HIP - ___106_____

MONITORING REPORTS

YEAR(S):

_____2007_____

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Tuesday, October 16, 2007 4:07 PM
To: 'Prescott, Michael'
Cc: Price, Wayne, EMNRD
Subject: RE: ABQ Uprate Analytical Results for Discharge on ROW

Mike,

I have reviewed the test results of the hydrostatic test water and they satisfy the conditions set forth in the approved permit and application. Please implement best management practices and erosion control measures when releasing the water. Also, please comply with the conditions of your permit (HI-10[illegible]) for on-site discharge.

This approval does not relieve PNM of responsibility should its operation result in pollution of surface water, ground water, or the environment. In addition, NMOCD approval does not relieve PNM of responsibility for compliance with other federal, state or local regulations.

Brad A. Jones
Environmental Engineer
Environmental Bureau
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: Prescott, Michael [mailto:Michael.Prescott@pnmresources.com]
Sent: Tuesday, October 16, 2007 10:18 AM
To: Jones, Brad A., EMNRD
Subject: FW: ABQ Uprate Analytical Results for Discharge on ROW

Brad,

Attached are the Analyticals for the two sampled tanks. Please let me know if you need anything else!

Thanks,

Michael Prescott
PNM Resources, Inc
505-241-0627

From: Tripp, David

Sent: Tuesday, October 16, 2007 10:14 AM
To: Prescott, Michael
Subject: ABQ Uprate Analytical Results for Discharge on ROW

As requeasted...

David Tripp
PNMR – ESD Compliance
dtripp@pnm.com
Phone: (505)241-4325
Mobile: (505)362-7382
Fax: (505)241-2384

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 15, 2007

Jon Jones
PNM
Alvarado Square MS 2104
Albuquerque, NM 87158

TEL: (505) 241-4325
FAX (505) 241-3284

RE: ALBUQUERQUE ML UPRATE

Order No.: 0710016

Dear Jon Jones:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 10/2/2007 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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-1st Tank 255788
Lab Order:	0710016	**Collection Date:**	9/26/2007 10:35:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: **JAT**
1,2-Dibromoethane	ND	0.010		µg/L	1	10/4/2007 2:21:05 PM
Surr: 1,2,3-Trichloropropane	98.7	69.1-138		%REC	1	10/4/2007 2:21:05 PM
EPA METHOD 8082: PCB'S						Analyst: **JMP**
Aroclor 1016	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1221	ND	5.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1232	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1242	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1248	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1254	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Aroclor 1260	ND	1.0		µg/L	1	10/4/2007 1:45:40 PM
Surr: Decachlorobiphenyl	84.8	45.3-140		%REC	1	10/4/2007 1:45:40 PM
Surr: Tetrachloro-m-xylene	72.8	28.1-139		%REC	1	10/4/2007 1:45:40 PM
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/3/2007 12:53:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/3/2007 12:53:55 PM
Surr: DNOP	106	58-140		%REC	1	10/3/2007 12:53:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/4/2007 4:07:45 AM
Surr: BFB	94.5	79.2-121		%REC	1	10/4/2007 4:07:45 AM
EPA METHOD 8310: PAHS						Analyst: **JMP**
Naphthalene	ND	2.0		µg/L	1	10/4/2007 1:49:07 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	10/4/2007 1:49:07 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	10/4/2007 1:49:07 PM
Acenaphthylene	ND	2.5		µg/L	1	10/4/2007 1:49:07 PM
Acenaphthene	ND	5.0		µg/L	1	10/4/2007 1:49:07 PM
Fluorene	ND	0.80		µg/L	1	10/4/2007 1:49:07 PM
Phenanthrene	ND	0.60		µg/L	1	10/4/2007 1:49:07 PM
Anthracene	ND	0.60		µg/L	1	10/4/2007 1:49:07 PM
Fluoranthene	ND	0.30		µg/L	1	10/4/2007 1:49:07 PM
Pyrene	ND	0.30		µg/L	1	10/4/2007 1:49:07 PM
Benz(a)anthracene	ND	0.050		µg/L	1	10/4/2007 1:49:07 PM
Chrysene	ND	0.20		µg/L	1	10/4/2007 1:49:07 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	10/4/2007 1:49:07 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/4/2007 1:49:07 PM
Benzo(a)pyrene	ND	0.030		µg/L	1	10/4/2007 1:49:07 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/4/2007 1:49:07 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-1st Tank 255788
Lab Order:	0710016	**Collection Date:**	9/26/2007 10:35:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: **JMP**
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	10/4/2007 1:49:07 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/4/2007 1:49:07 PM
Surr: Benzo(e)pyrene	93.5	68-116		%REC	1	10/4/2007 1:49:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **KS**
Fluoride	ND	0.10		mg/L	1	10/2/2007 7:01:31 PM
Chloride	18	0.10		mg/L	1	10/2/2007 7:01:31 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/3/2007 12:14:51 AM
Sulfate	33	0.50		mg/L	1	10/2/2007 7:01:31 PM
EPA METHOD 7470: MERCURY						Analyst: **CMS**
Mercury	ND	0.00020		mg/L	1	10/4/2007 3:16:21 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **TES**
Aluminum	ND	0.020		mg/L	1	10/8/2007 5:00:03 PM
Barium	ND	0.020		mg/L	1	10/8/2007 5:00:03 PM
Boron	ND	0.040		mg/L	1	10/8/2007 5:00:03 PM
Cadmium	ND	0.0020		mg/L	1	10/8/2007 5:00:03 PM
Chromium	ND	0.0060		mg/L	1	10/8/2007 5:00:03 PM
Cobalt	ND	0.0060		mg/L	1	10/8/2007 5:00:03 PM
Copper	ND	0.0060		mg/L	1	10/8/2007 5:00:03 PM
Iron	1.2	0.25		mg/L	5	10/8/2007 5:06:04 PM
Lead	ND	0.0050		mg/L	1	10/8/2007 5:00:03 PM
Manganese	0.38	0.0020		mg/L	1	10/8/2007 5:00:03 PM
Molybdenum	ND	0.0080		mg/L	1	10/8/2007 5:00:03 PM
Nickel	ND	0.010		mg/L	1	10/8/2007 5:00:03 PM
Silver	ND	0.0050		mg/L	1	10/8/2007 5:00:03 PM
Zinc	ND	0.050		mg/L	1	10/8/2007 5:00:03 PM
EPA METHOD 8260B: VOLATILES						Analyst: **LMM**
Benzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Naphthalene	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2007 2:07:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

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Lab Order:	0710016	**Collection Date:**	9/26/2007 10:35:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **LMM**
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2007 2:07:00 PM
Acetone	14	10		µg/L	1	10/3/2007 2:07:00 PM
Bromobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Bromochloromethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Bromodichloromethane	1.9	1.0		µg/L	1	10/3/2007 2:07:00 PM
Bromoform	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Bromomethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
2-Butanone	ND	10		µg/L	1	10/3/2007 2:07:00 PM
Carbon disulfide	ND	10		µg/L	1	10/3/2007 2:07:00 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Chloroethane	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
Chloroform	22	1.0		µg/L	1	10/3/2007 2:07:00 PM
Chloromethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Dibromomethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
2-Hexanone	ND	10		µg/L	1	10/3/2007 2:07:00 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2007 2:07:00 PM
Methylene Chloride	ND	3.0		µg/L	1	10/3/2007 2:07:00 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Styrene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-1st Tank 255788
Lab Order:	0710016	**Collection Date:**	9/26/2007 10:35:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **LMM**
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2007 2:07:00 PM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2007 2:07:00 PM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2007 2:07:00 PM
Surr: 1,2-Dichloroethane-d4	101	68.1-123		%REC	1	10/3/2007 2:07:00 PM
Surr: 4-Bromofluorobenzene	96.2	53.2-145		%REC	1	10/3/2007 2:07:00 PM
Surr: Dibromofluoromethane	97.7	68.5-119		%REC	1	10/3/2007 2:07:00 PM
Surr: Toluene-d8	103	64-131		%REC	1	10/3/2007 2:07:00 PM
EPA METHOD 420.3: TOTAL PHENOLICS						Analyst: **JAT**
Phenolics, Total Recoverable	ND	3.0		µg/L	1	10/4/2007
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	130	20		mg/L	1	10/3/2007

Qualifiers:				
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	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-2nd Tank 254049
Lab Order:	0710016	**Collection Date:**	9/26/2007 11:25:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: **JAT**
1,2-Dibromoethane	ND	0.010		µg/L	1	10/4/2007 2:34:37 PM
Surr: 1,2,3-Trichloropropane	102	69.1-138		%REC	1	10/4/2007 2:34:37 PM
EPA METHOD 8082: PCB'S						Analyst: **JMP**
Aroclor 1016	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1221	ND	5.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1232	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1242	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1248	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1254	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Aroclor 1260	ND	1.0		µg/L	1	10/4/2007 2:34:39 PM
Surr: Decachlorobiphenyl	95.2	45.3-140		%REC	1	10/4/2007 2:34:39 PM
Surr: Tetrachloro-m-xylene	82.8	28.1-139		%REC	1	10/4/2007 2:34:39 PM
EPA METHOD 8015B: DIESEL RANGE						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/3/2007 1:29:01 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/3/2007 1:29:01 PM
Surr: DNOP	108	58-140		%REC	1	10/3/2007 1:29:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/4/2007 4:37:40 AM
Surr: BFB	94.4	79.2-121		%REC	1	10/4/2007 4:37:40 AM
EPA METHOD 8310: PAHS						Analyst: **JMP**
Naphthalene	ND	2.0		µg/L	1	10/4/2007 2:37:06 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	10/4/2007 2:37:06 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	10/4/2007 2:37:06 PM
Acenaphthylene	ND	2.5		µg/L	1	10/4/2007 2:37:06 PM
Acenaphthene	ND	5.0		µg/L	1	10/4/2007 2:37:06 PM
Fluorene	ND	0.80		µg/L	1	10/4/2007 2:37:06 PM
Phenanthrene	ND	0.60		µg/L	1	10/4/2007 2:37:06 PM
Anthracene	ND	0.60		µg/L	1	10/4/2007 2:37:06 PM
Fluoranthene	ND	0.30		µg/L	1	10/4/2007 2:37:06 PM
Pyrene	ND	0.30		µg/L	1	10/4/2007 2:37:06 PM
Benz(a)anthracene	ND	0.050		µg/L	1	10/4/2007 2:37:06 PM
Chrysene	ND	0.20		µg/L	1	10/4/2007 2:37:06 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	10/4/2007 2:37:06 PM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	10/4/2007 2:37:06 PM
Benzo(a)pyrene	ND	0.030		µg/L	1	10/4/2007 2:37:06 PM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	10/4/2007 2:37:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-2nd Tank 254049
Lab Order:	0710016	**Collection Date:**	9/26/2007 11:25:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: **JMP**
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	10/4/2007 2:37:06 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	10/4/2007 2:37:06 PM
Surr: Benzo(e)pyrene	101	68-116		%REC	1	10/4/2007 2:37:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **KS**
Fluoride	ND	0.10		mg/L	1	10/2/2007 8:11:10 PM
Chloride	17	0.10		mg/L	1	10/2/2007 8:11:10 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	10/3/2007 12:32:16 AM
Sulfate	33	0.50		mg/L	1	10/2/2007 8:11:10 PM
EPA METHOD 7470: MERCURY						Analyst: **CMS**
Mercury	ND	0.00020		mg/L	1	10/4/2007 3:21:40 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **TES**
Aluminum	ND	0.020		mg/L	1	10/8/2007 5:03:17 PM
Barium	ND	0.020		mg/L	1	10/8/2007 5:03:17 PM
Boron	ND	0.040		mg/L	1	10/8/2007 5:03:17 PM
Cadmium	ND	0.0020		mg/L	1	10/8/2007 5:03:17 PM
Chromium	ND	0.0060		mg/L	1	10/8/2007 5:03:17 PM
Cobalt	ND	0.0060		mg/L	1	10/8/2007 5:03:17 PM
Copper	ND	0.0060		mg/L	1	10/8/2007 5:03:17 PM
Iron	1.4	0.25		mg/L	5	10/8/2007 5:09:04 PM
Lead	ND	0.0050		mg/L	1	10/8/2007 5:03:17 PM
Manganese	0.35	0.0020		mg/L	1	10/8/2007 5:03:17 PM
Molybdenum	ND	0.0080		mg/L	1	10/8/2007 5:03:17 PM
Nickel	ND	0.010		mg/L	1	10/8/2007 5:03:17 PM
Silver	ND	0.0050		mg/L	1	10/8/2007 5:03:17 PM
Zinc	ND	0.050		mg/L	1	10/8/2007 5:03:17 PM
EPA METHOD 8260B: VOLATILES						Analyst: **LMM**
Benzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Toluene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Ethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Naphthalene	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2007 2:42:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-2nd Tank 254049
Lab Order:	0710016	**Collection Date:**	9/26/2007 11:25:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/3/2007 2:42:52 PM
Acetone	12	10		µg/L	1	10/3/2007 2:42:52 PM
Bromobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Bromochloromethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Bromodichloromethane	1.7	1.0		µg/L	1	10/3/2007 2:42:52 PM
Bromoform	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Bromomethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
2-Butanone	ND	10		µg/L	1	10/3/2007 2:42:52 PM
Carbon disulfide	ND	10		µg/L	1	10/3/2007 2:42:52 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Chlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Chloroethane	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
Chloroform	18	1.0		µg/L	1	10/3/2007 2:42:52 PM
Chloromethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Dibromomethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
2-Hexanone	ND	10		µg/L	1	10/3/2007 2:42:52 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/3/2007 2:42:52 PM
Methylene Chloride	3.4	3.0		µg/L	1	10/3/2007 2:42:52 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Styrene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Oct-07*

