

2RP-6

REPORT

DATE:

10.22.08

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

October 22, 2008

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Mr. Wayne Price
New Mexico Oil Conservation Division – Environmental Bureau
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

RE: **Artesia 2008 Groundwater Monitoring Report**
Centurion Pipeline L.P.
Artesia Tank Farm
Artesia, New Mexico
Delta Project No. CPNM1

2RP-6

Dear Mr. Price:

On behalf of Centurion Pipeline L.P., Delta Consultants (Delta) is pleased to present the attached 2008 Groundwater Monitoring Report for the above-referenced site. If you have any questions or comments, or if additional information is required, please contact me at 972-665-0528 or

Mr. Bill Von Drehle at 713-215-7379. coxy.com

Sincerely,

DELTA CONSULTANTS


Michael Henn
Senior Project Manager

Cc via email: Bill Von Drehle - Centurion Pipeline L.P.
Darrel Lester - Centurion Pipeline L.P.
Rebecca Moore - Centurion Pipeline L.P.



Attachments: 2008 Groundwater Monitoring Report (hard copy and CD)



2RP-6

2008 ANNUAL GROUNDWATER MONITORING REPORT

**CENTURION PIPELINE L.P.
ARTESIA TANK FARM
ARTESIA, EDDY COUNTY, NEW MEXICO**

DELTA PROJECT NO. CPNM1

Prepared for:

**Centurion Pipeline L.P.
5 Greenway Plaza
Houston, Texas 77046**

October 22, 2008

Prepared by:

**Delta Consultants
704 Central Parkway East, #1220
Plano, Texas 75024**

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2008 ANNUAL GROUNDWATER MONITORING REPORT

**CENTURION PIPELINE L.P.
ARTESIA TANK FARM
ARTESIA, EDDY COUNTY, NEW MEXICO**

DELTA PROJECT NO. CPNM1

1.0 REPORT SUMMARY

On behalf of Centurion Pipeline L.P. (Centurion), Delta Consultants (Delta) has prepared this 2008 Annual Groundwater Monitoring Report. This report provides the results of the annual groundwater monitoring and sampling activities that occurred at the above-referenced site on August 12, 2008.

2.0 SITE HISTORY

In March 1993, a release of crude oil was discovered at the Artesia Pump Station (site) located approximately 12 miles southeast of Artesia, New Mexico. In August 1993, an initial assessment that included the installation of twenty three (23) soil borings concluded that impacts from phase-separated hydrocarbons (PSH) extended approximately 1,700 feet down Scoggin Draw. An interception trench and groundwater separation/air-stripper remediation system was installed in November 1994, to control and remediate the PSH and dissolved-phase hydrocarbons associated with the release. A total of fourteen monitor wells (MW-1 through MW-14) were eventually installed along Scoggin Draw to evaluate/monitor the extent of groundwater impact. Quarterly reporting was performed throughout operation of the remediation system. The system was shut down in early 1997 due to lack of PSH and dissolved-phase hydrocarbons in the monitor wells in the vicinity of the remediation system. The system was dismantled in the fall of 1998.

Subsequent to April 1997, the on-site monitor wells have been monitored and sampled on an annual basis.

Per New Mexico Oil Conservation Division (NMOCD) approval, five monitor wells (MW-4, MW-6, MW-7, MW-12, and MW-13) were plugged and abandoned at the site on June 19, 2003.

Delta prepared and submitted a site-specific 'Risk Assessment Report' on May 12, 2005.

Per NMOCD approval, three monitor wells (MW-5, MW-8 and MW-14) were plugged and abandoned at the site on August 18, 2005.

The most recent annual report, titled "2006 Annual Groundwater Monitoring Report", was submitted on December 7, 2006.

On June 29, 2007, the NMOCD was notified that effective July 1, 2007, the Operator of Record for Artesia Pump Station and the associated water development easement (WM-72) transferred from BP Pipelines (North America) Inc. to Centurion, a subsidiary of Occidental Petroleum Corporation. During the asset transition between BP and Centurion in August 2007, groundwater monitoring activities were temporarily suspended.

3.0 GROUNDWATER ASSESSMENT

On August 12, 2008, Delta conducted groundwater monitoring activities at the site. The field data and laboratory analytical results from the event were used to produce this report.

3.1 Groundwater Elevations

Groundwater elevation data was collected using a product/water interface probe, from accessible monitor wells. Depth to groundwater at the site ranged from 3.32 feet below grade surface (bgs) in MW-3A to 16.03 feet bgs in MW-11. Groundwater elevation at the site ranged from 3450.10 feet above mean sea level (amsl) at MW-9 to 3399.78 feet amsl at MW-11. Shallow groundwater flows generally south along Scoggin Draw in the site vicinity. Groundwater elevation data is presented in Table 1 and depicted on Figure 2.

Evidence of PSH (e.g., petroleum hydrocarbon sheen) was observed in MW-1 during the groundwater gauging activities.

3.2 Groundwater Chemistry

Groundwater samples were collected from monitor wells MW-2A, MW-3A, MW-9 utilizing low-flow purging and sampling methods, which are in general accordance with guidance contained in EPA publication EPA/540/S-95/504. Groundwater samples were collected from MW-11 using a disposable polyethylene bailer. Prior to sample collection, this monitor well was purged until approximately three well volumes were removed. The area surrounding monitor well MW-3B was inundated with surface water, which impeded

sampling, and a wasp (Yellow Jacket) nest prevented access to MW-10. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B.

According to the analytical results, benzene concentrations ranged from <0.001 milligrams per liter (mg/L) in the sample collected from MW-11 to 0.059 mg/L in the sample collected from MW-3A. The benzene concentrations identified in MW-2A (0.054 mg/L) and MW-3A are above the standard established in the New Mexico Water Quality Control Commission (NMWQCC) Regulations (20.6.2 NMAC) Subpart III, Section 3103 of 0.01 mg/L.

The other constituent of concern (COC) concentrations (specifically toluene, ethylbenzene and xylenes) identified in the samples collected from MW-2A and MW-3A were below the respective NMWQCC standards.

No COC concentrations above NMWQCC standards were identified in the samples collected from MW-9 and MW-11.

The analytical results are summarized in Table 2. Copies of the laboratory analytical report and chain-of-custody documentation are presented in Appendix A.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

- Based on the analytical data, benzene is the only COC that currently exceeds the NMWQCC standards for groundwater. The historical laboratory analytical data indicates that the contaminant plume is stable and COC concentrations are declining. It is apparent that natural attenuation is occurring.
- To remain in accordance with §20.6.2 NMAC, monitored natural attenuation (MNA), through annual groundwater gauging and sampling, will continue as a response action to address affected groundwater at the site.

5.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Groundwater samples were collected from monitor wells MW-2A, MW-3A and MW-9 utilizing low-flow purging and sampling methods, which are in general accordance with guidance contained in EPA publication

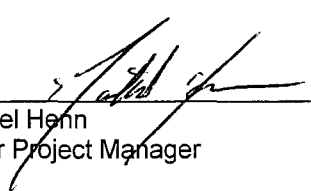
EPA/540/S-95/504. The groundwater sample collected from MW-11 was obtained using a disposable polyethylene bailer. Prior to sample collection, this monitor well was purged until approximately three well volumes were removed. The groundwater samples were collected utilizing industry standards and by personnel wearing appropriate PPE. The groundwater samples were transferred to laboratory-prepared containers (e.g., 40 ml, clear vials preserved with hydrochloric acid), immediately placed in an ice-filled cooler and chilled to less than four degrees Celsius. The cooler was then transferred to the analytical laboratory (Southern Petroleum Laboratories, Inc. in Houston, TX) under chain-of-custody protocol.

6.0 REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

7.0 SIGNATURES

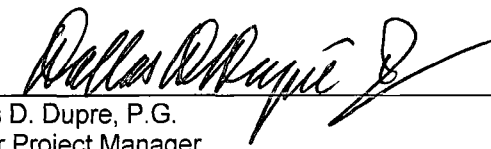
This report was prepared by **DELTA CONSULTANTS**



Michael Henn
Senior Project Manager

Date: 10-22-08

Reviewed by:



