

HIP - 96

**GENERAL
CORRESPONDENCE**

YEAR(S):

2005

COVER LETTER

June 16, 2005

Richard Duarte
El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
TEL: (505) 831-7763
FAX

RE: Gallup District

Order No.: 0506140

Dear Richard Duarte:

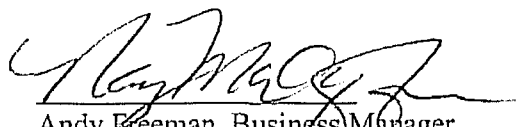
Hall Environmental Analysis Laboratory received 2 samples on 6/16/2005 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company

Client Sample ID: #1

Lab Order: 0506140

Collection Date: 6/15/2005 7:20:00 PM

Project: Gallup District

Lab ID: 0506140-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MAP
Fluoride	1.8	0.50		mg/L	5	6/16/2005
Chloride	26	0.50		mg/L	5	6/16/2005
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	6/16/2005
Bromide	ND	2.5		mg/L	5	6/16/2005
Nitrogen, Nitrate (As N)	1.2	0.50		mg/L	5	6/16/2005
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	6/16/2005
Sulfate	210	2.5		mg/L	5	6/16/2005
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO ₃)	170	2.0		mg/L CaCO ₃	1	6/16/2005
Carbonate	ND	2.0		mg/L CaCO ₃	1	6/16/2005
Bicarbonate	170	2.0		mg/L CaCO ₃	1	6/16/2005
EPA METHOD 8260: VOLATILES						Analyst: KTM
Benzene	8.8	2.0		µg/L	2	6/16/2005
Toluene	37	2.0		µg/L	2	6/16/2005
Ethylbenzene	5.1	2.0		µg/L	2	6/16/2005
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	6/16/2005
1,2,4-Trimethylbenzene	20	2.0		µg/L	2	6/16/2005
1,3,5-Trimethylbenzene	7.3	2.0		µg/L	2	6/16/2005
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	6/16/2005
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	6/16/2005
Naphthalene	5.8	4.0		µg/L	2	6/16/2005
1-Methylnaphthalene	ND	8.0		µg/L	2	6/16/2005
2-Methylnaphthalene	ND	8.0		µg/L	2	6/16/2005
Acetone	ND	20		µg/L	2	6/16/2005
Bromobenzene	ND	2.0		µg/L	2	6/16/2005
Bromochloromethane	ND	2.0		µg/L	2	6/16/2005
Bromodichloromethane	9.8	2.0		µg/L	2	6/16/2005
Bromoform	9.4	2.0		µg/L	2	6/16/2005
Bromomethane	ND	4.0		µg/L	2	6/16/2005
2-Butanone	ND	20		µg/L	2	6/16/2005
Carbon disulfide	ND	20		µg/L	2	6/16/2005
Carbon Tetrachloride	ND	2.0		µg/L	2	6/16/2005
Chlorobenzene	ND	2.0		µg/L	2	6/16/2005
Chloroethane	ND	4.0		µg/L	2	6/16/2005
Chloroform	6.3	2.0		µg/L	2	6/16/2005
Chloromethane	ND	2.0		µg/L	2	6/16/2005
2-Chlorotoluene	ND	2.0		µg/L	2	6/16/2005
4-Chlorotoluene	ND	2.0		µg/L	2	6/16/2005
cis-1,2-DCE	ND	2.0		µg/L	2	6/16/2005
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	6/16/2005

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company

Client Sample ID: #1

Lab Order: 0506140

Collection Date: 6/15/2005 7:20:00 PM

Project: Gallup District

Lab ID: 0506140-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	6/16/2005
Dibromochloromethane	16	2.0		µg/L	2	6/16/2005
Dibromomethane	ND	4.0		µg/L	2	6/16/2005
1,2-Dichlorobenzene	ND	2.0		µg/L	2	6/16/2005
1,3-Dichlorobenzene	ND	2.0		µg/L	2	6/16/2005
1,4-Dichlorobenzene	ND	2.0		µg/L	2	6/16/2005
Dichlorodifluoromethane	ND	2.0		µg/L	2	6/16/2005
1,1-Dichloroethane	ND	2.0		µg/L	2	6/16/2005
1,1-Dichloroethene	ND	2.0		µg/L	2	6/16/2005
1,2-Dichloropropane	ND	2.0		µg/L	2	6/16/2005
1,3-Dichloropropane	ND	2.0		µg/L	2	6/16/2005
2,2-Dichloropropane	ND	2.0		µg/L	2	6/16/2005
1,1-Dichloropropene	ND	2.0		µg/L	2	6/16/2005
Hexachlorobutadiene	ND	2.0		µg/L	2	6/16/2005
2-Hexanone	ND	20		µg/L	2	6/16/2005
Isopropylbenzene	ND	2.0		µg/L	2	6/16/2005
4-Isopropyltoluene	ND	2.0		µg/L	2	6/16/2005
4-Methyl-2-pentanone	ND	20		µg/L	2	6/16/2005
Methylene Chloride	ND	6.0		µg/L	2	6/16/2005
n-Butylbenzene	ND	2.0		µg/L	2	6/16/2005
n-Propylbenzene	3.4	2.0		µg/L	2	6/16/2005
sec-Butylbenzene	ND	2.0		µg/L	2	6/16/2005
Styrene	ND	2.0		µg/L	2	6/16/2005
tert-Butylbenzene	ND	2.0		µg/L	2	6/16/2005
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	6/16/2005
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	2	6/16/2005
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	6/16/2005
trans-1,2-DCE	ND	2.0		µg/L	2	6/16/2005
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	6/16/2005
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	6/16/2005
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	6/16/2005
1,1,1-Trichloroethane	ND	2.0		µg/L	2	6/16/2005
1,1,2-Trichloroethane	ND	2.0		µg/L	2	6/16/2005
Trichloroethene (TCE)	ND	2.0		µg/L	2	6/16/2005
Trichlorofluoromethane	ND	2.0		µg/L	2	6/16/2005
1,2,3-Trichloropropane	ND	4.0		µg/L	2	6/16/2005
Vinyl chloride	ND	2.0		µg/L	2	6/16/2005
Xylenes, Total	47	2.0		µg/L	2	6/16/2005
Sum: 1,2-Dichloroethane-d4	96.7	80-120		%REC	2	6/16/2005
Sum: 4-Bromofluorobenzene	99.1	80-120		%REC	2	6/16/2005
Sum: Dibromofluoromethane	96.3	80-120		%REC	2	6/16/2005
Sum: Toluene-d8	95.2	80-120		%REC	2	6/16/2005

