ENTERED

Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area 16	Send Lab Report to Pat Longmire	Field Unit Leader Allyn Pratt
Operable Unit 1049	J534	(505)667-4308
Date 02/26/99	LANL Destination SMO	Turnaround 5 days
OU Contact Dave Broxton	LANL Contact Stephanie Hagelberg	Lab Report Required 03/03/99
Contact Phone No (505) 667-2492	LANL Mail Stop	Charge Code CG9M25020007

Relinquished by: Mark Everett (Signature): Affiliation: MK/PMC	Date: 2-26-99	Relinquished by: (Signature): Affiliation:	Date:	Relinquished by: (Signature): Affiliation:	Date:
Received by: (Signature): Affiliation:	Time: 1:50	Received by: (Signature): Affiliation:	Time:	Received by: (Signature): Affiliation:	Time:

POSSIBLE HAZARD IDENTIFICATION: (please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances): Radiological___ Highly Toxic___ Flammable___ Skin Irritant___ Non-Hazard___ Other___

SCREENING METHOD: Rad Van

SAMPLE DISPOSAL: Return to Client

Comments:

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)	ID	Depth	REMARKS (Conditions of receipt, etc.)
CACV-99-0029	01	02/26/99 1000	500 ml Polyethylene	Water	HNO3	METTAL	FT 370	1702 - 1877	21,000 gal
CACV-99-0029	02	02/26/99 1000	1 L Amber Glass	Water	Ice	HEXP			
CACV-99-0030	01	02/26/99 1005	500 ml Polyethylene	Water	HNO3	METTAL	FT371	1422-1507 + 1587-1702	21,000 gal
CACV-99-0030	02	02/26/99 1005	1 L Amber Glass	Water	Ice	HEXP			
CACV-99-0031	01	02/26/99 1010	500 ml Polyethylene	Water	HN03	HEXP	Poly #7	1211-1286'	3 K
CACV-99-0031	02	02/26/99 1010	1 L Amber Glass	Water	Ice	METTAL			
CACV-99-0032	01	02/26/99 1015	500 ml Polyethylene	Water	HN03	METTAL	Poly #9	1407-1422'	3 K flocculent + Foam
CACV-99-0032	02	02/26/99 1015	1 L Amber Glass	Water	Ice	HEXP			
CACV-99-0033	01	02/26/99 1020	500 ml Polyethylene	Water	HNO3	METTAL	Poly #10	1286-1407'	3K
CACV-99-0033	02	02/26/99 1020	1 L Amber Glass	Water	Ice	HEXP			
CACV-99-0034	01	02/26/99 1025	1 L Amber Glass	Water	Ice	HEXP	Poly #11	1286-1322	3K
CACV-99-0034	02	02/26/99 1025	500 ml Polyethylene	Water	HN03	METTAL			

Yellow - RPF

Pink - FTL Copy

6150

Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area	16	**Send Lab Report to**	Pat Longmire	**Field Unit Leader**	Allyn Pratt
Operable Unit	1049		J534		(505)667-4308
Date	02/26/99	**LANL Destination**	SMO	**Turnaround**	5 days
OU Contact	Dave Broxton	**LANL Contact**	Stephanie Hagelberg	**Lab Report Required**	03/03/99
Contact Phone No	(505) 667-2492	**LANL Mail Stop**		**Charge Code**	CG9M25020007

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)		Depth	REMARKS (Conditions of receipt, etc.)	Volume
CACV-99-0035	01	02/26/99 1030	500 ml Polyethylene	Water	HNO3	METTAL	Poly #12	1487-1556		3 K Foam
CACV-99-0035	02	02/26/99 1030	1 L Amber Glass	Water	Ice	HEXP				
CACV-99-0036	01	02/26/99 1035	500 ml Polyethylene	Water	HNO3	METTAL	Poly #13	1556-1587		600 gal. Foam
CACV-99-0036	02	02/26/99 1035	1 L Amber Glass	Water	Ice	HEXP				
CACV-99-0037	01	02/26/99 1040	500 ml Polyethylene	Water	HNO3	METTAL	Poly #14	1877-1897'		3K
CACV-99-0037	02	02/26/99 1040	1 L Amber Glass	Water	Ice	HEXP				
CACV-99-0038	01	02/26/99 1045	1 L Amber Glass	Water	Ice	HEXP	Poly #15	1897-1917'		3K
CACV-99-0038	02	02/26/99 1045	500 ml Polyethylene	Water	HNO3	METTAL				
CACV-99-0039	01	02/26/99 1050	1 L Amber Glass	Water	Ice	HEXP	Poly#16	1917-1927		3K
CACV-99-0039	02	02/26/99 1050	500 ml Polyethylene	Water	HNO3	METTAL				
CACV-99-0040	01	02/26/99 1055	1 L Amber Glass	Water	Ice	HEXP	Poly#17	1927-1937		3K
CACV-99-0040	02	02/26/99 1055	500 ml Polyethylene	Water	HNO3	METTAL				
CACV-99-0041	01	02/26/99 1100	500 ml Polyethylene	Water	HN03	METTAL	Poly#18	1937-1940		3K
CACV-99-0041	02	02/26/99 1100	1 L Amber Glass	Water	Ice	HEXP				
CACV-99-0042	01	02/26/99 1105	1 L Amber Glass	Water	Ice	HEXP	Poly#19	1940-1942		3K
CACV-99-0042	02	02/26/99 1105	500 ml Polyethylene	Water	HNO3	METTAL				