CLIENT:	PNM	**Client Sample ID:**	ABQML-2nd Tank 254049
Lab Order:	0710016	**Collection Date:**	9/26/2007 11:25:00 AM
Project:	ALBUQUERQUE ML UPRATE	**Date Received:**	10/2/2007
Lab ID:	0710016-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **LMM**
tert-Butylbenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/3/2007 2:42:52 PM
Vinyl chloride	ND	1.0		µg/L	1	10/3/2007 2:42:52 PM
Xylenes, Total	ND	1.5		µg/L	1	10/3/2007 2:42:52 PM
Surr: 1,2-Dichloroethane-d4	100	68.1-123		%REC	1	10/3/2007 2:42:52 PM
Surr: 4-Bromofluorobenzene	99.0	53.2-145		%REC	1	10/3/2007 2:42:52 PM
Surr: Dibromofluoromethane	96.9	68.5-119		%REC	1	10/3/2007 2:42:52 PM
Surr: Toluene-d8	101	64-131		%REC	1	10/3/2007 2:42:52 PM
EPA METHOD 420.3: TOTAL PHENOLICS						Analyst: **JAT**
Phenolics, Total Recoverable	ND	3.0		µg/L	1	10/4/2007
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	130	20		mg/L	1	10/3/2007

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0710016
Lab ID: C07100161-001
Client Sample ID ABQML-1st Tank 255788

Report Date: 10/15/07
Collection Date: 09/26/07 10:35
DateReceived: 10/03/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226	ND	pCi/L		0.2		E903.0	10/10/07 11:31 / trs
Radium 228	ND	pCi/L		1.0		RA-05	10/12/07 10:27 / plj

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	**Report Date:**	10/15/07
Project:	0710016	**Collection Date:**	09/26/07 11:25
Lab ID:	C07100161-002	**DateReceived:**	10/03/07
Client Sample ID	ABQML-2nd Tank 254049	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Radium 226	ND	pCi/L		0.2		E903.0	10/10/07 11:31 / trs
Radium 228	ND	pCi/L		1.0		RA-05	10/12/07 10:27 / plj

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project: 0710016
Lab ID: B07100334-001
Client Sample ID: 0710016-01 (F,G,H), ABQML-1st Tank 255788

Report Date: 10/05/07
Collection Date: 09/26/07 10:35
DateReceived: 10/03/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	10/04/07 10:05 / kjp
METALS, TOTAL							
Arsenic	0.007	mg/L		0.001		E200.8	10/04/07 15:06 / sas
Selenium	ND	mg/L		0.001		E200.8	10/04/07 15:06 / sas
Uranium	ND	mg/L		0.001		E200.8	10/04/07 15:06 / sas
IGNITABILITY							
Flash Point (Ignitability)	>200	°F		30		SW1010A	10/04/07 09:20 / mgs
CORROSIVITY							
pH of Liquid Waste	7.37	s.u.		0.10		SW9040C	10/04/07 14:00 / pwc
REACTIVITY							
Cyanide, Reactive	ND	mg/kg		0.05	250	SW846 Ch 7	10/04/07 10:58 / kjp
Sulfide, Reactive	ND	mg/kg		20	500	SW846 Ch 7	10/04/07 08:00 / pwc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque
Project: 0710016
Lab ID: B07100334-002
Client Sample ID: 0710016-02 (F,G,H), ABQML-2nd Tank 254049

Report Date: 10/05/07
Collection Date: 09/26/07 11:25
DateReceived: 10/03/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS							
Cyanide, Total	ND	mg/L		0.005		Kelada mod	10/04/07 10:07 / kjp
METALS, TOTAL							
Arsenic	0.009	mg/L		0.001		E200.8	10/04/07 18:35 / sas
Selenium	ND	mg/L		0.001		E200.8	10/04/07 18:35 / sas
Uranium	ND	mg/L		0.001		E200.8	10/04/07 18:35 / sas
IGNITABILITY							
Flash Point (Ignitability)	>200	°F		30		SW1010A	10/04/07 09:20 / mgs
CORROSIVITY							
pH of Liquid Waste	7.56	s.u.		0.10		SW9040C	10/04/07 14:00 / pwc
REACTIVITY							
Cyanide, Reactive	ND	mg/kg		0.05	250	SW846 Ch 7	10/04/07 11:00 / kjp
Sulfide, Reactive	ND	mg/kg		20	500	SW846 Ch 7	10/04/07 08:00 / pwc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental-Albuquerque
Project: 0710016

Report Date: 10/05/07
Work Order: B07100334

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW846 Ch 7									Batch: 29098
Sample ID: MB-29098	Method Blank				Run: AUTOAN201-B_071004A				10/04/07 11:02
Cyanide, Reactive	ND	mg/kg	0.05						
Method: SW846 Ch 7									Batch: R100451
Sample ID: MB-R100451	Method Blank				Run: MISC-HZW_071004C				10/04/07 08:00
Sulfide, Reactive	ND	mg/kg	10						
Sample ID: LCS-R100451	Laboratory Control Sample				Run: MISC-HZW_071004C				10/04/07 08:00
Sulfide, Reactive	24	mg/kg	20	82	50	150			
Method: SW9040C									Batch: R100469
Sample ID: B07100334-002ADUP	Sample Duplicate				Run: MISC-HZW_071004D				10/04/07 14:00
pH of Liquid Waste	7.74	s.u.	0.10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental-Albuquerque
Project: 0710016

Report Date: 10/05/07
Work Order: B07100334

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: 29108
Sample ID: MB-29108	Method Blank				Run: ICPMS202-B_071004A				10/04/07 14:12
Arsenic	ND	mg/L	4E-05						
Selenium	ND	mg/L	0.0001						
Uranium	ND	mg/L	6E-06						
Sample ID: LCS1-29108	Laboratory Control Sample				Run: ICPMS202-B_071004A				10/04/07 14:51
Arsenic	0.0954	mg/L	0.0050	95	85	115			
Selenium	0.0936	mg/L	0.0050	94	85	115			
Uranium	0.0108	mg/L	0.0010	108	85	115			
Sample ID: B07100236-004BMS1	Sample Matrix Spike				Run: ICPMS202-B_071004A				10/04/07 15:21
Arsenic	0.105	mg/L	0.0050	102	70	130			
Selenium	0.101	mg/L	0.0050	101	70	130			
Uranium	0.0129	mg/L	0.0010	111	70	130			
Sample ID: B07100236-004BMSD1	Sample Matrix Spike Duplicate				Run: ICPMS202-B_071004A				10/04/07 15:29
Arsenic	0.102	mg/L	0.0050	99	70	130	2.8	20	
Selenium	0.0988	mg/L	0.0050	99	70	130	2.5	20	
Uranium	0.0125	mg/L	0.0010	107	70	130	3.4	20	
Method: E200.8									Analytical Run: ICPMS202-B_071004A
Sample ID: QCS - ME070703A, ME0	Initial Calibration Verification Standard								10/04/07 12:08
Arsenic	0.0493	mg/L	0.0050	99	90	110			
Selenium	0.0491	mg/L	0.0050	98	90	110			
Uranium	0.0204	mg/L	0.0010	102	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental-Albuquerque
Project: 0710016

Report Date: 10/05/07
Work Order: B07100334

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada mod								Analytical Run: AUTOAN201-B_071004A	
Sample ID: ICV-1	Initial Calibration Verification Standard								10/04/07 09:56
Cyanide, Total	0.147	mg/L	0.0050	98	90	110			
Method: Kelada mod								Batch: A2007-10-04_4_CN__01	
Sample ID: LFB-4	Laboratory Fortified Blank				Run: AUTOAN201-B_071004A				10/04/07 10:02
Cyanide, Total	0.104	mg/L	0.0050	104	90	110			
Sample ID: MBLK-5	Method Blank				Run: AUTOAN201-B_071004A				10/04/07 10:03
Cyanide, Total	ND	mg/L	0.001						
Sample ID: B07100341-001DMS	Sample Matrix Spike				Run: AUTOAN201-B_071004A				10/04/07 10:20
Cyanide, Total	0.112	mg/L	0.0050	91	90	110			
Sample ID: B07100341-001DMSD	Sample Matrix Spike Duplicate				Run: AUTOAN201-B_071004A				10/04/07 10:22
Cyanide, Total	0.122	mg/L	0.0050	101	90	110			
Method: SW846 Ch 7								Batch: 29098	
Sample ID: MB-29098	Method Blank				Run: AUTOAN201-B_071004A				10/04/07 11:02
Cyanide, Reactive	ND	mg/kg	0.05						
Method: SW846 Ch 7								Batch: R100451	
Sample ID: MB-R100451	Method Blank				Run: MISC-HZW_071004C				10/04/07 08:00
Sulfide, Reactive	ND	mg/kg	10						
Sample ID: LCS-R100451	Laboratory Control Sample				Run: MISC-HZW_071004C				10/04/07 08:00
Sulfide, Reactive	24	mg/kg	20	82	50	150			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0710016