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company

Client Sample ID: #1

Lab Order: 0506140

Collection Date: 6/15/2005 7:20:00 PM

Project: Gallup District

Lab ID: 0506140-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: MAP
Specific Conductance	890	0.010		µmhos/cm	1	6/16/2005
EPA 6010C: HARDNESS CALCULATION						Analyst: NMO
Hardness (As CaCO3)	180	5.0		mg/L	5	6/16/2005 9:32:41 AM
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Arsenic	0.32	0.10		mg/L	5	6/16/2005 9:32:41 AM
Barium	2.8	0.10		mg/L	5	6/16/2005 9:32:41 AM
Boron	1.1	0.20		mg/L	5	6/16/2005 9:32:41 AM
Cadmium	ND	0.010		mg/L	5	6/16/2005 9:32:41 AM
Calcium	62	5.0		mg/L	5	6/16/2005 9:32:41 AM
Chromium	0.13	0.030		mg/L	5	6/16/2005 9:32:41 AM
Copper	2.0	0.030		mg/L	5	6/16/2005 9:32:41 AM
Iron	140	2.0		mg/L	100	6/16/2005 9:29:41 AM
Lead	0.10	0.025		mg/L	5	6/16/2005 9:32:41 AM
Magnesium	5.3	5.0		mg/L	5	6/16/2005 9:32:41 AM
Manganese	3.1	0.010		mg/L	5	6/16/2005 9:32:41 AM
Potassium	ND	5.0		mg/L	5	6/16/2005 9:32:41 AM
Selenium	ND	0.10		mg/L	5	6/16/2005 9:32:41 AM
Silicon	18	4.0		mg/L	5	6/16/2005 9:32:41 AM
Silver	ND	0.025		mg/L	5	6/16/2005 9:32:41 AM
Sodium	140	5.0		mg/L	5	6/16/2005 9:32:41 AM
Zinc	6.1	0.50		mg/L	10	6/16/2005 9:11:59 AM
Silica	38	4.0		mg/L	5	6/16/2005 9:32:41 AM
EPA METHOD 150.1: PH						Analyst: MAP
pH	7.73	0.010		pH units	1	6/16/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company

Client Sample ID: Trip Blank

Lab Order: 0506140

Collection Date:

Project: Gallup District

Lab ID: 0506140-02

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES						Analyst: KTM
Benzene	ND	1.0		µg/L	1	6/16/2005
Toluene	ND	1.0		µg/L	1	6/16/2005
Ethylbenzene	ND	1.0		µg/L	1	6/16/2005
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/16/2005
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/16/2005
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/16/2005
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/16/2005
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/16/2005
Naphthalene	ND	2.0		µg/L	1	6/16/2005
1-Methylnaphthalene	ND	4.0		µg/L	1	6/16/2005
2-Methylnaphthalene	ND	4.0		µg/L	1	6/16/2005
Acetone	ND	10		µg/L	1	6/16/2005
Bromobenzene	ND	1.0		µg/L	1	6/16/2005
Bromochloromethane	ND	1.0		µg/L	1	6/16/2005
Bromodichloromethane	ND	1.0		µg/L	1	6/16/2005
Bromoform	ND	1.0		µg/L	1	6/16/2005
Bromomethane	ND	2.0		µg/L	1	6/16/2005
2-Butanone	ND	10		µg/L	1	6/16/2005
Carbon disulfide	ND	10		µg/L	1	6/16/2005
Carbon Tetrachloride	ND	1.0		µg/L	1	6/16/2005
Chlorobenzene	ND	1.0		µg/L	1	6/16/2005
Chloroethane	ND	2.0		µg/L	1	6/16/2005
Chloroform	ND	1.0		µg/L	1	6/16/2005
Chloromethane	ND	1.0		µg/L	1	6/16/2005
2-Chlorotoluene	ND	1.0		µg/L	1	6/16/2005
4-Chlorotoluene	ND	1.0		µg/L	1	6/16/2005
cis-1,2-DCE	ND	1.0		µg/L	1	6/16/2005
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/16/2005
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/16/2005
Dibromochloromethane	ND	1.0		µg/L	1	6/16/2005
Dibromomethane	ND	2.0		µg/L	1	6/16/2005
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/16/2005
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/16/2005
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/16/2005
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/16/2005
1,1-Dichloroethane	ND	1.0		µg/L	1	6/16/2005
1,1-Dichloroethene	ND	1.0		µg/L	1	6/16/2005
1,2-Dichloropropane	ND	1.0		µg/L	1	6/16/2005
1,3-Dichloropropane	ND	1.0		µg/L	1	6/16/2005
2,2-Dichloropropane	ND	1.0		µg/L	1	6/16/2005
1,1-Dichloropropene	ND	1.0		µg/L	1	6/16/2005

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company**Client Sample ID:** Trip Blank**Lab Order:** 0506140**Collection Date:****Project:** Gallup District**Lab ID:** 0506140-02**Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	1.0		µg/L	1	6/16/2005
2-Hexanone	ND	10		µg/L	1	6/16/2005
Isopropylbenzene	ND	1.0		µg/L	1	6/16/2005
4-Isopropyltoluene	ND	1.0		µg/L	1	6/16/2005
4-Methyl-2-pentanone	ND	10		µg/L	1	6/16/2005
Methylene Chloride	ND	3.0		µg/L	1	6/16/2005
n-Butylbenzene	ND	1.0		µg/L	1	6/16/2005
n-Propylbenzene	ND	1.0		µg/L	1	6/16/2005
sec-Butylbenzene	ND	1.0		µg/L	1	6/16/2005
Styrene	ND	1.0		µg/L	1	6/16/2005
tert-Butylbenzene	ND	1.0		µg/L	1	6/16/2005
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/16/2005
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	6/16/2005
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/16/2005
trans-1,2-DCE	ND	1.0		µg/L	1	6/16/2005
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/16/2005
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/16/2005
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/16/2005
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/16/2005
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/16/2005
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/16/2005
Trichlorofluoromethane	ND	1.0		µg/L	1	6/16/2005
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/16/2005
Vinyl chloride	ND	1.0		µg/L	1	6/16/2005
Xylenes, Total	ND	1.0		µg/L	1	6/16/2005
Surr: 1,2-Dichloroethane-d4	96.9	80-120		%REC	1	6/16/2005
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	6/16/2005
Surr: Dibromofluoromethane	103	80-120		%REC	1	6/16/2005
Surr: Toluene-d8	94.6	80-120		%REC	1	6/16/2005

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company
Work Order: 0506140
Project: Gallup District

QC SUMMARY REPORT

Method Blank

Sample ID: MBLK	Batch ID: R15710	Test Code: E300	Units: mg/L	Analysis Date: 6/16/2005	Prep Date:
Client ID:	Run ID: LC_050616A	SeqNo: 372239			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	ND	0.1			
Chloride	ND	0.1			
Nitrogen, Nitrite (As N)	ND	0.1			
Bromide	ND	0.5			
Nitrogen, Nitrate (As N)	ND	0.1			
Phosphorus, Orthophosphate (As P)	ND	0.5			
Sulfate	ND	0.5			

Sample ID: MBLK	Batch ID: R15707	Test Code: E310.1	Units: mg/L CaCO3	Analysis Date: 6/16/2005	Prep Date:
Client ID:	Run ID: WC_050616A	SeqNo: 372229			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total (As CaCO3)	ND	2			
Carbonate	ND	2			
Bicarbonate	ND	2			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: El Paso Natural Gas Company

Work Order: 0506140

Project: Gallup District

QC SUMMARY REPORT

Method Blank

Sample ID: 5 ML RB-B	Batch ID: R15704	Test Code: SW8260B	Units: µg/L	Analysis Date: 6/16/2005		Prep Date:					
Client ID:	Run ID: VAL_050615B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	ND	1									
Toluene	ND	1									
Ethylbenzene	ND	1									
Methyl tert-butyl ether (MTBE)	ND	1									
1,2,4-Trimethylbenzene	ND	1									
1,3,5-Trimethylbenzene	ND	1									
1,2-Dichloroethane (EDC)	ND	1									
1,2-Dibromoethane (EDB)	ND	1									
Naphthalene	ND	2									
1-Methylnaphthalene	ND	4									
2-Methylnaphthalene	ND	4									
Acetone	ND	10									
Bromobenzene	ND	1									
Bromochloromethane	ND	1									
Bromodichloromethane	ND	1									
Bromoform	ND	1									
Bromomethane	ND	2									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1									
Chlorobenzene	ND	1									
Chloroethane	ND	2									
Chloroform	ND	1									
Chloromethane	ND	1									
2-Chlorotoluene	ND	1									
4-Chlorotoluene	ND	1									
cis-1,2-DCE	ND	1									
cis-1,3-Dichloropropene	ND	1									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: El Paso Natural Gas Company