Fract Tank - 370

Nitroaromatics And Nitramines

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0029
Lab ID:	9902188-1

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 15-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	1.5	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.27	ug/L	0.25		
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.32	ug/l	4.29	77	34 - 106

U = Less than the Reporting Limit

Fract Tank - 371

Nitroaromatics And Nitramines

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID	CACV-99-0030
Lab ID	9902188-2

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	1.5	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.57	ug/l	4.29	83	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #7

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0031
Lab ID:	9902188-3

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1.4	ug/L	1		
121-82-4	RDX	1.5	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	1.77	ug/l	4.29	41	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly # 9

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID	CACV-99-0032
Lab ID	9902188-4

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	0.84	ug/L	0.84	U	
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	0.163	ug/l	4.29	4	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #10

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0033
Lab ID:	9902188-5

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 11-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 5

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	7.2	ug/L	5		
121-82-4	RDX	49	ug/L	4.2		
99-35-4	1,3,5-TRINITROBENZENE	1.3	ug/L	1.3	U	
99-65-0	1,3-DINITROBENZENE	1.3	ug/L	1.3	U	
479-45-8	TETRYL	5	ug/L	5	U	
98-95-3	NITROBENZENE	5	ug/L	5	U	
118-96-7	2,4,6-TRINITROTOLUENE	1.3	ug/L	1.3	U	
1946-51-0	4-AMINO-2,6-DNT	4.7	ug/L	1.3		
35572-78-2	2-AMINO-4,6-DNT	2	ug/L	1.3		
606-20-2	2,6-DINITROTOLUENE	1.3	ug/L	1.3	U	
121-14-2	2,4-DINITROTOLUENE	1.3	ug/L	1.3	U	
88-72-2	2-NITROTOLUENE	5	ug/L	5	U	
99-99-0	4-NITROTOLUENE	5	ug/L	5	U	
99-08-1	3-NITROTOLUENE	5	ug/L	5	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.13	ug/l	4.29	73	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #11

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID	CACV-99-0034
Lab ID	9902188-6

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 24-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	2.5	ug/L	1		
121-82-4	RDX	6.1	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	1.7	ug/l	4.29	40	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #12

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0035
Lab ID:	9902188-7

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	2	ug/L	1		
121-82-4	RDX	13	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	1.2	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.66	ug/l	4.29	85	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly # 13

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID	CACV-99-0036
Lab ID	9902188-8

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	2	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.25	ug/L	0.25	U	
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.42	ug/l	4.29	80	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #14

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R

Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0037
Lab ID:	9902188-9

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	2.1	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.32	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.2	ug/l	4.29	75	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Poly #15

Method SW8330

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0038
Lab ID:	9902188-10

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 24-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	2	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.67	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	4.53	ug/l	4.29	106	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Method SW8330

Poly #16

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R

Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0039
Lab ID:	9902188-11

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 24-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	4.4	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.87	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.27	ug/L	0.25		
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.78	ug/l	4.29	88	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Method SW8330

Poly #17

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R

Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0040
Lab ID:	9902188-12

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1	ug/L	1	U	
121-82-4	RDX	3.7	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	0.61	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.25	ug/L	0.25	U	
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	3.38	ug/l	4.29	79	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Method SW8330

Poly #18

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R
Reported on: Friday, March 26, 1999

Field ID:	CACV-99-0041
Lab ID:	9902188-13

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	2.2	ug/L	1		
121-82-4	RDX	7.5	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	1.2	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.4	ug/L	0.25		
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	2.93	ug/l	4.29	68	34 - 106

U = Less than the Reporting Limit

Nitroaromatics And Nitramines

Method SW8330

Poly #19

Lab Name: Paragon Analytics, Inc.
Work Order Number: 9902188
Client Name: Los Alamos National Laboratory
ClientProject ID: 5269R

Reported on: Friday, March 26, 1999

Field ID	CACV-99-0042
Lab ID	9902188-14

Sample Matrix: Liquid
% Moisture: N/A
Cleanup Method: NONE
Report Basis: AS RECEIVED

Date Collected: 26-Feb-99
Date Extracted: 02-Mar-99
Date Analyzed: 10-Mar-99
Prep Batch: EX990302-5