Report Date: 10/15/07
Work Order: C07100161

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: RA226-2343
Sample ID: C07100138-001AMS	Sample Matrix Spike				Run: BERTHOLD 770_071004B				10/10/07 10:15
Radium 226	11	pCi/L	0.20	85	70	130			
Sample ID: C07100138-001AMSD	Sample Matrix Spike Duplicate				Run: BERTHOLD 770_071004B				10/10/07 10:15
Radium 226	11	pCi/L	0.20	86	70	130	0.6	29	
Sample ID: MB-RA226-2343	Method Blank				Run: BERTHOLD 770_071004B				10/10/07 11:31
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2343	Laboratory Control Sample				Run: BERTHOLD 770_071004B				10/10/07 11:31
Radium 226	12	pCi/L	0.20	93	70	130			
Method: RA-05									Batch: RA228-1833
Sample ID: LCS-228-RA226-2343	Laboratory Control Sample				Run: TENNELEC-3_071004B				10/12/07 08:49
Radium 228	6.2	pCi/L	1.0	78	70	130			
Sample ID: MB-RA226-2343	Method Blank				Run: TENNELEC-3_071004B				10/12/07 08:49
Radium 228	ND	pCi/L	1						
Sample ID: C07100138-004AMS	Sample Matrix Spike				Run: TENNELEC-3_071004B				10/12/07 08:49
Radium 228	7.7	pCi/L	1.0	98	70	130			
Sample ID: C07100138-004AMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_071004B				10/12/07 08:49
Radium 228	7.5	pCi/L	1.0	95	70	130	3.1	37.5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E300									
Sample ID: MBLK 100207		*MBLK*			Batch ID: **R25427**		Analysis Date:		10/2/2007 9:26:57 AM
Fluoride	ND	mg/L	0.10						
Chloride	ND	mg/L	0.10						
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20						
Sulfate	ND	mg/L	0.50						
Sample ID: LCS ST300-07038 1		*LCS*			Batch ID: **R25427**		Analysis Date:		10/2/2007 9:44:22 AM
Fluoride	0.5185	mg/L	0.10	104	90	110			
Chloride	5.251	mg/L	0.10	105	90	110			
Nitrate (As N)+Nitrite (As N)	3.717	mg/L	0.20	106	90	110			
Sulfate	10.88	mg/L	0.50	109	90	110			
Sample ID: LCS ST300-07050 1		*LCS*			Batch ID: **R25427**		Analysis Date:		10/2/2007 6:26:41 PM
Fluoride	0.5253	mg/L	0.10	105	90	110			
Chloride	5.041	mg/L	0.10	101	90	110			
Nitrate (As N)+Nitrite (As N)	3.571	mg/L	0.20	102	90	110			
Sulfate	10.36	mg/L	0.50	104	90	110			
Method: E420.3									
Sample ID: MB-13992		*MBLK*			Batch ID: **14002**		Analysis Date:		10/4/2007
Phenolics, Total Recoverable	ND	µg/L	3.0						
Sample ID: LCS-13992		*LCS*			Batch ID: **14002**		Analysis Date:		10/4/2007
Phenolics, Total Recoverable	19.79	µg/L	3.0	98.9	51.7	133			
Sample ID: LCSD-13992		*LCSD*			Batch ID: **14002**		Analysis Date:		10/4/2007
Phenolics, Total Recoverable	24.14	µg/L	3.0	121	51.7	133	19.8	0	
Method: E504.1									
Sample ID: MB-14005		*MBLK*			Batch ID: **14005**		Analysis Date:		10/4/2007 12:50:06 PM
1,2-Dibromoethane	ND	µg/L	0.010						
Sample ID: LCS-14005		*LCS*			Batch ID: **14005**		Analysis Date:		10/4/2007 1:02:45 PM
1,2-Dibromoethane	0.09700	µg/L	0.010	97.0	70	130			
Sample ID: LCSD-14005		*LCSD*			Batch ID: **14005**		Analysis Date:		10/4/2007 1:15:25 PM
1,2-Dibromoethane	0.1040	µg/L	0.010	104	70	130	6.97	13.5	
Method: SW8015									
Sample ID: MB-13991		*MBLK*			Batch ID: **13991**		Analysis Date:		10/3/2007 10:37:01 AM
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-13991		*LCS*			Batch ID: **13991**		Analysis Date:		10/3/2007 11:08:58 AM
Diesel Range Organics (DRO)	5.131	mg/L	1.0	103	74	157			
Sample ID: LCSD-13991		*LCSD*			Batch ID: **13991**		Analysis Date:		10/3/2007 11:43:58 AM
Diesel Range Organics (DRO)	5.787	mg/L	1.0	116	74	157	12.0	23	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: 5ML RB		*MBLK*			Batch ID: **R25420**		Analysis Date:		10/3/2007 9:00:15 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		*LCS*			Batch ID: **R25420**		Analysis Date:		10/4/2007 12:35:46 AM
Gasoline Range Organics (GRO)	0.4362	mg/L	0.050	83.6	80	115			
Sample ID: 2.5UG GRO LCSD		*LCSD*			Batch ID: **R25420**		Analysis Date:		10/4/2007 1:05:35 AM
Gasoline Range Organics (GRO)	0.4424	mg/L	0.050	84.9	80	115	1.41	8.39	
Method: SW8082									
Sample ID: MB-13988		*MBLK*			Batch ID: **13988**		Analysis Date:		10/4/2007 11:19:59 AM
Aroclor 1016	ND	µg/L	1.0						
Aroclor 1221	ND	µg/L	5.0						
Aroclor 1232	ND	µg/L	1.0						
Aroclor 1242	ND	µg/L	1.0						
Aroclor 1248	ND	µg/L	1.0						
Aroclor 1254	ND	µg/L	1.0						
Aroclor 1260	ND	µg/L	1.0						
Sample ID: LCS-13988		*LCS*			Batch ID: **13988**		Analysis Date:		10/4/2007 12:08:31 PM
Aroclor 1260	4.826	µg/L	1.0	96.5	47.6	119			
Sample ID: LCSD-13988		*LCSD*			Batch ID: **13988**		Analysis Date:		10/4/2007 12:57:03 PM
Aroclor 1260	5.444	µg/L	1.0	109	47.6	119	12.0	30	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: MB-13987		*MBLK*			Batch ID:	**13987**	Analysis Date:	10/4/2007 11:25:08 AM	
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	2.0						
2-Methylnaphthalene	ND	µg/L	2.0						
Acenaphthylene	ND	µg/L	2.5						
Acenaphthene	ND	µg/L	5.0						
Fluorene	ND	µg/L	0.80						
Phenanthrene	ND	µg/L	0.60						
Anthracene	ND	µg/L	0.60						
Fluoranthene	ND	µg/L	0.30						
Pyrene	ND	µg/L	0.30						
Benz(a)anthracene	ND	µg/L	0.050						
Chrysene	ND	µg/L	0.20						
Benzo(b)fluoranthene	ND	µg/L	0.10						
Benzo(k)fluoranthene	ND	µg/L	0.020						
Benzo(a)pyrene	ND	µg/L	0.030						
Dibenz(a,h)anthracene	ND	µg/L	0.040						
Benzo(g,h,i)perylene	ND	µg/L	0.080						
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080						
Sample ID: LCS-13987		*LCS*			Batch ID:	**13987**	Analysis Date:	10/4/2007 12:13:09 PM	
Naphthalene	18.50	µg/L	2.0	46.2	33.9	87.9			
1-Methylnaphthalene	18.05	µg/L	2.0	45.0	35.2	85			
2-Methylnaphthalene	18.37	µg/L	2.0	45.9	33.7	83.9			
Acenaphthylene	23.17	µg/L	2.5	57.8	55	97.9			
Acenaphthene	21.96	µg/L	5.0	54.9	42.2	86.6			
Fluorene	2.450	µg/L	0.80	61.1	47.3	85.1			
Phenanthrene	1.500	µg/L	0.60	67.2	53.5	97.3			
Anthracene	1.380	µg/L	0.60	68.7	53.6	93.7			
Fluoranthene	3.100	µg/L	0.30	77.3	60.1	98.5			
Pyrene	3.070	µg/L	0.30	72.6	57.5	108			
Benz(a)anthracene	0.3100	µg/L	0.050	77.3	57.7	106			
Chrysene	1.550	µg/L	0.20	77.1	59.1	112			
Benzo(b)fluoranthene	0.4200	µg/L	0.10	83.8	67	110			
Benzo(k)fluoranthene	0.1900	µg/L	0.020	76.0	63.2	106			
Benzo(a)pyrene	0.2100	µg/L	0.030	83.7	49.7	109			
Dibenz(a,h)anthracene	0.4200	µg/L	0.040	83.8	54.1	111			
Benzo(g,h,i)perylene	0.4000	µg/L	0.080	80.0	51.3	111			
Indeno(1,2,3-cd)pyrene	0.7960	µg/L	0.080	79.4	52.3	103			
Sample ID: LCSD-13987		*LCSD*			Batch ID:	**13987**	Analysis Date:	10/4/2007 1:01:08 PM	
Naphthalene	23.61	µg/L	2.0	59.0	33.9	87.9	24.3	32.1	
1-Methylnaphthalene	23.48	µg/L	2.0	58.6	35.2	85	26.1	32.7	
2-Methylnaphthalene	23.67	µg/L	2.0	59.2	33.7	83.9	25.2	34	
Acenaphthylene	28.22	µg/L	2.5	70.4	55	97.9	19.7	38.8	
Acenaphthene	27.00	µg/L	5.0	67.5	42.2	86.6	20.6	38.6	
Fluorene	2.840	µg/L	0.80	70.8	47.3	85.1	14.7	29.3	

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: LCSD-13987		*LCSD*			Batch ID: **13987**		Analysis Date:		10/4/2007 1:01:08 PM
Phenanthrene	1.510	µg/L	0.60	67.7	53.5	97.3	0.664	25	
Anthracene	1.490	µg/L	0.60	74.1	53.6	93.7	7.67	23.9	
Fluoranthene	3.170	µg/L	0.30	79.1	60.1	98.5	2.23	15.7	
Pyrene	3.220	µg/L	0.30	76.3	57.5	108	4.77	15.3	
Benz(a)anthracene	0.3200	µg/L	0.050	79.8	57.7	106	3.17	19	
Chrysene	1.600	µg/L	0.20	79.6	59.1	112	3.17	16.6	
Benzo(b)fluoranthene	0.4400	µg/L	0.10	87.8	67	110	4.65	21.7	
Benzo(k)fluoranthene	0.2000	µg/L	0.020	80.0	63.2	106	5.13	19.4	
Benzo(a)pyrene	0.1900	µg/L	0.030	75.7	49.7	109	10.0	16.7	
Dibenz(a,h)anthracene	0.4400	µg/L	0.040	87.8	54.1	111	4.65	17.3	
Benzo(g,h,i)perylene	0.4500	µg/L	0.080	90.0	51.3	111	11.8	18	
Indeno(1,2,3-cd)pyrene	0.8570	µg/L	0.080	85.5	52.3	103	7.38	17.7	
Method: SW7470									
Sample ID: 0710016-01EMSD		*MSD*			Batch ID: **14006**		Analysis Date:		10/4/2007 3:19:54 PM
Mercury	0.005019	mg/L	0.00020	99.5	75	125	1.12	20	
Sample ID: MB-14006		*MBLK*			Batch ID: **14006**		Analysis Date:		10/4/2007 3:12:51 PM
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-14006		*LCS*			Batch ID: **14006**		Analysis Date:		10/4/2007 3:14:35 PM
Mercury	0.004830	mg/L	0.00020	96.6	80	120			
Sample ID: 0710016-01EMS		*MS*			Batch ID: **14006**		Analysis Date:		10/4/2007 3:18:07 PM
Mercury	0.004963	mg/L	0.00020	98.4	75	125			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: MB-14020		*MBLK*			Batch ID:	**14020**	Analysis Date:	10/8/2007 4:54:19 PM	
Aluminum	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Boron	ND	mg/L	0.040						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Iron	ND	mg/L	0.050						
Lead	ND	mg/L	0.0050						
Manganese	ND	mg/L	0.0020						
Molybdenum	ND	mg/L	0.0080						
Nickel	ND	mg/L	0.010						
Silver	ND	mg/L	0.0050						
Zinc	ND	mg/L	0.050						
Sample ID: LCS-14020		*LCS*			Batch ID:	**14020**	Analysis Date:	10/8/2007 4:57:23 PM	
Aluminum	0.4886	mg/L	0.020	97.7	80	120			
Barium	0.5138	mg/L	0.020	103	80	120			
Boron	0.5050	mg/L	0.040	101	80	120			
Cadmium	0.5059	mg/L	0.0020	101	80	120			
Chromium	0.5183	mg/L	0.0060	104	80	120			
Cobalt	0.5058	mg/L	0.0060	101	80	120			
Copper	0.5179	mg/L	0.0060	104	80	120			
Iron	0.5812	mg/L	0.050	116	80	120			
Lead	0.5403	mg/L	0.0050	108	80	120			
Manganese	0.5094	mg/L	0.0020	102	80	120			
Molybdenum	0.5662	mg/L	0.0080	113	80	120			
Nickel	0.5045	mg/L	0.010	101	80	120			
Silver	0.5072	mg/L	0.0050	101	80	120			
Zinc	0.5119	mg/L	0.050	102	80	120			
Method: E160.1									
Sample ID: MB-13994		*MBLK*			Batch ID:	**13994**	Analysis Date:	10/3/2007	
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13994		*LCS*			Batch ID:	**13994**	Analysis Date:	10/3/2007	
Total Dissolved Solids	1010	mg/L	20	101	80	120			

Qualifiers:

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QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5mL rb		*MBLK*			Batch ID: **R25415**		Analysis Date:	10/3/2007 9:57:15 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromochloromethane	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						

Qualifiers:

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QA/QC SUMMARY REPOR

Client: PNM
Project: ALBUQUERQUE ML UPRATE **Work Order:** 0710016

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5mL rb		*MBLK*			Batch ID: **R25415**		Analysis Date:	10/3/2007 9:57:15 AM	
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID: **R25415**		Analysis Date:	10/3/2007 11:08:19 AM	
Benzene	18.79	µg/L	1.0	94.0	82.4	128			
Toluene	19.62	µg/L	1.0	98.1	77.2	115			
Chlorobenzene	19.60	µg/L	1.0	98.0	78.3	117			
1,1-Dichloroethene	18.79	µg/L	1.0	93.9	90.7	132			
Trichloroethene (TCE)	18.21	µg/L	1.0	91.1	71.8	113			

Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name PNM | Date and Time Received: 10/2/2007

Work Order Number 0710016 | Received by TLS

Checklist completed by _____ 10/2/07
Signature | 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 - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	4°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: PNM

Address: ALVARADO SQUARE
MS-Z104
ALBUQUERQUE, NM 87158

Phone #: 505-241-4325
Fax #: 505-241-2384

Project Name: ALBUQUERQUE ML UPRATE

Project #: ABQ ML UPRATE First and last FILLED TANKS

Project Manager: JON JONES

Sampler: DT

Sample Temperature: 4°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	HEAL No.
09-26-07	1035	AQUEOUS	ABQML-1ST TANK 255788	—			0710016 -1
09-26-07	1125	AQUEOUS	ABQML-2ND TANK 254049	—			-2

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	See - attached W QCC/QA list				Air Bubbles or Headspace (Y or N)
												X				
												X				

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	Date	Time
10-1-07	1651			10/1/07	1651
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)		

Remarks: ASAP RUSH!