Work Order: 0506140

Project: Gallup District

QC SUMMARY REPORT

Method Blank

1,2-Dibromo-3-chloropropane	ND	2
Dibromochloromethane	ND	1
Dibromomethane	ND	2
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
1,3-Dichloropropane	ND	1
2,2-Dichloropropane	ND	1
1,1-Dichloropropene	ND	1
Hexachlorobutadiene	ND	1
2-Hexanone	ND	10
Isopropylbenzene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
1,1,1,2-Tetrachloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene (PCE)	ND	1
trans-1,2-DCE	ND	1
trans-1,3-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,4-Trichlorobenzene	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
3

QC SUMMARY REPORT

Method Blank

CLIENT: El Paso Natural Gas Company

Work Order: 0506140

Project: Gallup District

[illegible]

Sample ID: MB	Batch ID: R15702	Test Code: SW6010A	Units: mg/L	Analysis Date: 6/16/2005 8:59:54 AM	Prep Date:
---------------	------------------	--------------------	-------------	-------------------------------------	------------

Client ID: Run ID: ICP_050616A

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.02									
Barium	ND	0.02									
Boron	ND	0.04									
Cadmium	ND	0.002									
Calcium	ND	1									
Chromium	ND	0.006									
Copper	ND	0.006									
Iron	ND	0.02									
Lead	ND	0.005									
Magnesium	ND	1									
Manganese	ND	0.002									
Potassium	ND	1									
Selenium	ND	0.02									
Silver	ND	0.005									
Sodium	ND	1									
Zinc	ND	0.05									
Yttrium	100.6	0									
Yttrium Radial	101	0									
Silica	ND	0.8									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 16-Jun-05

CLIENT: El Paso Natural Gas Company
 Work Order: 0506140
 Project: Gallup District

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: R15710	Test Code: E300	Units: mg/L	Analysis Date: 6/16/2005	Prep Date:						
Client ID:	Run ID:	LC_050616A	SeqNo:	372240							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.4788	0.1	0.5	0	95.8	90	110	0			
Chloride	4.627	0.1	5	0	92.5	90	110	0			
Nitrogen, Nitrite (As N)	0.9685	0.1	1	0	96.9	90	110	0			
Bromide	2.422	0.5	2.5	0	96.9	90	110	0			
Nitrogen, Nitrate (As N)	2.395	0.1	2.5	0	95.8	90	110	0			
Phosphorus, Orthophosphate (As P)	4.86	0.5	5	0	97.2	90	110	0			
Sulfate	9.674	0.5	10	0	96.7	90	110	0			

Sample ID: 100ng lcs-b	Batch ID: R15704	Test Code: SW8260B	Units: µg/L	Analysis Date: 6/16/2005	Prep Date:						
Client ID:	Run ID: VAL_050615B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	22.16	1	20	0	111	80	130	0			
Toluene	25.18	1	20	0	126	87.5	128	0			
Chlorobenzene	23.09	1	20	0	115	76.2	130	0			
1,1-Dichloroethene	19.14	1	20	0	95.7	73.3	130	0			
Trichloroethene (TCE)	20.09	1	20	0	100	76.9	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: El Paso Natural Gas Company
 Work Order: 0506140
 Project: Gallup District

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: R15702	Test Code: SW6010A	Units: mg/L	Analysis Date: 6/16/2005 9:02:50 AM	Prep Date:
Client ID:	Run ID: ICP_050616A	PQL	SPK value	SeqNo: 372168	
Analyte	Result	%REC	LowLimit	HighLimit	RPD Ref Val
Arsenic	0.5665	113	80	120	0
Barium	0.5323	106	80	120	0
Boron	0.5307	106	80	120	0
Cadmium	0.5435	109	80	120	0
Calcium	53.74	106	80	120	0
Chromium	0.5345	107	80	120	0
Copper	0.5417	108	80	120	0
Iron	0.5165	103	80	120	0
Lead	0.5449	109	80	120	0
Magnesium	54.73	108	80	120	0
Manganese	0.5291	106	80	120	0
Potassium	55.08	100	80	120	0
Selenium	0.5284	106	80	120	0
Silver	0.5444	109	80	120	0
Sodium	54.61	108	80	120	0
Zinc	0.5448	109	80	120	0
Yttrium	95.53	95.5	70	130	0
Yttrium Radial	98.5	98.5	70	130	0
Silica	5.788	107	80	120	0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: El Paso Natural Gas Company
 Work Order: 0506140
 Project: Gallup District

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: LCSD	Batch ID: R15702	Test Code: SW6010A	Units: mg/L	Analysis Date: 6/16/2005 9:05:50 AM	Prep Date:						
Client ID:	Run ID:	ICP_050616A	SeqNo:	372169							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5627	0.02	0.5	0	113	80	120	0.5665	0.667	20	
Barium	0.5325	0.02	0.5	0	106	80	120	0.5323	0.0319	20	
Boron	0.5399	0.04	0.5	0	108	80	120	0.5307	1.72	20	
Cadmium	0.5444	0.002	0.5	0	109	80	120	0.5435	0.166	20	
Calcium	53.96	1	50.5	0	107	80	120	53.74	0.407	20	
Chromium	0.5329	0.006	0.5	0	107	80	120	0.5345	0.306	20	
Copper	0.5412	0.006	0.5	0	108	80	120	0.5417	0.0919	20	
Iron	0.5162	0.02	0.5	0	103	80	120	0.5165	0.0640	20	
Lead	0.5432	0.005	0.5	0	109	80	120	0.5449	0.301	20	
Magnesium	54.88	1	50.5	0	109	80	120	54.73	0.268	20	
Manganese	0.5294	0.002	0.5	0	106	80	120	0.5291	0.0559	20	
Potassium	55.26	1	55	0	100	80	120	55.08	0.327	20	
Selenium	0.5179	0.02	0.5	0	104	80	120	0.5284	2.02	20	
Silver	0.5431	0.005	0.5	0	109	80	120	0.5444	0.242	20	
Sodium	54.7	1	50.5	0	108	80	120	54.61	0.169	20	
Zinc	0.5479	0.05	0.5	0	110	80	120	0.5448	0.576	20	
Yttrium	95.56	0	100	0	95.6	70	130	95.53	0.0354	20	
Yttrium Radial	99.51	0	100	0	99.5	70	130	98.5	1.02	20	
Silica	5.169	0.8	5.42	0	95.4	80	120	5.788	11.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CONTRACT

Page

FM-08-0566 (05/2003)

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name EL PASO NG

Date and Time Received:

6/16/2005

Work Order Number 0506140

Received by

BDH

Checklist completed by

B. Schlepper
Signature

6-16-05
Date

Matrix

Carrier name Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

N/A ☐

Container/Temp Blank temperature?