Sample Aliquot: 350
Final Volume: 3
Dilution: 1

CASNO	Target Analyte	Result	Units	Reporting Limit	Result Qualifier	Result Footnote
2691-41-0	HMX	1.8	ug/L	1		
121-82-4	RDX	6.4	ug/L	0.84		
99-35-4	1,3,5-TRINITROBENZENE	0.26	ug/L	0.26	U	
99-65-0	1,3-DINITROBENZENE	0.25	ug/L	0.25	U	
479-45-8	TETRYL	1	ug/L	1	U	
98-95-3	NITROBENZENE	1	ug/L	1	U	
118-96-7	2,4,6-TRINITROTOLUENE	0.25	ug/L	0.25	U	
1946-51-0	4-AMINO-2,6-DNT	1.1	ug/L	0.25		
35572-78-2	2-AMINO-4,6-DNT	0.42	ug/L	0.25		
606-20-2	2,6-DINITROTOLUENE	0.25	ug/L	0.25	U	
121-14-2	2,4-DINITROTOLUENE	0.25	ug/L	0.25	U	
88-72-2	2-NITROTOLUENE	1	ug/L	1	U	
99-99-0	4-NITROTOLUENE	1	ug/L	1	U	
99-08-1	3-NITROTOLUENE	1	ug/L	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Units	Spike Amount	Percent Recovery	Control Limits
100-25-4	1,4-DINITROBENZENE	2.67	ug/l	4.29	62	34 - 106

U = Less than the Reporting Limit

U.S. EPA - CLP

Fract Tank - 370
Non Filtered

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0029

Lab Name: PARAGON_ANALYTICS Contract: _____
Lab Code: NA Case No.: _____ SAS No.: _____ SDG No.: 5270R
Matrix (soil/water): WATER Lab Sample ID: 9902189-1
Level (low/med): LOW Date Received: 02/27/99
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	120000			P
7440-36-0	Antimony	6.6	B	N	P
7440-38-2	Arsenic	21.5			P
7440-39-3	Barium	1580			P
7440-41-7	Beryllium	10.5			P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	63000			P
7440-47-3	Chromium	276			P
7440-48-4	Cobalt	81.0			P
7440-50-8	Copper	267			P
7439-89-6	Iron	205000			P
7439-92-1	Lead	84.6			P
7439-95-4	Magnesium	28000			P
7439-96-5	Manganese	5650			P
7439-97-6	Mercury	0.16	B		AV
7440-02-0	Nickel	212			P
7440-09-7	Potassium	18800			P
7782-49-2	Selenium	14.2			P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	25600			P
7440-28-0	Thallium	6.8	U		P
7440-62-2	Vanadium	110			P
7440-66-6	Zinc	428			P

Color Before: BROWN Clarity Before: CLOUDY Texture: N/A
Color After: TAN Clarity After: CLEAR Artifacts: _____

Comments:

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U.S. EPA - CLP

Fract Tank -371
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0030

Lab Name: PARAGON_ANALYTICS Contract: _____
Lab Code: NA Case No.: _____ SAS No.: _____ SDG No.: 5270R
Matrix (soil/water): WATER Lab Sample ID: 9902189-2
Level (low/med): LOW Date Received: 02/27/99
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	73100			P
7440-36-0	Antimony	6.1	B	N	P
7440-38-2	Arsenic	13.4			P
7440-39-3	Barium	1080			P
7440-41-7	Beryllium	4.4	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	41800			P
7440-47-3	Chromium	157			P
7440-48-4	Cobalt	38.0	B		P
7440-50-8	Copper	199			P
7439-89-6	Iron	182000			P
7439-92-1	Lead	44.2			P
7439-95-4	Magnesium	14400			P
7439-96-5	Manganese	3220			P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	116			P
7440-09-7	Potassium	11300			P
7782-49-2	Selenium	17.1			P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	27000			P
7440-28-0	Thallium	3.7	B		P
7440-62-2	Vanadium	47.1	B		P
7440-66-6	Zinc	374			P

Color Before: BROWN Clarity Before: CLOUDY Texture: N/A
Color After: TAN Clarity After: CLEAR Artifacts: _____

Comments:

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Poly #7
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0031

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-3
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	57100	_		P_
7440-36-0	Antimony_	6.3	B	N	P_
7440-38-2	Arsenic__	31.3	_		P_
7440-39-3	Barium___	955	_		P_
7440-41-7	Beryllium	10.7	_		P_
7440-43-9	Cadmium__	0.40	U		P_
7440-70-2	Calcium__	54000	_		P_
7440-47-3	Chromium_	156	_		P_
7440-48-4	Cobalt___	49.1	B		P_
7440-50-8	Copper___	178	_		P_
7439-89-6	Iron_____	291000	_		P_
7439-92-1	Lead_____	117	_		P_
7439-95-4	Magnesium	18800	_		P_
7439-96-5	Manganese	4300	_		P_
7439-97-6	Mercury__	0.04	B		AV
7440-02-0	Nickel___	143	_		P_
7440-09-7	Potassium	17200	_		P_
7782-49-2	Selenium_	26.4	_		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	83600	_		P_
7440-28-0	Thallium_	6.8	U		P_
7440-62-2	Vanadium_	47.1	B		P_
7440-66-6	Zinc_____	313	_		P_