Dallas D. Dupre, P.G.
Senior Project Manager

Date: 10/27/08

TABLES

TABLE I
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-1	05/21/93	3448.58	20.52	20.73	0.21	3428.03
	11/17/94		17.54	17.56	0.02	3431.04
	02/09/95		18.02	18.05	0.03	3430.56
	06/16/95		19.15	19.21	0.06	3429.42
	10/02/95		Sheen	16.48	Sheen	3432.10
	11/26/95		15.85	15.87	0.02	3432.73
	04/16/96		14.32	14.33	0.01	3434.26
	07/06/96		15.55	15.57	0.02	3433.03
	09/30/96		11.70	11.75	0.05	3436.87
	01/10/97		12.79	12.90	0.11	3435.77
	04/02/97		13.60	13.62	0.02	3434.98
	07/10/97		14.78	14.79	0.01	3433.80
	10/17/97		14.62	14.63	0.01	3433.96
	01/18/98		NP	13.74	NA	3434.84
	04/18/98		13.75	13.76	0.01	3434.83
	05/29/98		NP	14.56	NA	3434.02
	06/30/98		NP	14.90	NA	3433.68
	07/23/98		NP	15.71	NA	3432.87
	08/19/98		NP	16.49	NA	3432.09
	12/05/98		NP	17.94	NA	3430.64
	04/01/99		NP	18.30	NA	3430.28
	06/03/99		NP	17.65	NA	3430.93
	09/16/99		NP	11.02	NA	3437.56
	01/08/00		NP	10.18	NA	3438.40
	06/08/00		NP	9.84	NA	3438.74
	07/24/01		9.88	9.90	0.02	3438.70
	03/12/02		7.70	7.73	0.03	3440.88
	07/18/03		9.67	9.68	0.01	3438.91
	03/29/04		NP	7.05	NA	3441.53
	08/17/05		NP	6.58	NA	3442.00
	10/10/06		6.54	6.56	0.02	3442.02
	08/12/08		6.54	6.56	0.02	3442.02
MW-2	05/21/93	3456.88	25.81	27.56	1.75	3430.81
	11/17/94		23.28	26.67	3.39	3433.09
	02/09/95		23.98	26.50	2.52	3432.52
	06/16/95		25.63	26.45	0.82	3431.13
	10/02/95		22.01	26.18	4.17	3434.24
	11/26/95		21.23	26.17	4.94	3434.91
	04/16/96		20.58	22.46	1.88	3436.02
	07/06/96		21.86	25.18	3.32	3434.52
	09/30/96		19.17	20.94	1.77	3437.44
	01/10/97		20.20	22.98	2.78	3436.26
	04/02/97		21.00	24.04	3.04	3435.42
	07/10/97		22.41	23.50	1.09	3434.31
	10/17/97		21.92	26.18	4.26	3434.32
	01/18/98		20.03	24.00	3.97	3436.25
	04/18/98		21.04	25.31	4.27	3435.20
	05/29/98		21.68	25.86	4.18	3434.57
	06/30/98		22.00	26.20	4.20	3434.25
	07/23/98		23.08	26.25	3.17	3433.32
	08/19/98		23.66	26.16	2.50	3432.85
	12/05/98		24.90	26.70	1.80	3431.71
	04/01/99		25.15	26.47	1.32	3431.53
	06/01/99		23.10	26.20	3.10	3433.32
	09/16/99		NP	18.28	NA	3438.60
	01/08/00		18.65	19.23	0.58	3438.14
	06/07/00		19.28	19.31	0.03	3437.60
	07/24/01		17.03	17.50	0.47	3439.78
	03/12/02		16.61	17.03	0.42	3440.21
	07/18/03		17.22	17.63	0.41	3439.60
	03/29/04		Not gauged, not assessible			
	08/17/05		Not gauged, not assessible			
	10/10/06		Not gauged, not assessible			
	08/12/08		Not gauged, not assessible			
MW-2A (MW-2R)	10/10/01	3457.46	NP	19.01	NA	3438.45
	03/12/02		NP	17.76	NA	3439.70
	07/18/03		NP	18.39	NA	3439.07
	03/29/04		NP	17.10	NA	3440.36
	08/17/05		NP	16.94	NA	3440.52
	10/10/06		NP	16.08	NA	3441.38
	08/12/08		NP	15.32	NA	3442.14

TABLE 1
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-3	05/21/93	3447.67	16.45	17.81	1.36	3431.02
	11/17/94		13.07	13.65	0.58	3434.51
	02/09/95		13.75	14.32	0.57	3433.83
	06/16/95		15.20	15.84	0.64	3432.37
	10/02/95		10.69	11.43	0.74	3436.87
	11/26/95		9.69	10.41	0.72	3437.87
	04/16/96		9.58	9.63	0.05	3438.08
	07/06/96		11.70	11.80	0.10	3435.96
	09/30/96		8.71	8.75	0.04	3438.95
	01/10/97		10.33	10.40	0.07	3437.33
	04/02/97		11.36	11.42	0.06	3436.30
	07/10/97		13.02	13.10	0.08	3434.64
	10/17/97		13.22	13.24	0.02	3434.45
	01/18/98		10.68	10.78	0.10	3436.98
	04/18/98		11.47	11.55	0.08	3436.19
	05/29/98		12.34	12.45	0.11	3435.31
	06/30/98		12.70	12.80	0.10	3434.96
	07/23/98		13.95	14.02	0.07	3433.71
	08/19/98		15.08	15.15	0.07	3432.58
	12/05/98		16.40	16.50	0.10	3431.26
	04/01/99		16.00	16.08	0.08	3431.66
	06/03/99		14.35	14.38	0.03	3433.32
	09/16/99		7.82	7.87	0.05	3439.84
	01/08/00		8.50	8.60	0.10	3439.16
	06/08/00		6.98	7.05	0.07	3440.68
	07/24/01		6.63	6.73	0.10	3441.03
	03/12/02		5.43	5.50	0.07	3442.23
	07/18/03		Not gauged			
	03/29/04		Not gauged			
	08/17/05		5.20	5.28	0.08	3442.46
	10/10/06		Not gauged			
	08/12/08		Not gauged			
MW-3A (MW-3RS) (MW-3C)	10/10/01	ND	NP	7.34	NA	ND
	03/12/02		NP	5.24	NA	ND
	07/18/03		NP	6.34	NA	ND
	03/29/04		NP	4.50	NA	ND
	08/17/05		NP	3.70	NA	ND
	10/10/06		NP	3.18	NA	ND
	08/12/08		NP	3.32	NA	ND
MW-3B (MW-3R)	10/10/01	ND	NP	7.47	NA	ND
	03/12/02		NP	5.62	NA	ND
	07/18/03		NP	6.81	NA	ND
	03/29/04		Not gauged			
	08/17/05		NP	4.82	NA	ND
	10/10/06		NP	3.86	NA	ND
	08/12/08		NP	3.90	NA	ND
MW-4	11/17/94	ND	NP	28.28	NA	ND
	02/09/95		NP	28.51	NA	ND
	06/16/95		NP	29.58	NA	ND
	10/02/95		NP	24.42	NA	ND
	11/26/95		NP	22.61	NA	ND
	04/16/96		NP	20.63	NA	ND
	07/06/96		NP	26.44	NA	ND
	09/30/96		NP	21.88	NA	ND
	01/10/97		NP	25.24	NA	ND
	04/02/97		NP	25.49	NA	ND
	04/18/98		NP	25.02	NA	ND
	12/05/98		29.52	29.70	0.18	ND
	04/01/99		28.65	28.67	0.02	ND
	06/03/99		NP	26.48	NA	ND
	09/20/99		NP	18.85	NA	ND
	01/08/00		NP	19.30	NA	ND
	06/08/00		NP	18.46	NA	ND
	07/24/01		NP	16.93	NA	ND
	03/12/02		NP	14.89	NA	ND
	06/19/03		Plugged and Abandoned			

TABLE 1
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-5	11/17/94	3430.25	16.22	24.19	7.97	3412.83
	02/09/95		16.84	24.85	8.01	3412.21
	06/16/95		19.44	21.14	1.70	3410.56
	10/02/95		16.19	17.85	1.66	3413.81
	11/26/95		17.58	19.31	1.73	3412.41
	04/16/96		17.04	17.25	0.21	3413.18
	07/06/96		16.20	16.36	0.16	3414.03
	09/30/96		11.17	11.38	0.21	3419.05
	01/10/97		13.45	13.60	0.15	3416.78
	04/02/97		14.19	14.35	0.16	3416.04
	07/10/97		16.22	16.25	0.03	3414.03
	10/17/97		13.37	13.39	0.02	3416.88
	01/18/98		13.57	13.58	0.01	3416.68
	04/18/98		14.04	14.05	0.01	3416.21
	05/29/98		NP	15.09	NA	3415.16
	06/30/98		NP	15.42	NA	3414.83
	07/23/98		NP	17.30	NA	3412.95
	08/19/98		18.09	18.10	0.01	3412.16
	12/05/98		NP	18.94	NA	3411.31
	04/01/99		NP	19.48	NA	3410.77
	06/03/99		NP	14.46	NA	3415.79
	09/20/99		NP	9.91	NA	3420.34
	01/08/00		NP	12.11	NA	3418.14
	06/08/00		NP	12.13	NA	3418.12
	07/24/01		NP	12.77	NA	3417.48
	03/21/02		NP	10.43	NA	3419.82
	07/17/03		NP	12.02	NA	3418.23
	03/29/04		NP	8.90	NA	3421.35
	08/17/05		NP	9.61	NA	3420.64
		Plugged and Abandoned				
MW-6	11/17/94	ND	Sheen	14.53	Sheen	ND
	02/09/95		NP	15.02	NA	ND
	06/16/95		16.24	16.27	0.03	ND
	10/02/95		NP	13.55	NA	ND
	11/26/95		NP	14.84	NA	ND
	04/16/96		NP	13.80	NA	ND
	07/06/96		NP	14.55	NA	ND
	09/30/96		NP	9.62	NA	ND
	01/10/97		NP	12.26	NA	ND
	04/02/97		NP	12.03	NA	ND
	04/18/98		NP	12.14	NA	ND
	12/05/98		NP	15.95	NA	ND
	04/01/99		NP	16.04	NA	ND
	06/03/99		NP	13.60	NA	ND
	09/20/99		NP	8.69	NA	ND
	01/08/00		NP	10.73	NA	ND
	06/08/00		NP	11.45	NA	ND
	07/24/01		NP	11.69	NA	ND
	03/21/02		NP	9.43	NA	ND
	06/19/03		Plugged and Abandoned			
MW-7 *	11/17/94	3460.55	NP	34.33	NA	3426.22
	02/09/95		NP	34.67	NA	3425.88
	06/16/95		NP	35.61	NA	3424.94
	10/02/95		NP	33.79	NA	3426.76
	11/26/95		NP	33.20	NA	3427.35
	04/16/96		NP	30.95	NA	3429.60
	07/06/96		NP	33.36	NA	3427.19
	09/30/96		NP	29.15	NA	3431.40
	01/10/97		NP	30.72	NA	3429.83
	04/02/97		NP	31.85	NA	3428.70
	04/18/98		NP	31.94	NA	3428.61
	12/05/98		NP	35.24	NA	3425.31
	04/01/99		NP	35.24	NA	3425.31
	06/03/99		NP	33.32	NA	3427.23
	09/20/99		NP	27.25	NA	3433.30
	01/08/00		NP	27.95	NA	3432.60
	06/08/00		NP	26.91	NA	3433.64
	07/24/01		NP	25.65	NA	3434.90
	03/21/02		NP	24.08	NA	3436.47
	06/19/03		Plugged and Abandoned			