5°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Martin, Ed, EMNRD

From: Campbell, Darrell G. [Darrell.Campbell@ElPaso.com]

Sent: Fri 6/17/2005 2:46 PM

To: Nancy McDuffie; Duarte, Ricardo (Richard)

Cc: Martin, Ed, EMNRD

Subject: RE: Belen Hydrotest Water Results -

Attachments:

Nancy,

The metals should be Total Metals, not Dissolved

Darrell

From: Nancy McDuffie [mailto:nancy@hallenvironmental.com]

Sent: Thursday, June 16, 2005 2:23 PM

To: Duarte, Ricardo (Richard)

Cc: ed.martin@state.nm.us; Campbell, Darrell G

Subject: RE: Belen Hydrotest Water Results -

Here are your results

Nancy McDuffie

Laboratory Manager

Hall Environmental Analysis Laboratory

4901 Hawkins NE #D

Albuquerque, NM 87109

505.345.3975 fax 505.345.4107

From: Duarte, Ricardo (Richard) [mailto:Ricardo.Duarte@ElPaso.com]

Sent: Thursday, June 16, 2005 9:34 AM

To: nancy@hallenvironmental.com

Subject: Belen Hydrotest Water Results -

Nancy:

I got your message this AM regarding the TDS (we had previously agreed this was not to be included in the quick turn-around results). Yes, that is fine. With regard to the other results, please modify the previous mailing list to the following:

Only the State employee has changed (previously provided you with his home email).

ricardo.duarte@elpaso.com

ed.martin@state.nm.us

darrell.campbell@elpaso.com

Looking forward to seeing the results. When would be reasonable to see them come my way (so I can carve out the computer face time for that time slot).

Again, thank you,

Richard (505) 831-7763

This email and any files transmitted with it from the ElPaso Corporation are confidential and intended solely for the use of the individual or entity to whom they are addressed.

If you have received this email in error please notify the sender.

This email and any files transmitted with it from the ElPaso Corporation are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

Martin, Ed, EMNRD

From: nancy [nancy@hallenvironmental.com]
To: 'Campbell, Darrell G'
Cc: 'Duarte, Ricardo (Richard)'; Martin, Ed, EMNRD
Subject: RE: Belen Hydrotest Water Results -
Attachments:

Sent: Fri 6/17/2005 2:55 PM

It take six hours to digest total, so we could not do total on expedited turn around.

From: Campbell, Darrell G [mailto:Darrell.Campbell@ElPaso.com]
Sent: Friday, June 17, 2005 2:46 PM
To: Nancy McDuffie; Duarte, Ricardo (Richard)
Cc: ed.martin@state.nm.us
Subject: RE: Belen Hydrotest Water Results -

Nancy,

The metals should be Total Metals, not Dissolved.

Darrell

From: Nancy McDuffie [mailto:nancy@hallenvironmental.com]
Sent: Thursday, June 16, 2005 2:23 PM
To: Duarte, Ricardo (Richard)
Cc: ed.martin@state.nm.us; Campbell, Darrell G
Subject: RE: Belen Hydrotest Water Results -

Here are your results

Nancy McDuffie

Laboratory Manager

Hall Environmental Analysis Laboratory

4901 Hawkins NE #D

Albuquerque, NM 87109

505.345.3975 fax 505.345.4107

From: Duarte, Ricardo (Richard) [mailto:Ricardo.Duarte@ElPaso.com]
Sent: Thursday, June 16, 2005 9:34 AM
To: nancy@hallenvironmental.com
Subject: Belen Hydrotest Water Results -

Nancy:

I got your message this AM regarding the TDS (we had previously agreed this was not to be included in the quick turn-around results). Yes, that is fine. With regard to the other results, please modify the previous mailing list to the following:

Only the State employee has changed (previously provided you with his home email).

ricardo.duarte@elpaso.com

ed.martin@state.nm.us

darrell.campbell@elpaso.com

Looking forward to seeing the results. When would be reasonable to see them come my way (so I can carve out the computer face time for that time slot).

Again, thank you,

Richard (505) 831-7763

This email and any files transmitted with it from the ElPaso Corporation are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

This email and any files transmitted with it from the ElPaso Corporation are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.



HAND DELIVERED

May 20, 2005

Mr. Mechenbier,
4400 Alameda Blvd. NE
Suite E
Albuquerque, NM 87113

Re: Discharge Hydrostatic Test Water from EPNG's 1300 Pipeline near Belen, NM.

Dear Mr. Landowner:

Please accept this letter as a summary of our recent verbal agreement that allows El Paso Natural Gas Company ("EPNG") to discharge approximately 104,000 gallons of water onto your property. The water will be generated when EPNG conducts its hydrostatic test on the 1300 pipeline on about June 16, 2005.

If the above does not capture our agreement (specifically regarding the water discharge), please let me know. In addition, if you wish to see a copy of the New Mexico Oil Conservation Division - Environmental Bureau's approval for the water discharge let me know.

Lastly, if you have any questions or concerns regarding this upcoming event, feel free to contact me at (505) 722-3625 or the Gallup Area Lead, Mr. Mike Maloy. His cell phone number is (505) 879-3317.

Sincerely,
EL PASO NATURAL GAS COMPANY

A handwritten signature in cursive script that reads "Donald W. Campbell".

Donald W. Campbell, Manager
Gallup Area - Albuquerque Division
Transmission Operations

May 12, 2005

HI-96

Mr. Ed Martin, Environmental Engineer
New Mexico Oil Conservation Division
Environmental Bureau – District 4
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Certified Mail/ Return Receipt Requested
7004 2510 0003 3001 1920

Re: Request for a Permit to Discharge Hydrostatic Test Water from EPNG's 1300 Pipeline near Belen, NM.

Dear Mr. Martin:

El Paso Natural Gas Company (EPNG) is planning to hydrostatic test an estimated ½-mile section of its No. 1300 pipeline west of its Belen Compressor Station. The water discharge is estimated to be about 104,000-gallons. The test is scheduled to begin on June 16, 2005 and end late on June 17, 2005.

EPNG is taking extra measures to make certain that the quality of the source water is not detrimentally impacted during this process so it can be discharged onto the farmland on and around EPNG's Right-of-way. In brief those measures are:

1. **Cleansing of pipeline.** While EPNG transports only pipeline quality natural gas for delivery to end-users, it will cleanse the pipeline utilizing water and a non-hazardous cleaner to remove any residual oil or other deleterious substances that may be present in the pipeline. The rinsate solution will be containerized and transported off-site for recycling.
2. **Usage of extra clean tanks for water storage.** We will be using water storage tanks supplied from a company, Rain-for-Rent, from Phoenix, AZ. This is in opposition to using frac-tanks typically engaged in various oil-patch applications that at times may be difficult to clean prior to usage.

With the exception of the land owner approval letter, the information attached herein is provided in accordance with the NMOCD's Guidelines for Hydrostatic Test Dewatering (May 1989). The landowner approval letter will be provided as soon as it is secured. If you have any questions on any of this information or you need additional information, please contact me at (505) 831-7763.

