SHORT ID ----->	N12G03LS	N12G03LS	N12G03LS	N12G03LS	N12G03LS	N12G03LS
		SAMPLE ID ----->	N12-G-03LS-06	N12-G-03LS-07	N12-H-03LS-07	N12-G-03LS-08	N12-G-03LS-09	N12-H-03LS-09
		ORIGINAL ID ----->	N12G03LS06	N12G03LS07	N12H03LS07	N12G03LS08	N12G03LS09	N12H03LS09
		LAB SAMPLE ID ---->	43655.01	45739.04	45739.06	46184.06	46974.03	46974.04
		ID FROM REPORT -->	N12G03LS06	N12G03LS07	N12H03LS07	N12G03LS08	N12G03LS09	N12H03LS09
		SAMPLE DATE ----->	07/19/00	01/30/01	01/30/01	04/04/01	07/12/01	07/12/01
		DATE EXTRACTED -->				04/12/01		
		DATE ANALYZED ---->	07/24/00	02/02/01	02/02/01	04/12/01	07/16/01	07/16/01
		MATRIX ----->	Water	Water	Water	Water	Water	Water
		UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter		43655	45739	45739	46184	46974	46974
		VAL	VAL	VAL	VAL	VAL	VAL	VAL
156-59-2	cis-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR
156-60-5	trans-1,2-Dichloroethene	NR	NR	NR	NR	NR	NR	NR
1634-04-4	Methyl tert-butyl ether	NR	NR	NR	NR	NR	NR	NR
91-20-3	Naphthalene	NR	NR	NR	NR	NR	NR	NR

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID -----> SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> ID FROM REPORT --> SAMPLE DATE -----> DATE EXTRACTED --> DATE ANALYZED ----> MATRIX -----> UNITS ----->	N12G03LS N12-G-03LS-11		N12G03LS N12-G-03LS-12		N12G03LS N12-G-03LS-13		N12G03LS N12-G-03LS-14		N12G04LS N12-G-04LS-06		N12G04LS N12-G-04LS-07	
		MEM97	VAL	MEM108	VAL	MEM141	VAL	MEM195	VAL	43655	VAL	45739	VAL
71-55-6	1,1,1-Trichloroethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	25.	U	10.	U	10.	U	10.	U	5.	U	5.	U
591-78-6	2-Hexanone	25.	U	10.	U	10.	U	10.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	25.	U	10.	U	10.	U	10.	U	5.	U	5.	U
67-64-1	Acetone	50.	U	25.	UR	25.	U	25.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	1.	U	1.	U	1.	U	20.	U	14.	U
75-27-4	Bromodichloromethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	1.	U	1.	U	1.	U	5.	UR	5.	U
74-83-9	Bromomethane	10.	U	1.	U	1.	U	1.	U	5.	U	5.	U
75-15-0	Carbon disulfide	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
75-00-3	Chloroethane	10.	U	1.	U	1.	U	1.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
74-87-3	Chloromethane	10.	U	1.	U	1.	U	1.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	1.	U	1.	U	1.	U	1.	J	5.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	37.	U	5.	U
100-42-5	Styrene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	0.35	J	1.	U	1.	U	5.	U	5.	U
75-01-4	Vinyl chloride	10.	U	1.	U	1.	U	1.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	10.	U	2.	U	2.	U	2.	U	5.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	1.	U	1.	U	1.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	50.	U	10.	U	NR		NR		NR		NR	
108-05-4	Vinyl acetate	10.	U	2.	U	2.	U	NR		NR		NR	