TABLE 1
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-8	11/17/94	3424.57	13.69	14.95	1.26	3410.69
	02/09/95		14.46	15.02	0.56	3410.03
	06/16/95		15.50	16.41	0.91	3408.93
	10/02/95		13.03	13.45	0.42	3411.48
	11/26/95		14.16	14.71	0.55	3410.33
	04/16/96		13.66	13.70	0.04	3410.90
	07/06/96		13.05	13.07	0.02	3411.52
	09/30/96		8.04	8.07	0.03	3416.53
	01/10/97		9.89	9.90	0.01	3414.68
	04/02/97		10.58	10.60	0.02	3413.99
	07/10/97		NP	12.59	NA	3411.98
	10/17/97		NP	10.20	NA	3414.37
	01/18/98		NP	10.08	NA	3414.49
	04/18/98		NP	10.52	NA	3414.05
	05/29/98		NP	11.55	NA	3413.02
	06/30/98		NP	11.87	NA	3412.70
	07/23/98		NP	13.65	NA	3410.92
	08/19/98		NP	14.42	NA	3410.15
	12/05/98		NP	15.30	NA	3409.27
	04/01/99		NP	15.73	NA	3408.84
	06/03/99		NP	11.88	NA	3412.69
	09/20/99		NP	7.20	NA	3417.37
	01/08/00		NP	8.58	NA	3415.99
	06/08/00		NP	9.71	NA	3414.86
	07/24/01		NP	9.53	NA	3415.04
	03/21/02		NP	7.28	NA	3417.29
	07/17/03		NP	8.59	NA	3415.98
	03/29/04		NP	6.80	NA	3417.77
	08/17/05		NP	6.82	NA	3417.75
		Plugged and Abandoned				
MW-9	11/17/94	3456.12	23.07	23.10	0.03	3433.05
	02/09/95		Sheen	23.41	Sheen	3432.71
	06/16/95		Sheen	24.65	Sheen	3431.47
	10/02/95		Sheen	20.73	Sheen	3435.39
	11/26/95		Sheen	19.52	Sheen	3436.60
	04/16/96		17.53	17.54	0.01	3438.59
	07/06/96		21.20	21.23	0.03	3434.92
	09/30/96		16.00	16.02	0.02	3440.12
	01/10/97		17.55	17.57	0.02	3438.57
	04/02/97		18.91	18.92	0.01	3437.21
	07/10/97		20.39	20.41	0.02	3435.73
	10/17/97		20.13	20.15	0.02	3435.99
	01/18/98		18.39	18.40	0.01	3437.73
	04/18/98		18.80	18.81	0.01	3437.32
	05/29/98		NP	19.50	NA	3436.62
	06/30/98		NP	19.82	NA	3436.30
	07/23/98		21.00	21.01	0.01	3435.12
	08/19/98		NP	21.75	NA	3434.37
	12/05/98		NP	23.18	NA	3432.94
	04/01/99		NP	22.85	NA	3433.27
	06/03/99		NP	20.85	NA	3435.27
	09/20/99		NP	12.56	NA	3443.56
	01/08/00		NP	12.64	NA	3443.48
	06/08/00		NP	11.65	NA	3444.47
	07/24/01		NP	10.65	NA	3445.47
	03/12/02		7.80	7.81	0.01	3448.32
	07/18/03		Sheen	9.71	Sheen	3446.41
	03/29/04		NP	6.90	NA	3449.22
	08/17/05		NP	9.63	NA	3446.49
	10/10/06		NP	6.12	NA	3450.00
	08/12/08		NP	6.02	NA	3450.10

TABLE 1
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-10	11/17/94	3418.33	19.02	21.24	2.22	3398.98
	02/09/95		19.74	22.36	2.62	3398.20
	06/16/95		20.97	23.30	2.33	3397.01
	10/02/95		18.49	19.55	1.06	3399.68
	11/26/95		20.13	22.03	1.90	3397.92
	04/16/96		20.26	20.88	0.62	3397.98
	07/06/96		19.86	20.03	0.17	3398.44
	09/30/96		NP	15.62	NA	3402.71
	01/10/97		19.00	19.05	0.05	3399.32
	04/02/97		19.35	19.40	0.05	3398.97
	07/10/97		20.37	20.42	0.05	3397.95
	10/17/97		NP	16.58	NA	3401.75
	01/18/98		NP	17.82	NA	3400.51
	04/18/98		NP	18.27	NA	3400.06
	05/29/98		NP	18.72	NA	3399.61
	06/30/98		NP	19.04	NA	3399.29
	07/23/98		NP	19.26	NA	3399.07
	08/19/98		NP	19.40	NA	3398.93
	12/05/98		NP	19.69	NA	3398.64
	04/01/99		NP	19.62	NA	3398.71
	06/03/99		NP	17.10	NA	3401.23
	09/16/99		NP	16.39	NA	3401.94
	01/08/00		NP	17.75	NA	3400.58
	06/08/00		NP	17.80	NA	3400.53
	07/24/01		NP	17.44	NA	3400.89
	03/21/02		NP	16.36	NA	3401.97
	07/17/03		NP	16.86	NA	3401.47
	03/29/04		NP	14.20	NA	3404.13
	08/17/05		NP	11.68	NA	3406.65
	10/10/06		NP	15.81	NA	3402.52
	08/12/08		Not gauged			
MW-11	11/17/94	3415.81	NP	19.34	NA	3396.47
	02/09/95		NP	19.61	NA	3396.20
	06/16/95		NP	20.08	NA	3395.73
	10/02/95		NP	19.74	NA	3396.07
	11/26/95		NP	19.94	NA	3395.87
	04/16/96		NP	19.68	NA	3396.13
	07/06/96		NP	19.75	NA	3396.06
	09/30/96		NP	18.65	NA	3397.16
	01/10/97		NP	19.92	NA	3395.89
	04/02/97		NP	19.50	NA	3396.31
	01/18/98		NP	18.91	NA	3396.90
	04/18/98		NP	19.07	NA	3396.74
	06/30/98		NP	19.39	NA	3396.42
	08/19/98		NP	19.54	NA	3396.27
	12/05/98		NP	19.47	NA	3396.34
	04/01/99		NP	19.44	NA	3396.37
	06/02/99		NP	19.58	NA	3396.23
	09/16/99		NP	18.20	NA	3397.61
	01/08/00		NP	18.22	NA	3397.59
	06/07/00		NP	18.55	NA	3397.26
	07/24/01		NP	18.69	NA	3397.12
	03/21/02		NP	17.62	NA	3398.19
	07/17/03		NP	17.65	NA	3398.16
	03/29/04		NP	17.23	NA	3398.58
	08/17/05		NP	16.68	NA	3399.13
	10/10/06		NP	16.50	NA	3399.31
	08/12/08		NP	16.03	NA	3399.78
MW-12	11/17/94	ND	NP	16.47	NA	ND
	02/09/95		NP	16.78	NA	ND
	06/16/95		NP	17.28	NA	ND
	10/02/95		NP	16.03	NA	ND
	11/26/95		NP	16.63	NA	ND
	04/16/96		NP	16.55	NA	ND
	07/06/96		NP	16.45	NA	ND
	09/30/96		NP	13.81	NA	ND
	01/10/97		NP	18.92	NA	ND
	04/02/97		NP	15.20	NA	ND
	04/18/98		NP	14.91	NA	ND
	12/05/98		NP	16.63	NA	ND
	04/01/99		NP	16.87	NA	ND
	06/03/99		NP	15.55	NA	ND
	09/16/99		NP	13.59	NA	ND
	01/08/00		NP	13.70	NA	ND
	06/07/00		NP	14.35	NA	ND
	07/24/01		NP	13.66	NA	ND
	03/21/02		NP	12.94	NA	ND
	06/19/03		Plugged and Abandoned			