Sincerely,



Richard Duarte
Principal Environmental Engineer
Pipelines West – Environmental Department

NMOCD
Hydrostatic Discharge Request
May 12, 2005

Blind Copy (w/out enclosures):

Donald Campbell
Sandra D. Miller (for PWED filing in Colo. Springs, CO)
Randy Mc Knight (Station #3)

File: Belen Station – Environmental file
Duarte's Chron. (w/out enclosures)

NMOCD Hydrostatic Test Information

EPNG's Pipeline 1300 Near Belen, NM

June 2005

Hydrostatic Test Information

a) Map showing the location of the pipelines to be tested;

A pipeline map and an alignment sheet are attached in tab #1.

b) Description of the test;

EPNG will be testing one length of pipe, approximately ½-miles of 30-inch pipeline to satisfy the pipeline safety requirements of the US Department of Transportation – Pipeline Safety Regulations (Reference Title 49 CFR Parts 186 to 199). The CFR Parts prescribes the procedures used by the Research and Special Programs Administration in carrying out the duties regarding the pipeline safety under the laws of 49 USC 60101 and other laws (the pipeline safety laws).

EPNG transports pipeline quality gas (sweet and dry) in this pipeline system that is suitable for consumer usage. This gas is supplied to EPNG by various shippers and other transporters and has been treated to remove all liquids and deleterious substances prior to entry into the EPNG pipeline system. EPNG has an elaborate gas quality monitoring system for all natural gas entering the pipeline. This system is utilized to ensure that EPNG meets with its Natural Gas Tariff on file with the Federal Energy Regulatory Commission (FERC), which maintains strict standards for the natural gas quality entering EPNG's pipeline system.

Location of work:

Mile Post 259+ 0015
Mile Post 259+2839
30" pipeline
DWG # 1300.00-052.00
Township 5 North
Range 2 East
Valencia County, New Mexico

EPNG is proposing to conduct the hydrostatic test in three distinct phases:

- 1) Cleanse the pipeline. The pipeline will be cleansed with approximately 100-gallons a non-hazardous chemical, N-Spec 120, specifically made for cleaning pipelines and mixed with water. The MSD sheet for this product is attached in tab #2 for your information.
- 2) Fill pipeline with approximately 104,000 gallons of water (previously stored in very clean tanks) and conduct hydrostatic test pipeline segment for 8-hours per US DOT requirements; and,
- 3) Then, if all applicable criteria are met (outlined in section i below), land-apply the water onto and around EPNG's Right-of-way.

c) Source and analysis of test water;

EPNG has secured approval from the landowner, where the discharge is proposed, to use his water well near the vicinity of the test. A sample of a nearby water well (shallower production screen and 1/2-mile from designated source well) was acquired in April 2005 and analyzed for organic compounds, major anions and cations, heavy metals, semi-volatile and volatile organic compounds, TDS, Fe, Mn, pH and conductivity as recommended by the NMOCD guidelines. Those results are attached in tab #3 for your information and expect the actual source water to be of the similar characteristics.

d) Point of discharge of the test water;

The water will be land applied onto and around EPNG's Right-of-way that is currently a wheat field as shown on the eastern most the segment of pipeline being tested, provided the water-quality criteria (mentioned below) is met. The water will be discharged onto a hay-bale structure (underlined with plywood or other impervious material) to dissipate water energy and catch solids. The water will be allowed to flood within the farmland (currently planted with wheat); however, no water will be allowed to enter into an arroyo, canal or other apparent water way. A copy of the landowner's approval letter will be provided as soon as it is secured.

e) Method and location for collection and retention of fluids and solids;

Wash-runs and cleaning agents: In an attempt to mitigate contamination of the hydrostatic test water, EPNG is proposing to conduct two "wash-runs" prior to filling the pipeline. Based on EPNG's operating knowledge of this segment of the pipeline, it has trace or no oils currently present. The purpose of the two wash-runs is to eliminate any residual oil, grease, hydrocarbons or other deleterious substances that may be present in this segment. A wash-run for this testing event, will entail approximately 55 gallons of the cleaning agent, N-Spec 120, mixed with about 500 gallons of water and one bi-directional disc-pig to push the cleaning agents through the affected pipeline segment. The rinsate from both pig-runs will be collected in one 20,000-gallon Frac-tank and transported to EPNG's Belen Station for recycling.

Hydrostatic Test Water. Prior to the hydrostatic test, the source water will be stored in extra clean water-storage tanks (each with a 20,000-gallon capacity) supplied from Rain-for-Rent, from Phoenix, AZ.

Water Sample procurement. EPNG will be securing a water sample immediately after the pipeline is filled but before the pipeline segment enters the 8-hour test period. This sample will be immediately transported to Albuquerque for immediate analysis.

A second composite water sample will be captured from the hay-bale structure during the discharge. The results for this sample will be analyzed as rush-samples, with about a week turnaround.

f) Monitoring program;

In addition to the initial water sample secured prior to the test (from the within the pipeline segment), EPNG is proposing to collect one additional composite water sample from the beginning, middle and end of the discharge from the hay-bale structure. However, the second sample would include semi-volatile organics and total dissolved solids and would not be analyzed the same day (as the first sample), but turned around in about a week.

g) Depth of ground water at discharge and collection/retention site;

Depth to groundwater is estimated to be about 80 feet.

h) Geological characteristics;

Topsoil is silt with mostly wind-blown sand and it is irrigated farmland. The subsurface soils are chiefly sand sediment mixed with intermittent silt and clayey deposits.

i) Plan for disposal of test water and solids;

With NMOCD's prior approval, EPNG is proposing to immediately discharge the water directly from the pipeline upon completion of the 8-hour pipeline pressure test.

In short the process will entail the following steps:

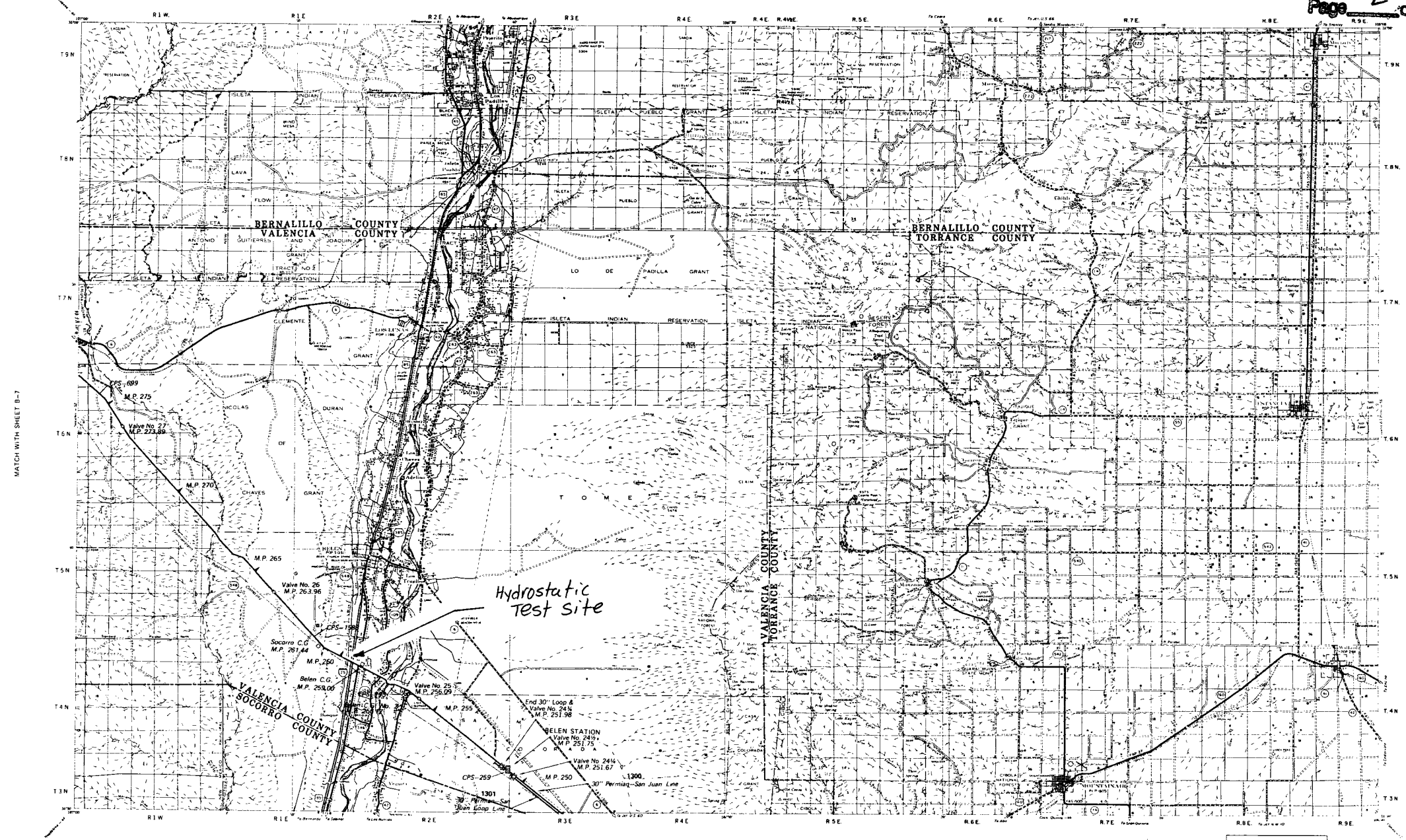
1. Prior to the test, EPNG will store the hydrostatic test water (in preparation for the test) in extra-clean tanks supplied by Rain-for-Rent from Phoenix, AZ.
2. EPNG will cleanse the pipeline using water and a non-hazardous cleaning agent as an added measure to conserve the good quality of the source water. The rinsate from the two cleaning runs