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

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U.S. EPA - CLP

Poly # 9
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0032

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-4
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	36600			P
7440-36-0	Antimony_	7.8	B	N	P
7440-38-2	Arsenic__	20.8			P
7440-39-3	Barium___	286			P
7440-41-7	Beryllium	1.7	B		P
7440-43-9	Cadmium__	0.40	U		P
7440-70-2	Calcium__	32200			P
7440-47-3	Chromium_	259			P
7440-48-4	Cobalt___	27.0	B		P
7440-50-8	Copper___	181			P
7439-89-6	Iron_____	262000			P
7439-92-1	Lead_____	96.5			P
7439-95-4	Magnesium	11200			P
7439-96-5	Manganese	3650			P
7439-97-6	Mercury__	0.13	B		AV
7440-02-0	Nickel___	106			P
7440-09-7	Potassium	7840			P
7782-49-2	Selenium_	14.8			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	20300			P
7440-28-0	Thallium_	6.8	U		P
7440-62-2	Vanadium_	32.2	B		P
7440-66-6	Zinc_____	1150			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

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U.S. EPA - CLP

Poly # 10
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0033

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-5
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	52200			P
7440-36-0	Antimony_	6.0	B	N	P
7440-38-2	Arsenic__	7.4	B		P
7440-39-3	Barium___	758			P
7440-41-7	Beryllium	2.7	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	32600			P
7440-47-3	Chromium_	48.5			P
7440-48-4	Cobalt___	26.0	B		P
7440-50-8	Copper___	89.5			P
7439-89-6	Iron_____	70600			P
7439-92-1	Lead_____	22.7			P
7439-95-4	Magnesium	10900			P
7439-96-5	Manganese	2190			P
7439-97-6	Mercury__	0.03	U		AV
7440-02-0	Nickel___	65.4			P
7440-09-7	Potassium	9400			P
7782-49-2	Selenium_	6.9			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	24000			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	35.4	B		P
7440-66-6	Zinc_____	163			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

Poly # 11
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0034

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-6
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	82000			P
7440-36-0	Antimony_	4.0	B	N	P
7440-38-2	Arsenic__	15.0			P
7440-39-3	Barium___	1050			P
7440-41-7	Beryllium	7.2			P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	37500			P
7440-47-3	Chromium_	67.2			P
7440-48-4	Cobalt___	40.4	B		P
7440-50-8	Copper___	130			P
7439-89-6	Iron_____	197000			P
7439-92-1	Lead_____	61.0			P
7439-95-4	Magnesium	13900			P
7439-96-5	Manganese	3350			P
7439-97-6	Mercury__	0.04	B		AV
7440-02-0	Nickel___	109			P
7440-09-7	Potassium	13500			P
7782-49-2	Selenium_	12.6			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	47100			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	44.8	B		P
7440-66-6	Zinc_____	229			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

Poly #12
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0035

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-7
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	47500			P
7440-36-0	Antimony_	5.1	B	N	P
7440-38-2	Arsenic__	7.8	B		P
7440-39-3	Barium___	806			P
7440-41-7	Beryllium	1.5	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	27200			P
7440-47-3	Chromium_	100			P
7440-48-4	Cobalt___	16.6	B		P
7440-50-8	Copper___	129			P
7439-89-6	Iron_____	79100			P
7439-92-1	Lead_____	54.3			P
7439-95-4	Magnesium	9850			P
7439-96-5	Manganese	1300			P
7439-97-6	Mercury__	0.04	B		AV
7440-02-0	Nickel___	82.3			P
7440-09-7	Potassium	8490			P
7782-49-2	Selenium_	5.2			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	19500			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	17.3	B		P
7440-66-6	Zinc_____	251			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

Poly #13
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0036

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-8
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	122000			P
7440-36-0	Antimony_	2.3	B	N	P
7440-38-2	Arsenic__	12.1			P
7440-39-3	Barium__	2010			P
7440-41-7	Beryllium	3.4	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	53700			P
7440-47-3	Chromium_	224			P
7440-48-4	Cobalt___	37.8	B		P
7440-50-8	Copper___	239			P
7439-89-6	Iron_____	139000			P
7439-92-1	Lead_____	53.2			P
7439-95-4	Magnesium	18300			P
7439-96-5	Manganese	2160			P
7439-97-6	Mercury__	0.15	B		AV
7440-02-0	Nickel___	171			P
7440-09-7	Potassium	20000			P
7782-49-2	Selenium_	9.5			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	35400			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	34.1	B		P
7440-66-6	Zinc_____	399			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

Poly # 14 NF

EPA SAMPLE NO.

CACV-99-0037

Lab Name: PARAGON_ANALYTICS_____ Contract: _____

Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_

Matrix (soil/water): WATER Lab Sample ID: 9902189-9

Level (low/med): LOW__ Date Received: 02/27/99

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	67000			P
7440-36-0	Antimony_	2.3	U	N	P
7440-38-2	Arsenic__	10.6			P
7440-39-3	Barium__	792			P
7440-41-7	Beryllium	5.5			P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	34700			P
7440-47-3	Chromium_	132			P
7440-48-4	Cobalt___	52.0			P
7440-50-8	Copper___	164			P
7439-89-6	Iron_____	114000			P
7439-92-1	Lead_____	44.2			P
7439-95-4	Magnesium	19700			P
7439-96-5	Manganese	3730			P
7439-97-6	Mercury__	0.08	B		AV
7440-02-0	Nickel___	122			P
7440-09-7	Potassium	12400			P
7782-49-2	Selenium_	8.0			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	19500			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	66.2			P
7440-66-6	Zinc_____	213			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___

Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

Poly # 15
NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0038

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-10
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	62800			P
7440-36-0	Antimony_	2.3	U	N	P
7440-38-2	Arsenic__	10.9			P
7440-39-3	Barium___	792			P
7440-41-7	Beryllium	5.4			P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	37500			P
7440-47-3	Chromium_	162			P
7440-48-4	Cobalt___	55.9			P
7440-50-8	Copper___	151			P
7439-89-6	Iron_____	111000			P
7439-92-1	Lead_____	39.3			P
7439-95-4	Magnesium	23000			P
7439-96-5	Manganese	3420			P
7439-97-6	Mercury__	0.12	B		AV
7440-02-0	Nickel___	150			P
7440-09-7	Potassium	13900			P
7782-49-2	Selenium_	5.7			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	21000			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	79.8			P
7440-66-6	Zinc_____	258			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

Poly #16 NF

EPA SAMPLE NO.

CACV-99-0039

Lab Name: PARAGON_ANALYTICS_____ Contract: _____

Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_

Matrix (soil/water): WATER Lab Sample ID: 9902189-11

Level (low/med): LOW__ Date Received: 02/27/99

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	44800			P
7440-36-0	Antimony_	5.5	B	N	P
7440-38-2	Arsenic__	9.1	B		P
7440-39-3	Barium___	579			P
7440-41-7	Beryllium	3.7	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	25800			P
7440-47-3	Chromium_	99.9			P
7440-48-4	Cobalt___	35.9	B		P
7440-50-8	Copper___	149			P
7439-89-6	Iron_____	98900			P
7439-92-1	Lead_____	29.5			P
7439-95-4	Magnesium	12700			P
7439-96-5	Manganese	2580			P
7439-97-6	Mercury__	0.08	B		AV
7440-02-0	Nickel___	82.9			P
7440-09-7	Potassium	10000			P
7782-49-2	Selenium_	7.8			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	16700			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	49.9	B		P
7440-66-6	Zinc_____	178			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___

Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

Poly#17 NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0040

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-12
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	45900			P
7440-36-0	Antimony_	2.5	B	N	P
7440-38-2	Arsenic__	9.8	B		P
7440-39-3	Barium___	550			P
7440-41-7	Beryllium	3.4	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	26100			P
7440-47-3	Chromium_	100			P
7440-48-4	Cobalt___	36.6	B		P
7440-50-8	Copper___	169			P
7439-89-6	Iron_____	110000			P
7439-92-1	Lead_____	30.5			P
7439-95-4	Magnesium	13000			P
7439-96-5	Manganese	2530			P
7439-97-6	Mercury__	0.09	B		AV
7440-02-0	Nickel___	87.3			P
7440-09-7	Potassium	9010			P
7782-49-2	Selenium_	5.8			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	15900			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	46.2	B		P
7440-66-6	Zinc_____	198			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

Poly #18 NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0041

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-13
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	29000			P
7440-36-0	Antimony_	2.3	U	N	P
7440-38-2	Arsenic__	4.8	B		P
7440-39-3	Barium___	366			P
7440-41-7	Beryllium	1.7	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	21200			P
7440-47-3	Chromium_	53.7			P
7440-48-4	Cobalt___	18.5	B		P
7440-50-8	Copper___	150			P
7439-89-6	Iron_____	96800			P
7439-92-1	Lead_____	20.8			P
7439-95-4	Magnesium	9790			P
7439-96-5	Manganese	1610			P
7439-97-6	Mercury__	0.03	U		AV
7440-02-0	Nickel___	52.0			P
7440-09-7	Potassium	4520	B		P
7782-49-2	Selenium_	6.0			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	11600			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	23.7	B		P
7440-66-6	Zinc_____	175			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

U.S. EPA - CLP

Poly #19 NF

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CACV-99-0042

Lab Name: PARAGON_ANALYTICS_____ Contract: _____
Lab Code: NA____ Case No.: _____ SAS No.: _____ SDG No.: 5270R_
Matrix (soil/water): WATER Lab Sample ID: 9902189-14
Level (low/med): LOW__ Date Received: 02/27/99
% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	29100			P
7440-36-0	Antimony_	3.0	B	N	P
7440-38-2	Arsenic__	4.2	B		P
7440-39-3	Barium___	386			P
7440-41-7	Beryllium	1.6	B		P
7440-43-9	Cadmium__	0.20	U		P
7440-70-2	Calcium__	21300			P
7440-47-3	Chromium_	79.4			P
7440-48-4	Cobalt___	19.5	B		P
7440-50-8	Copper___	154			P
7439-89-6	Iron_____	107000			P
7439-92-1	Lead_____	22.6			P
7439-95-4	Magnesium	9140			P
7439-96-5	Manganese	1720			P
7439-97-6	Mercury__	0.03	U		AV
7440-02-0	Nickel___	55.9			P
7440-09-7	Potassium	4700	B		P
7782-49-2	Selenium_	8.3			P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	12100			P
7440-28-0	Thallium_	3.4	U		P
7440-62-2	Vanadium_	27.3	B		P
7440-66-6	Zinc_____	184			P

Color Before: BROWN____ Clarity Before: CLOUDY Texture: N/A___
Color After: TAN_____ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

R-25 LAND APPLICATION LOADING CALCULATION

GIVEN

100,000 ft^2 land application area

49 µg/l RDX as the highest measured concentration of any HE compound in the storage tanks

ASSUMING

78,000 gallons total discharge

USING

1 GALLON = 3.785 LITERS

1 $FOOT^2$ = 929 CM^2

1000 CM^3 = 1 LITER

CALCULATE

78,000 gal/100,000 ft^2 = 0.78 gal/ft^2

0.78 gal * 3.785 * 10^3 cm^3/gal = 2952 cm^3

OR

2952 cm^3/929 cm^2 = 3.18 cm^3/cm^2

3.18 cm^3/cm^2 * 49 µg/1000cm^3 = 0.16 µg/cm^2

R-25 LAND APPLICATION LOADING CALCULATION

GIVEN

100,000 ft^2 land application area

0.16 µg/l Hg as the highest measured concentration of any Hg in the storage tanks.

ASSUMING

78,000 gallons total discharge

USING

1 GALLON = 3.785 LITERS

1 $FOOT^2$ = 929 CM^2

1000 CM^3 = 1 LITER

CALCULATE

78,000 gal/100,000 ft^2 = 0.78 gal/ft^2

0.78 gal * 3.785 * 10^3 cm^3/gal = 2952 cm^3

OR

2952 cm^3/929 cm^2 = 3.17 cm^3/cm^2

3.17 cm^3/cm^2 * 0.16 µg/1000cm^3 = 0.0005 µg/cm^2 of Hg

3300 Bingle Road
Houston, Texas 77055

Tel: (713) 895-7575
Fax: (713) 895-7586
Telex: 762717

Flocculent

MATERIAL SAFETY DATA SHEET

PRODUCT: MF-1

SECTION I - KELCO MANUFACTURING DIVISION

[1] Kelco Oil Field Group, Inc.
[2] 3300 Bingle Houston, TX 77055
[3] CHEMICAL NAME OR FAMILY:
Nonionic Polyacrylamide

Emergency Telephone: (713) 895-7575
(619) 292-4900

[4] FORMULA: NA

SECTION II - CHEMICAL AND PHYSICAL PROPERTIES

[5] HAZARDOUS DECOMPOSITION PRODUCTS: NA
[6] INCOMPATIBILITY: NA
[7] TOXIC & HAZARDOUS INGREDIENTS: None
[8] FORM: Solid
[9] ODOR: None
[10] APPEARANCE: White Powder
[11] COLOR: White
[12] SPECIFIC GRAVITY (water=1): NA
[13] BOILING PT.: NA
[14] MELTING POINT: NA
[15] SOLUBILITY IN WATER at 25 C: Complete
[16] % VOLATILE BY % WT: Approx 4.5% (H_2O)
[17] EVAP. RATE (water=1): 1
[18] VAPOR PRESSURE (mm Hg at 20 C): NA
[19] VAPOR DENSITY (air=1): NA
[20] pH AS IS:
pH @ 1.0 %: 5.5-8.0
[21] STRONG ACID:
STRONG BASE:
STABLE: yes
[22] VISCOSITY SUS at 100 F: NDA
Less than 100:
Greater than 100:
[23] CAS #: NA

SECTION III - FIRE AND EXPLOSION DATA

[24] For fires involving this material do not enter without proper protective equipment including self-contained breathing apparatus.
[25] UNUSUAL FIRE AND EXPLOSION HAZARDS:
See Section IX
[26] FLASH POINT (Method used): +200 F (PMCC)
[27] FLAMMABLE LIMITS %: NA

[28] EXTINGUISHING AGENTS:

Drychemical: Yes	CO_2: Yes
Waterspray: Yes	Foam: Yes
Waterfog: Yes	Sand/Earth: Yes

Other: *Do not use high pressure water stream. Air-borne dust creates an explosion hazard.

SECTION IV - HEALTH HAZARD DATA

[29] PERMISSIBLE CONCENTRATIONS (Air): NA
[30] EFFECTS OF OVEREXPOSURE: None expected.
[31] TOXICOLOGICAL PROPERTIES : NDA

NA = NOT APPLICABLE NDA = NO DATA AVAILABLE + = GREATER THAN - = LESS THAN

MATERIAL SAFETY DATA SHEET
PRODUCT: MF-1

EMERGENCY FIRST AID PROCEDURES:
[32] Eyes: In case of contact, flush with plenty of water for at least 15 minutes. Call a physician.
[33] Skin Contact: Ordinary measures of personal hygiene should be adequate.
[34] Inhalation: Symptomatic treatment
[35] If swallowed: Symptomatic treatment

SECTION V - SPECIAL PROTECTION INFORMATION

[36] VENTILATION TYPE REQUIRED: Local Exhaust
[38] PROTECTION GLOVES: Not required.
[39] EYE PROTECTION: Non required.
[40] OTHER PROTECTIVE EQUIPMENT: None required.
[37] RESPIRATORY PROTECTION: In heavy dust concentrations, a NIOSH approved mask is recommended.

SECTION VI - HANDLING OF SPILLS OR LEAKS

[41] PROCEDURES FOR CLEAN-UP: Sweep up spilled material and repackage. Hose spill area very well. The product is slippery when wet.
[42] WASTE DISPOSAL: Dispose of in a landfill or incinerate in accordance with local, state, and federal regulations.

SECTION VII - SPECIAL PRECAUTIONS

[43] PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Product is slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

SECTION VIII - TRANSPORTATION DATA

[44] UNREGULATED BY D.O.T.: Yes
[45] REGULATED BY D.O.T.: No
[46] TRANSPORTATION EMERGENCY INFORMATION:
[47] U.S.D.O.T. PROPER SHIPPING NAME: Oil Well Treating Compound
[48] U.S.D.O.T. HAZARD CLASS: NA
[49] I.D. NUMBER: NA
[50] RQ: NA
[51] LABEL(S) REQUIRED: None
[52] FREIGHT CLASSIFICATION: Item #138640 NMF 100 G Class 50
[53] SPECIAL TRANSPORTATION NOTES: None

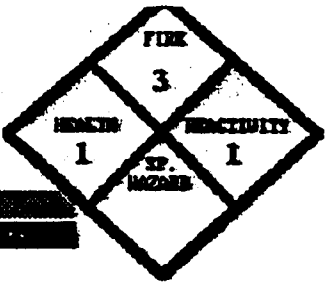
SECTION IX - COMMENTS

[54] In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

Revision Date: 11/89

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

Baroid Environmental, Safety and Transportation Data Sheet



QUIK-FOAM®

I. PRODUCT IDENTIFICATION

SUPPLIER BAROID DRILLING FLUIDS, INC.	REGULAR TELEPHONE NUMBER 713/987-5900 EMERGENCY TELEPHONE NO. 800 424-9300
ADDRESS P.O. BOX 1675 HOUSTON, TEXAS 77251	
TRADE NAME QUIK-FOAM	
GENERIC DESCRIPTION LIQUID MIXTURE OF ANIONIC SURFACTANTS	

II. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
ISOPROPYL ALCOHOL 67-63-0	15	OSHA TWA 400 ppm
ETHANOL 64-17-5	5	OSHA TWA 1000 ppm
PLEASE SEE SECTION X FOR DOT		
INFORMATION		

III. PHYSICAL DATA

BOILING POINT (Deg F) NA	MELTING POINT NA	FREEZING POINT -10 POUR P
SPECIFIC GRAVITY (H2O = 1) 1.02	VAPOR PRESSURE (mm Hg) NA	
VAPOR DENSITY (AIR = 1) NA	SOLUBILITY IN WATER, % BY WT. SOLUBLE	
% VOLATILES BY VOLUME ND	EVAPORATION RATE(BUTYL ACETATE = 1) NA	
APPEARANCE AND ODOR LIGHT AMBER LIQUID, ALCOHOL ODOR	DENSITY @ 20 Deg C (Uncompacted) 8.5 LBS/GA	
pH 7.3-7.8		

NA = Not Applicable ND = Not Determined

All information recommendations and suggestions herein concerning our product are based on tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Baroid Corporation as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Baroid Corporation assume any liability arising from the use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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Baroid Drilling Fluids, Inc.
P.O. Box 1675, Houston, Texas 77251

IV. FIRE AND EXPLOSION DATA

FLASH POINT: 74 DEG F PMCC FIRE EXTINGUISHING MEDIA: ALCOHOL TYPE FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES. RESPIRATORY AND EYE PROTECTION REQUIRED FOR FIRE FIGHTING PERSONNEL. FLAMMABLE LIQUID, CAN RELEASE VAPORS THAT FORM FLAMMABLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT.

V. HEALTH HAZARD INFORMATION

CARCINOGENICITY - NOT ON NTP, IARC OR OSHA LISTS

ACUTE ORAL LD50	ACUTE DERMAL LD50	AQUATIC TOXICITY LC50
ND	ND	ND

ROUTES OF EXPOSURE AND EFFECTS

EYES: SEVERELY IRRITATING UPON CONTACT. MAY INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. SKIN CONTACT: LOW ORDER OF TOXICITY. FREQUENT OR PROLONGED CONTACT MAY IRRITATE AND CAUSE DERMATITIS. IRRITATING. INHALATION: HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO EYES AND THE RESPIRATORY TRACT. MAY CAUSE HEADACHES AND DIZZINESS. INGESTION: LOW ORDER OF TOXICITY

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION. SKIN CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABLE. REMOVE CONTAMINATED CLOTHING, INCLUDING SHOES, AND LAUNDER BEFORE REUSE. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. INHALATION: REMOVE PERSON FROM EXPOSURE. ADMINISTER ARTIFICAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION. INGESTION: IF SWALLOWED AND INDIVIDUAL IS CONSCIOUS, GIVE SEVERAL GLASSES OF WATER, INDUCE VOMITING BY PLACING TWO FINGERS AT THE BACK OF THE THROAT. DO NOT MAKE UNCONSCIOUS PERSON VOMIT. CALL PHYSICIAN.

VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

STABLE.

INCOMPATIBILITY

STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

SHORT CHAIN HYDROCARBONS, CARBON MONOXIDE, CARBON DIOXIDE

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

ELIMINATED SOURCES OF IGNITION. PICK UP WITH SUITABLE NONCOMBUSTIBLE ABSORBENT. PREVENT LIQUID FROM ENTERING WATERWAYS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL.

NEUTRALIZING CHEMICALS

NA

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS

VIII. INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

MECHANICAL, GENERAL ROOM VENTILATION TO MAINTAIN TLV.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY

IF CONCENTRATION EXCEEDS TLV,USE A NIOSH APPROVED CHEMICAL CARTRIDGE RESPIR

EYE

GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS

GLOVES

CHEMICAL RESISTANT

OTHER CLOTHING AND EQUIPMENT

EYEWASH, SHOWER, LONG SLEEVES

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

QUIK-FOAM IS MODERATELY TOXIC TO FISH. DO NOT USE, SPILL OR DISCARD WHERE IT MAY LEACH, SPILL, OR RUN OFF INTO WATERWAYS.
KEEP AWAY FROM FLAMES OR SPARKS.

OTHER HANDLING AND STORAGE REQUIREMENTS

STORE IN COOL AND WELL VENTILATED AREA, SEPARATE FROM OXIDIZING AGENTS. "EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.
SEE 49 CFR 173.150(1)(e) AND (2) FOR SHIPPING DESCRIPTION RECLASSIFICATION.

X. DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME :
NOT REGULATED IN PACKAGES <119 GALS

PLACARDS :
NONE

HAZARD CLASS :
NONE

REPORTABLE QUANTITY :
NONE

HAZARDOUS SUBSTANCE :
ISOPROPYL ALCOHOL, ETHANOL

ID NUMBER :
NONE

LABEL :
NOT REGULATED WHEN SHIPPED IN CONTAINERS OF LESS THAN 119 GALLONS

XI. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS

Comprehensive Environmental Response, Compensation and Liability Act of 1980, (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product which may require notification are:

Chemical	CAS Number
ISOPROPYL ALCOHOL	67-63-0
ETHANOL	64-17-5

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on RQs.
Components present in this product at a level which could require reporting under the statute are:

ETHANOL REPORTABLE QUANTITY 5000 LBS

SARA requires the submission of annual reports of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS that are copied and distributed for this material.
Components present in this product at a level which could require reporting under the statute are:

ETHANOL

Toxic Substances Control Act (TSCA)
The ingredients of this product are on the TSCA inventory.

XII. STATE RIGHT TO KNOW

COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM) INGREDIENT DISCLOSURE LIST, MASSACHUSETTS SUBSTANCE LIST, NEW JERSEY RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST, AND PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.