ABQML-1ST TANK 255788 = 1ST TANK Filled
ABQML-2ND TANK 254049 = last TANK Filled

Attached List for Albuquerque ML Uprate Project and sample ID:

ABQML-1st tank255788 (1st Filled Tank)

And

ABQML-2nd tank254049 (Last Filled Tank)

Aqueous Sample Testing For:

NMOCD / WQCC NMAC *20.6.2.3103 (A)(B(C) Consisting of:*

(1) Arsenic (As).....0.1 mg/l

(2) Barium (Ba).....1.0 mg/l

(3) Cadmium (Cd).....0.01 mg/l

(4) Chromium (Cr).....0.05 mg/l

(5) Cyanide (CN).....0.2 mg/l

(6) Fluoride (F).....1.6 mg/l

(7) Lead (Pb).....0.05 mg/l

(8) Total Mercury (Hg).....0.002 mg/l

(9) Nitrate (NO_3 as N).....10.0 mg/l

(10) Selenium (Se).....0.05 mg/l

(11) Silver (Ag).....0.05 mg/l

(12) Uranium (U).....0.03 mg/l

(13) Radioactivity: Combined Radium-226 & Radium-228.....30 pCi/l

(14) Benzene.....0.01 mg/l

(15) Polychlorinated biphenyls (PCB's).....0.001 mg/l

(16) Toluene.....0.75 mg/l

(17) Carbon Tetrachloride.....0.01 mg/l

(18) 1,2-dichloroethane (EDC).....0.01 mg/l

(19) 1,1-dichloroethylene (1,1-DCE).....0.005 mg/l

(20) 1,1,2,2-tetrachloroethylene (PCE) .....0.02 mg/l

(21) 1,1,2-trichloroethylene (TCE) .....0.1 mg/l

(22) ethylbenzene.....0.75 mg/l

(23) total xylenes.....0.62 mg/l

(24) methylene chloride.....0.1 mg/l

(25) chloroform.....0.1 mg/l

(26) 1,1-dichloroethane.....0.025 mg/l

(27) ethylene dibromide (EDB) .....0.0001 mg/l

(28) 1,1,1-trichloroethane.....0.06 mg/l

(29) 1,1,2-trichloroethane.....0.01 mg/l

(30) 1,1,2,2-tetrachloroethane.....0.01 mg/l

(31) vinyl chloride.....0.001 mg/l

(32) PAHs: total naphthalene plus monomethylnaphthalenes.....0.03 mg/l

(33) benzo-a-pyrene.....0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1) Chloride (Cl) .....250.0 mg/l

(2) Copper (Cu) .....1.0 mg/l

(3) Iron (Fe) .....1.0 mg/l

(4) Manganese (Mn) .....0.2 mg/l

(6) Phenols.....0.005 mg/l

(7) Sulfate (SO_4) .....600.0 mg/l

(8) Total Dissolved Solids (TDS) .....1000.0 mg/l

(9) Zinc (Zn) .....10.0 mg/l

(10) pH.....between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B,

and C of this section unless otherwise provided.

(1) Aluminum (Al)..... .....5.0 mg/l

(2) Boron (B) .....0.75 mg/l

(3) Cobalt (Co) .....0.05 mg/l

(4) Molybdenum (Mo) .....1.0 mg/l

(5) Nickel (Ni) .....0.2 mg/l

And.....

TPH (418.1 or 8015)

Reactivity

Ignitability

Jones, Brad A., EMNRD

From: Prescott, Michael [Michael.Prescott@pnmresources.com]
Sent: Tuesday, October 16, 2007 3:14 PM
To: Jones, Brad A., EMNRD
Subject: FW: Water Sample prior to hydrostatic test
Importance: High
Attachments: 0707399.pdf

Brad,
Here is the original source water analytical.

-Mike

From: Tripp, David
Sent: Tuesday, October 16, 2007 3:12 PM
To: Prescott, Michael
Subject: FW:
Importance: High

From: anne [mailto:anne@hallenvironmental.com]
Sent: Tuesday, October 16, 2007 3:12 PM
To: Tripp, David
Subject: FW:
Importance: High

Anne Thorne
Sample Login Manager
Hall Environmental Analysis Laboratory
505 345-3975

From: anne [mailto:anne@hallenvironmental.com]
Sent: Tuesday, October 16, 2007 1:01 PM
To: Dave Tripp (dtripp@pnm.com)
Subject:
Importance: High

HERE YOU GO!!

Anne Thorne
Sample Login Manager
Hall Environmental Analysis Laboratory
505 345-3975

This inbound email has been scanned by the MessageLabs Email Security System.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, August 27, 2007

Dave Tripp
PNM
Alvarado Square MS 2104
Albuquerque, NM 87158

TEL: (505) 241-2014
FAX (505) 241-4306

RE: ABQ ML Clean Water

Order No.: 0707399

Dear Dave Tripp:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 7/30/2007 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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	DBB01-INIT
Lab Order:	0707399	Collection Date:	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: SCC
1,2-Dibromoethane	ND	0.010		µg/L	1	8/2/2007 6:22:41 PM
Surr: 1,2,3-Trichloropropane	111	69.1-138		%REC	1	8/2/2007 6:22:41 PM
EPA METHOD 8082: PCB'S						Analyst: JMP
Aroclor 1016	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1221	ND	5.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1232	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1242	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1248	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1254	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1260	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Surr: Decachlorobiphenyl	80.4	45.3-140		%REC	1	8/11/2007 5:49:13 PM
Surr: Tetrachloro-m-xylene	53.2	28.1-139		%REC	1	8/11/2007 5:49:13 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
1-Methylnaphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
2-Methylnaphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
Acenaphthylene	ND	2.5		µg/L	1	8/10/2007 6:32:49 AM
Acenaphthene	ND	5.0		µg/L	1	8/10/2007 6:32:49 AM
Fluorene	ND	0.80		µg/L	1	8/10/2007 6:32:49 AM
Phenanthrene	ND	0.60		µg/L	1	8/10/2007 6:32:49 AM
Anthracene	ND	0.60		µg/L	1	8/10/2007 6:32:49 AM
Fluoranthene	ND	0.30		µg/L	1	8/10/2007 6:32:49 AM
Pyrene	ND	0.30		µg/L	1	8/10/2007 6:32:49 AM
Benz(a)anthracene	ND	0.050		µg/L	1	8/10/2007 6:32:49 AM
Chrysene	ND	0.20		µg/L	1	8/10/2007 6:32:49 AM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	8/10/2007 6:32:49 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	8/10/2007 6:32:49 AM
Benzo(a)pyrene	ND	0.030		µg/L	1	8/10/2007 6:32:49 AM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	8/10/2007 6:32:49 AM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	8/10/2007 6:32:49 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	8/10/2007 6:32:49 AM
Surr: Benzo(e)pyrene	97.1	68-116		%REC	1	8/10/2007 6:32:49 AM
EPA METHOD 300.0: ANIONS						Analyst: KS
Fluoride	0.17	0.10		mg/L	1	7/31/2007 10:42:30 AM
Chloride	22	0.10		mg/L	1	7/31/2007 10:42:30 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/31/2007 1:36:35 PM
Sulfate	39	0.50		mg/L	1	7/31/2007 10:42:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	DBB01-INIT
Lab Order:	0707399	**Collection Date:**	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						Analyst: SLB
Mercury	ND	0.00020		mg/L	1	8/3/2007 4:10:19 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Aluminum	0.22	0.020		mg/L	1	8/8/2007 4:00:05 PM
Barium	0.066	0.020		mg/L	1	8/8/2007 4:00:05 PM
Boron	ND	0.040		mg/L	1	8/8/2007 4:00:05 PM
Cadmium	ND	0.0020		mg/L	1	8/8/2007 4:00:05 PM
Chromium	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Cobalt	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Copper	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Iron	0.13	0.050		mg/L	1	8/9/2007 4:58:27 PM
Lead	ND	0.0050		mg/L	1	8/8/2007 4:00:05 PM
Manganese	0.0035	0.0020		mg/L	1	8/8/2007 4:00:05 PM
Molybdenum	ND	0.0080		mg/L	1	8/8/2007 4:00:05 PM
Nickel	ND	0.010		mg/L	1	8/8/2007 4:00:05 PM
Silver	ND	0.0050		mg/L	1	8/8/2007 4:00:05 PM
Zinc	ND	0.050		mg/L	1	8/8/2007 4:00:05 PM
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Benzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Toluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Ethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Naphthalene	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:15:39 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:15:39 AM
Acetone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Bromobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromodichloromethane	7.4	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromoform	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromomethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Butanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Carbon disulfide	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chloroethane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	DBB01-INIT
Lab Order:	0707399	Collection Date:	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Chloroform	51	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
cis-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Dibromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Dibromomethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Hexachlorobuladiene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Hexanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Isopropylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Methylene Chloride	ND	3.0		µg/L	1	8/2/2007 11:15:39 AM
n-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
n-Propylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
sec-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Styrene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
tert-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
trans-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	DBB01-INIT
Lab Order:	0707399	Collection Date:	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Vinyl chloride	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Xylenes, Total	ND	1.5		µg/L	1	8/2/2007 11:15:39 AM
Surr: 1,2-Dichloroethane-d4	99.3	68.1-123		%REC	1	8/2/2007 11:15:39 AM
Surr: 4-Bromofluorobenzene	102	53.2-145		%REC	1	8/2/2007 11:15:39 AM
Surr: Dibromofluoromethane	95.8	68.5-119		%REC	1	8/2/2007 11:15:39 AM
Surr: Toluene-d8	102	64-131		%REC	1	8/2/2007 11:15:39 AM
EPA METHOD 418.1: TPH						Analyst: **BL**
Petroleum Hydrocarbons, TR	ND	1.0		mg/L	1	8/2/2007
EPA METHOD 420.3: TOTAL PHENOLICS						Analyst: **JAT**
Phenolics, Total Recoverable	ND	3.0		µg/L	1	8/15/2007
SM 2540C: TDS						Analyst: **TAF**
Total Dissolved Solids	180	20		mg/L	1	8/1/2007

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	Trip Blank
Lab Order:	0707399	Collection Date:	
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-02	Matrix:	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: SCC
1,2-Dibromoethane	ND	0.010		µg/L	1	8/2/2007 6:41:57 PM
Surr: 1,2,3-Trichloropropane	76.8	69.1-138		%REC	1	8/2/2007 6:41:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Benzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Toluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Ethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Naphthalene	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:49:03 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:49:03 AM
Acetone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Bromobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromodichloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromoform	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromomethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Butanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Carbon disulfide	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chloroethane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Chloroform	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
cis-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Dibromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Dibromomethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	Trip Blank
Lab Order:	0707399	**Collection Date:**	
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-02	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
1,2-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Hexanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Isopropylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Methylene Chloride	ND	3.0		µg/L	1	8/2/2007 11:49:03 AM
n-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
n-Propylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
sec-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Styrene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
tert-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
trans-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Vinyl chloride	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Xylenes, Total	ND	1.5		µg/L	1	8/2/2007 11:49:03 AM
Surr: 1,2-Dichloroethane-d4	99.3	68.1-123		%REC	1	8/2/2007 11:49:03 AM
Surr: 4-Bromofluorobenzene	102	53.2-145		%REC	1	8/2/2007 11:49:03 AM
Surr: Dibromofluoromethane	95.0	68.5-119		%REC	1	8/2/2007 11:49:03 AM
Surr: Toluene-d8	100	64-131		%REC	1	8/2/2007 11:49:03 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0707399
Lab ID: C07080085-001
Client Sample ID: DBB01-INIT