will be collected in one 20,000-gallon Frac-tank and transported to EPNG's Belen Station for recycling.

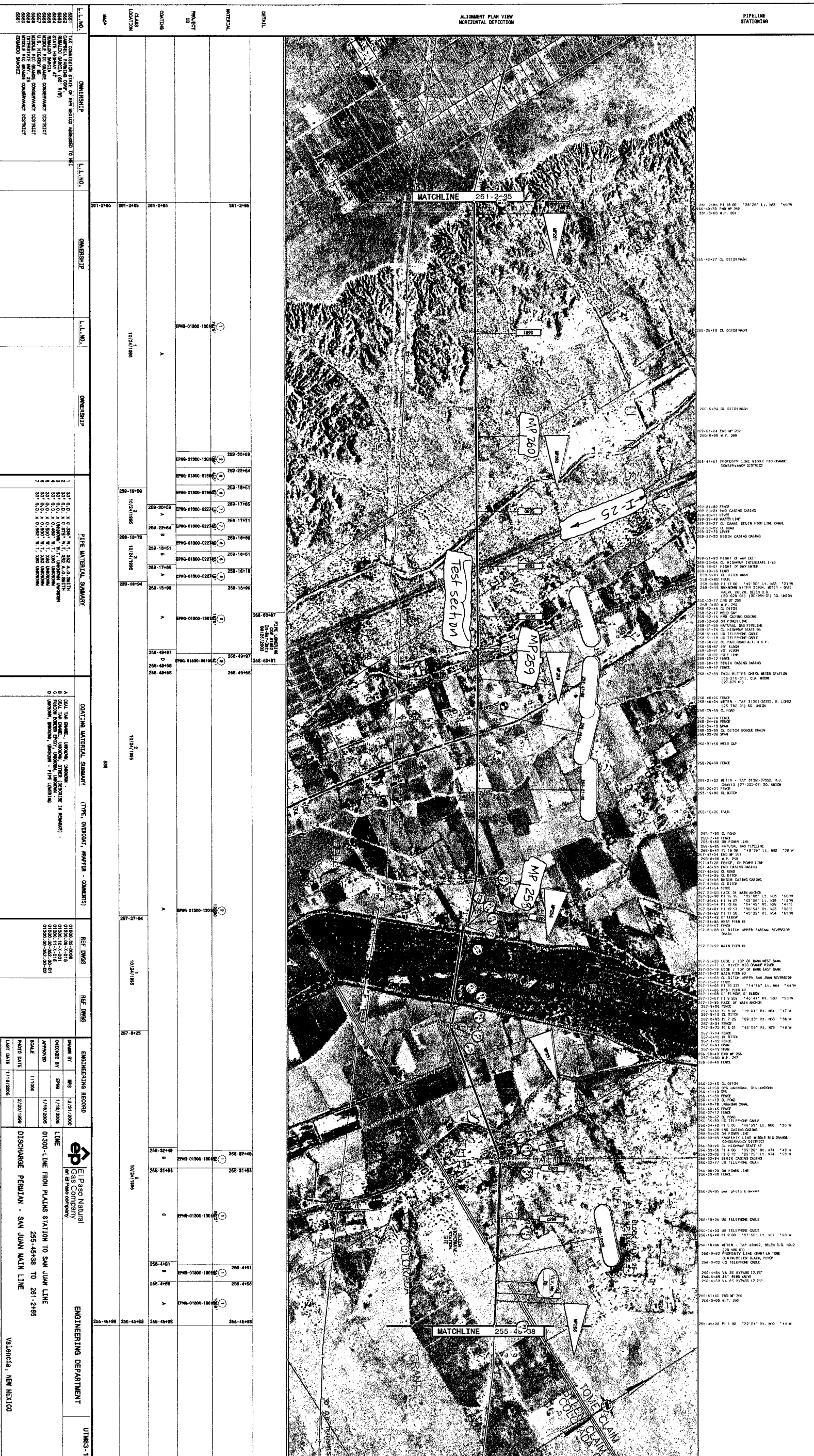
3. EPNG will secure a water sample directly from the pipeline prior to entering the 8-hour hydrostatic test period and immediately analyze it at a NELAC-certified laboratory in Albuquerque, NM.
4. The water results will be promptly forwarded to the NMOCD for rapid review and their approval. The sample will be analyzed for total dissolved metals, anions, general analyses (ph, conductivity, alkalinity, and hardness) and volatile organic compounds.
5. Upon NMOCD approval, EPNG is proposing to land-apply the water onto its Right-of-way and around it.
6. Should the water reveal a concern to the NMOCD (and immediate discharge is not approved), EPNG will store the water back into the Rain-for-Rent tanks and develop a separate disposal plan for evaluation and approval by NMOCD. Any solids left in the frac-tanks will be collected, characterized and disposed accordingly.
7. If discharge occurs immediately after the pressure test, the hay-bale structure will be allowed to dry and, if the level of hazardous constituents present in the discharged water poses a threat, the hay will be characterized for proper waste disposal. If no concern is raised regarding the level and/or presence of hazardous constituents in the discharge water, the dried hay-bales will be disposed as solid waste.

j) Written permission from the landowner of collection/retention site;

The approval letter is presently being procured from the land owner (Mr. M) and will be forwarded to NMOCD as soon as possible.



THIS MAP WAS PREPARED BY THE NEW MEXICO STATE HIGHWAY DEPARTMENT FROM AERIAL PHOTOGRAPHS AND OTHER SOURCES.