TABLE 1
GROUNDWATER ELEVATION DATA
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
MW-13	11/17/94	ND	20.41	20.49	0.08	ND
	02/09/95		20.84	20.87	0.03	ND
	06/16/95		21.35	21.40	0.05	ND
	10/02/95		19.35	19.44	0.09	ND
	11/26/95		21.53	21.58	0.05	ND
	04/16/96		21.82	21.90	0.08	ND
	07/06/96		21.00	21.05	0.05	ND
	09/30/96		16.40	16.42	0.02	ND
	01/10/97		19.17	19.19	0.02	ND
	04/02/97		18.50	18.52	0.02	ND
	07/10/97		NP	19.00	NA	ND
	10/17/97		NP	18.03	NA	ND
	01/18/98		NP	19.11	NA	ND
	04/18/98		NP	19.60	NA	ND
	05/29/98		NP	19.96	NA	ND
	06/30/98		NP	20.28	NA	ND
	07/23/98		NP	20.91	NA	ND
	08/19/98		NP	21.25	NA	ND
	12/05/98		NP	21.60	NA	ND
	04/01/99		NP	21.81	NA	ND
	06/03/99		NP	18.52	NA	ND
	09/16/99		NP	13.59	NA	ND
	01/08/00		NP	16.79	NA	ND
	06/07/00		NP	17.81	NA	ND
	07/24/01		NP	18.18	NA	ND
	03/21/02		NP	16.69	NA	ND
	06/19/03		Plugged and Abandoned			
MW-14	11/17/94	3417.70	NP	18.11	NA	3399.59
	02/09/95		NP	18.45	NA	3399.25
	06/16/95		NP	18.93	NA	3398.77
	10/02/95		NP	18.63	NA	3399.07
	11/26/95		NP	18.83	NA	3398.87
	04/16/96		NP	18.55	NA	3399.15
	07/06/96		NP	18.58	NA	3399.12
	09/30/96		NP	17.63	NA	3400.07
	01/10/97		NP	17.42	NA	3400.28
	04/02/97		NP	17.82	NA	3399.88
	01/18/98		NP	17.61	NA	3400.09
	04/18/98		NP	17.77	NA	3399.93
	06/30/98		NP	18.10	NA	3399.60
	08/19/98		NP	18.23	NA	3399.47
	12/05/98		NP	18.15	NA	3399.55
	04/01/99		NP	18.27	NA	3399.43
	06/02/99		NP	18.25	NA	3399.45
	09/16/99		NP	16.82	NA	3400.88
	01/08/00		NP	16.75	NA	3400.95
	06/07/00		NP	17.07	NA	3400.63
	07/24/01		NP	16.16	NA	3401.54
	03/21/02		NP	15.97	NA	3401.73
	07/17/03		NP	15.97	NA	3401.73
	03/29/04		NP	15.50	NA	3402.20
	08/17/05		NP	15.16	NA	3402.54
			Plugged and Abandoned			

All measurements in feet.

NP = free product not present.

NA = not applicable.

ND = No Data

* - Casing elevation determined by adding 2.84 feet of PVC stick-up (from the MW installation report).
to 3457.71 feet (ground elevation survey, 12/27/04)

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

SAMPLE ID	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
New Mexico Human Health MCLs		0.01	0.75	0.75	0.62	NA	1,000	250
MW-1	7/18/2003	not sampled - free product present						
	3/29/2004*	1.30	0.069	0.160	0.371	0.028	4,060	395
	8/17/2005	0.640	<0.005	0.240	0.340	NA	NA	NA
	10/10/2006	not sampled - free product present						
	8/12/2008	not sampled - sheen present						
MW-2	7/18/2003	not sampled - free product present						
	3/29/2004	not sampled - not accessible						
	8/17/2005	not sampled - not accessible						
	10/10/2006	not sampled - not accessible						
	8/12/2008	not sampled - not accessible						
MW-2A	10/10/2001	0.920	0.2100	0.520	1.200	NA	4,700	670
MW-2B	3/12/2002	0.880	0.0330	0.200	0.520	NA	NA	590
(MW-2R)	3/14/2003*	0.980	0.0150	0.290	0.440	NA	4,320	745
	7/18/2003	0.690	<0.005	0.192	0.410	NA	NA	NA
	3/29/2004*	0.710	0.013	0.21	0.395	<0.005	4,820	835
	8/17/2005	0.590	0.0054	0.140	0.2856	NA	NA	NA
	10/10/2006	0.510	0.011	0.072	0.2482	NA	NA	NA
	8/12/2008	0.054	<0.001	0.0016	0.012	NA	NA	NA
MW-16 Dup - 2B	3/12/2003*	0.052	<0.001	0.0013	0.010	NA	NA	NA
MW-3	7/18/2003	not sampled						
	3/29/2004*	not sampled						
	8/17/2005	not sampled						
	10/10/2006	not sampled						
	8/12/2008	not sampled						
MW-3A (MW-3RS) (MW-3C)	10/10/2001	5.800	0.400	0.570	1.400	NA	4,700	690
	3/12/2002	2.400	0.120	0.310	0.700	NA	NA	520
	3/14/2003*	0.720	<0.001	0.087	0.110	NA	4,220	526
	7/18/2003	0.347	<0.005	0.0361	0.0534	NA	NA	NA
	3/29/2004*	0.14	<0.001	0.014	0.026	<0.005	3,840	383
	8/17/2005	0.027	0.0035	0.018	0.0354	NA	NA	NA
	10/10/2006	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	8/12/2008	0.059	0.0017	0.007	0.260	NA	NA	NA
MW-3B (MW-3R)	10/10/2001	7.900	4.500	1.200	4.400	NA	6,200	1,300
	3/12/2002	3.300	1.200	0.440	1.100	NA	NA	1,200
	7/18/2003	2.92	0.226	0.448	0.908	NA	NA	NA
	3/29/2004*	not sampled						
	8/17/2005	3.300	0.500	0.410	0.870	NA	NA	NA
	10/10/2006	3.100	0.300	0.480	1.020	NA	NA	NA
	8/12/2008	not sampled						

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

SAMPLE ID	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-4	8/31/1993	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA
	11/25/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	12/22/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	2/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	6/16/1995	0.0544	<0.001	0.0025	0.0067	NA	NA	NA
	10/2/1995	0.0098	<0.001	<0.001	<0.001	NA	NA	NA
	11/26/1995	0.0047	0.0020	0.0013	0.0038	NA	NA	NA
	4/17/1995	0.0063	0.0011	<0.001	0.0036	NA	NA	NA
	7/5/1996	0.0050	<0.001	<0.001	0.0020	NA	NA	NA
	9/30/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	1/10/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	4/2/1997	0.0013	<0.001	<0.001	<0.001	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	0.750	0.130	0.100	0.150	NA	NA	NA
	9/20/1999	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	6/8/2000	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/24/2001	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	3/12/2002	0.031	0.0024	0.012	0.019	NA	NA	NA
	3/14/2003*	<0.001	<0.001	<0.001	<0.002	NA	3,290	328
	6/19/2003	Plugged and Abandoned						
MW-5	8/31/1993	1.500	0.290	0.094	0.480	0.0059	NA	NA
	12/22/1994	NA	NA	NA	NA	NA	NA	NA
	2/16/1995	NA	NA	NA	NA	NA	NA	NA
	6/16/1995	NA	NA	NA	NA	NA	NA	NA
	10/2/1995	NA	NA	NA	NA	NA	NA	NA
	11/26/1995	NA	NA	NA	NA	NA	NA	NA
	4/17/1995	NA	NA	NA	NA	NA	NA	NA
	7/5/1996	NA	NA	NA	NA	NA	NA	NA
	9/30/1996	NA	NA	NA	NA	NA	NA	NA
	1/10/1997	NA	NA	NA	NA	NA	NA	NA
	4/2/1997	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	NA	NA	NA	NA	NA	NA	NA
	9/20/1999	NA	NA	NA	NA	NA	NA	NA
	6/8/2000	NA	NA	NA	NA	NA	NA	NA
	7/25/2001	0.400	0.0097	0.060	0.160	NA	NA	NA
	3/21/2002	0.440	0.0091	0.064	0.240	NA	NA	590
	3/14/2003*	0.0094	<0.001	<0.001	0.008	NA	4,170	832
	7/17/2003	0.0157	<0.005	0.000558	0.00403	NA	NA	NA
	3/29/2004*	0.0085	<0.001	<0.001	0.022	<0.005	4,020	570
	8/17/2005	Plugged and Abandoned						
MW-6	11/25/1994	not sampled - free product present						
	12/21/1994	not sampled - free product present						
	2/16/1995	0.0022	<0.001	<0.001	<0.001	NA	NA	NA
	6/16/1995	not sampled - free product present						
	10/2/1995	0.0031	<0.001	<0.001	0.0025	NA	NA	NA
	11/26/1995	0.0058	<0.001	0.0061	0.0190	NA	NA	NA
	4/16/1995	0.0063	0.0011	<0.001	0.0036	NA	NA	NA
	7/6/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/30/1996	<0.001	<0.001	0.002	<0.001	NA	NA	NA
	1/10/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	4/2/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/20/1999	NA	NA	NA	NA	NA	NA	NA
	6/8/2000	NA	NA	NA	NA	NA	NA	NA
	7/24/2001	NA	NA	NA	NA	NA	NA	NA
	3/21/2002	0.013	0.00077	0.0025	0.006	NA	NA	990
	3/14/2003*	<0.001	<0.001	<0.001	<0.002	NA	4,740	1100
	6/19/2003	Plugged and Abandoned						