Report Date: 08/22/07
Collection Date: 07/26/07 11:10
DateReceived: 08/01/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/L		0.0050		Kelada mod	08/06/07 10:30 / eli-b
PHYSICAL PROPERTIES							
Flash Point (Ignitability)	>140	°F		60	140	SW1010	08/03/07 16:07 / cjs
pH	7.48	s.u.	H	0.01		A4500-H B	08/03/07 13:04 / ml
REACTIVITY							
Sulfide, Reactive	ND	mg/kg		20.0	500	SW846 Ch 7	08/09/07 16:29 / jl
Cyanide, Reactive	ND	mg/kg		0.050	250	SW846 Ch 7	08/08/07 12:57 / eli-b
METALS - TOTAL							
Arsenic	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
Selenium	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
Uranium	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
RADIONUCLIDES - TOTAL							
Radium 226	ND	pCi/L		0.2		E903.0	08/16/07 16:56 / evm
Radium 228	ND	pCi/L		1.0		RA-05	08/13/07 07:12 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A_070803B	
Sample ID: ICV1_070803_2	Initial Calibration Verification Standard								08/03/07 12:56
pH	6.85	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 070803_2_PH-W	
Sample ID: C07080186-002ADUP	Sample Duplicate				Run: ORION555A_070803B				08/03/07 13:25
pH	7.79	s.u.	0.010				0.4	10	
Method: E903.0								Batch: RA226-2243	
Sample ID: C07080001-001KMS	Sample Matrix Spike				Run: TENNELEC-2_070806B				08/18/07 11:54
Radium 226	18	pCi/L	0.20	85	70	130			
Sample ID: C07080001-001KMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-2_070806B				08/18/07 12:54
Radium 226	18	pCi/L	0.20	87	70	130	2.0	29.8	
Sample ID: MB-RA226-2243	Method Blank				Run: TENNELEC-2_070806B				08/19/07 01:59
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2243	Laboratory Control Sample				Run: TENNELEC-2_070806B				08/19/07 04:00
Radium 226	11	pCi/L	0.20	85	70	130			
Method: Kelada mod								Batch: B_A2007-08-06_4_CN_01	
Sample ID: LFB-4	Laboratory Fortified Blank				Run: SUB-B97431				08/06/07 10:08
Cyanide, Total	0.108	mg/L	0.0050	108	90	110			
Sample ID: MBLK-5	Method Blank				Run: SUB-B97431				08/06/07 10:10
Cyanide, Total	ND	mg/L	0.001						
Sample ID: B07080362-001AMS	Sample Matrix Spike				Run: SUB-B97431				08/06/07 10:50
Cyanide, Total	0.113	mg/L	0.0050	108	90	110			
Sample ID: B07080362-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-B97431				08/06/07 10:52
Cyanide, Total	0.111	mg/L	0.0050	106	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05								Batch: RA228-1768	
Sample ID: LCS-228-RA226-2243	Laboratory Control Sample				Run: TENNELEC-3_070806B			08/13/07 07:12	
Radium 228	7.2	pCi/L	1.0	96	70	130			
Sample ID: MB-RA226-2243	Method Blank				Run: TENNELEC-3_070806B			08/13/07 07:12	
Radium 228	ND	pCi/L	1						
Sample ID: C07080001-002KMS	Sample Matrix Spike				Run: TENNELEC-3_070806B			08/13/07 07:12	
Radium 228	12	pCi/L	1.0	96	70	130			
Sample ID: C07080001-002KMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_070806B			08/13/07 07:12	
Radium 228	12	pCi/L	1.0	91	70	130	5.2	39.3	
Method: SW1010								Batch: 070803A-FLSHPNT-LIQ	
Sample ID: LCS1_070803A	Laboratory Control Sample				Run: PM_FLASHPOINT A_070803			08/03/07 14:22	
Flash Point (Ignitability)	82.0	°F	60	100	96	104			
Sample ID: MBLK1_070803A	Method Blank				Run: PM_FLASHPOINT A_070803			08/03/07 16:41	
Flash Point (Ignitability)	ND	°F							
Method: SW6020								Batch: 15533	
Sample ID: MB-15533	Method Blank				Run: ICPMS2-C_070806A			08/06/07 12:41	
Arsenic	ND	mg/L	0.0001						
Selenium	ND	mg/L	0.0002						
Uranium	ND	mg/L	2E-05						
Sample ID: LCS-15533	Laboratory Control Sample				Run: ICPMS2-C_070806A			08/06/07 12:52	
Arsenic	0.474	mg/L	0.0014	95	90	110			
Selenium	0.475	mg/L	0.0017	95	90	110			
Uranium	0.476	mg/L	0.00030	95	90	110			
Sample ID: C07080085-001AMS4	Post Digestion Spike				Run: ICPMS2-C_070806A			08/06/07 13:23	
Arsenic	0.0689	mg/L	0.0010	97	75	125			
Selenium	0.133	mg/L	0.0010	88	75	125			
Uranium	0.0743	mg/L	0.00030	106	75	125			
Sample ID: C07080085-001AMSD4	Post Digestion Spike Duplicate				Run: ICPMS2-C_070806A			08/06/07 13:50	
Arsenic	0.0670	mg/L	0.0010	95	75	125	2.8	20	
Selenium	0.126	mg/L	0.0010	84	75	125	5.5	20	
Uranium	0.0730	mg/L	0.00030	104	75	125	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW846 Ch 7									Batch: 15642
Sample ID: MB-15642	Method Blank				Run: TITRATION_070809A				08/09/07 16:18
Sulfide, Reactive	ND	mg/kg	1						
Sample ID: C07080085-001EMS	Sample Matrix Spike				Run: TITRATION_070809A				08/09/07 16:33
Sulfide, Reactive	756	mg/kg	20	101	80	120			
Sample ID: C07080085-001EMSD	Sample Matrix Spike Duplicate				Run: TITRATION_070809A				08/09/07 16:35
Sulfide, Reactive	712	mg/kg	20	95	80	120	6.0	20	
Method: SW846 Ch 7									Batch: B_28128
Sample ID: MB-28128	Method Blank				Run: SUB-B97570				08/08/07 12:59
Cyanide, Reactive	ND	mg/kg	0.05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water
Work Order: 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E300									
Sample ID: 0707399-01E MSD		*MSD*			Batch ID: R24592		Analysis Date: 7/31/2007 2:11:24 PM		
Fluoride	0.6746	mg/L	0.10	102	80	120	0.406	20	
Chloride	26.12	mg/L	0.10	86.2	80	120	0.0625	20	
Sulfate	47.38	mg/L	0.50	88.3	80	120	0.174	20	
Sample ID: MBLK		*MBLK*			Batch ID: R24592		Analysis Date: 7/31/2007 10:07:41 AM		
Fluoride	ND	mg/L	0.10						
Chloride	ND	mg/L	0.10						
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20						
Sulfate	ND	mg/L	0.50						
Sample ID: LCS ST300-07026		*LCS*			Batch ID: R24592		Analysis Date: 7/31/2007 10:25:06 AM		
Fluoride	0.5225	mg/L	0.10	104	90	110			
Chloride	5.022	mg/L	0.10	100	90	110			
Nitrate (As N)+Nitrite (As N)	3.548	mg/L	0.20	101	90	110			
Sulfate	10.28	mg/L	0.50	103	90	110			
Sample ID: 0707399-01E MS		*MS*			Batch ID: R24592		Analysis Date: 7/31/2007 1:53:59 PM		
Fluoride	0.6773	mg/L	0.10	102	80	120			
Chloride	26.11	mg/L	0.10	85.9	80	120			
Sulfate	47.46	mg/L	0.50	89.1	80	120			
Method: E418.1									
Sample ID: MB-13508		*MBLK*			Batch ID: 13508		Analysis Date: 8/2/2007		
Petroleum Hydrocarbons, TR	ND	mg/L	1.0						
Sample ID: LCS-13508		*LCS*			Batch ID: 13508		Analysis Date: 8/2/2007		
Petroleum Hydrocarbons, TR	4.510	mg/L	1.0	90.2	80.5	112			
Sample ID: LCSD-13508		*LCSD*			Batch ID: 13508		Analysis Date: 8/2/2007		
Petroleum Hydrocarbons, TR	4.460	mg/L	1.0	89.2	80.5	112	1.11	7.43	
Method: E420.3									
Sample ID: MB-13617		*MBLK*			Batch ID: 13617		Analysis Date: 8/15/2007		
Phenolics, Total Recoverable	ND	µg/L	3.0						
Sample ID: LCS-13617		*LCS*			Batch ID: 13617		Analysis Date: 8/15/2007		
Phenolics, Total Recoverable	18.95	µg/L	3.0	94.8	51.7	133			
Sample ID: LCSD-13617		*LCSD*			Batch ID: 13617		Analysis Date: 8/15/2007		
Phenolics, Total Recoverable	20.00	µg/L	3.0	100	51.7	133	5.40	0	
Method: E504.1									
Sample ID: MB-13518		*MBLK*			Batch ID: 13518		Analysis Date: 8/2/2007 3:45:39 PM		
1,2-Dibromoethane	ND	µg/L	0.010						
Sample ID: LCS-13518		*LCS*			Batch ID: 13518		Analysis Date: 8/2/2007 4:05:38 PM		
1,2-Dibromoethane	0.09900	µg/L	0.010	99.0	70	130			
Sample ID: LCSD-13518		*LCSD*			Batch ID: 13518		Analysis Date: 8/2/2007 4:25:38 PM		
1,2-Dibromoethane	0.1080	µg/L	0.010	108	70	130	8.70	13.5	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8082									
Sample ID: MB-13499		*MBLK*			Batch ID:	13499	Analysis Date:		8/11/2007 259:11 AM
Aroclor 1016	ND	µg/L	1.0						
Aroclor 1221	ND	µg/L	5.0						
Aroclor 1232	ND	µg/L	1.0						
Aroclor 1242	ND	µg/L	1.0						
Aroclor 1248	ND	µg/L	1.0						
Aroclor 1254	ND	µg/L	1.0						
Aroclor 1260	ND	µg/L	1.0						
Sample ID: LCS-13499		*LCS*			Batch ID:	13499	Analysis Date:		8/11/2007 344:10 AM
Aroclor 1260	4.152	µg/L	1.0	83.0	52.1	148			
Sample ID: LCSD-13499		*LCSD*			Batch ID:	13499	Analysis Date:		8/11/2007 428:07 AM
Aroclor 1260	3.932	µg/L	1.0	78.6	52.1	148	5.44	30	

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: MB-13496		*MBLK*			Batch ID:	13496	Analysis Date:		8/9/2007 7:21:01 PM
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	2.0						
2-Methylnaphthalene	ND	µg/L	2.0						
Acenaphthylene	ND	µg/L	2.5						
Acenaphthene	ND	µg/L	5.0						
Fluorene	ND	µg/L	0.80						
Phenanthrene	ND	µg/L	0.60						
Anthracene	ND	µg/L	0.60						
Fluoranthene	ND	µg/L	0.30						
Pyrene	ND	µg/L	0.30						
Benz(a)anthracene	ND	µg/L	0.050						
Chrysene	ND	µg/L	0.20						
Benzo(b)fluoranthene	ND	µg/L	0.10						
Benzo(k)fluoranthene	ND	µg/L	0.020						
Benzo(a)pyrene	0.03000	µg/L	0.030						
Dibenz(a,h)anthracene	0.04000	µg/L	0.040						
Benzo(g,h,i)perylene	ND	µg/L	0.080						
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080						
Sample ID: LCS-13496		*LCS*			Batch ID:	13496	Analysis Date:		8/9/2007 8:09:00 PM
Naphthalene	18.51	µg/L	2.0	46.3	33.9	87.9			
1-Methylnaphthalene	18.22	µg/L	2.0	45.4	35.2	85			
2-Methylnaphthalene	18.55	µg/L	2.0	46.4	33.7	83.9			
Acenaphthylene	24.39	µg/L	2.5	60.8	55	97.9			
Acenaphthene	22.51	µg/L	5.0	56.3	42.2	86.6			
Fluorene	2.640	µg/L	0.80	65.8	47.3	85.1			
Phenanthrene	1.380	µg/L	0.60	68.7	53.5	97.3			
Anthracene	1.460	µg/L	0.60	72.6	53.6	93.7			
Fluoranthene	2.960	µg/L	0.30	73.8	60.1	98.5			
Pyrene	2.840	µg/L	0.30	70.8	57.5	108			
Benz(a)anthracene	0.3000	µg/L	0.050	74.8	57.7	106			
Chrysene	1.470	µg/L	0.20	73.1	59.1	112			
Benzo(b)fluoranthene	0.3800	µg/L	0.10	75.8	67	110			
Benzo(k)fluoranthene	0.1900	µg/L	0.020	76.0	63.2	106			
Benzo(a)pyrene	0.1800	µg/L	0.030	71.7	49.7	109			
Dibenz(a,h)anthracene	0.3860	µg/L	0.040	77.0	54.1	111			
Benzo(g,h,i)perylene	0.3700	µg/L	0.080	74.0	51.3	111			
Indeno(1,2,3-cd)pyrene	0.7520	µg/L	0.080	75.0	52.3	103			
Sample ID: LCSD-13496		*LCSD*			Batch ID:	13496	Analysis Date:		8/9/2007 8:56:59 PM
Naphthalene	21.99	µg/L	2.0	55.0	33.9	87.9	17.2	32.1	
1-Methylnaphthalene	21.65	µg/L	2.0	54.0	35.2	85	17.2	32.7	
2-Methylnaphthalene	22.01	µg/L	2.0	55.0	33.7	83.9	17.1	34	
Acenaphthylene	27.06	µg/L	2.5	67.5	55	97.9	10.4	38.8	
Acenaphthene	24.85	µg/L	5.0	62.1	42.2	86.6	9.88	38.6	
Fluorene	2.770	µg/L	0.80	69.1	47.3	85.1	4.81	29.3	