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	N-SPEC 120 Cleaner	Code	
Supplier	Coastal Chemical Co., L.L.C. 3520 Veterans Memorial Drive Abbeville, LA 70510 337-893-3862	MSDS#	Not available.
Synonym	Not available.	Validation Date	9/2/2004
Trade name	Not available.	Print Date	9/2/2004
Material Uses	Not available.	Responsible Name	Charles Touns
Manufacturer	Coastal Chemical Co., L.L.C. 3520 Veterans Memorial Drive Abbeville, LA 70510 337-893-3862	In Case of Emergency	Transportation Emergency Call CHEMTREC 800-424-9300 Other Information Call Charles Touns 337-261-0796

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Confidential information			

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Emergency Overview	CAUTION! MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. Keep away from heat, sparks and flame. Avoid contact with eyes. Do not ingest. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of Entry	Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<i>Eyes</i> Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. <i>Skin</i> Irritation of the product in case of skin contact: Not available. Hazardous in case of skin contact <i>Inhalation</i> Hazardous in case of inhalation. <i>Ingestion</i> Hazardous in case of ingestion.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.
Overexposure /Signs/Symptoms	Not available.
See Toxicological Information (section 11)	

Continued on Next Page

N-SPEC 120 Cleaner

Page: 2/6

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Not available
Auto-ignition Temperature	Not available.
Flash Points	Tested - No Flash present
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	The concentrated form of this material is a cleaner. During application, hazardous material on the apparatus or structure being cleaned may become part of the cleaning solution. Check with all applicable regulations before disposing of the material created during application.
Large Spill and Leak	The concentrated form of this material is a cleaner. During application, hazardous material on the apparatus or structure being cleaned may become part of the cleaning solution. Check with all applicable regulations before disposing of the material created during application.

Continued on Next Page

Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Storage	Keep container tightly closed and in a well-ventilated place.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Safety glasses.
Body	Lab coat.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Impervious gloves.
Feet	Not applicable.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Product Name	Exposure Limits
Confidential information	
Consult local authorities for acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Blue. (Dark.)
pH (1% Soln/Water)	6 to 8 [Neutral.]		
Boiling/Condensation Point	The lowest known value is 100°C (212°F) (Water). Weighted average: 140.43°C (284.8°F)		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -46.19°C (-51.1°F)		
Critical Temperature	Not available.		
Specific Gravity	0.9 to 0.98 (Water = 1)		
Vapor Pressure	The highest known value is 2.3 kPa (17.2 mm Hg) (at 20°C) (Water). Weighted average: 1.17 kPa (8.78 mm Hg) (at 20°C)		
Vapor Density	The highest known value is 5.11 (Air = 1). Weighted average: 2.93 (Air = 1)		
Volatility	Not available.		
Odor Threshold	The highest known value is 34.6 ppm		
Evaporation Rate	0.02 compared to Butyl acetate		
VOC	Not available.		

Continued on Next Page

N-SPEC 120 Cleaner

Page: 4/6

Viscosity	Not available.
LogK _{ow}	The product is much more soluble in water.
Ionicity (in Water)	Anionic.
Dispersion Properties	See solubility in water, methanol, diethyl ether.
Solubility	Easily soluble in cold water, hot water, methanol, diethyl ether. Insoluble in n-octanol.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents, acids. Slightly reactive to reactive with reducing agents.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 1900 mg/kg [Rat]. Acute dermal toxicity (LD50): 9510 mg/kg [Rabbit].
Chronic Effects on Humans	No additional remark.
Other Toxic Effects on Humans	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (sensitizer).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available. These products are carbon oxides (CO, CO ₂) and water, nitrogen oxides (NO, NO ₂ ...), sulfur oxides (SO ₂ , SO ₃ ...), phosphates. Some metallic oxides.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Continued on Next Page

N-SPEC 120 Cleaner

Page: 5/6

Special Remarks on the
Products of
Biodegradation

Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.

Section 14. Transport Information

Shipping Description Not a DOT controlled material (United States).

Not regulated.

Reportable Quantity 11061.8 lbs. (5016.7 kg)

Marine Pollutant Not regulated - Alkylaryl sulfonate amine salt - less then 10 % .

Special Provisions for
Transport Contains alkylbenzenesulfonate

Section 15. Regulatory Information

HCS Classification CLASS: Target organ effects.

U.S. Federal Regulations TSCA 8(a) PAIR: contains Alkylbenzenesulfonate
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

International Regulations

EINECS Not available.

DSCL (EEC) Risk to eyes.
May cause irritation by skin contact.
R322- May be harmful if swallowed. R36/38- Irritating to eyes and skin.

International Lists No products were found.

State Regulations Pennsylvania RTK: Dipropylene glycol monomethyl ether; Trade Secret; Gylcol Ether PNB
Florida: Dipropylene glycol monomethyl ether; Ethanol
Minnesota: Dipropylene glycol monomethyl ether
Massachusetts RTK: Dipropylene glycol monomethyl ether; Ethanol
New Jersey: Ethanol; Gylcol Ether PNB

WARNING: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethanol

Continued on Next Page

N-SPEC 120 Cleaner

Page: 6/6

Section 16. Other Information

Label Requirements MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

**Hazardous Material
Information System
(U.S.A.)**

	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		B

National Fire
Protection
Association
(U.S.A.)



References Not available.

Other Special
Considerations Not available.

Validated by Charles Toups on 9/2/2004.

Verified by Charles Toups.

Printed 9/2/2004.

Emergency Phone
Transportation Emergency Call
1-800-424-9300
Other information Call
Charles Toups
(337) 261-5736

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



LABORATORY SERVICE REPORT

REQUESTOR: Campbell, Don (Gallup Area)
(505) 722-3625

REPORT DATE: 3/31/2005
REQUEST NO: 2005030302
APPROVED BY: Campbell
PENDING REQ. ID: 2005030302

DISTRIBUTION: Malloy Mike; Hubbell, Homer; Duarte, Richard; Weaver, Isaac L (Ike); McKnight, Randall K (Randy)

PERFORMED BY: Aerotech Environmental Laboratories

Request Description: 1300 Line Hydrotest Potential Source Water - Belen Farm Well
Date Received: 3/16/2005
Date Completed: 3/28/2005

Sample No: 1 **Lab ID:** 58637 **Sampled By:** Darrell Campbell **Sample Date:** 3/18/2005 2:00:00 PM
Description:
Analysis: WP New Mexico Hydrotest
Purpose: Disposal/Environmental Concerns
Matrix: Water
Location: EPNG - Albuquerque - Gallup - 01300 - 259+2839.4 - Hydrostatic Test - Source Water

Data: See attached sheet(s).

Comments:

This report has been prepared for the private and exclusive use of El Paso Corporation and its affiliates and its delivery to any other person is upon the expressed understanding and condition that no representations or warranties, expressed or implied, are contained herein with respect to any of the information set forth in the report. If the purpose of this sample(s) is "External Corrosion", "Internal Corrosion", and/or "Pigging Samples", the interpretation of this report is the responsibility of Pipeline Services. Field Operations will only be contacted by Pipeline Services if the results require any action to be taken.