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC		SHORT ID ----->	N12G03LS	N12G03LS	N12G03LS	N12G03LS	N12G04LS	N12G04LS					
		SAMPLE ID ----->	N12-G-03LS-11	N12-G-03LS-12	N12-G-03LS-13	N12-G-03LS-14	N12-G-04LS-06	N12-G-04LS-07					
		ORIGINAL ID ----->	N12G03LS11	N12G03LS12	N12G03LS13	N12G03LS14	N12G04LS06	N12G04LS07					
		LAB SAMPLE ID ---->	S240198*3	S242382*3	S245225*5	S386282*3	43655.06	45739.05					
		ID FROM REPORT -->	N12G03LS11	N12G03LS12	N12G03LS13	N12G03LS14	N12G04LS06	N12G04LS07					
		SAMPLE DATE ----->	01/10/02	04/03/02	07/19/02	08/11/03	07/19/00	01/30/01					
		DATE EXTRACTED -->			07/26/02	08/18/03							
		DATE ANALYZED ---->	01/21/02	04/12/02	07/26/02	08/18/03	07/24/00	02/02/01					
		MATRIX ----->	Water	Water	Water	Water	Water	Water					
		UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L					
CAS #	Parameter	MEM97	VAL	MEM108	VAL	MEM141	VAL	MEM195	VAL	43655	VAL	45739	VAL
156-59-2	cis-1,2-Dichloroethene	5.	U	1.	U	1.	U	1.	U				
156-60-5	trans-1,2-Dichloroethene	5.	U	1.	U	1.	U	1.	U				
1634-04-4	Methyl tert-butyl ether	NR		NR		NR		10.	U				
91-20-3	Naphthalene	NR		NR		NR		5.	U				

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID ----->	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS						
	SAMPLE ID ----->	N12-G-04LS-08	N12-H-04LS-08	N12-G-04LS-09	N12-G-04LS-10	N12-G-04LS-11	N12-G-04LS-12						
	ORIGINAL ID ----->	N12G04LS08	N12H04LS08	N12G04LS09	N12G04LS10	N12G04LS11	N12G04LS12						
	LAB SAMPLE ID ---->	46184.07	46184.08	46974.05	S116506*7	S240198*4	S242382*4						
	ID FROM REPORT -->	N12G04LS08	N12H04LS08	N12G04LS09	N12G04LS10	N12G04LS11	N12G04LS12						
	SAMPLE DATE ----->	04/04/01	04/04/01	07/12/01	10/03/01	01/10/02	04/03/02						
	DATE EXTRACTED -->	04/12/01	04/12/01	07/16/01	10/11/01	01/21/02	04/12/02						
	DATE ANALYZED ---->	04/12/01	04/12/01	07/16/01	10/11/01	01/21/02	04/12/02						
	MATRIX ----->	Water	Water	Water	Water	Water	Water						
	UNITS ----->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L						
CAS #	Parameter	46184	VAL	46184	VAL	46974	VAL	MEM91	VAL	MEM97	VAL	MEM108	VAL
156-59-2	cis-1,2-Dichloroethene	NR		NR		NR		5.	U	5.	U	1.	U
156-60-5	trans-1,2-Dichloroethene	NR		NR		NR		5.	U	5.	U	1.	U
1634-04-4	Methyl tert-butyl ether	NR		NR		NR		NR		NR		NR	
91-20-3	Naphthalene	NR		NR		NR		NR		NR		NR	

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID ----->		N12G04LS		N12G04LS		N12G04LS		N12G04LS		N12G04LS		N12GMW01	
	CAS #	Parameter	MEM108	VAL	MEM141	VAL	MEM141	VAL	MEM195	VAL	MEM195	VAL	MEM46	VAL
		SAMPLE ID ----->	N12-H-04LS-12		N12-G-04LS-13		N12-H-04LS-13		N12-G-04LS-14		N12-H-04LS-14		N12-G-MW01-13	
		ORIGINAL ID ----->	N12H04LS12		N12G04LS13		N12H04LS13		N12G04LS14		N12H04LS14		N12GMW0113	
		LAB SAMPLE ID ----->	S242382*5		S245225*7		S245225*9		S386282*4		S386282*5		S880248*3	
		ID FROM REPORT ----->	N12H04LS12		N12G04LS13		N12H04LS13		N12G04LS14		N12H04LS14		N12GMW0113	
		SAMPLE DATE ----->	04/03/02		07/19/02		07/19/02		08/11/03		08/11/03		01/13/98	
		DATE EXTRACTED ----->	04/12/02		07/26/02		07/26/02		08/23/03		08/25/03		01/22/98	
		DATE ANALYZED ----->	04/12/02		07/26/02		07/26/02		08/23/03		08/25/03		01/22/98	
		MATRIX ----->	Water		Water		Water		Water		Water		Water	
		UNITS ----->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
71-55-6	1,1,1-Trichloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
75-34-3	1,1-Dichloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
75-35-4	1,1-Dichloroethene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
107-06-2	1,2-Dichloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		5.	U	
78-87-5	1,2-Dichloropropane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	25.	U	
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	25.	U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	25.	U	
67-64-1	Acetone	25.	UR	25.	U	25.	U	25.	U	25.	U	50.	U	
71-43-2	Benzene	6.2		1.		0.67	J	1.	U	1.	U	5.	U	
75-27-4	Bromodichloromethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
75-25-2	Bromoform	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
74-83-9	Bromomethane	1.	U	1.	U	1.	U	1.	U	1.	U	10.	U	
75-15-0	Carbon disulfide	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
56-23-5	Carbon tetrachloride	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
108-90-7	Chlorobenzene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
75-00-3	Chloroethane	1.	U	1.	U	1.	U	1.	U	1.	U	10.	U	
67-66-3	Chloroform	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
74-87-3	Chloromethane	1.	U	1.	U	1.	U	1.	U	1.	U	10.	U	
124-48-1	Dibromochloromethane	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
100-41-4	Ethylbenzene	2.4		1.	U	1.	U	1.	U	0.15	J	5.	U	
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U	
100-42-5	Styrene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
127-18-4	Tetrachloroethene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
108-88-3	Toluene	1.3		1.	U	1.	U	1.	U	1.	U	5.	U	
79-01-6	Trichloroethene	0.62	J	1.	U	1.	U	0.29	J	0.23	J	5.	U	
75-01-4	Vinyl chloride	1.	U	1.	U	1.	U	1.	U	1.	U	10.	U	
1330-20-7	Xylene (Total)	2.7		2.	U	2.	U	2.	U	2.	U	5.	U	
10061-01-5	cis-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	1.	U	1.	U	1.	U	1.	U	5.	U	
110-75-8	2-Chloroethylvinylether	10.	U	NR		NR		NR		NR		NR		
108-05-4	Vinyl acetate	2.	U	2.	U	2.	U	NR		NR		NR		

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC		SHORT ID ----->	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12G04LS	N12GMW01				
		SAMPLE ID ----->	N12-H-04LS-12	N12-G-04LS-13	N12-H-04LS-13	N12-G-04LS-14	N12-H-04LS-14	N12-G-04LS-14	N12-G-MW01-13				
		ORIGINAL ID ----->	N12H04LS12	N12G04LS13	N12H04LS13	N12G04LS14	N12H04LS14	N12G04LS14	N12GMW0113				
		LAB SAMPLE ID ---->	S242382*5	S245225*7	S245225*9	S386282*4	S386282*5	S386282*5	S880248*3				
		ID FROM REPORT -->	N12H04LS12	N12G04LS13	N12H04LS13	N12G04LS14	N12H04LS14	N12G04LS14	N12GMW0113				
		SAMPLE DATE ----->	04/03/02	07/19/02	07/19/02	08/11/03	08/11/03	08/11/03	01/13/98				
		DATE EXTRACTED -->		07/26/02	07/26/02	08/23/03	08/23/03	08/25/03					
		DATE ANALYZED ---->	04/12/02	07/26/02	07/26/02	08/23/03	08/23/03	08/25/03	01/22/98				
		MATRIX ----->	Water										
		UNITS ----->	UG/L										
CAS #	Parameter	MEM108	VAL	MEM141	VAL	MEM141	VAL	MEM195	VAL	MEM195	VAL	MEM46	VAL
156-59-2	cis-1,2-Dichloroethene	1.	U	1.	U	1.	U	0.32	J	0.38	J		NR
156-60-5	trans-1,2-Dichloroethene	1.	U	1.	U	1.	U	1.	U	1.	U		NR
1634-04-4	Methyl tert-butyl ether	NR		NR		NR		10.	U	10.	U		10. U
91-20-3	Naphthalene	NR		NR		NR		5.	U	5.	U		NR