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: LCSD-13496		*LCSD*			Batch ID:	13496	Analysis Date:		8/9/2007 8:56:59 PM
Phenanthrene	1.510	µg/L	0.60	75.1	53.5	97.3	9.00	25	
Anthracene	1.560	µg/L	0.60	77.6	53.6	93.7	6.62	23.9	
Fluoranthene	3.320	µg/L	0.30	82.8	60.1	98.5	11.5	15.7	
Pyrene	3.160	µg/L	0.30	78.8	57.5	108	10.7	15.3	
Benz(a)anthracene	0.3500	µg/L	0.050	87.3	57.7	106	15.4	19	
Chrysene	1.610	µg/L	0.20	80.1	59.1	112	9.09	16.6	
Benzo(b)fluoranthene	0.4300	µg/L	0.10	85.8	67	110	12.3	21.7	
Benzo(k)fluoranthene	0.2100	µg/L	0.020	84.0	63.2	106	10.0	19.4	
Benzo(a)pyrene	0.2100	µg/L	0.030	83.7	49.7	109	15.4	16.7	
Dibenz(a,h)anthracene	0.4400	µg/L	0.040	87.8	54.1	111	13.1	17.3	
Benzo(g,h,i)perylene	0.4300	µg/L	0.080	86.0	51.3	111	15.0	18	
Indeno(1,2,3-cd)pyrene	0.8160	µg/L	0.080	81.4	52.3	103	8.16	17.7	
Method: SW7470									
Sample ID: 0707399-01F MSD		*MSD*			Batch ID:	13533	Analysis Date:		8/3/2007 4:23:11 PM
Mercury	0.005255	mg/L	0.00020	105	75	125	1.10	20	
Sample ID: MB-13533		*MBLK*			Batch ID:	13533	Analysis Date:		8/3/2007 3:48:50 PM
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-13533		*LCS*			Batch ID:	13533	Analysis Date:		8/3/2007 3:50:35 PM
Mercury	0.005079	mg/L	0.00020	102	80	120			
Sample ID: 0707399-01F MS		*MS*			Batch ID:	13533	Analysis Date:		8/3/2007 4:21:27 PM
Mercury	0.005198	mg/L	0.00020	104	75	125			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water
Work Order: 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/8/2007 7:34:34 AM	
Manganese	ND	mg/L	0.0020						
Silver	ND	mg/L	0.0050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/7/2007 4:25:41 PM	
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Silver	ND	mg/L	0.0050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/8/2007 3:46:30 PM	
Aluminum	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Boron	ND	mg/L	0.040						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Manganese	ND	mg/L	0.0020						
Molybdenum	ND	mg/L	0.0080						
Nickel	ND	mg/L	0.010						
Silver	ND	mg/L	0.0050						
Zinc	ND	mg/L	0.050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/9/2007 3:49:12 PM	
Iron	ND	mg/L	0.050						
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/8/2007 7:36:22 AM	
Manganese	0.4927	mg/L	0.0020	98.5	80	120			
Silver	0.5073	mg/L	0.0050	101	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/7/2007 4:28:09 PM	
Barium	0.4888	mg/L	0.020	97.8	80	120			
Cadmium	0.4894	mg/L	0.0020	97.8	80	120			
Chromium	0.4897	mg/L	0.0060	97.9	80	120			
Lead	0.4897	mg/L	0.0050	97.9	80	120			
Silver	0.4969	mg/L	0.0050	99.4	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/8/2007 3:49:31 PM	
Aluminum	0.5152	mg/L	0.020	103	80	120			
Barium	0.5081	mg/L	0.020	102	80	120			
Boron	0.5296	mg/L	0.040	106	80	120			
Cadmium	0.5088	mg/L	0.0020	102	80	120			
Chromium	0.5125	mg/L	0.0060	103	80	120			
Cobalt	0.5037	mg/L	0.0060	101	80	120			
Copper	0.5256	mg/L	0.0060	105	80	120			
Lead	0.5020	mg/L	0.0050	100	80	120			
Manganese	0.4976	mg/L	0.0020	99.5	80	120			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: LCS-13538		*LCS*			Batch ID:	**13538**	Analysis Date:		8/8/2007 3:49:31 PM
Molybdenum	*0.5282*	*mg/L*	*0.0080*	*106*	*80*	*120*			
Nickel	0.4953	mg/L	0.010	99.1	80	120			
Silver	0.5119	mg/L	0.0050	102	80	120			
Zinc	0.5033	mg/L	0.050	99.1	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	**13538**	Analysis Date:		8/9/2007 3:53:41 PM
Iron	0.4738	mg/L	0.050	94.8	80	120			
Method: E160.1									
Sample ID: MB-13514		*MBLK*			Batch ID:	**13514**	Analysis Date:		8/1/2007
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13514		*LCS*			Batch ID:	**13514**	Analysis Date:		8/1/2007
Total Dissolved Solids	1015	mg/L	20	102	80	120			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R24630**	Analysis Date:	8/2/2007 8:59:08 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromochloromethane	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5ml rb		*MBLK*			Batch ID: R24630		Analysis Date:	8/2/2007 8:59:08 AM	
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID: R24630		Analysis Date:	8/2/2007 10:05:56 AM	
Benzene	20.04	µg/L	1.0	100	82.4	128			
Toluene	19.97	µg/L	1.0	99.9	77.2	115			
Chlorobenzene	19.77	µg/L	1.0	98.9	78.3	117			
1,1-Dichloroethene	22.08	µg/L	1.0	110	90.7	132			
Trichloroethene (TCE)	18.68	µg/L	1.0	93.4	71.8	113			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

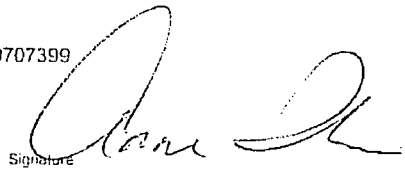
Sample Receipt Checklist

Client Name PNM

Date and Time Received: 7/30/2007

Work Order Number 0707399

Received by AMF

Checklist completed by  Signature

7/30/07 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 - Preservation labels on bottle and cap match?	Yes	☑	No	☐	N/A	☐	
Water - pH acceptable upon receipt?	Yes	☑	No	☐	N/A	☐	

Container/Temp Blank temperature? 6° *4° C ± 2 Acceptable*

If given sufficient time to cool.

COMMENTS:

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: PNM

Address: Alvarado Square MS 2104
Albuquerque, NM 87158

Phone #: 241-4325

Fax #:

Project Name: ABQ ML clean water

Project #: ABQ ML WATER TANK

Project Manager: David Tripp

Sampler: DJ

Sample Temperature: 5.9°C

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No.
07-26-07	1110	AQ	PDB01-INIT	VARIOUS				0707399 -1
			Trip Blank					-2

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	See attached list				Air Bubbles or Headspace (Y or N)
												X				

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	
07-30-07	1400			7/30/07 1400
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

Jones, Brad A., EMNRD

From: Prescott, Michael [Michael.Prescott@pnmresources.com]
Sent: Tuesday, October 16, 2007 3:14 PM
To: Jones, Brad A., EMNRD
Subject: FW: Water Sample prior to hydrostatic test
Importance: High
Attachments: 0707399.pdf

Brad,
Here is the original source water analytical.

-Mike

From: Tripp, David
Sent: Tuesday, October 16, 2007 3:12 PM
To: Prescott, Michael
Subject: FW:
Importance: High

From: anne [mailto:anne@hallenvironmental.com]
Sent: Tuesday, October 16, 2007 3:12 PM
To: Tripp, David
Subject: FW:
Importance: High

Anne Thorne
Sample Login Manager
Hall Environmental Analysis Laboratory
505 345-3975

From: anne [mailto:anne@hallenvironmental.com]
Sent: Tuesday, October 16, 2007 1:01 PM
To: Dave Tripp (dtripp@pnm.com)
Subject:
Importance: High

HERE YOU GO!!

Anne Thorne
Sample Login Manager

Hall Environmental Analysis Laboratory
505 345-3975

This inbound email has been scanned by the MessageLabs Email Security System.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, August 27, 2007

Dave Tripp
PNM
Alvarado Square MS 2104
Albuquerque, NM 87158

TEL: (505) 241-2014
FAX (505) 241-4306

RE: ABQ ML Clean Water

Order No.: 0707399

Dear Dave Tripp:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 7/30/2007 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

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	DBB01-INIT
Lab Order:	0707399	**Collection Date:**	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						**Analyst: SCC**
1,2-Dibromoethane	ND	0.010		µg/L	1	8/2/2007 6:22:41 PM
Surr: 1,2,3-Trichloropropane	111	69.1-138		%REC	1	8/2/2007 6:22:41 PM
EPA METHOD 8082: PCB'S						**Analyst: JMP**
Aroclor 1016	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1221	ND	5.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1232	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1242	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1248	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1254	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Aroclor 1260	ND	1.0		µg/L	1	8/11/2007 5:49:13 PM
Surr: Decachlorobiphenyl	80.4	45.3-140		%REC	1	8/11/2007 5:49:13 PM
Surr: Tetrachloro-m-xylene	53.2	28.1-139		%REC	1	8/11/2007 5:49:13 PM
EPA METHOD 8310: PAHS						**Analyst: JMP**
Naphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
1-Methylnaphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
2-Methylnaphthalene	ND	2.0		µg/L	1	8/10/2007 6:32:49 AM
Acenaphthylene	ND	2.5		µg/L	1	8/10/2007 6:32:49 AM
Acenaphthene	ND	5.0		µg/L	1	8/10/2007 6:32:49 AM
Fluorene	ND	0.80		µg/L	1	8/10/2007 6:32:49 AM
Phenanthrene	ND	0.60		µg/L	1	8/10/2007 6:32:49 AM
Anthracene	ND	0.60		µg/L	1	8/10/2007 6:32:49 AM
Fluoranthene	ND	0.30		µg/L	1	8/10/2007 6:32:49 AM
Pyrene	ND	0.30		µg/L	1	8/10/2007 6:32:49 AM
Benz(a)anthracene	ND	0.050		µg/L	1	8/10/2007 6:32:49 AM
Chrysene	ND	0.20		µg/L	1	8/10/2007 6:32:49 AM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	8/10/2007 6:32:49 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	8/10/2007 6:32:49 AM
Benzo(a)pyrene	ND	0.030		µg/L	1	8/10/2007 6:32:49 AM
Dibenz(a,h)anthracene	ND	0.040		µg/L	1	8/10/2007 6:32:49 AM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	8/10/2007 6:32:49 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	8/10/2007 6:32:49 AM
Surr: Benzo(e)pyrene	97.1	68-116		%REC	1	8/10/2007 6:32:49 AM
EPA METHOD 300.0: ANIONS						**Analyst: KS**
Fluoride	0.17	0.10		mg/L	1	7/31/2007 10:42:30 AM
Chloride	22	0.10		mg/L	1	7/31/2007 10:42:30 AM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	7/31/2007 1:36:35 PM
Sulfate	39	0.50		mg/L	1	7/31/2007 10:42:30 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	DBB01-INIT
Lab Order:	0707399	**Collection Date:**	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7470: MERCURY						Analyst: SLB
Mercury	ND	0.00020		mg/L	1	8/3/2007 4:10:19 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Aluminum	0.22	0.020		mg/L	1	8/8/2007 4:00:05 PM
Barium	0.066	0.020		mg/L	1	8/8/2007 4:00:05 PM
Boron	ND	0.040		mg/L	1	8/8/2007 4:00:05 PM
Cadmium	ND	0.0020		mg/L	1	8/8/2007 4:00:05 PM
Chromium	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Cobalt	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Copper	ND	0.0060		mg/L	1	8/8/2007 4:00:05 PM
Iron	0.13	0.050		mg/L	1	8/9/2007 4:58:27 PM
Lead	ND	0.0050		mg/L	1	8/8/2007 4:00:05 PM
Manganese	0.0035	0.0020		mg/L	1	8/8/2007 4:00:05 PM
Molybdenum	ND	0.0080		mg/L	1	8/8/2007 4:00:05 PM
Nickel	ND	0.010		mg/L	1	8/8/2007 4:00:05 PM
Silver	ND	0.0050		mg/L	1	8/8/2007 4:00:05 PM
Zinc	ND	0.050		mg/L	1	8/8/2007 4:00:05 PM
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Benzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Toluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Ethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Naphthalene	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:15:39 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:15:39 AM
Acetone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Bromobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromodichloromethane	7.4	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromoform	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Bromomethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Butanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Carbon disulfide	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chloroethane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	DBB01-INIT
Lab Order:	0707399	Collection Date:	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Chloroform	51	1.0		µg/L	1	8/2/2007 11:15:39 AM
Chloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
cis-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Dibromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Dibromomethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
2-Hexanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Isopropylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/2/2007 11:15:39 AM
Methylene Chloride	ND	3.0		µg/L	1	8/2/2007 11:15:39 AM
n-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
n-Propylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
sec-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Styrene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
tert-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
trans-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	DBB01-INIT
Lab Order:	0707399	**Collection Date:**	7/26/2007 11:10:00 AM
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: SMP
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/2/2007 11:15:39 AM
Vinyl chloride	ND	1.0		µg/L	1	8/2/2007 11:15:39 AM
Xylenes, Total	ND	1.5		µg/L	1	8/2/2007 11:15:39 AM
Surr: 1,2-Dichloroethane-d4	99.3	68.1-123		%REC	1	8/2/2007 11:15:39 AM
Surr: 4-Bromofluorobenzene	102	53.2-145		%REC	1	8/2/2007 11:15:39 AM
Surr: Dibromofluoromethane	95.8	68.5-119		%REC	1	8/2/2007 11:15:39 AM
Surr: Toluene-d8	102	64-131		%REC	1	8/2/2007 11:15:39 AM
EPA METHOD 418.1: TPH						Analyst: BL
Petroleum Hydrocarbons, TR	ND	1.0		mg/L	1	8/2/2007
EPA METHOD 420.3: TOTAL PHENOLICS						Analyst: JAT
Phenolics, Total Recoverable	ND	3.0		µg/L	1	8/15/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	180	20		mg/L	1	8/1/2007