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

SAMPLE ID	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-7	8/31/1993	< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA	NA	NA
	11/25/1994	< 0.001	< 0.001	< 0.001	< 0.001	NA	NA	NA
	12/22/1994	1.590	< 0.010	0.039	0.0865	NA	NA	NA
	2/16/1995	0.846	< 0.010	0.0209	0.0527	NA	NA	NA
	6/16/1995	3.100	0.0036	0.0587	0.140	NA	NA	NA
	10/2/1995	0.880	< 0.010	0.017	0.0350	NA	NA	NA
	11/26/1995	3.000	0.0046	0.051	0.200	NA	NA	NA
	4/17/1995	1.900	< 0.020	0.130	0.100	NA	NA	NA
	7/6/1996	1.800	< 0.010	0.160	0.120	NA	NA	NA
	9/30/1996	0.170	< 0.020	< 0.020	0.011	NA	NA	NA
	1/10/1997	0.160	< 0.001	< 0.001	0.0032	NA	NA	NA
	4/2/1997	< 0.001	< 0.001	< 0.001	< 0.001	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	0.120	< 0.001	< 0.001	0.0077	NA	NA	NA
	9/20/1999	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	NA
	6/8/2000	0.300	< 0.010	< 0.010	0.04200	NA	NA	NA
	7/24/2001	< 0.00021	< 0.00022	< 0.0002	0.0018	NA	NA	NA
	3/21/2002	0.00068	< 0.0050	0.0011	0.00029	NA	NA	550
	3/14/2003*	< 0.001	< 0.001	< 0.001	< 0.002	NA	3,640	503
	6/19/2003	Plugged and Abandoned						
MW-8	11/17/1994	NA	NA	NA	NA	NA	NA	NA
	12/22/1994	NA	NA	NA	NA	NA	NA	NA
	2/16/1995	NA	NA	NA	NA	NA	NA	NA
	6/16/1995	NA	NA	NA	NA	NA	NA	NA
	10/2/1995	NA	NA	NA	NA	NA	NA	NA
	11/26/1995	NA	NA	NA	NA	NA	NA	NA
	4/16/1995	NA	NA	NA	NA	NA	NA	NA
	7/2/1996	NA	NA	NA	NA	NA	NA	NA
	9/30/1996	NA	NA	NA	NA	NA	NA	NA
	1/10/1997	NA	NA	NA	NA	NA	NA	NA
	4/2/1997	NA	NA	NA	NA	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	3.800	0.820	0.480	1.100	NA	NA	NA
	9/20/1999	NA	NA	NA	NA	NA	NA	NA
	6/8/2000	NA	NA	NA	NA	NA	NA	NA
	7/24/2001	NA	NA	NA	NA	NA	NA	NA
	3/21/2002	1.500	0.110	0.390	0.920	NA	NA	580
	3/21/2003*	0.760	0.039	0.270	0.430	NA	3,990	583
	7/17/2003	1.02000	0.03750	0.30800	0.71800	NA	NA	NA
	3/29/2004*	0.790	0.0038	0.350	0.80	< 0.005	3,970	441
	8/17/2005	Plugged and Abandoned						
MW-9	3/12/2003*	0.0082	< 0.001	0.0013	0.072	NA	3,580	530
	6/19/2003	not sampled - free product present						
	3/29/2004*	0.023	< 0.001	< 0.001	0.110	< 0.005	3,840	570
	8/17/2005	0.010	< 0.001	0.00590	0.037	NA	NA	NA
	10/10/2006	0.0029	< 0.001	0.0014	0.012	NA	NA	NA
	8/12/2008	0.0013	< 0.001	0.0013	0.010	NA	NA	NA
MW-10	11/17/1994	NA	NA	NA	NA	NA	NA	NA
	12/22/1994	NA	NA	NA	NA	NA	NA	NA
	2/16/1995	NA	NA	NA	NA	NA	NA	NA
	6/14/1995	NA	NA	NA	NA	NA	NA	NA
	10/2/1995	NA	NA	NA	NA	NA	NA	NA
	11/25/1995	NA	NA	NA	NA	NA	NA	NA
	4/16/1995	NA	NA	NA	NA	NA	NA	NA
	7/2/1996	NA	NA	NA	NA	NA	NA	NA
	9/30/1996	0.062	< 0.001	0.0022	0.0022	NA	NA	NA
	1/10/1997	NA	NA	NA	NA	NA	NA	NA
	4/2/1997	NA	NA	NA	NA	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	0.061	< 0.001	< 0.001	0.020	NA	NA	NA
	3/21/2002	0.013	0.030	0.990	1.000	NA	NA	23
	3/14/2003*	0.220	0.0078	< 0.001	0.019	NA	4,480	795
	7/17/2003	0.0209	0.00129	< 0.005	0.0116	NA	NA	NA
	3/29/2004*	0.230	< 0.001	< 0.001	0.041	< 0.005	2,510	671
	8/17/2005	0.037	< 0.001	< 0.001	0.016	NA	NA	NA
	10/10/2006	0.017	< 0.001	< 0.001	0.0036	NA	NA	NA
	8/12/2008	not sampled						

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

SAMPLE ID	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-11	11/17/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	12/22/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	2/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	6/14/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	10/2/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	11/25/1995	0.0013	0.0053	0.0021	0.0061	NA	NA	NA
	4/16/1995	<0.001	0.0028	0.0011	0.0037	NA	NA	NA
	7/2/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/30/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	1/10/1997	<0.001	0.0012	0.0015	0.006	NA	NA	NA
	4/2/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/10/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/14/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	1/18/1998	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	4/18/1998	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	3/2/2002	<0.0005	<0.0005	0.00052	0.0016	NA	NA	35
	3/14/2003*	<0.001	<0.001	<0.001	<0.002	NA	3,000	41.7
	7/17/2003	<0.005	<0.005	<0.005	<0.0015	NA	NA	NA
	3/29/2004*	<0.001	<0.001	<0.001	<0.002	<0.005	2,510	38.5
	8/17/2005	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	10/10/2006	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	8/12/2008	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
MW-12	11/17/1994	0.075	0.0011	0.001	0.001	NA	NA	NA
	12/22/1994	0.0056	<0.001	<0.001	<0.001	NA	NA	NA
	2/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	6/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	10/2/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	11/26/1995	0.0011	0.0035	<0.001	0.0051	NA	NA	NA
	4/16/1995	0.0015	0.0051	0.0018	0.0058	NA	NA	NA
	7/2/1996	0.0041	<0.001	<0.001	0.0012	NA	NA	NA
	9/30/1996	0.030	<0.001	<0.001	<0.001	NA	NA	NA
	1/10/1997	0.0023	<0.001	<0.001	<0.001	NA	NA	NA
	4/2/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	0.0039	<0.001	<0.001	<0.001	NA	NA	NA
	9/16/1999	0.030	<0.001	<0.001	<0.003	NA	NA	NA
	6/7/2000	<0.001	<0.001	<0.001	<0.003	NA	NA	NA
	7/24/2001	<0.00013	<0.0002	<0.00022	<0.0028	NA	NA	NA
	3/2/2002	<0.0005	<0.0005	<0.0005	<0.0015	NA	NA	570
	3/14/2003*	<0.001	<0.001	<0.001	<0.002	NA	4,150	676
	6/19/2003	Plugged and Abandoned						
MW-13	11/17/1994	NA	NA	NA	NA	NA	NA	NA
	12/22/1994	NA	NA	NA	NA	NA	NA	NA
	2/16/1995	NA	NA	NA	NA	NA	NA	NA
	6/16/1995	NA	NA	NA	NA	NA	NA	NA
	10/2/1995	NA	NA	NA	NA	NA	NA	NA
	11/26/1995	NA	NA	NA	NA	NA	NA	NA
	4/16/1995	NA	NA	NA	NA	NA	NA	NA
	7/2/1996	NA	NA	NA	NA	NA	NA	NA
	9/30/1996	NA	NA	NA	NA	NA	NA	NA
	1/10/1997	NA	NA	NA	NA	NA	NA	NA
	4/2/1997	NA	NA	NA	NA	NA	NA	NA
	7/10/1997	NA	NA	NA	NA	NA	NA	NA
	9/14/1997	NA	NA	NA	NA	NA	NA	NA
	1/18/1998	NA	NA	NA	NA	NA	NA	NA
	4/18/1998	<0.001	<0.001	0.006	0.013	NA	NA	NA
	9/20/1999	NA	NA	NA	NA	NA	NA	NA
	6/8/2000	NA	NA	NA	NA	NA	NA	NA
	7/24/2001	NA	NA	NA	NA	NA	NA	NA
	3/2/2002	0.0026	<0.00050	0.0017	0.0048	NA	NA	520
	3/14/2003*	<0.001	0.0011	<0.001	<0.002	NA	2,940	28.2
	6/19/2003	Plugged and Abandoned						

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
CENTURION PIPELINE L.P. - ARTESIA TANK FARM
ARTESIA, NEW MEXICO

SAMPLE ID	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)	TDS (mg/L)	CHLORIDE (mg/L)
MW-14	11/17/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	12/22/1994	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	2/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	6/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	10/2/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	11/26/1995	<0.001	0.0036	0.0017	0.0068	NA	NA	NA
	4/16/1995	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/2/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/30/1996	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	1/10/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	4/2/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	7/10/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	9/14/1997	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	1/18/1998	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	4/18/1998	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	3/21/2002	<0.0050	<0.0050	<0.0050	0.0011	NA	NA	31
	3/14/2003*	<0.001	<0.001	<0.001	<0.002	NA	2,950	39.1
	7/17/2003	<0.005	<0.005	<0.005	<0.0015	NA	NA	NA
	3/29/2004*	<0.001	<0.001	<0.001	<0.002	<0.005	3,000	38.9
	8/17/2005	Plugged and Abandoned						
Trip Blank	8/17/2005	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	10/10/2006	<0.001	<0.001	<0.001	<0.001	NA	NA	NA
	8/12/2008	<0.001	<0.001	<0.001	<0.001	NA	NA	NA

mg/L = milligrams per Liter.