Sample: 1

Total Metals

Arsenic	mg/l	0.0022
Barium	mg/l	0.034
Boron	mg/l	0.27
Cadmium	mg/l	< 0.0010
Calcium	mg/l	72
Chromium	mg/l	< 0.0010
Copper	mg/l	0.02
Iron	mg/l	0.44
Lead	mg/l	0.0018
Magnesium	mg/l	22
Manganese	mg/l	0.021
Mercury	mg/l	< 0.00020
Potassium	mg/l	8.5
Selenium	mg/l	0.0028
Silica	mg/l	32
Silver	mg/l	< 0.0010
Sodium	mg/l	130
Zinc	mg/l	0.021

Anions

Bromide	mg/l	< 0.50
Chloride	mg/l	49
Fluoride	mg/l	1.1
Nitrate, as N	mg/l	4.1
Sulfate	mg/l	190

General Analyses

pH		8.01
Specific Conductivity	µS/cm	980
Alkalinity, Carbonate (As CaCO ₃)	mg/l	< 2.0
Alkalinity, Bicarbonate (As CaCO ₃)	mg/l	230
Alkalinity, Total (As CaCO ₃)	mg/l	230
Hardness, Ca/Mg (As CaCO ₃)	mg/l	270
Total Dissolved Solids	mg/l	630

Volatile Organic Compounds

Benzene	mg/l	< 0.00050
Bromobenzene	mg/l	< 0.00050
Bromochloromethane	mg/l	< 0.00050
Bromodichloromethane	mg/l	< 0.00050
Bromoform	mg/l	< 0.00050
Bromomethane	mg/l	< 0.00050
n-Butylbenzene	mg/l	< 0.00050
sec-Butylbenzene	mg/l	< 0.00050
tert-Butylbenzene	mg/l	< 0.00050
Carbon tetrachloride	mg/l	< 0.00050
Chlorobenzene	mg/l	< 0.00050
Chloroethane	mg/l	< 0.00050
Chloroform	mg/l	< 0.00050
Chloromethane	mg/l	< 0.00050
2-Chlorotoluene	mg/l	< 0.00050

Sample:**1**

4-Chlorotoluene	mg/l	< 0.00050
Dibromochloromethane	mg/l	< 0.00050
1,2-Dibromo-3-chloropropane	mg/l	< 0.0020
1,2-Dibromoethane	mg/l	< 0.00050
Dibromomethane	mg/l	< 0.00050
1,2-Dichlorobenzene	mg/l	< 0.00050
1,3-Dichlorobenzene	mg/l	< 0.00050
1,4-Dichlorobenzene	mg/l	< 0.00050
Dichlorodifluoromethane	mg/l	< 0.00050
1,1-Dichloroethane	mg/l	< 0.00050
1,2-Dichloroethane	mg/l	< 0.00050
1,1-Dichloroethene	mg/l	< 0.00050
cis-1,2-Dichloroethene	mg/l	< 0.00050
trans-1,2-Dichloroethene	mg/l	< 0.00050
1,2-Dichloropropane	mg/l	< 0.00050
1,3-Dichloropropane	mg/l	< 0.00050
2,2-Dichloropropane	mg/l	< 0.00050
1,1-Dichloropropene	mg/l	< 0.00050
cis-1,3-Dichloropropene	mg/l	< 0.00050
trans-1,3-Dichloropropene	mg/l	< 0.00050
Ethylbenzene	mg/l	< 0.00050
Hexachlorobutadiene	mg/l	< 0.00050
Isopropylbenzene	mg/l	< 0.00050
Methylene chloride	mg/l	< 0.00050
Methyl t-butyl ether (MTBE)	mg/l	< 0.00050
Naphthalene	mg/l	< 0.00050
n-Propylbenzene	mg/l	< 0.00050
Styrene	mg/l	< 0.00050
1,1,1,2-Tetrachloroethane	mg/l	< 0.00050
1,1,2,2-Tetrachloroethane	mg/l	< 0.00050
Tetrachloroethene	mg/l	< 0.00050
Toluene	mg/l	< 0.00050
1,2,3-Trichlorobenzene	mg/l	< 0.00050
1,2,4-Trichlorobenzene	mg/l	< 0.00050
1,1,1-Trichloroethane	mg/l	< 0.00050
1,1,2-Trichloroethane	mg/l	< 0.00050
Trichloroethene	mg/l	< 0.00050
Trichlorofluoromethane	mg/l	< 0.00050
1,2,3-Trichloropropane	mg/l	< 0.0020
1,2,4-Trimethylbenzene	mg/l	< 0.00050
1,3,5-Trimethylbenzene	mg/l	< 0.00050
Vinyl chloride	mg/l	< 0.00050
o-Xylene	mg/l	< 0.00050
m,p-Xylene	mg/l	< 0.00050

Semi Volatiles Organic Compounds

Acenaphthene	µg/l	< 10
Acenaphthylene	µg/l	< 10
Anthracene	µg/l	< 10
Benz(a)anthracene	µg/l	< 10
Benzo(b)fluoranthene	µg/l	< 10
Benzo(k)fluoranthene	µg/l	< 10
Benzo(g,h,i)perylene	µg/l	< 10

<u>Sample:</u>		<u>1</u>
Benzo(a)pyrene	µg/l	< 10
Bis(2-chloroethoxy)methane	µg/l	< 10
Bis(2-chloroethyl)ether	µg/l	< 10
Bis(2-chloroisopropyl)ether	µg/l	< 10
Bis(2-ethylhexyl)phthalate	µg/l	< 5.1
4-Bromophenyl phenyl ether	µg/l	< 10
Butyl benzyl phthalate	µg/l	< 10
4-Chloro-3-methylphenol	µg/l	< 10
2-Chloronaphthalene	µg/l	< 10
2-Chlorophenol	µg/l	< 10
4-Chlorophenyl phenyl ether	µg/l	< 10
Chrysene	µg/l	< 10
Dibenz(a,h)anthracene	µg/l	< 10
Di-n-butyl phthalate	µg/l	< 10
1,2-Dichlorobenzene	µg/l	< 10
1,3-Dichlorobenzene	µg/l	< 10
1,4-Dichlorobenzene	µg/l	< 10
2,4-Dichlorophenol	µg/l	< 10
3,3'-Dichlorobenzidine	µg/l	< 10
Diethyl phthalate	µg/l	< 10
2,4-Dimethylphenol	µg/l	< 10
Dimethyl phthalate	µg/l	< 20
4,6-Dinitro-2-methylphenol	µg/l	< 51
2,4-Dinitrotoluene	µg/l	< 10
2,6-Dinitrotoluene	µg/l	< 10
2,4-Dinitrophenol	µg/l	< 51
Di-n-octyl phthalate	µg/l	< 10
Fluoranthene	µg/l	< 10
Fluorene	µg/l	< 10
Hexachlorobenzene	µg/l	< 10
Hexachlorobutadiene	µg/l	< 10
Hexachlorocyclopentadiene	µg/l	< 10
Hexachloroethane	µg/l	< 10
Indeno(1,2,3-cd)pyrene	µg/l	< 10
Isophorone	µg/l	< 10
Naphthalene	µg/l	< 10
Nitrobenzene	µg/l	< 10
2-Nitrophenol	µg/l	< 15
4-Nitrophenol	µg/l	< 25
N-Nitrosodimethylamine	µg/l	< 10
N-Nitrosodi-n-propylamine	µg/l	< 10
N-Nitrosodiphenylamine	µg/l	< 10
Pentachlorophenol	µg/l	< 51
Phenol	µg/l	< 10
Phenanthrene	µg/l	< 10
Pyrene	µg/l	< 10
1,2,4-Trichlorobenzene	µg/l	< 10
2,4,6-Trichlorophenol	µg/l	< 20

QA/QC can be provided
upon request.
PBT