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC	SHORT ID ----->		N12GMW02		N12GMW03		N12GMW04		N12GMW04	
	SAMPLE ID ----->	N12-G-MW02-13	N12-G-MW03-13	N12-G-MW04-13	N12-G-MW04-13	N12-H-MW04-13	ORIGINAL ID ----->	N12GMW0213	N12GMW0313	N12GMW0413
	LAB SAMPLE ID ---->	S880248*4	S880248*5	S880248*6	S880248*7	ID FROM REPORT -->	N12GMW0213	N12GMW0313	N12GMW0413	N12HMW0413
	SAMPLE DATE ----->	01/13/98	01/14/98	01/13/98	01/13/98	DATE ANALYZED ----->	01/22/98	01/22/98	01/22/98	01/22/98
	MATRIX ----->	Water	Water	Water	Water	UNITS ----->	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	MEM46	VAL	MEM46	VAL	MEM46	VAL	MEM46	VAL	
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	
78-93-3	2-Butanone (MEK)	25.	U	25.	U	25.	U	25.	U	
591-78-6	2-Hexanone	25.	U	25.	U	25.	U	25.	U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	25.	U	25.	U	25.	U	25.	U	
67-64-1	Acetone	50.	U	50.	U	50.	U	50.	U	
71-43-2	Benzene	5.	U	5.	U	150.	U	140.	U	
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	
74-87-3	Chloromethane	10.	UJ	10.	UJ	10.	UJ	10.	UJ	
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	
100-61-4	Ethylbenzene	5.	U	5.	U	46.	U	47.	U	
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	
108-88-3	Toluene	5.	U	5.	U	71.	U	72.	U	
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	
1330-20-7	Xylene (Total)	5.	U	5.	U	130.	U	150.	U	
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	
110-75-8	2-Chloroethylvinylether	NR		NR		NR		NR		
108-05-4	Vinyl acetate	NR		NR		NR		NR		
156-59-2	cis-1,2-Dichloroethene	NR		NR		NR		NR		

*** Validation Complete ***

NSA MID-SOUTH
TANK N-12 LOESS GROUNDWATER RESULTS
POST-RFI SAMPLING EVENTS

VOC		SHORT ID ----->	N12GMW02	N12GMW03	N12GMW04	N12GMW04		
		SAMPLE ID ----->	N12-G-MW02-13	N12-G-MW03-13	N12-G-MW04-13	N12-H-MW04-13		
		ORIGINAL ID ----->	N12GMW0213	N12GMW0313	N12GMW0413	N12HMW0413		
		LAB SAMPLE ID ---->	S880248*4	S880248*5	S880248*6	S880248*7		
		ID FROM REPORT -->	N12GMW0213	N12GMW0313	N12GMW0413	N12HMW0413		
		SAMPLE DATE ----->	01/13/98	01/14/98	01/13/98	01/13/98		
		DATE ANALYZED ---->	01/22/98	01/22/98	01/22/98	01/22/98		
		MATRIX ----->	Water	Water	Water	Water		
		UNITS ----->	UG/L	UG/L	UG/L	UG/L		
CAS #	Parameter	MEM46	VAL	MEM46	VAL	MEM46	VAL	
156-60-5	trans-1,2-Dichloroethene	NR		NR		NR		
1634-04-4	Methyl tert-butyl ether	10.	U	10.	U	12.		
91-20-3	Naphthalene	NR		NR		NR		