NA = Not Analyzed.

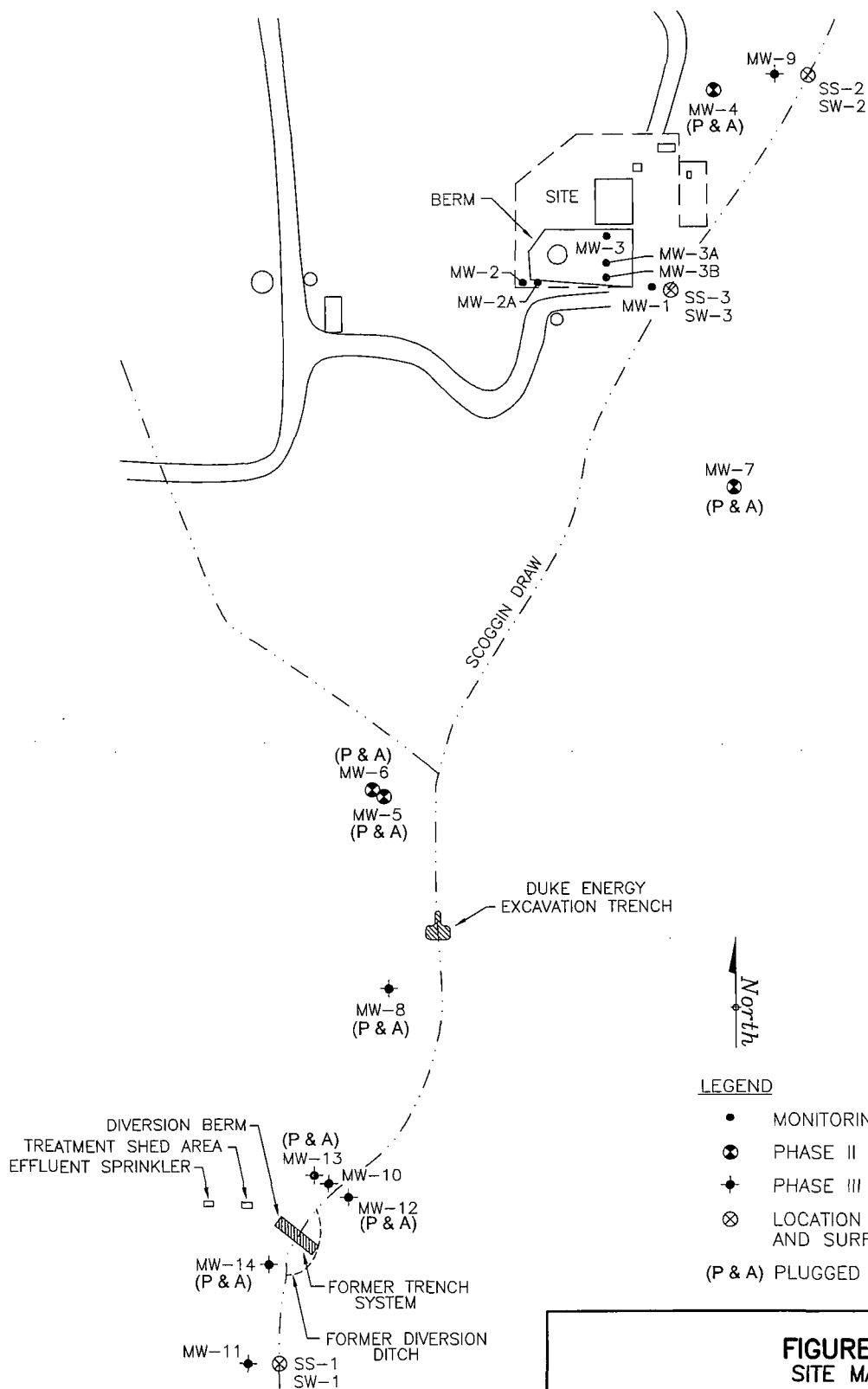
See individual laboratory analytical reports for specific analysis methods utilized.

MCLs = Maximum Concentration Levels.

Bold = Indicates concentrations above New Mexico Human Health Maximum Concentration Levels.

* - Sampled by RT Hicks Consulting

FIGURES



LEGEND

- MONITORING WELL (1993)
- ⊙ PHASE II MONITORING WELL
- ⊕ PHASE III MONITORING WELL
- ⊗ LOCATION OF SEDIMENT SAMPLE AND SURFACE WATER SAMPLE
- (P & A) PLUGGED AND ABANDONED

FIGURE 1 SITE MAP

ARTESIA TANK FARM
BP PIPELINE COMPANY
ARTESIA, NEW MEXICO

PROJECT NO. G04Q4-PP50	PREPARED BY SB	DRAWN BY DD
DATE 9/28/05	REVIEWED BY	FILE NAME ARTESIA-2005



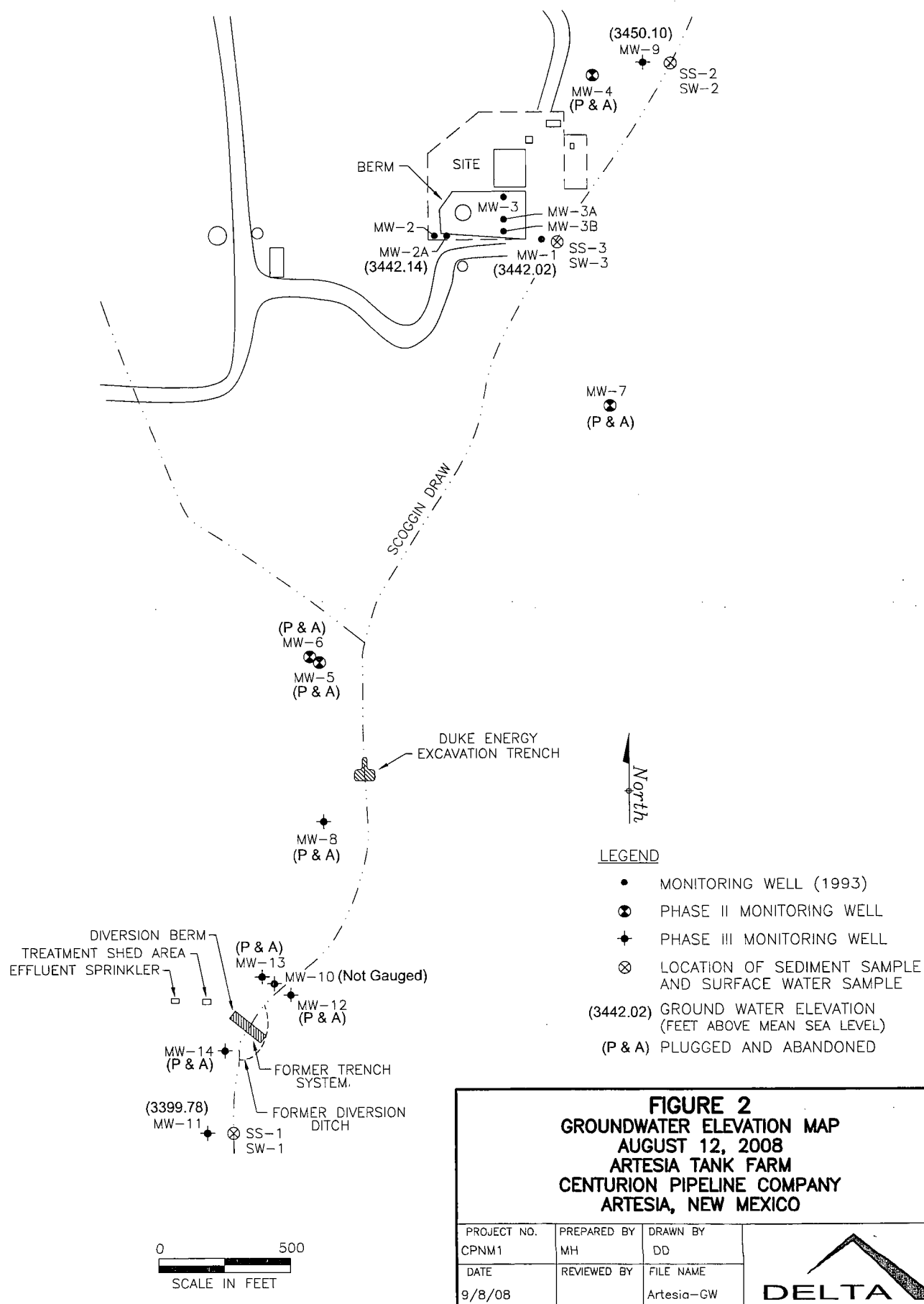
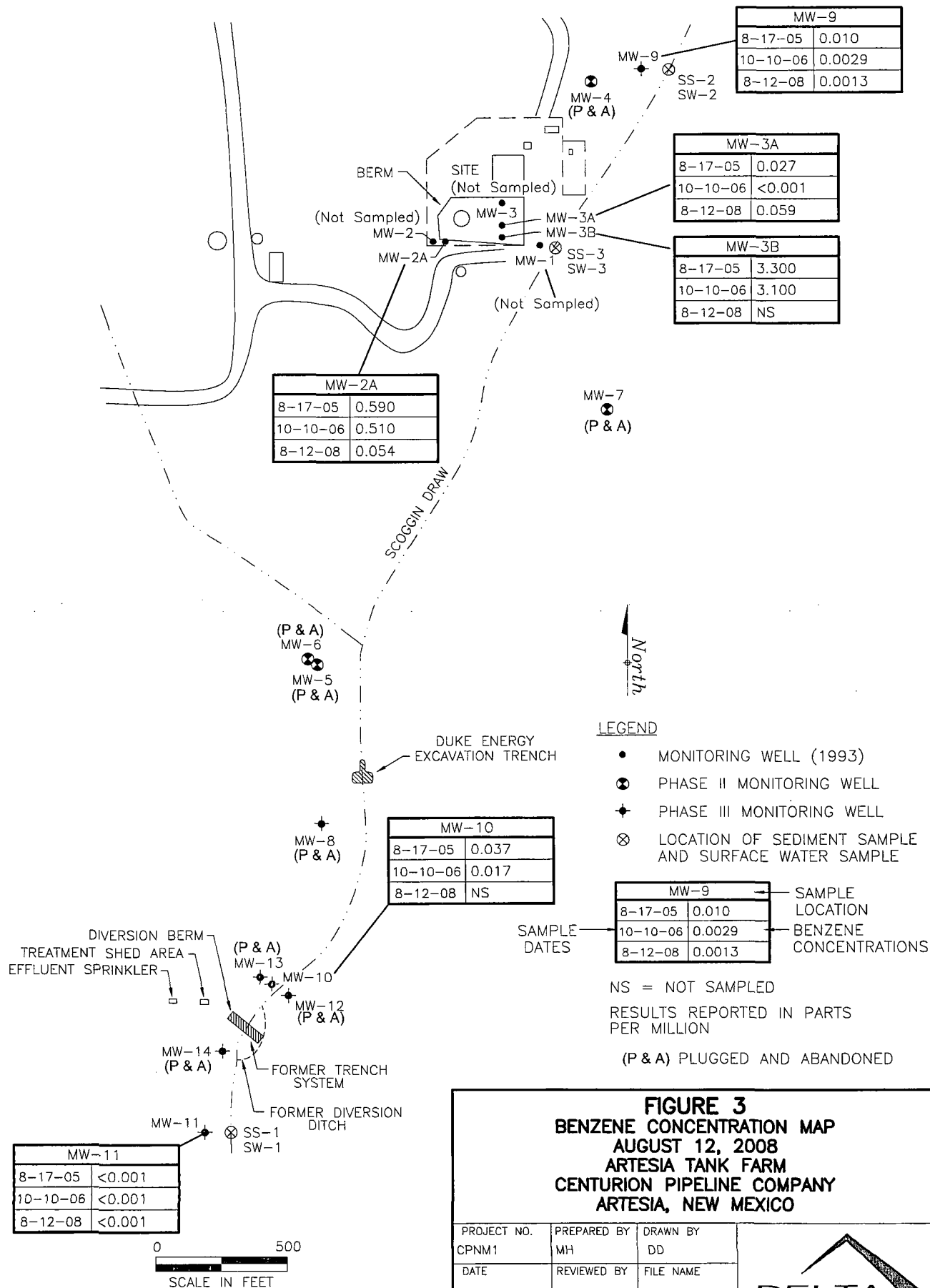


FIGURE 2
GROUNDWATER ELEVATION MAP
AUGUST 12, 2008
ARTESIA TANK FARM
CENTURION PIPELINE COMPANY
ARTESIA, NEW MEXICO

PROJECT NO. CPNM1	PREPARED BY MH	DRAWN BY DD	
DATE 9/8/08	REVIEWED BY	FILE NAME Artesia-GW	



APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORT



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Delta Environmental Consultants, Inc.

Certificate of Analysis Number:

08080802

<u>Report To:</u> Delta Environmental Consultants, Inc. Michael Henn 704 Central Parkway East, Suite 1220 Plano TX 75074- ph: (972) 665-0528 fax:	<u>Project Name:</u> Artesia Station-CPNM 1 <u>Site:</u> Artesia, NM <u>Site Address:</u> <u>PO Number:</u> <u>State:</u> Texas <u>State Cert. No.:</u> T104704205-06-TX <u>Date Reported:</u> 8/27/2008
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This Report Contains A Total Of 15 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

8/27/2008

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
Delta Environmental Consultants, Inc.

Certificate of Analysis Number:

08080802

Report To: Delta Environmental Consultants, Inc. Michael Henn 704 Central Parkway East, Suite 1220 Plano TX 75074- ph: (972) 665-0528 fax:	Project Name: Artesia Station-CPNM 1 Site: Artesia, NM Site Address: PO Number: State: Texas State Cert. No.: T104704205-06-TX Date Reported: 8/27/2008
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Delta Environmental Consultants, Inc.

Certificate of Analysis Number:

08080802

Report To: Delta Environmental Consultants, Inc.
Michael Henn
704 Central Parkway East, Suite 1220

Plano

TX

75074-

ph: (972) 665-0528

fax: (972) 665-9989

Fax To:

Project Name: Artesia Station-CPNM 1

Site: Artesia, NM

Site Address:

PO Number:

State: Texas

State Cert. No.: T104704205-06-TX

Date Reported: 8/27/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-3A	08080802-01	Water	8/12/2008 9:45:00 AM	8/15/2008 10:00:00 AM	321080	☐
MW-2B	08080802-02	Water	8/12/2008 11:25:00 AM	8/15/2008 10:00:00 AM	321080	☐
MW-16	08080802-03	Water	8/12/2008 11:45:00 AM	8/15/2008 10:00:00 AM	321080	☐
MW-9	08080802-04	Water	8/12/2008 1:20:00 PM	8/15/2008 10:00:00 AM	321080	☐
MW-11	08080802-05	Water	8/12/2008 5:05:00 PM	8/15/2008 10:00:00 AM	321080	☐
Trip Blank	08080802-06	Water	8/12/2008	8/15/2008 10:00:00 AM	321080	☐

8/27/2008

Georgia Jones
Senior Project Manager

Date

Richard R. Reed
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-3A

Collected: 08/12/2008 9:45

SPL Sample ID: 08080802-01

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	59		1	1	08/21/08 18:34	EMB	4645559
Toluene	1.7		1	1	08/21/08 18:34	EMB	4645559
Ethylbenzene	7.2		1	1	08/21/08 18:34	EMB	4645559
m,p-Xylene	260		1	1	08/21/08 18:34	EMB	4645559
o-Xylene	ND		1	1	08/21/08 18:34	EMB	4645559
Xylenes, Total	260		1	1	08/21/08 18:34	EMB	4645559
Surr: 1,4-Difluorobenzene	98.2		% 39-163	1	08/21/08 18:34	EMB	4645559
Surr: 4-Bromofluorobenzene	102		% 57-157	1	08/21/08 18:34	EMB	4645559

Georgia Jones

Georgia Jones

Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-2B

Collected: 08/12/2008 11:25 SPL Sample ID: 08080802-02

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	54		1	1	08/21/08 0:12	EMB	4637454
Toluene	ND		1	1	08/21/08 0:12	EMB	4637454
Ethylbenzene	1.6		1	1	08/21/08 0:12	EMB	4637454
m,p-Xylene	12		1	1	08/21/08 0:12	EMB	4637454
o-Xylene	ND		1	1	08/21/08 0:12	EMB	4637454
Xylenes, Total	12		1	1	08/21/08 0:12	EMB	4637454
Surr: 1,4-Difluorobenzene	100		% 39-163	1	08/21/08 0:12	EMB	4637454
Surr: 4-Bromofluorobenzene	95.1		% 57-157	1	08/21/08 0:12	EMB	4637454

Georgia Jones

Georgia Jones
Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-16

Collected: 08/12/2008 11:45 SPL Sample ID: 08080802-03

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	52		1	1	08/21/08 0:40	EMB	4637455
Toluene	ND		1	1	08/21/08 0:40	EMB	4637455
Ethylbenzene	1.3		1	1	08/21/08 0:40	EMB	4637455
m,p-Xylene	10		1	1	08/21/08 0:40	EMB	4637455
o-Xylene	ND		1	1	08/21/08 0:40	EMB	4637455
Xylenes, Total	10		1	1	08/21/08 0:40	EMB	4637455
Surr: 1,4-Difluorobenzene	101		% 39-163	1	08/21/08 0:40	EMB	4637455
Surr: 4-Bromofluorobenzene	94.9		% 57-157	1	08/21/08 0:40	EMB	4637455

Georgia Jones

Georgia Jones
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-9

Collected: 08/12/2008 13:20 SPL Sample ID: 08080802-04

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	1.3		1	1	08/21/08 19:02	EMB	4645560
Toluene	ND		1	1	08/21/08 19:02	EMB	4645560
Ethylbenzene	ND		1	1	08/21/08 19:02	EMB	4645560
m,p-Xylene	4.9		1	1	08/21/08 19:02	EMB	4645560
o-Xylene	1.7		1	1	08/21/08 19:02	EMB	4645560
Xylenes, Total	6.6		1	1	08/21/08 19:02	EMB	4645560
Surr: 1,4-Difluorobenzene	106		% 39-163	1	08/21/08 19:02	EMB	4645560
Surr: 4-Bromofluorobenzene	102		% 57-157	1	08/21/08 19:02	EMB	4645560

Georgia Jones

Georgia Jones

Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

08080802 Page 6
8/27/2008 4:11:45 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-11

Collected: 08/12/2008 17:05

SPL Sample ID: 08080802-05

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND		1	1	08/21/08 1:35	EMB	4637456
Toluene	ND		1	1	08/21/08 1:35	EMB	4637456
Ethylbenzene	ND		1	1	08/21/08 1:35	EMB	4637456
m,p-Xylene	ND		1	1	08/21/08 1:35	EMB	4637456
o-Xylene	ND		1	1	08/21/08 1:35	EMB	4637456
Xylenes, Total	ND		1	1	08/21/08 1:35	EMB	4637456
Surr: 1,4-Difluorobenzene	101		% 39-163	1	08/21/08 1:35	EMB	4637456
Surr: 4-Bromofluorobenzene	95.0		% 57-157	1	08/21/08 1:35	EMB	4637456

Georgia Jones

Georgia Jones
Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Trip Blank

Collected: 08/12/2008 0:00

SPL Sample ID: 08080802-06

Site: Artesia, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	08/20/08 22:49	EMB	4637453
Toluene	ND		1	1	08/20/08 22:49	EMB	4637453
Ethylbenzene	ND		1	1	08/20/08 22:49	EMB	4637453
m,p-Xylene	ND		1	1	08/20/08 22:49	EMB	4637453
o-Xylene	ND		1	1	08/20/08 22:49	EMB	4637453
Xylenes, Total	ND		1	1	08/20/08 22:49	EMB	4637453
Surr: 1,4-Difluorobenzene	102		% 39-163	1	08/20/08 22:49	EMB	4637453
Surr: 4-Bromofluorobenzene	95.3		% 57-157	1	08/20/08 22:49	EMB	4637453

Georgia Jones

Georgia Jones
Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Delta Environmental Consultants, Inc.

Artesia Station-CPNM 1

Analysis: Purgeable Aromatics

Method: SW8021B

WorkOrder: 08080802

Lab Batch ID: R248937

Method Blank

Samples in Analytical Batch:

RunID: HP_N_080820A-4637436

Units: ug/L

Analysis Date: 08/20/2008 9:32

Analyst: EMB

Preparation Date: 08/20/2008 9:32

Prep By: Method SW5030B

Lab Sample ID

08080802-02A

08080802-03A

08080802-05A

08080802-06A

Client Sample ID

MW-2B

MW-16

MW-11

Trip Blank

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	101.1	39-163
Surr: 4-Bromofluorobenzene	95.8	57-157

Laboratory Control Sample (LCS)

RunID: HP_N_080820A-4637435

Units: ug/L

Analysis Date: 08/20/2008 8:37

Analyst: EMB

Preparation Date: 08/20/2008 8:37

Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.6	113	70	130
Ethylbenzene	20.0	21.8	109	66	132
Toluene	20.0	21.9	110	69	133
m,p-Xylene	40.0	43.7	109	67	136
o-Xylene	20.0	21.3	107	67	133
Xylenes, Total	60.0	65.0	108	67	136
Surr: 1,4-Difluorobenzene	100	102	102	39	163
Surr: 4-Bromofluorobenzene	100	96.1	96.1	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08080826-10

RunID: HP_N_080820A-4637438

Units: ug/L

Analysis Date: 08/20/2008 10:58

Analyst: EMB

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Delta Environmental Consultants, Inc.

Artesia Station-CPNM 1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08080802
Lab Batch ID: R248937

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22.7	114	20	22.0	110	3.12	26	40	165
Ethylbenzene	ND	20	21.6	108	20	21.0	105	3.20	34	51	156
Toluene	ND	20	21.9	109	20	21.3	106	2.83	25	58	153
m,p-Xylene	ND	40	43.2	107	40	41.6	103	3.76	27	51	155
o-Xylene	ND	20	20.9	105	20	20.4	102	2.56	25	58	151
Xylenes, Total	ND	60	64.1	106	60	62.0	103	3.37	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	102	102	100	101	101	0.331	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	96.3	96.3	100	96.0	96.0	0.325	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Delta Environmental Consultants, Inc.

Artesia Station-CPNM 1

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08080802
Lab Batch ID: R249396

Method Blank

Samples in Analytical Batch:

RunID: HP_N_080821B-4645558	Units: ug/L	Lab Sample ID	Client Sample ID
Analysis Date: 08/21/2008 18:06	Analyst: EMB	08080802-01A	MW-3A
Preparation Date: 08/21/2008 18:06	Prep By: Method SW5030B	08080802-04A	MW-9

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	102.6	39-163
Surr: 4-Bromofluorobenzene	95.3	57-157

Laboratory Control Sample (LCS)

RunID: HP_N_080821B-4645557	Units: ug/L
Analysis Date: 08/21/2008 17:10	Analyst: EMB
Preparation Date: 08/21/2008 17:10	Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.1	111	70	130
Ethylbenzene	20.0	21.2	106	66	132
Toluene	20.0	21.1	106	69	133
m,p-Xylene	40.0	42.3	106	67	136
o-Xylene	20.0	20.5	103	67	133
Xylenes, Total	60.0	62.8	105	67	136
Surr: 1,4-Difluorobenzene	100	102	102	39	163
Surr: 4-Bromofluorobenzene	100	96.3	96.3	57	157

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08080802-04	
RunID: HP_N_080821B-4645561	Units: ug/L
Analysis Date: 08/21/2008 19:30	Analyst: EMB

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Delta Environmental Consultants, Inc. Artesia Station-CPNM 1

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 08080802
Lab Batch ID: R249396

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	1.34	20	23.2	109	20	23.1	109	0.505	26	40	165
Ethylbenzene	ND	20	21.5	108	20	21.5	108	0.0539	34	51	156
Toluene	ND	20	21.5	108	20	21.4	107	0.561	25	58	153
m,p-Xylene	4.92	40	45.8	102	40	45.7	102	0.115	27	51	155
o-Xylene	1.70	20	21.0	96.7	20	21.3	97.8	1.05	25	58	151
Xylenes, Total	6.62	60	66.8	100	60	67.0	101	0.252	27	51	155
Surr: 1,4-Difluorobenzene	ND	100	104	104	100	104	104	0.389	30	39	163
Surr: 4-Bromofluorobenzene	ND	100	101	101	100	102	102	0.538	30	57	157

Qualifiers: ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	08080802	Received By:	RE
Date and Time Received:	8/15/2008 10:00:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	3.5°C	Chilled by:	Water Ice

- | | | | |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| 2. Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| 3. Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| 4. Chain of custody present? | Yes ☒ | No ☐ | |
| 5. Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| 6. Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| 7. Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| 8. Sample containers intact? | Yes ☒ | No ☐ | |
| 9. Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| 10. All samples received within holding time? | Yes ☒ | No ☐ | |
| 11. Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | |
| 12. Water - VOA vials have zero headspace? | Yes ☒ | No ☐ | VOA Vials Not Present ☐ |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes ☐ | No ☐ | Not Applicable ☒ |

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:



SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No.

321080

page 1 of 1

Client Name: Delta Consultants
Address: 704 Central Pkwy, East Sute 1220 Pflug, TX 75074
Phone/Fax: 972 665-0528 / 972 665-9909
Client Contact: Michael Hearn Email: mhearn@deltaconsultants.com
Project Name/No.: Artesian Station - CPM 1
Site Name: Artesian Ridge Station
Site Location: Artesian NM - Sierritas Draw
Invoice To: Michael Hearn Phone: 665-0528

SAMPLE ID	DATE	TIME	comp	grab	matrix			size	pres.	Number of Containers	Requested Analysis			
					W=water	S=soil	O=oil							
MW-3A	8-12-08	0945		X	W			1 liter 4=4oz 40=vial	1=HCl 2=HNO3 3=H2SO4 X=other	3				
MW-2B	8-12-08	1125		X	W			8oz 16=16oz X=other		3				
MW-16	8-12-08	1145		X	W					3				
MW-9	8-12-08	1320		X	W					3				
MW-11	8-12-08	1705												
Trap Blank	8-12-08	-		X	W					2				
MW-1	8-12-08			X	W					3				

Laboratory remarks:					Intact? ☐ Y ☐ N Ice? ☐ Y ☐ N Temp: 35.2				
Client/Consultant Remarks: Check time on VOA blank for MW-16					Special Detection Limits (specify):				
Laboratory remarks:					PM review (initial):				

Requested TAT

Contract ☐ 72hr
24hr ☐ Standard
48hr ☐
Other ☐

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☒
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐
1. Relinquished by Sampler:
3. Relinquished by:
5. Relinquished by:

2. Received by:
date 8-14-08 time 1730
4. Received by:
date 8-15-08 time 7000
6. Received by Laboratory:
date 8-15-08 time 7000

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777