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL	Reporting Limit
	S Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	Client Sample ID:	Trip Blank
Lab Order:	0707399	Collection Date:	
Project:	ABQ ML Clean Water	Date Received:	7/30/2007
Lab ID:	0707399-02	Matrix:	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB						Analyst: SCC
1,2-Dibromoethane	ND	0.010		µg/L	1	8/2/2007 6:41:57 PM
Surr: 1,2,3-Trichloropropane	76.8	69.1-138		%REC	1	8/2/2007 6:41:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: SMP
Benzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Toluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Ethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Naphthalene	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:49:03 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/2/2007 11:49:03 AM
Acetone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Bromobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromodichloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromoform	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Bromomethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Butanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Carbon disulfide	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chloroethane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Chloroform	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Chloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Chlorotoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
cis-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Dibromochloromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Dibromomethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	PNM	**Client Sample ID:**	Trip Blank
Lab Order:	0707399	**Collection Date:**	
Project:	ABQ ML Clean Water	**Date Received:**	7/30/2007
Lab ID:	0707399-02	**Matrix:**	TRIP BLANK

Analyses	*Result*	*PQL*	*Qual*	*Units*	*DF*	*Date Analyzed*
EPA METHOD 8260B: VOLATILES						Analyst: SMP
1,2-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
2-Hexanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Isopropylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/2/2007 11:49:03 AM
Methylene Chloride	ND	3.0		µg/L	1	8/2/2007 11:49:03 AM
n-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
n-Propylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
sec-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Styrene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
tert-Butylbenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
trans-1,2-DCE	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/2/2007 11:49:03 AM
Vinyl chloride	ND	1.0		µg/L	1	8/2/2007 11:49:03 AM
Xylenes, Total	ND	1.5		µg/L	1	8/2/2007 11:49:03 AM
Surr: 1,2-Dichloroethane-d4	99.3	68.1-123		%REC	1	8/2/2007 11:49:03 AM
Surr: 4-Bromofluorobenzene	102	53.2-145		%REC	1	8/2/2007 11:49:03 AM
Surr: Dibromofluoromethane	95.0	68.5-119		%REC	1	8/2/2007 11:49:03 AM
Surr: Toluene-d8	100	64-131		%REC	1	8/2/2007 11:49:03 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0707399
Lab ID: C07080085-001
Client Sample ID: DBB01-INIT

Report Date: 08/22/07
Collection Date: 07/26/07 11:10
DateReceived: 08/01/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/L		0.0050		Kelada mod	08/06/07 10:30 / eli-b
PHYSICAL PROPERTIES							
Flash Point (Ignitability)	>140	°F		60	140	SW1010	08/03/07 16:07 / cjs
pH	7.48	s.u.	H	0.01		A4500-H B	08/03/07 13:04 / ml
REACTIVITY							
Sulfide, Reactive	ND	mg/kg		20.0	500	SW846 Ch 7	08/09/07 16:29 / jl
Cyanide, Reactive	ND	mg/kg		0.050	250	SW846 Ch 7	08/08/07 12:57 / eli-b
METALS - TOTAL							
Arsenic	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
Selenium	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
Uranium	ND	mg/L		0.001		SW6020	08/06/07 13:18 / sml
RADIONUCLIDES - TOTAL							
Radium 226	ND	pCi/L		0.2		E903.0	08/18/07 16:56 / evm
Radium 228	ND	pCi/L		1.0		RA-05	08/13/07 07:12 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A_070803B	
Sample ID: ICV1_070803_2	Initial Calibration Verification Standard								08/03/07 12:56
pH	6.85	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 070803_2_PH-W	
Sample ID: C07080186-002ADUP	Sample Duplicate				Run: ORION555A_070803B				08/03/07 13:25
pH	7.79	s.u.	0.010				0.4	10	
Method: E903.0								Batch: RA226-2243	
Sample ID: C07080001-001KMS	Sample Matrix Spike				Run: TENNELEC-2_070806B				08/18/07 11:54
Radium 226	18	pCi/L	0.20	85	70	130			
Sample ID: C07080001-001KMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-2_070806B				08/18/07 12:54
Radium 226	18	pCi/L	0.20	87	70	130	2.0	29.8	
Sample ID: MB-RA226-2243	Method Blank				Run: TENNELEC-2_070806B				08/19/07 01:59
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2243	Laboratory Control Sample				Run: TENNELEC-2_070806B				08/19/07 04:00
Radium 226	11	pCi/L	0.20	85	70	130			
Method: Kelada mod								Batch: B_A2007-08-06_4_CN_01	
Sample ID: LFB-4	Laboratory Fortified Blank				Run: SUB-B97431				08/06/07 10:08
Cyanide, Total	0.108	mg/L	0.0050	108	90	110			
Sample ID: MBLK-5	Method Blank				Run: SUB-B97431				08/06/07 10:10
Cyanide, Total	ND	mg/L	0.001						
Sample ID: B07080362-001AMS	Sample Matrix Spike				Run: SUB-B97431				08/06/07 10:50
Cyanide, Total	0.113	mg/L	0.0050	108	90	110			
Sample ID: B07080362-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-B97431				08/06/07 10:52
Cyanide, Total	0.111	mg/L	0.0050	106	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: RA228-1768
Sample ID: LCS-228-RA226-2243	Laboratory Control Sample				Run: TENNELEC-3_070806B				08/13/07 07:12
Radium 228	7.2	pCi/L	1.0	96	70	130			
Sample ID: MB-RA226-2243	Method Blank				Run: TENNELEC-3_070806B				08/13/07 07:12
Radium 228	ND	pCi/L	1						
Sample ID: C07080001-002KMS	Sample Matrix Spike				Run: TENNELEC-3_070806B				08/13/07 07:12
Radium 228	12	pCi/L	1.0	96	70	130			
Sample ID: C07080001-002KMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_070806B				08/13/07 07:12
Radium 228	12	pCi/L	1.0	91	70	130	5.2	39.3	
Method: SW1010									Batch: 070803A-FLSHPNT-LIQ
Sample ID: LCS1_070803A	Laboratory Control Sample				Run: PM_FLASHPOINT A_070803				08/03/07 14:22
Flash Point (Ignitability)	82.0	°F	60	100	96	104			
Sample ID: MBLK1_070803A	Method Blank				Run: PM_FLASHPOINT A_070803				08/03/07 16:41
Flash Point (Ignitability)	ND	°F							
Method: SW6020									Batch: 15533
Sample ID: MB-15533	Method Blank				Run: ICPMS2-C_070806A				08/06/07 12:41
Arsenic	ND	mg/L	0.0001						
Selenium	ND	mg/L	0.0002						
Uranium	ND	mg/L	2E-05						
Sample ID: LCS-15533	Laboratory Control Sample				Run: ICPMS2-C_070806A				08/06/07 12:52
Arsenic	0.474	mg/L	0.0014	95	90	110			
Selenium	0.475	mg/L	0.0017	95	90	110			
Uranium	0.476	mg/L	0.00030	95	90	110			
Sample ID: C07080085-001AMS4	Post Digestion Spike				Run: ICPMS2-C_070806A				08/06/07 13:23
Arsenic	0.0689	mg/L	0.0010	97	75	125			
Selenium	0.133	mg/L	0.0010	88	75	125			
Uranium	0.0743	mg/L	0.00030	106	75	125			
Sample ID: C07080085-001AMSD4	Post Digestion Spike Duplicate				Run: ICPMS2-C_070806A				08/06/07 13:50
Arsenic	0.0670	mg/L	0.0010	95	75	125	2.8	20	
Selenium	0.126	mg/L	0.0010	84	75	125	5.5	20	
Uranium	0.0730	mg/L	0.00030	104	75	125	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 0707399

Report Date: 08/22/07
Work Order: C07080085

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW846 Ch 7									Batch: 15642
Sample ID: MB-15642	Method Blank				Run: TITRATION_070809A				08/09/07 16:18
Sulfide, Reactive	ND	mg/kg	1						
Sample ID: C07080085-001EMS	Sample Matrix Spike				Run: TITRATION_070809A				08/09/07 16:33
Sulfide, Reactive	756	mg/kg	20	101	80	120			
Sample ID: C07080085-001EMSD	Sample Matrix Spike Duplicate				Run: TITRATION_070809A				08/09/07 16:35
Sulfide, Reactive	712	mg/kg	20	95	80	120	6.0	20	
Method: SW846 Ch 7									Batch: B_28128
Sample ID: MB-28128	Method Blank				Run: SUB-B97570				08/08/07 12:59
Cyanide, Reactive	ND	mg/kg	0.05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E300									
Sample ID: 0707399-01E MSD		*MSD*			Batch ID:	R24592	Analysis Date:	7/31/2007 2:11:24 PM	
Fluoride	0.6746	mg/L	0.10	102	80	120	0.406	20	
Chloride	26.12	mg/L	0.10	86.2	80	120	0.0625	20	
Sulfate	47.38	mg/L	0.50	88.3	80	120	0.174	20	
Sample ID: MBLK		*MBLK*			Batch ID:	R24592	Analysis Date:	7/31/2007 10:07:41 AM	
Fluoride	ND	mg/L	0.10						
Chloride	ND	mg/L	0.10						
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20						
Sulfate	ND	mg/L	0.50						
Sample ID: LCS ST300-07026		*LCS*			Batch ID:	R24592	Analysis Date:	7/31/2007 10:25:06 AM	
Fluoride	0.5225	mg/L	0.10	104	90	110			
Chloride	5.022	mg/L	0.10	100	90	110			
Nitrate (As N)+Nitrite (As N)	3.548	mg/L	0.20	101	90	110			
Sulfate	10.28	mg/L	0.50	103	90	110			
Sample ID: 0707399-01E MS		*MS*			Batch ID:	R24592	Analysis Date:	7/31/2007 1:53:59 PM	
Fluoride	0.6773	mg/L	0.10	102	80	120			
Chloride	26.11	mg/L	0.10	85.9	80	120			
Sulfate	47.46	mg/L	0.50	89.1	80	120			
Method: E418.1									
Sample ID: MB-13508		*MBLK*			Batch ID:	13508	Analysis Date:	8/2/2007	
Petroleum Hydrocarbons, TR	ND	mg/L	1.0						
Sample ID: LCS-13508		*LCS*			Batch ID:	13508	Analysis Date:	8/2/2007	
Petroleum Hydrocarbons, TR	4.510	mg/L	1.0	90.2	80.5	112			
Sample ID: LCSD-13508		*LCSD*			Batch ID:	13508	Analysis Date:	8/2/2007	
Petroleum Hydrocarbons, TR	4.460	mg/L	1.0	89.2	80.5	112	1.11	7.43	
Method: E420.3									
Sample ID: MB-13617		*MBLK*			Batch ID:	13617	Analysis Date:	8/15/2007	
Phenolics, Total Recoverable	ND	µg/L	3.0						
Sample ID: LCS-13617		*LCS*			Batch ID:	13617	Analysis Date:	8/15/2007	
Phenolics, Total Recoverable	18.95	µg/L	3.0	94.8	51.7	133			
Sample ID: LCSD-13617		*LCSD*			Batch ID:	13617	Analysis Date:	8/15/2007	
Phenolics, Total Recoverable	20.00	µg/L	3.0	100	51.7	133	5.40	0	
Method: E504.1									
Sample ID: MB-13518		*MBLK*			Batch ID:	13518	Analysis Date:	8/2/2007 3:45:39 PM	
1,2-Dibromoethane	ND	µg/L	0.010						
Sample ID: LCS-13518		*LCS*			Batch ID:	13518	Analysis Date:	8/2/2007 4:05:38 PM	
1,2-Dibromoethane	0.09900	µg/L	0.010	99.0	70	130			
Sample ID: LCSD-13518		*LCSD*			Batch ID:	13518	Analysis Date:	8/2/2007 4:25:38 PM	
1,2-Dibromoethane	0.1080	µg/L	0.010	108	70	130	8.70	13.5	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8082									
Sample ID: MB-13499		*MBLK*			Batch ID:	13499	Analysis Date:		8/11/2007 259:11 AM
Aroclor 1016	ND	µg/L	1.0						
Aroclor 1221	ND	µg/L	5.0						
Aroclor 1232	ND	µg/L	1.0						
Aroclor 1242	ND	µg/L	1.0						
Aroclor 1248	ND	µg/L	1.0						
Aroclor 1254	ND	µg/L	1.0						
Aroclor 1260	ND	µg/L	1.0						
Sample ID: LCS-13499		*LCS*			Batch ID:	13499	Analysis Date:		8/11/2007 344:10 AM
Aroclor 1260	4.152	µg/L	1.0	83.0	52.1	148			
Sample ID: LCSD-13499		*LCSD*			Batch ID:	13499	Analysis Date:		8/11/2007 428:07 AM
Aroclor 1260	3.932	µg/L	1.0	78.6	52.1	148	5.44	30	

Qualifiers:

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- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: MB-13496		*MBLK*			Batch ID: 13496		Analysis Date:	8/9/2007 7:21:01 PM	
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	2.0						
2-Methylnaphthalene	ND	µg/L	2.0						
Acenaphthylene	ND	µg/L	2.5						
Acenaphthene	ND	µg/L	5.0						
Fluorene	ND	µg/L	0.80						
Phenanthrene	ND	µg/L	0.60						
Anthracene	ND	µg/L	0.60						
Fluoranthene	ND	µg/L	0.30						
Pyrene	ND	µg/L	0.30						
Benz(a)anthracene	ND	µg/L	0.050						
Chrysene	ND	µg/L	0.20						
Benzo(b)fluoranthene	ND	µg/L	0.10						
Benzo(k)fluoranthene	ND	µg/L	0.020						
Benzo(a)pyrene	0.03000	µg/L	0.030						
Dibenz(a,h)anthracene	0.04000	µg/L	0.040						
Benzo(g,h,i)perylene	ND	µg/L	0.080						
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080						
Sample ID: LCS-13496		*LCS*			Batch ID: 13496		Analysis Date:	8/9/2007 8:09:00 PM	
Naphthalene	18.51	µg/L	2.0	46.3	33.9	87.9			
1-Methylnaphthalene	18.22	µg/L	2.0	45.4	35.2	85			
2-Methylnaphthalene	18.55	µg/L	2.0	46.4	33.7	83.9			
Acenaphthylene	24.39	µg/L	2.5	60.8	55	97.9			
Acenaphthene	22.51	µg/L	5.0	56.3	42.2	86.6			
Fluorene	2.640	µg/L	0.80	65.8	47.3	85.1			
Phenanthrene	1.380	µg/L	0.60	68.7	53.5	97.3			
Anthracene	1.460	µg/L	0.60	72.6	53.6	93.7			
Fluoranthene	2.960	µg/L	0.30	73.8	60.1	98.5			
Pyrene	2.840	µg/L	0.30	70.8	57.5	108			
Benz(a)anthracene	0.3000	µg/L	0.050	74.8	57.7	106			
Chrysene	1.470	µg/L	0.20	73.1	59.1	112			
Benzo(b)fluoranthene	0.3800	µg/L	0.10	75.8	67	110			
Benzo(k)fluoranthene	0.1900	µg/L	0.020	76.0	63.2	106			
Benzo(a)pyrene	0.1800	µg/L	0.030	71.7	49.7	109			
Dibenz(a,h)anthracene	0.3860	µg/L	0.040	77.0	54.1	111			
Benzo(g,h,i)perylene	0.3700	µg/L	0.080	74.0	51.3	111			
Indeno(1,2,3-cd)pyrene	0.7520	µg/L	0.080	75.0	52.3	103			
Sample ID: LCSD-13496		*LCSD*			Batch ID: 13496		Analysis Date:	8/9/2007 8:56:59 PM	
Naphthalene	21.99	µg/L	2.0	55.0	33.9	87.9	17.2	32.1	
1-Methylnaphthalene	21.65	µg/L	2.0	54.0	35.2	85	17.2	32.7	
2-Methylnaphthalene	22.01	µg/L	2.0	55.0	33.7	83.9	17.1	34	
Acenaphthylene	27.06	µg/L	2.5	67.5	55	97.9	10.4	38.8	
Acenaphthene	24.85	µg/L	5.0	62.1	42.2	86.6	9.88	38.6	
Fluorene	2.770	µg/L	0.80	69.1	47.3	85.1	4.81	29.3	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: LCSD-13496		*LCSD*			**Batch ID:**	13496	**Analysis Date:**		8/9/2007 8:56:59 PM
Phenanthrene	1.510	µg/L	0.60	75.1	53.5	97.3	9.00	25	
Anthracene	1.560	µg/L	0.60	77.6	53.6	93.7	6.62	23.9	
Fluoranthene	3.320	µg/L	0.30	82.8	60.1	98.5	11.5	15.7	
Pyrene	3.160	µg/L	0.30	78.8	57.5	108	10.7	15.3	
Benz(a)anthracene	0.3500	µg/L	0.050	87.3	57.7	106	15.4	19	
Chrysene	1.610	µg/L	0.20	80.1	59.1	112	9.09	16.6	
Benzo(b)fluoranthene	0.4300	µg/L	0.10	85.8	67	110	12.3	21.7	
Benzo(k)fluoranthene	0.2100	µg/L	0.020	84.0	63.2	106	10.0	19.4	
Benzo(a)pyrene	0.2100	µg/L	0.030	83.7	49.7	109	15.4	16.7	
Dibenz(a,h)anthracene	0.4400	µg/L	0.040	87.8	54.1	111	13.1	17.3	
Benzo(g,h,i)perylene	0.4300	µg/L	0.080	86.0	51.3	111	15.0	18	
Indeno(1,2,3-cd)pyrene	0.8160	µg/L	0.080	81.4	52.3	103	8.16	17.7	
Method: SW7470									
Sample ID: 0707399-01F MSD		*MSD*			**Batch ID:**	13533	**Analysis Date:**		8/3/2007 4:23:11 PM
Mercury	0.005255	mg/L	0.00020	105	75	125	1.10	20	
Sample ID: MB-13533		*MBLK*			**Batch ID:**	13533	**Analysis Date:**		8/3/2007 3:48:50 PM
Mercury	ND	mg/L	0.00020						
Sample ID: LCS-13533		*LCS*			**Batch ID:**	13533	**Analysis Date:**		8/3/2007 3:50:35 PM
Mercury	0.005079	mg/L	0.00020	102	80	120			
Sample ID: 0707399-01F MS		*MS*			**Batch ID:**	13533	**Analysis Date:**		8/3/2007 4:21:27 PM
Mercury	0.005198	mg/L	0.00020	104	75	125			

Qualifiers:

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QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/8/2007 1:34:34 AM	
Manganese	ND	mg/L	0.0020						
Silver	ND	mg/L	0.0050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/7/2007 4:25:41 PM	
Barium	ND	mg/L	0.020						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Silver	ND	mg/L	0.0050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/8/2007 3:46:30 PM	
Aluminum	ND	mg/L	0.020						
Barium	ND	mg/L	0.020						
Boron	ND	mg/L	0.040						
Cadmium	ND	mg/L	0.0020						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Manganese	ND	mg/L	0.0020						
Molybdenum	ND	mg/L	0.0080						
Nickel	ND	mg/L	0.010						
Silver	ND	mg/L	0.0050						
Zinc	ND	mg/L	0.050						
Sample ID: MB-13538		*MBLK*			Batch ID:	13538	Analysis Date:	8/9/2007 3:49:12 PM	
Iron	ND	mg/L	0.050						
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/8/2007 7:36:22 AM	
Manganese	0.4927	mg/L	0.0020	98.5	80	120			
Silver	0.5073	mg/L	0.0050	101	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/7/2007 4:28:09 PM	
Barium	0.4888	mg/L	0.020	97.8	80	120			
Cadmium	0.4894	mg/L	0.0020	97.8	80	120			
Chromium	0.4897	mg/L	0.0060	97.9	80	120			
Lead	0.4897	mg/L	0.0050	97.9	80	120			
Silver	0.4969	mg/L	0.0050	99.4	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/8/2007 3:49:31 PM	
Aluminum	0.5152	mg/L	0.020	103	80	120			
Barium	0.5081	mg/L	0.020	102	80	120			
Boron	0.5296	mg/L	0.040	106	80	120			
Cadmium	0.5088	mg/L	0.0020	102	80	120			
Chromium	0.5125	mg/L	0.0060	103	80	120			
Cobalt	0.5037	mg/L	0.0060	101	80	120			
Copper	0.5256	mg/L	0.0060	105	80	120			
Lead	0.5020	mg/L	0.0050	100	80	120			
Manganese	0.4976	mg/L	0.0020	99.5	80	120			

Qualifiers:

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- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/8/2007 3:49:31 PM	
Molybdenum	0.5282	mg/L	0.0080	106	80	120			
Nickel	0.4953	mg/L	0.010	99.1	80	120			
Silver	0.5119	mg/L	0.0050	102	80	120			
Zinc	0.5033	mg/L	0.050	99.1	80	120			
Sample ID: LCS-13538		*LCS*			Batch ID:	13538	Analysis Date:	8/9/2007 3:53:41 PM	
Iron	0.4738	mg/L	0.050	94.8	80	120			
Method: E160.1									
Sample ID: MB-13514		*MBLK*			Batch ID:	13514	Analysis Date:	8/1/2007	
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13514		*LCS*			Batch ID:	13514	Analysis Date:	8/1/2007	
Total Dissolved Solids	1015	mg/L	20	102	80	120			

Qualifiers:

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QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R24630**		Analysis Date:	8/2/2007 8:59:08 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromochloromethane	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						

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QA/QC SUMMARY REPORT

Client: PNM
Project: ABQ ML Clean Water **Work Order:** 0707399

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 5ml rb		*MBLK*			Batch ID: R24630		Analysis Date:	8/2/2007 8:59:08 AM	
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID: R24630		Analysis Date:	8/2/2007 10:05:56 AM	
Benzene	20.04	µg/L	1.0	100	82.4	128			
Toluene	19.97	µg/L	1.0	99.9	77.2	115			
Chlorobenzene	19.77	µg/L	1.0	98.9	78.3	117			
1,1-Dichloroethene	22.08	µg/L	1.0	110	90.7	132			
Trichloroethene (TCE)	18.68	µg/L	1.0	93.4	71.8	113			

Qualifiers:

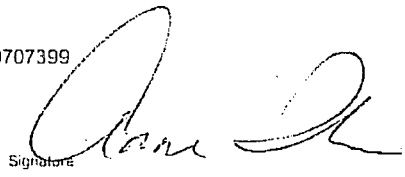
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name PNM | Date and Time Received: 7/30/2007

Work Order Number 0707399 | Received by AMF

Checklist completed by  Signature 7/30/07 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 - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	

Container/Temp Blank temperature? 6° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments:

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: PNM

Project Name: ABQ ML clean water

Address: Alvarado Square MS 2104
Albuquerque, NM 87158

Project #: ABQ ML WATER TANK

Project Manager: David Tripp

Phone #: 241-4325

Sampler: DJ

Fax #:

Sample Temperature: 5.9°C

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No.
07-26-07	1110	AQ	PBB01-INIT	VARIOUS				0707399 -1
			Trip Blank					-2

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	See attached list				Air Bubbles or Headspace (Y or N)
												X				

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	
07-30-07	1400			7/30/07 1400
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks: