September 20, 2018

Mr. James Dyer
NMED/SWB, Permitting Section
P.O. Box 26110
Santa Fe, New Mexico 87502-6110 james.dyer@state.nm.us

Re: First semi-annual groundwater monitoring event of the 2018 monitoring period for Las Cruces Foothills Landfill

Dear Mr. Dyer:

On behalf of Las Cruces Utilities (LCU), John Shomaker & Associates, Inc. (JSAI) has prepared this first semi-annual groundwater monitoring report for the 2018 monitoring period at Las Cruces Foothills Landfill. This report was prepared according to the requirements listed in 20.9.9.10.N NMAC, and includes the following items:

- Table 1 summarizing parameters detected above the AML in monitor wells sampled, presented below (20.9.9.10.N NMAC requirements (12), (20))
- Figure 1 groundwater elevation contour map, attached to this letter report (20.9.9.10.N NMAC requirements (6), (18))
- tables with summary of water-level elevation measurements (App. A)
- tables with baseline and background monitoring data for monitor wells sampled, attached to this letter report (20.9.9.10.N NMAC requirements (3), (12), (19)) (App. B)
- laboratory reports, attached to this letter report (20.9.9.10.N NMAC requirements (1), (2), (4), (5), (7) through (15), (17)) (App. C)
- Review of the groundwater monitoring results did not reveal any anomalies in the datasets (20.9.9.10.N NMAC requirement (16).

LCU Staff performed the first semi-annual monitoring event of 2018 at Las Cruces Foothills Landfill on June 20 and 27, 2018. Monitor wells MW-1, MW-2, MW-4, and MW-7 were sampled in June 2018. The attempt was also made to sample up-gradient monitor well MW-3 in June 2018, but the well discharged an insufficient amount of water for sampling.

Due to low yield and slow rate of recovery, monitor well MW-1 was purged 1 week prior to sampling. Additional purging of wells was performed on the day of sampling to the extent possible based on drawdown. Review of the laboratory results for Las Cruces Foothills Landfill monitor wells MW-1, MW-2, MW-4, and MW-7 did not reveal any anomalies in the dataset.

Water levels were measured at MW-1, MW-2, MW-3, MW-4, and MW-7 on June 20 and 27, 2018, prior to purging. Water levels at MW-5, MW-6, MW-8, and MW-9 were measured on August 3, 2018. Based on the depth-to-water measurements collected in June and August 2018, the direction of groundwater flow beneath the landfill remains west-southwest (Fig. 1).

Table 1 presents monitor wells and parameters for which the Assessment Monitoring Level (AML) was exceeded in the first semi-annual monitoring event of 2018. Figures 2 through 5 present graphs of historical data for these parameters. The AML of 0.0025 milligrams per liter (mg/L) for tetrachloroethene (PCE) was exceeded by 0.0105 mg/L or less in monitor wells MW-1, MW-4, and MW-7. Historical PCE trends that show fluctuations and overall decreasing concentrations at MW-2, MW-6, and MW-7 suggest that PCE is naturally attenuating at these locations (Fig. 2).

Table 1. Summary of parameters that were detected above the AML in monitor wells at Las Cruces Foothills Landfill, New Mexico

monitor well	sampling event	parameter	units	GWPS	CAL	AML	result
MW-1	6/27/18	tetrachloroethene (PCE)[1]	mg/L	0.005	0.005	0.0025	**0.011**
MW-4	6/27/18	tetrachloroethene (PCE)[1]	mg/L	0.005	0.005	0.0025	**0.0084**
	6/27/18	trichloroethene (TCE)[1]	mg/L	0.005	0.005	0.0025	**0.0027**
	6/27/18	methylene chloride[1]	mg/L	0.005	0.005	0.0025	**0.012**
MW-7	6/20/18	tetrachloroethene (PCE)[1]	mg/L	0.005	0.005	0.0025	**0.013**
	6/20/18	trichloroethene (TCE)[1]	mg/L	0.005	0.005	0.0025	**0.0037**
	6/20/18	methylene chloride[1]	mg/L	0.005	0.005	0.0025	**0.0028**
	6/20/18	trichlorofluoromethane[1]	mg/L	na	na	0.00195[b]	**0.0025**

[1] Identified as "hazardous" in 20.9.9.20 NMAC
[b] 95-percent increase over practical quantitation limit (PQL)
bold text indicates concentrations that exceed the AML
GWPS - groundwater protection standard
CAL - corrective action level, 75 percent of the GWPS
AML - assessment monitoring level
mg/L - milligrams per liter
na - no GWPS for this parameter

The AML of 0.0025 mg/L for trichloroethene (TCE) was exceeded by 0.0012 mg/L or less in MW-4 and MW-7, the AML of 0.0025 mg/L for methylene chloride was exceeded by 0.0095 mg/L or less in MW-4 and MW-7, and the AML of 0.00195 mg/L for trichlorofluoromethane was exceeded by 0.00055 mg/L in MW-7. These are the same constituents of concern observed in the same monitor wells as in previous monitoring events at Las Cruces Foothills Landfill (see Figs. 2 through 5). These constituents of concern have been below detection limits in MW-9, which is located down-gradient of the landfill.

The second semi-annual groundwater monitoring report for the 2018 monitoring period will include the results of this first semi-annual monitoring event and the second semi-annual event, as well as analysis and interpretation of 2018 results, historical trends, and a discussion of the nature and extent of groundwater contaminants and contaminant transport mechanisms, as have been included in the second semi-annual reports in 2013 through 2017.

Please let me know if you have any questions or comments.

Sincerely,

JOHN SHOMAKER & ASSOCIATES, INC.

Annie McCoy
Senior Hydrogeologist

AMM:am

Enc: Figures 1 through 5
Appendix A. Summary of water-level measurements
Appendix B. Baseline and background monitoring data
Appendix C. Copy of laboratory reports for the July 17 and 27, 2018 sampling event

cc + enc: Carl Clark, Las Cruces Utilities (two complete bound copies)
Josh Rosenblatt, Las Cruces Utilities (one complete bound copy)

ILLUSTRATIONS

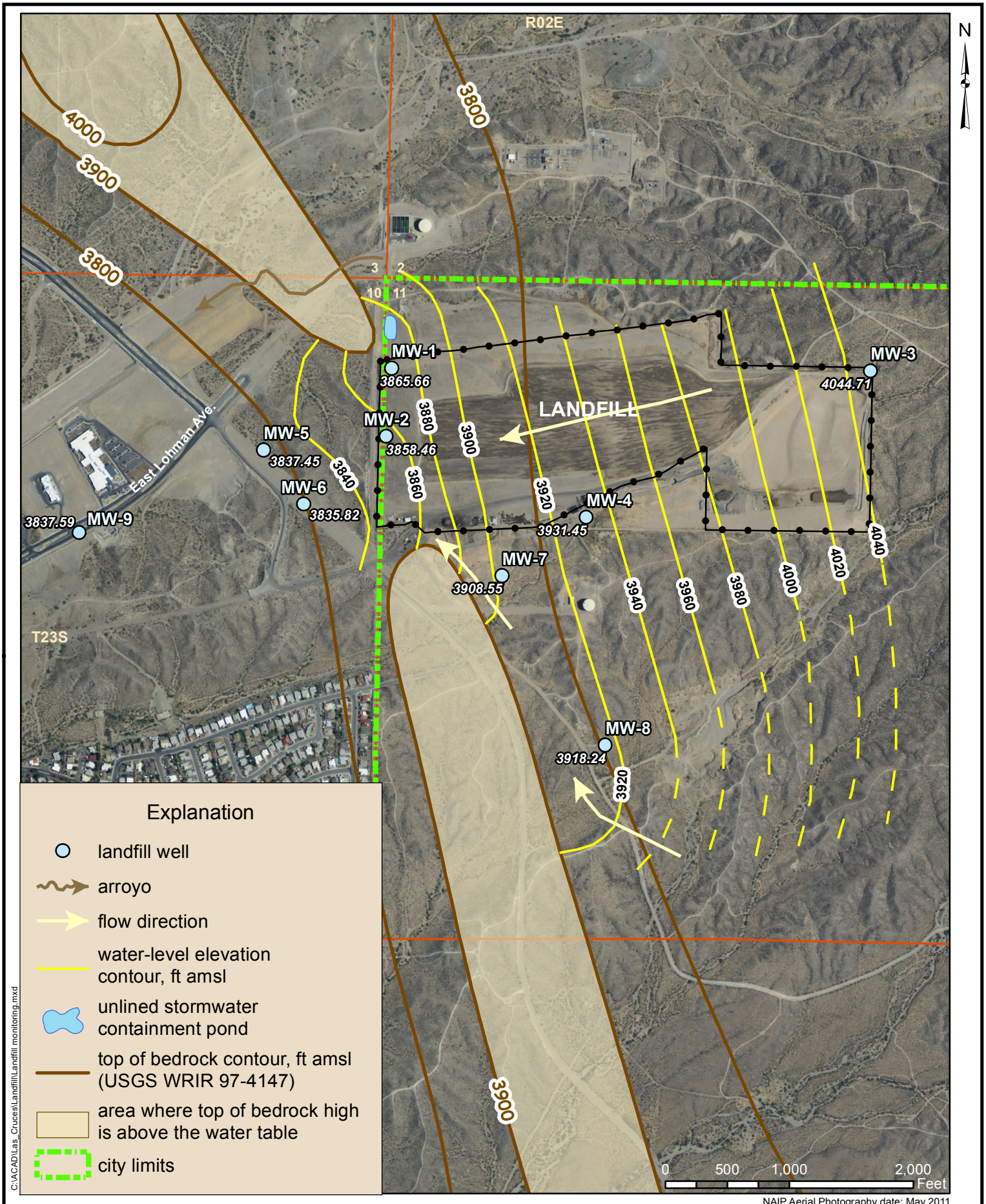

Figure 1. Aerial photograph showing locations of Las Cruces Foothills Landfill monitor wells, groundwater-elevation contours, and direction of groundwater flow in June 2018.

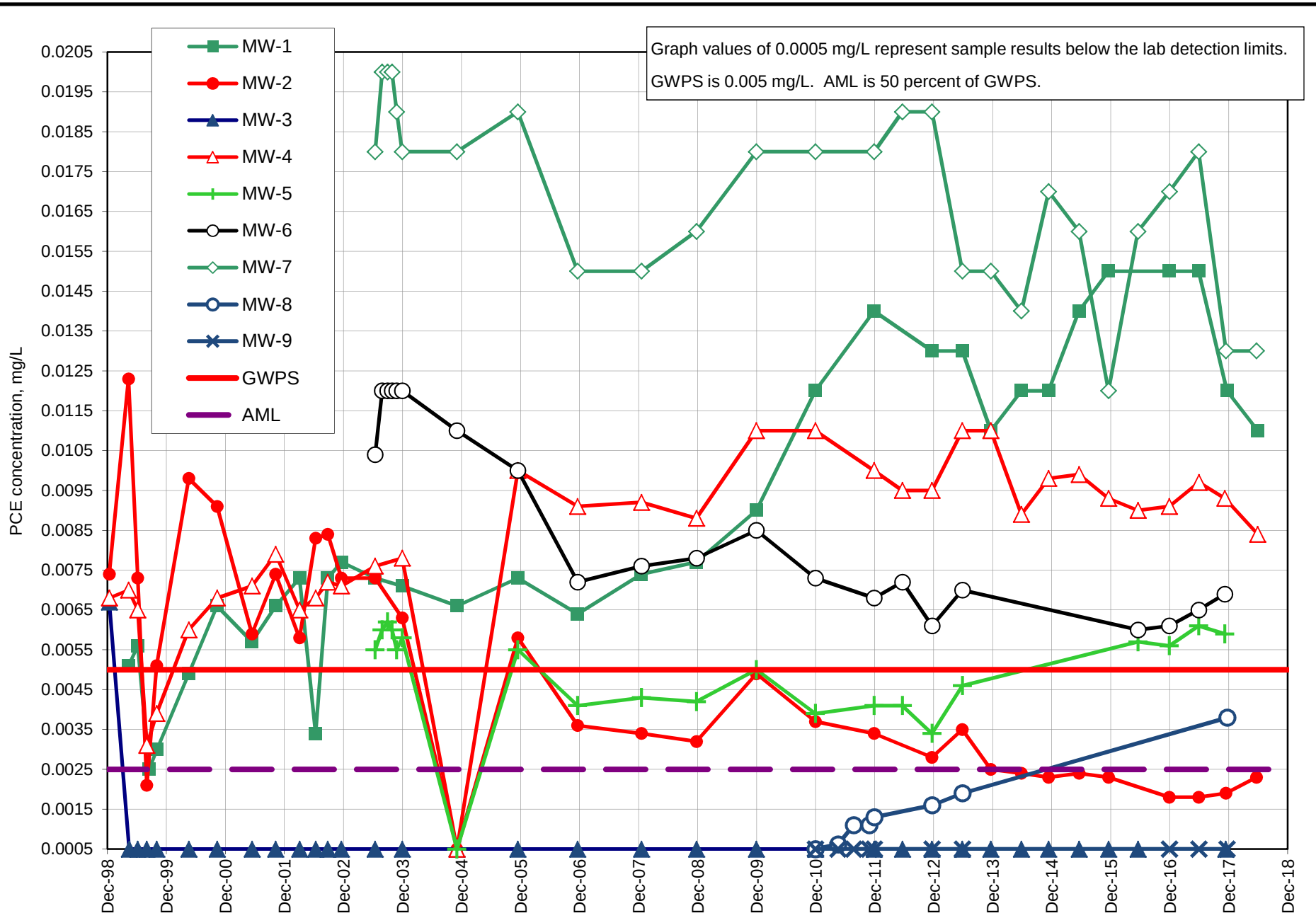

Figure 2. Graph showing tetrachloroethene (PCE) concentrations versus time for monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, New Mexico.

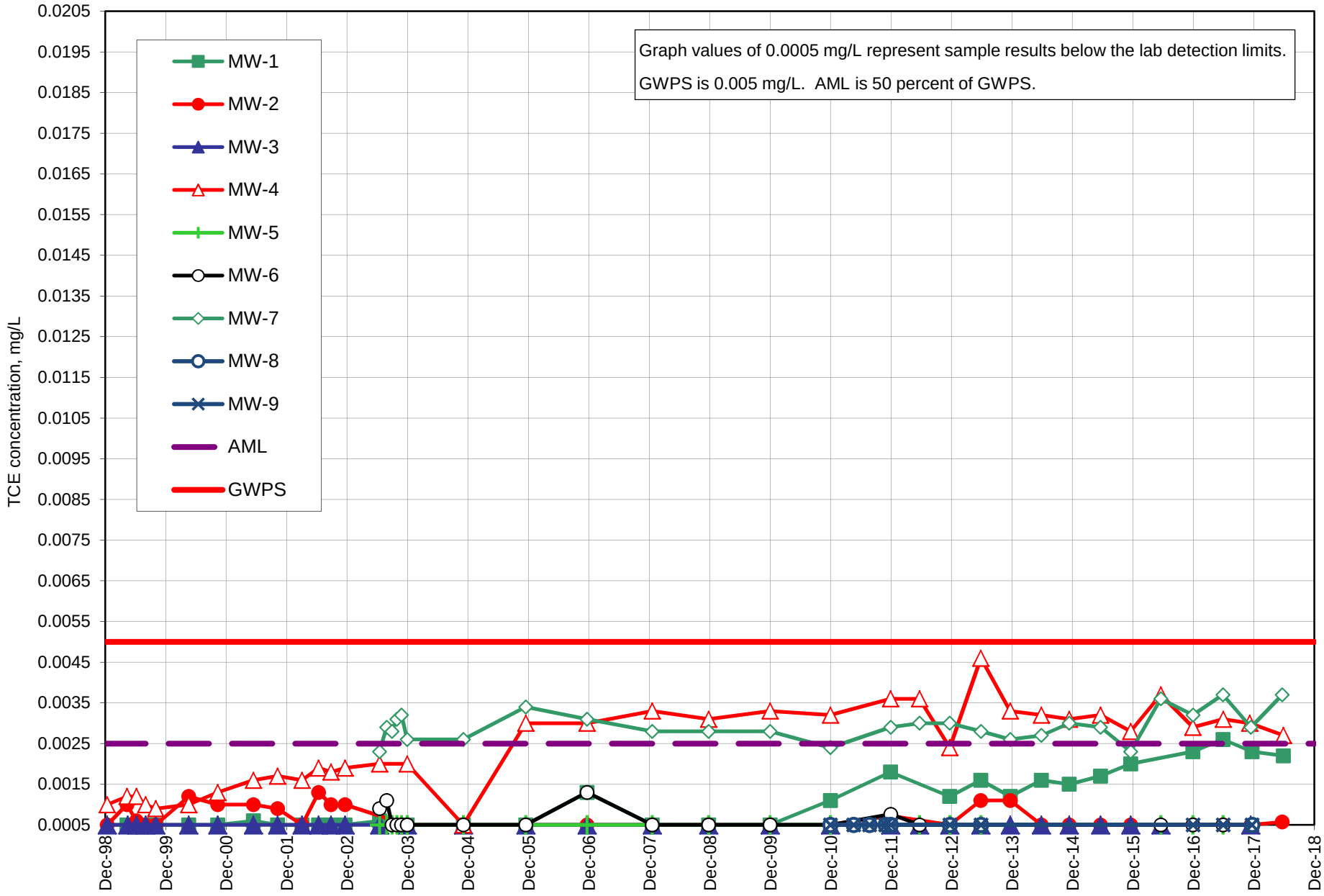

Figure 3. Graph showing trichloroethene (TCE) concentrations versus time for monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, New Mexico.

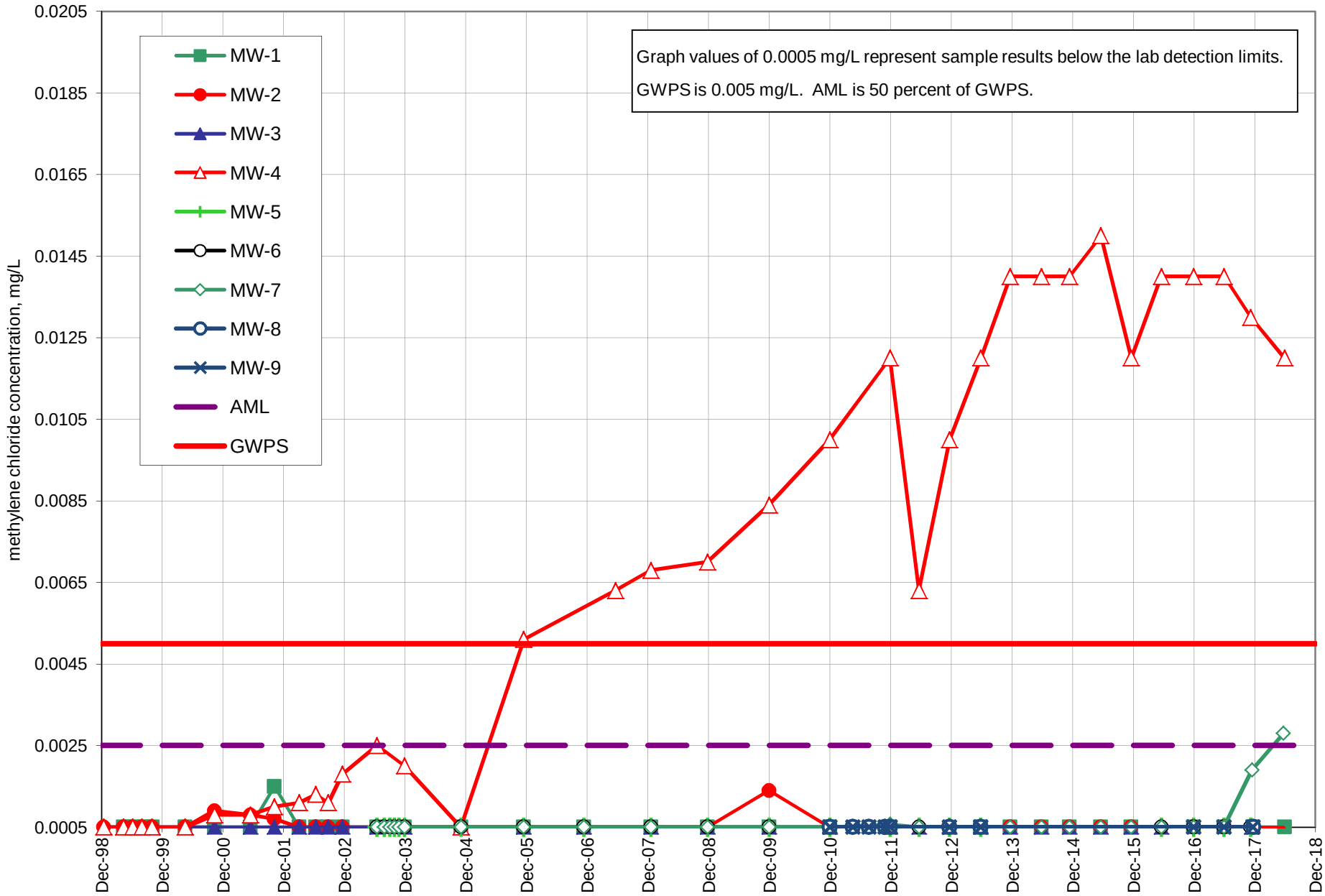

Figure 4. Graph showing methylene chloride concentrations versus time for monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, New Mexico.

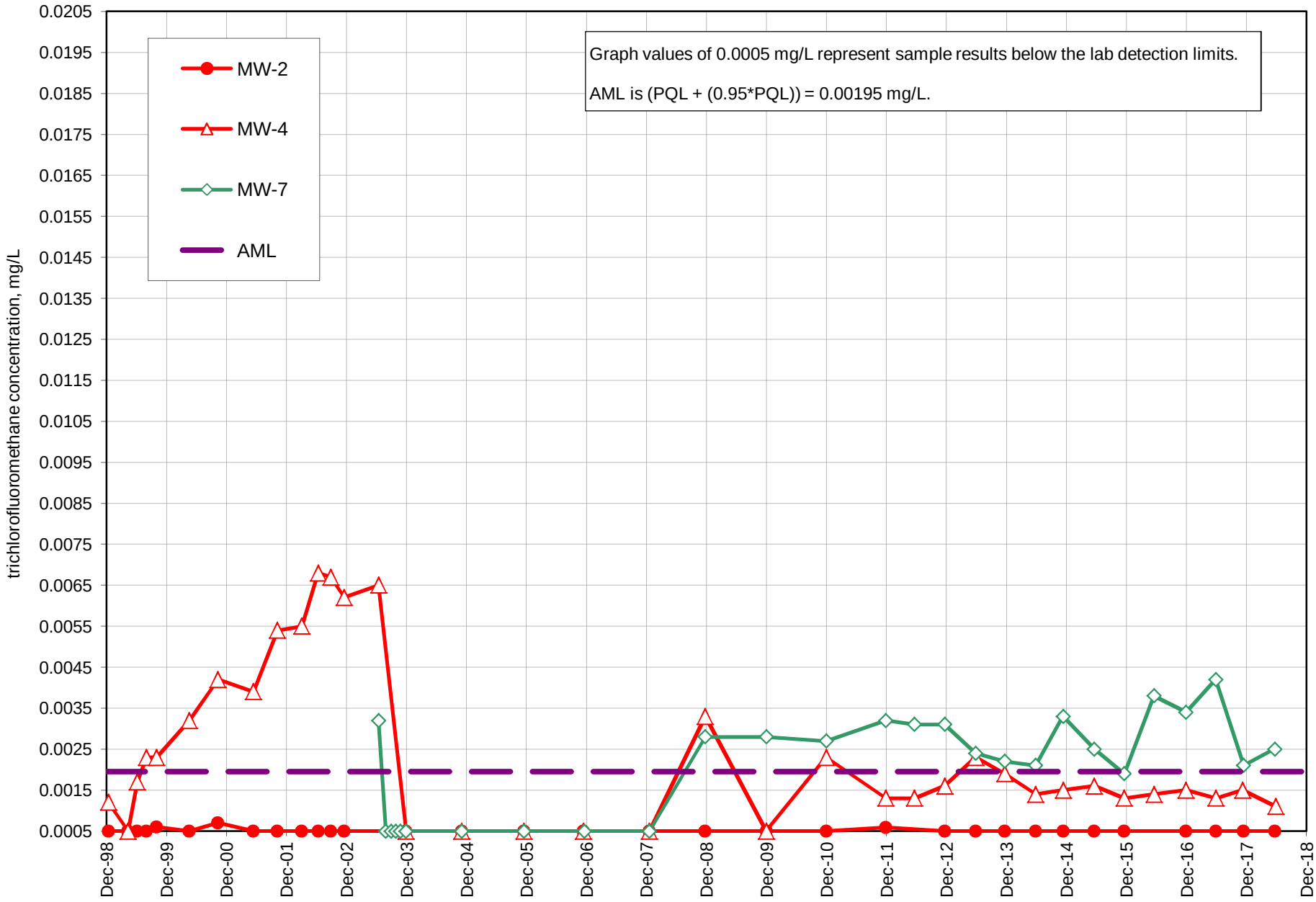

Figure 5. Graph showing trichlorofluoromethane concentrations versus time for monitor wells MW-2, MW-4 and MW-7, Las Cruces Foothills Landfill, New Mexico.

Appendix A.

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-1	01/11/99	4,262.17	394.00	3,868.17
MW-1	04/01/99	4,262.17	387.00	3,875.17
MW-1	05/06/99	4,262.17	389.40	3,872.77
MW-1	07/07/99	4,262.17	387.76	3,874.41
MW-1	09/15/99	4,262.17	388.46	3,873.71
MW-1	11/03/99	4,262.17	391.76	3,870.41
MW-1	05/18/00	4,262.17	389.63	3,872.54
MW-1	06/13/01	4,261.61	388.00	3,873.61
MW-1	10/29/01	4,261.61	392.60	3,869.01
MW-1	11/06/01	4,261.61	392.47	3,869.14
MW-1	03/25/02	4,261.61	389.60	3,872.01
MW-1	04/03/02	4,261.61	392.74	3,868.87
MW-1	07/12/02	4,261.61	392.48	3,869.13
MW-1	09/25/02	4,261.61	394.54	3,867.07
MW-1	12/18/02	4,261.61	394.75	3,866.86
MW-1	07/15/03	4,261.61	396.09	3,865.52
MW-1	12/29/03	4,261.61	396.68	3,864.93
MW-1	12/02/04	4,261.61	397.23	3,864.38
MW-1	12/14/05	4,261.61	396.44	3,865.17
MW-1	12/12/06	4,261.61	395.95	3,865.66
MW-1	01/11/08	4,261.61	393.1	3,868.51
MW-1	12/23/08	4,261.61	393.53	3,870.08
MW-1	12/29/09	4,261.61	391.43	3,870.18
MW-1	12/29/10	4,261.61	385.60	3,876.01
MW-1	12/27/11	4,261.61	387.54	3,874.07
MW-1	12/12/12	4,261.61	389.58	3,872.03
MW-1	06/18/13	4,261.61	394.20	3,867.41
MW-1	12/12/13	4,261.61	395.24	3,866.37
MW-1	06/19/14	4,261.61	392.50	3,869.11
MW-1	12/11/14	4,261.61	393.45	3,868.16
MW-1	06/18/15	4,261.61	395.45	3,866.16
MW-1	12/17/15	4,261.61	396.25	3,865.36
MW-1	06/09/16	4,261.61	395.50	3,866.11
MW-1	12/20/16	4,261.61	396.35	3,865.26
MW-1	06/21/17	4,261.61	394.54	3,867.07
MW-1	12/11/17	4,261.61	396.13	3,865.48
MW-1	06/21/18	4,261.61	395.95	3,865.66
MW-2	01/11/99	4,265.70	401.02	3,864.68
MW-2	04/01/99	4,265.70	403.00	3,862.70
MW-2	05/06/99	4,265.70	402.90	3,862.80

[1] measurement made from ground level ft amsl - feet above mean sea level
ft bmp - feet below measuring point

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (continued)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-2	07/07/99	4,265.70	413.00	3,852.70
MW-2	09/15/99	4,265.70	413.50	3,852.20
MW-2	11/03/99	4,263.70[1]	401.01	3,862.69[1]
MW-2	05/18/00	4,263.70[1]	406.50	3,857.20[1]
MW-2	11/09/00	4,263.70[1]	403.90	3,859.80[1]
MW-2	06/13/01	4,265.36	407.52	3,857.84
MW-2	10/29/01	4,265.36	410.80	3,854.56
MW-2	11/02/01	4,265.36	411.40	3,853.96
MW-2	11/06/01	4,265.36	411.66	3,853.70
MW-2	03/25/02	4,265.36	407.3	3,858.06
MW-2	04/03/02	4,265.36	409.16	3,856.20
MW-2	07/12/02	4,265.36	407.43	3,857.93
MW-2	09/25/02	4,265.36	408.82	3,856.54
MW-2	12/18/02	4,265.36	408.67	3,856.69
MW-2	07/15/03	4,265.36	407.03	3,858.33
MW-2	12/29/03	4,265.36	406.64	3,858.72
MW-2	12/02/04	4,265.36	406.60	3,858.76
MW-2	12/14/05	4,265.36	406.52	3,858.84
MW-2	12/12/06	4,265.36	407.25	3,858.11
MW-2	01/11/08	4,265.36	406.0	3,859.36
MW-2	12/23/08	4,265.36	403.65	3,861.71
MW-2	12/29/09	4,265.36	403.54	3,861.82
MW-2	12/29/10	4,265.36	398.53	3,866.83
MW-2	12/27/11	4,265.36	399.33	3,866.03
MW-2	12/12/12	4,265.36	400.84	3,864.52
MW-2	06/19/13	4,265.36	405.60	3,859.76
MW-2	12/12/13	4,265.36	406.50	3,858.86
MW-2	06/19/14	4,265.36	405.55	3,859.81
MW-2	12/11/14	4,265.36	403.25	3,862.11
MW-2	06/18/15	4,265.36	405.58	3,859.78
MW-2	12/17/15	4,265.36	407.70	3,857.66
MW-2	06/09/16	4,265.36	405.95	3,859.41
MW-2	12/20/16	4,265.36	407.28	3,858.08
MW-2	06/21/17	4,265.36	406.08	3,859.28
MW-2	12/12/17	4,265.36	407.58	3,857.78
MW-2	06/20/18	4,265.36	406.90	3,858.46
MW-3	01/11/99	4,356.52	308.50	4,048.02
MW-3	04/01/99	4,356.52	301.50	4,055.02
MW-3	05/06/99	4,356.52	306.60	4,049.92
MW-3	07/07/99	4,356.52	304.10	4,052.42
MW-3	09/15/99	4,356.52	306.80	4,049.72

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (continued)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-3	11/03/99	4,356.52	305.50	4,051.02
MW-3	05/18/00	4,356.52	300.65	4,055.87
MW-3	11/09/00	4,356.52	305.00	4,051.52
MW-3	06/13/01	4,356.06	306.90	4,049.16
MW-3	10/29/01	4,356.06	307.80	4,048.26
MW-3	11/02/01	4,356.06	307.70	4,048.36
MW-3	11/06/01	4,356.06	309.40	4,046.66
MW-3	03/25/02	4,356.06	306.30	4,049.76
MW-3	04/03/02	4,356.06	307.80	4,048.26
MW-3	07/12/02	4,356.06	307.53	4,048.53
MW-3	09/25/02	4,356.06	308.00	4,048.06
MW-3	12/18/02	4,356.06	307.87	4,048.19
MW-3	07/15/03	4,356.06	307.98	4,048.08
MW-3	12/29/03	4,356.06	307.92	4,048.14
MW-3	12/02/04	4,356.06	307.99	4,048.07
MW-3	12/14/05	4,356.06	308.17	4,047.89
MW-3	12/12/06	4,356.06	311.29	4,044.77
MW-3	01/11/08	4,356.06	309.0	4,047.06
MW-3	12/23/08	4,356.06	309.20	4,046.86
MW-3	12/29/09	4,356.06	308.60	4,047.46
MW-3	12/29/10	4,356.06	310.54	4,045.52
MW-3	05/12/11	4,356.06	308.06	4,048.00
MW-3	12/20/11	4,356.06	308.73	4,047.33
MW-3	06/12/12	4,356.06	307.21	4,048.85
MW-3	12/12/12	4,356.06	307.75	4,048.31
MW-3	06/18/13	4,356.06	308.65	4,047.41
MW-3	12/12/13	4,356.06	306.00	4,050.06
MW-3	06/19/14	4,356.06	306.40	4,049.66
MW-3	12/04/14	4,356.06	308.81	4,047.25
MW-3	06/18/15	4,356.06	309.00	4,047.06
MW-3	12/17/15	4,356.06	309.30	4,046.76
MW-3	06/09/16	4,356.06	309.80	4,046.26
MW-3	12/20/16	4,356.06	310.72	4,045.34
MW-3	08/02/17	4,356.06	312.93	4,043.13
MW-3	12/07/17	4,356.06	312.91	4,043.15
MW-3	06/27/18	4,356.06	311.35	4,044.71
MW-4	01/11/99	4,313.54	363.45	3,950.09
MW-4	04/01/99	4,313.54	366.00	3,947.54
MW-4	05/06/99	4,313.54	368.05	3,945.49
MW-4	07/07/99	4,313.54	366.18	3,947.36

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (continued)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-4	09/15/99	4,313.54	365.76	3,947.78
MW-4	11/03/99	4,313.54	365.59	3,947.95
MW-4	05/18/00	4,313.54	368.02	3,945.52
MW-4	11/09/00	4,313.54	388.56	3,924.98
MW-4	06/13/01	4,313.20	368.41	3,944.79
MW-4	10/29/01	4,313.20	369.90	3,943.30
MW-4	11/06/01	4,313.20	370.00	3,943.20
MW-4	03/25/02	4,313.20	369.00	3,944.20
MW-4	04/03/02	4,313.20	370.68	3,942.52
MW-4	07/12/02	4,313.20	371.19	3,942.01
MW-4	09/25/02	4,313.20	371.95	3,941.25
MW-4	12/18/02	4,313.20	372.40	3,940.80
MW-4	07/15/03	4,313.20	373.57	3,939.63
MW-4	12/29/03	4,313.20	374.20	3,939.00
MW-4	12/02/04	4,313.20	376.03	3,937.17
MW-4	12/14/05	4,313.20	376.86	3,936.34
MW-4	12/12/06	4,313.20	377.7	3,935.50
MW-4	01/11/08	4,313.20	378.2	3,935.00
MW-4	12/23/08	4,313.20	376.95	3,936.25
MW-4	12/29/09	4,313.20	378.35	3,934.85
MW-4	12/29/10	4,313.20	374.86	3,938.34
MW-4	12/27/11	4,313.20	374.88	3,938.32
MW-4	06/12/12	4,313.20	375.83	3,937.37
MW-4	12/12/12	4,313.20	376.08	3,937.12
MW-4	06/19/13	4,313.20	380.30	3,932.90
MW-4	12/12/13	4,313.20	381.00	3,922.20
MW-4	06/19/14	4,313.20	381.30	3,931.90
MW-4	12/04/14	4,313.20	381.27	3,931.93
MW-4	06/18/15	4,313.20	381.30	3,931.90
MW-4	12/17/15	4,313.20	381.50	3,931.70
MW-4	06/09/16	4,313.20	381.30	3,931.90
MW-4	12/20/16	4,313.20	381.34	3,931.86
MW-4	06/22/17	4,313.20	381.46	3,931.74
MW-4	12/06/17	4,313.20	381.66	3,931.54
MW-4	06/27/18	4,313.20	381.75	3,931.45
MW-5	07/15/03	4,235.55	404.98	3,830.57
MW-5	08/27/03	4,235.55	405.26	3,830.29
MW-5	09/29/03	4,235.55	404.98	3,830.57
MW-5	10/27/03	4,235.55	404.86	3,830.69
MW-5	11/25/03	4,235.55	404.71	3,830.84
MW-5	12/29/03	4,235.55	404.54	3,831.01

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (continued)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-5	12/02/04	4,235.55	404.26	3,831.29
MW-5	12/14/05	4,235.55	403.59	3,831.96
MW-5	12/12/06	4,235.55	403.06	3,832.49
MW-5	01/11/08	4,235.55	400.6	3,835.0
MW-5	12/23/08	4,235.55	397.93	3,837.62
MW-5	12/29/09	4,235.55	397.17	3,838.38
MW-5	12/29/10	4,235.55	391.47	3,844.08
MW-5	12/28/11	4,235.55	391.83	3,843.72
MW-5	06/12/12	4,235.55	392.08	3,843.47
MW-5	12/13/12	4,235.55	394.44	3,841.11
MW-5	06/19/13	4,235.55	394.40	3,841.15
MW-5	08/06/14	4,235.55	394.45	3,841.10
MW-5	12/11/14	4,235.55	398.18	3,837.37
MW-5	07/23/15	4,235.55	397.59	3,837.96
MW-5	02/12/16	4,235.55	398.46	3,837.09
MW-5	06/09/16	4,235.55	397.70	3,837.85
MW-5	12/20/16	4,235.55	398.83	3,836.72
MW-5	06/21/17	4,235.55	398.10	3,837.45
MW-5	12/06/17	4,235.55	399.35	3,836.20
MW-5	08/03/18	4,235.55	398.10	3,837.45
MW-6	07/15/03	4,258.32	426.29	3,832.03
MW-6	08/27/03	4,258.32	426.85	3,831.47
MW-6	09/29/03	4,258.32	426.85	3,831.47
MW-6	10/27/03	4,258.32	426.60	3,831.72
MW-6	11/25/03	4,258.32	426.36	3,831.96
MW-6	12/29/03	4,258.32	426.23	3,832.09
MW-6	12/02/04	4,258.32	425.80	3,832.52
MW-6	12/14/05	4,258.32	425.34	3,832.98
MW-6	12/12/06	4,258.32	424.86	3,833.46
MW-6	01/11/08	4,258.32	422.40	3,835.90
MW-6	12/23/08	4,258.32	419.65	3,838.67
MW-6	12/29/09	4,258.32	411.25	3,847.07
MW-6	12/29/10	4,258.32	413.95	3,844.37
MW-6	12/28/11	4,258.32	413.79	3,844.53
MW-6	06/12/12	4,258.32	413.25	3,845.07
MW-6	12/13/12	4,258.32	415.69	3,842.63
MW-6	06/18/13	4,258.32	420.10	3,838.22
MW-6	08/06/14	4,258.32	421.47	3,836.85
MW-6	12/11/14	4,258.32	420.80	3,837.52
MW-6	07/23/15	4,258.32	420.55	3,837.77
MW-6	02/12/16	4,258.32	421.24	3,837.08

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (continued)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-6	06/09/16	4,258.32	421.20	3,837.12
MW-6	12/21/16	4,258.32	421.72	3,836.60
MW-6	06/21/17	4,258.32	421.29	3,837.03
MW-6	12/06/17	4,258.32	421.72	3,836.60
MW-6	08/03/18	4,258.32	422.50	3,835.82
MW-7	07/15/03	4,292.86	378.29	3,914.57
MW-7	08/27/03	4,292.86	378.72	3,914.14
MW-7	09/29/03	4,292.86	378.76	3,914.10
MW-7	10/27/03	4,292.86	378.73	3,914.13
MW-7	11/25/03	4,292.86	378.70	3,914.16
MW-7	12/29/03	4,292.86	379.03	3,913.83
MW-7	12/02/04	4,292.86	380.25	3,912.61
MW-7	12/14/05	4,292.86	381.31	3,911.55
MW-7	12/12/06	4,292.86	382.04	3,910.82
MW-7	01/11/08	4,292.86	382.2	3,910.7
MW-7	12/23/08	4,292.86	380.58	3,912.28
MW-7	12/29/09	4,292.86	380.95	3,911.91
MW-7	12/29/10	4,292.86	378.28	3,914.58
MW-7	12/28/11	4,292.86	377.67	3,915.19
MW-7	06/12/12	4,292.86	378.79	3,914.07
MW-7	12/13/12	4,292.86	379.04	3,913.82
MW-7	06/19/13	4,292.86	383.40	3,909.46
MW-7	12/12/13	4,292.86	384.70	3,908.16
MW-7	06/19/14	4,292.86	384.10	3,908.76
MW-7	12/11/14	4,292.86	384.15	3,908.71
MW-7	06/18/15	4,292.86	384.10	3,908.76
MW-7	12/11/15	4,292.86	384.05	3,908.81
MW-7	06/09/16	4,292.86	384.10	3,908.76
MW-7	12/21/16	4,292.86	384.18	3,908.68
MW-7	06/21/17	4,292.86	384.17	3,908.69
MW-7	12/13/17	4,292.86	384.40	3,908.46
MW-7	06/20/18	4,292.86	384.31	3,908.55
MW-8	12/29/10	4,286.00	360.07	3,925.93
MW-8	05/18/11	4,286.00	360.32	3,925.68
MW-8	08/23/11	4,286.00	360.85	3,925.15
MW-8	11/28/11	4,286.00	361.29	3,924.71
MW-8	12/29/11	4,286.00	360.67	3,925.33
MW-8	12/13/12	4,286.00	362.95	3,923.05
MW-8	06/18/13	4,286.00	361.33	3,924.67
MW-8	08/06/14	4,286.00	359.76	3,926.24

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Summary of water-level measurements from monitor wells MW-1 through MW-9, Las Cruces Foothills Landfill, Las Cruces, New Mexico (concluded)

well	date	top of casing elevation (ft amsl)	depth to water (ft bmp)	water-level elevation (ft amsl)
MW-8	12/11/14	4,286.00	367.85	3,918.15
MW-8	07/23/15	4,286.00	367.53	3,918.47
MW-8	02/12/16	4,286.00	367.71	3,918.29
MW-8	06/09/16	4,286.00	367.50	3,918.50
MW-8	12/21/16	4,286.00	367.39	3,918.61
MW-8	08/02/17	4,286.00	367.03	3,918.97
MW-8	12/21/17	4,286.00	367.16	3,918.84
MW-8	08/03/18	4,286.00	367.76	3,918.24
MW-9	12/29/10	4,212.58	367.72	3,844.86
MW-9	05/18/11	4,212.58	367.65	3,844.93
MW-9	08/23/11	4,212.58	367.97	3,844.61
MW-9	11/28/11	4,212.58	368.38	3,844.20
MW-9	12/29/11	4,212.58	367.33	3,845.25
MW-9	12/20/12	4,212.58	369.73	3,842.85
MW-9	06/26/13	4,212.58	373.70	3,838.88
MW-9	08/06/14	4,212.58	374.03	3,838.55
MW-9	12/11/14	4,212.58	378.85	3,833.73
MW-9	07/23/15	4,212.58	369.75	3,842.83
MW-9	02/12/16	4,212.58	367.76	3,844.82
MW-9	06/09/16	4,212.58	374.70	3,837.88
MW-9	12/21/16	4,212.58	374.85	3,837.73
MW-9	06/22/17	4,212.58	374.68	3,837.90
MW-9	12/07/17	4,212.58	375.34	3,837.24
MW-9	08/03/18	4,212.58	374.99	3,837.59

ft bmp - feet below measuring point ft amsl - feet above mean sea level

Appendix B.

Baseline and background monitoring data for monitor wells MW-1 through MW-9
Las Cruces Foothills Landfill, Las Cruces, New Mexico

MW-1

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1											
date				3/1/90	5/19/92	7/20/92	12/7/93	6/7/96	5/11/99	7/7/99	9/15/99	11/3/99	5/18/00	11/9/00	6/13/01
Field Parameters															
water level elevation	-	ft amsl	-	x	x	x	x	x	3872.77	3874.41	3873.71	3870.41	3872.54	x	3873.61
conductivity	-	µS/cm	-	328	310	x	300	x	360	386	446	451	376	378	408
pH	-	pH units	6-9	7.67	7.57	7.36	7.92	x	7.91	7.12	6.64	6.55	7.56	7.90	6.74
temperature	-	deg F	-	130.0	119.0	128.0	108.0	113.0	117.0	124.0	113.8	116.5	118.6	116.1	116.2
Major Ions															
calcium	7440-70-2	mg/L	-	23.1	23.3	x	24.7	x	35.9	32.5	33.6	36.3	34.6	34	48.7
chloride	16887-00-6	mg/L	250	10.8	14.7	x	16.1	x	18.5	15.9	15.6	15.8	15.6	17.3	9.6
fluoride[1]	16984-48-8	mg/L	1.6	0.87	0.58	x	0.62	x	0.7	0.67	0.66	0.63	0.65	0.65	0.58
magnesium	7439-95-4	mg/L	-	5.1	4.9	x	5.7	x	5.9	6	6.6	7.1	7.1	7.0	5.8
potassium	7440-09-7	mg/L	-	1.5	1.4	x	1.6	x	1.5	2.8	2.3	2.1	2.8	2.5	1.6
sodium	82115-62-6	mg/L	-	42.7	26.8	x	31.9	x	30.2	30.2	28.5	30.4	32.6	31	29.8
sulfate	18785-72-3	mg/L	600	37	25.2	x	34.6	x	57	49	45	41	40	46	32
alkalinity	-	mg/L	-	127	95	x	96.5	x	100.5	101.4	106.4	114.7	108.5	108.0	146.4
bicarbonate alkalinity	71-52-3	mg/L	-	155	115.9	x	117.8	x	100.5	123.8	129.9	140	132.4	131.8	178.7
carbonate alkalinity	3812-32-6	mg/L	-	<1.0	<1.0	x	<1.0	x	<1.0	<1.0	<1.0	<1.0	<1.0	0.0	0.0
total dissolved solids	-	mg/L	1,000	207	170	x	213	x	190	252	242	234	241	186	236
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	x	1.08	x	0.27	x	0.8	0.49	0.36	0.61	0.35	0.25	<0.01
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	1.1	x	0.8	x	1.4	0.9	0.7	0.2	0.5	0.3	0.3
nitrate as N	14797-55-8	mg/L	10	x	1.21	x	3.22	x	3.6	4.2	4.8	4.8	4.6	4.9	1.72
nitrite	14797-65-0	mg/L	-	<0.01	1.21	x	3.22	x	3.6	0.23	<0.05	<0.05	0.12	<0.05	<0.05
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	x	0.28	x	0.025	x	2.1	0.34	<0.05	<0.05	<0.05	0.1	<0.05
antimony[1]	7440-36-0	mg/L	0.006	x	x	x	x	x	<0.0004	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
arsenic[1]	7440-38-2	mg/L	0.01	0.0005	0.001	x	0.001	x	0.0135	0.004	0.000545	0.0009	0.0008	0.0017	0.0014
barium[1]	7440-39-3	mg/L	1.0	0.12	0.17	x	0.09	x	1.132	0.1644	0.0822	0.0651	0.0712	0.104	0.0919
beryllium[1]	7440-41-7	mg/L	0.004	x	x	x	x	x	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
boron	7440-42-8	mg/L	0.75	x	0.1	x	0.05	x	0.05	0.11	0.04	0.05	<0.01	0.05	0.01
cadmium[1]	7440-43-9	mg/L	0.005	<0.005	<0.005	x	<0.005	x	0.00013	0.0002	<0.0001	<0.0001	<0.0001	0.0003	<0.0001
chromium[1]	7440-47-3	mg/L	0.05	0.01	0.01	x	0.005	x	0.0096	0.0039	<0.0001	<0.0001	<0.0001	0.0011	0.0022
cobalt[1]	7440-48-4	mg/L	0.05	x	<0.01	x	<0.01	x	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01
copper[1]	7440-50-8	mg/L	1.0	x	0.03	x	0.0015	x	1.692	0.1095	0.0015	<0.01	<0.04	0.0335	0.0067
iron	7439-89-6	mg/L	1.0	8.85	17.86	x	4.86	x	459.4	46.24	0.025	0.06	<0.01	6.58	3.23
lead[1]	7439-92-1	mg/L	0.05	0.012	0.021	x	0.006	x	0.292	0.0328	0.0002	0.0002	<0.0001	0.0071	0.0031
manganese	7439-96-5	mg/L	0.2	0.25	0.13	x	0.05	x	3.62	0.41	0.05	0.07	0.049	0.203	<0.005
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.0002	x	<0.0002	x	<0.0002	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
molybdenum	7439-98-7	mg/L	1.0	x	<0.05	x	<0.05	x	<0.05	<0.05	<0.05	<0.05	0.003	0.003	0.003
nickel[1]	7440-02-0	mg/L	0.2	x	<0.05	x	<0.05	x	0.0705	0.01422	0.0026	0.0019	0.00151	0.00395	0.00471
selenium[1]	7782-49-2	mg/L	0.05	<0.001	0.001	x	0.001	x	0.0024	<0.001	0.0013	<0.001	0.0026	0.0014	0.0026
silver[1]	7440-22-4	mg/L	0.05	<0.02	<0.02	x	<0.02	x	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
thallium[1]	7440-28-0	mg/L	0.002	x	x	x	x	x	0.00026	0.00006	0.00007	<0.00003	<0.00003	<0.00003	<0.00003
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	0.025	x	0.0086	0.00209	0.00142	0.00085	0.00074	<0.02	0.00046
vanadium[1]	7440-62-2	mg/L	-	x	x	x	x	x	<0.05	0.08	<0.05	<0.05	x	<0.05	<0.05
zinc[1]	7440-66-6	mg/L	10.0	x	0.86	x	0.14	x	12.92	1.71	0.01	0.005	x	0.21	<0.01
total organic carbon	-	mg/L	-	x	x	x	0.5	x	0.65	0.6	1.5	0.25	0.9	0.9	4.5
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	<0.02	<0.02	x	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	x	x	0.03	x	x	0.02	<0.02	<0.003	<0.003	<0.003	<0.003	0.015
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	<0.0005	<0.0005	x	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	x	x	x	x	x	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	x	x	<0.005	x	x	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	x	x	<0.002	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	x	x	x	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Acetone[1]	67-64-1	mg/L	-	x	x	<0.005	x	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	x	x	x	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Benzene[1]	71-43-2	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0005	<0.0005
Carbon Disulfide[1]	75-15-00	mg/L	-	x	x	x	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene[1]	108-90-7	mg/L	0.1	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chloroethane[1]	75-03-3	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	x	x	x	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	x	x	<0.001	x	x	<0.001	0.0016	0.0018	0.00146	0.0015	0.0018	0.0021
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	x	x	x	<0.0005	x	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1											
date				3/1/90	5/19/92	7/20/92	12/7/93	6/7/96	5/11/99	7/7/99	9/15/99	11/3/99	5/18/00	11/9/00	6/13/01
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	x	x	x	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	x	x	<0.005	x	x	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Styrene[1]	100-42-5	mg/L	0.1	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	<0.005	x	x	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	x	x	0.0034	x	x	0.0051	0.0056	0.0025	0.003	0.0049	0.0066	0.0057
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	<0.005	x	x	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene[1]	108-88-3	mg/L	0.75	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Xylenes (m&p and o)[1]	-	mg/L	0.62	x	x	<0.001	x	x	<0.001	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	x	x	<0.002	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethene (TCE)	79-01-6	mg/L	0.005	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006
Trichlorofluoromethane[1]	75-69-4	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Vinyl acetate[1]	108-05-4	mg/L	-	x	x	<0.001	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Vinyl Chloride[1]	75-01-4	mg/L	0.001	x	x	x	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bromoform[1]	75-25-2	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Chloroform[1]	67-66-3	mg/L	0.1	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Dibromochloromethane[1]	124-48-1	mg/L	-	x	x	<0.001	x	x	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	x	x	x	<0.001	x	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	<0.001	<0.001	x	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	0.0009
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1											
date				3/1/90	5/19/92	7/20/92	12/7/93	6/7/96	5/11/99	7/7/99	9/15/99	11/3/99	5/18/00	11/9/00	6/13/01
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	<0.01	<0.01	x	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	<0.01	<0.01	x	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics							x								
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	108-39-4/106-44-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	x	x
Radium 226 and 228	-	pCi/L	5			6.16	2.7	0.33	16.9	3.52	1.02	1.53	2.08	0.7	0.38
Ra-226, total	13982-63-3	pCi/L	-	x	x	3.76	1.2	0.33	7.1	0.92	0.26	0.45	1.04	0.27	0.16
Ra-228[1], total	15262-20-1	pCi/L	-	x	x	2.4	1.5	0.00	9.8	2.6	0.76	1.08	1.04	0.43	0.22
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concentrations.

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of antimony in the ground water sampled.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1										
date				11/6/01	4/3/02	7/12/02	9/25/02	12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08
Field Parameters														
water level elevation	-	ft amsl	-	3869.14	3868.87	3869.13	3867.07	3866.86	3,865.52	3,864.93	3,864.38	3,865.17	3,865.66	3,868.51
conductivity	-	µS/cm	-	349	360	358	387	394	380	360	306	325	300	310
pH	-	pH units	6-9	7.57	7.19	7.28	7.20	7.35	8.05	8.10	7.93	8.10	8.20	8.21
temperature	-	deg F	-	87.8	99.1	110.0	106.8	105.5	109.2	102.2	96.8	90.7	95.2	99.0
Major Ions														
calcium	7440-70-2	mg/L	-	35.3	x	31	30	30	26.1	27	23	25	21	22
chloride	16887-00-6	mg/L	250	15.1	x	17	17	19	16	16	15	15	16	17
fluoride[1]	16984-48-8	mg/L	1.6	0.64	x	0.58	0.72	0.66	0.5	0.6	x	x	x	x
magnesium	7439-95-4	mg/L	-	7.6	x	5.9	5.7	5.7	5.54	5.4	5.5	6	5.6	5.8
potassium	7440-09-7	mg/L	-	3.1	x	2.3	2.2	2.2	2.4	2	2.2	2.8	1.7	2.4
sodium	82115-62-6	mg/L	-	23	x	31	31	33	30.8	30	30	35	32	32
sulfate	18785-72-3	mg/L	600	41	x	50	33	66	43	42	40	38	40	39
alkalinity	-	mg/L	-	113.0	x	97	92	110	97	100	84	86	80	77
bicarbonate alkalinity	71-52-3	mg/L	-	137.9	x	97	92	110	96	100	84	86	80	77
carbonate alkalinity	3812-32-6	mg/L	-	0.0	x	<1.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0
total dissolved solids	-	mg/L	1,000	218	x	220	250	230	200	190	190	230	200	190
Nitrogen Species														
ammonia as N	1331-21-6	mg/L	-	<0.01	x	x	0.061	<0.05	0.7	<0.5	0.56	0.7	0.7	0.56
Kjeldahl nitrogen	7727-37-9	mg/L	-	0.2	x	0.09	0.52	0.52	2	<1.0	x	x	1.1	x
nitrate as N	14797-55-8	mg/L	10	<0.05	x	2.3	0.74	1.2	1.1	<1.0	0.4	<1.0	<1.0	1.4
nitrite	14797-65-0	mg/L	-	<0.05	x	<0.10	2	<0.10	<0.1	<1.0	x	x	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Metals														
aluminum	7429-90-5	mg/L	5.0	0.18	x	<0.10	<0.03	<0.03	<0.03	<3.0	<3.0	x	x	x
antimony[1]	7440-36-0	mg/L	0.006	<0.0004	<0.05	<0.050	0.006 (")	<0.004	<0.0004	<0.003	x	x	x	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0028	<0.005	<0.0050	<0.0050	<0.004	0.0013	<0.01	x	x	x	x
barium[1]	7440-39-3	mg/L	1.0	0.0233	0.091	0.078	0.069	0.07	0.0928	0.07	x	x	x	x
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.003	<0.0030	<0.001	<0.001	<0.0002	<0.002	x	x	x	x
boron	7440-42-8	mg/L	0.75	<0.01	x	<0.010	0.027	0.028	<0.1	<0.5	x	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	0.0005	<0.005	<0.0010	<0.001	<0.001	<0.0001	<0.002	x	x	x	x
chromium[1]	7440-47-3	mg/L	0.05	0.0107	<0.005	<0.0050	<0.002	<0.002	0.0027	<0.01	x	x	x	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.01	<0.01	<0.010	<0.001	<0.001	0.00008	<0.03	x	x	x	x
copper[1]	7440-50-8	mg/L	1.0	0.0523	<0.01	<0.010	0.001	<0.001	0.002	<0.06	x	x	x	x
iron	7439-89-6	mg/L	1.0	0.39	x	0.55	0.3	0.26	0.42	0.24	0.16	0.13	0.24	0.14
lead[1]	7439-92-1	mg/L	0.05	0.015	<0.005	<0.0050	<0.002	<0.002	0.0005	<0.01	x	x	x	x
manganese	7439-96-5	mg/L	0.2	<0.005	x	0.028	0.02	0.017	0.02	<0.03	<0.03	<0.03	<0.03	<0.03
mercury[1]	7439-97-6	mg/L	0.002	0.0006	<0.0002	<0.00020	<0.07	<0.20	<0.0002	<0.001	x	x	x	x
molybdenum	7439-98-7	mg/L	1.0	0.0045	x	<0.010	0.002	0.0030	<0.010	<0.75	x	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	0.04482	<0.005	<0.0050	<0.002	0.007	0.00104	<0.05	x	x	x	x
selenium[1]	7782-49-2	mg/L	0.05	0.0013	<0.01	<0.010	0.003	<0.003	0.002	<0.005	x	x	x	x
silver[1]	7440-22-4	mg/L	0.05	<0.02	<0.005	<0.0050	<0.002	<0.002	<0.010	<0.01	x	x	x	x
thallium[1]	7440-28-0	mg/L	0.002	0.00049	<0.01	<0.010	<0.003	<0.003	0.00004	<0.001	x	x	x	x
tin[1]	7440-31-5	mg/L	-	x	<0.01	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.00327	x	<0.02	0.00056	0.000561	<0.002	<2.5	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.01	<0.010	0.0020	0.0010	<0.050	<0.08	x	x	x	x
zinc[1]	7440-66-6	mg/L	10.0	1.81	<0.02	<0.020	<0.008	<0.008	<0.020	<0.05	x	x	x	x
total organic carbon	-	mg/L	-	2.8	x	2.4	2.1	1.3	1	0.56	0.7	0.8	<1.0	<1.0
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	<1.0	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.02	0.0094	<0.0050	<0.0050	<0.005	<0.01	<0.1	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.035	(^)	<0.0030	0.012	0.0034	<0.005	<0.003	<0.003	<0.003	<0.003	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	<0.0005	(^^)	(^^)	(^^)	(^^)	(^^)	(^^)	x	x	x	x
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	<0.001	<0.001	<0.001	x	<0.0005	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0005	<0.00001	<0.001	<0.00001	<0.00001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.0005	<0.02	<0.001	x	<0.001	<0.0005	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	x	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0002	<0.001	<0.0002	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	x	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.002	<0.01	<0.01	<0.01	<0.01	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.002	<0.01	<0.01	<0.01	<0.001	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.002	<0.01	<0.01	<0.01	<0.001	<0.025	<0.015	<0.015	<0.015	<0.015	<0.015
Acetone[1]	67-64-1	mg/L	-	0.0086	<0.01	<0.01	<0.01	<0.01	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1
Acrolein[1]	107-02-8	mg/L	-	x	<0.005	<0.005	<0.005	x	<0.025	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.002	<0.005	<0.005	<0.005	<0.005	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2
Benzene[1]	71-43-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.001	<0.0001	<0.001	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.002	<0.001	<0.001	<0.001	<0.001	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	75-03-3	mg/L	-	<0.0005	<0.002	<0.001	<0.0001	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.0005	<0.001	<0.001	<0.0001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0019	0.0028	0.0017	0.0028	0.0025	0.0027	x	x	x	x	<0.005
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.0005	<0.00001	<0.01	<0.00001	<0.00001	<0.00001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1										
date				11/6/01	4/3/02	7/12/02	9/25/02	12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.04	<0.04	<0.04	<0.04	<0.04
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	0.0015	<0.001	<0.001	<0.0001	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.0005	x	<0.001	x	<0.001	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.002	x	<0.001	x	<0.001	<0.005	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.0005	x	<0.001	x	<0.001	<0.0005	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0066	0.0073	0.0034	0.0073	0.0077	0.0073	0.0071	0.0066	0.0073	0.0064	0.0074
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.002	x	x	x	x	<0.010	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Xylenes (m&p and o)[1]	-	mg/L	0.62	<0.0005	<0.001	<0.001	<0.002	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.002	<0.002	<0.002	<0.002
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.002	<0.001	<0.001	<0.001	<0.001	<0.010	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	0.0006	<0.001	<0.001	<0.001	0.0036	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.0005	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl acetate[1]	108-05-4	mg/L	-	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0005	<0.0004	<0.001	<0.0004	<0.001	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)														
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform[1]	75-25-2	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015
Chloroform[1]	67-66-3	mg/L	0.1	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005
Semi Volatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	<0.0001	<0.0001	<0.005	<0.01	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	<0.0001	<0.0001	<0.010	<0.01	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	<0.0001	x	<0.0001	<0.0001	<0.0001	<0.005	<0.0001	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.0005	<0.02	<0.0001	<0.0001	<0.0001	<0.0005	<0.01	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1										
date				11/6/01	4/3/02	7/12/02	9/25/02	12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.0001	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.00025	<0.02	<0.0001	<0.0001	<0.0001	<0.005	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics														
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	108-39-4/106-44-5	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	<0.02	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	<0.00078	x	x	x	x	x	x	x	x	x
Radium 226 and 228	-	pCi/L	5	0.69		1.33	0.247	0.564	0.8	<2.5				
Ra-226, total	13982-63-3	pCi/L	-	0.15	x	-0.17	0.0	0.564	0.6	<2.5	x	x	x	x
Ra-228[1], total	15262-20-1	pCi/L	-	0.54	x	1.5	0.247	0.0	0.2	<2.5	x	x	x	x
Chlorinated Pesticides														
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	<0.00005	<0.000050	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	<0.003	<0.000050	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001											
Arochlor-1016	12674-11-2	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	<0.0005	<0.00050	<0.0005	<0.0005	<0.0025	<0.0005	x	x	x	x
Other Pesticides and Herbicides[1]														
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	<0.003	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	<0.002	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concen

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of an

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1									
date				12/23/08	12/29/09	12/29/10	12/27/11	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15
Field Parameters													
water level elevation	-	ft amsl	-	3,870.08	3,870.18	3,876.01	3,874.07	3,872.03	3,867.41	3,866.37	3,869.11	3,868.16	3,866.16
conductivity	-	µS/cm	-	280	357	390	457	380	390	384	400	403	398
pH	-	pH units	6-9	8.26	7.34	7.93	7.81	6.83	7.02	7.20	7.32	7.42	7.57
temperature	-	deg F	-	87.8	92.7	102.6	104.7	72.5	112.6	105.8	105.1	107.4	103.8
Major Ions													
calcium	7440-70-2	mg/L	-	17	18	26	27	26	25	26	28	28	31
chloride	16887-00-6	mg/L	250	16	18	46	59	40	34	34	46	46	55
fluoride[1]	16984-48-8	mg/L	1.6	0.54	x	0.52	x	x	x	x	x	0.45	x
magnesium	7439-95-4	mg/L	-	4.8	5.4	7.2	7.5	6.7	6.1	6.1	6.8	6.4	7.1
potassium	7440-09-7	mg/L	-	2	2.2	2.6	2.8	2.6	2.7	2.8	2.4	2.7	2.5
sodium	82115-62-6	mg/L	-	29	32	36	37	36	36	34	36	34	38
sulfate	18785-72-3	mg/L	600	37	41	34	30	33	35	36	33	32	33
alkalinity	-	mg/L	-	73	74	69	73	78	84	84	83	86	78.48
bicarbonate alkalinity	71-52-3	mg/L	-	73	74	69	73	78	84	84	83	86	78.48
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	-	mg/L	1,000	190	189	237	238	233	231	233	248	232	252
Nitrogen Species													
ammonia as N	1331-21-6	mg/L	-	<0.50	<1.0	<1.0	0.56	0.56	<1.0	<1.0	<1.0	<1.0	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1.0	x	x	x	x	x	x	x	<1.0	x
nitrate as N	14797-55-8	mg/L	10	0.14	<0.1	<0.1	0.03	0.029	<0.10	0.14	0.10	<0.1	<0.1
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	<1.0	x	x	x	x	x	x	x	<1.0	x
Metals													
aluminum	7429-90-5	mg/L	5.0	<0.02	x	<0.02	x	x	x	x	x	<0.02	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	<0.006	<0.002	<0.001	<0.0025	<0.001	0.0013	<0.001	<0.001	0.0011	<0.001
barium[1]	7440-39-3	mg/L	1.0	0.073	0.092	0.13	0.13	0.11	0.12	0.11	0.12	0.12	0.12
beryllium[1]	7440-41-7	mg/L	0.004	<0.003	x	<0.001	0.00053	<0.002	<0.002	<0.002	<0.003	<0.002	<0.003
boron	7440-42-8	mg/L	0.75	<0.04	x	<0.04	x	x	x	x	x	<0.04	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.00015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	0.00082	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	0.00061	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	0.0014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
iron	7439-89-6	mg/L	1.0	0.14	0.23	0.11	0.84	0.14	0.12	0.12	0.11	0.10	0.17
lead[1]	7439-92-1	mg/L	0.05	<0.005	<0.005	<0.005	0.0024	0.0018	<0.001	<0.001	<0.005	<0.001	<0.005
manganese	7439-96-5	mg/L	0.2	0.004	0.0042	0.017	0.0086	0.0059	0.0061	0.0077	0.0082	0.0093	0.0081
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	x	<0.0002	x	x	x	x	x	<0.0002	x
molybdenum	7439-98-7	mg/L	1.0	<0.008	x	x	x	x	x	x	x	<0.008	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	0.0007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
selenium[1]	7782-49-2	mg/L	0.05	0.001	<0.001	<0.001	<0.0025	<0.001	0.0033	0.0014	0.0017	<0.01	<0.005
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005
tin[1]	7440-31-5	mg/L	-	<0.1	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	<0.001	x	x	x	x	x	x	x	<0.001	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	0.0026	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
zinc[1]	7440-66-6	mg/L	10.0	<0.02	<0.02	<0.02	0.0071	<0.01	<0.01	<0.01	<0.02	<0.01	<0.02
total organic carbon	-	mg/L	-	<1.0	1.1	<1.0	3.0	1.9	2.8	3.0	1.7	1.0	<1.0
phosphate	14265-44-2	mg/L	-	<0.50	x	<0.5	x	x	x	x	x	<0.50	x
sulfide[1]	18496-25-8	mg/L	-	<1	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.005	x	x	x	x	x	x	x	<0.01	x
perchlorate[1]	14797-73-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	0.0023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	x	x	x	x	x	x	x	(^^)	x
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.01	<0.001	x	x	x	x	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.015	<0.001	<0.001	0.00039	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.015	x	x	x	x	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	<0.1	x	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	(#)	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.005	<0.001	0.0018	0.003	0.0027	0.0025	0.0024	0.0030	0.0029	0.0035
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0024	0.0028	0.0030	0.0031	0.0033	0.0030	0.0025	0.0024	0.0029	0.0033
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.005	<0.001	<0.001	0.00014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.05	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1									
date				12/23/08	12/29/09	12/29/10	12/27/11	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00038	<0.001	<0.001	<0.001	<0.0025	<0.0025
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.06	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.001	x	x	x	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0077	0.009	0.012	0.014	0.013	0.013	0.011	0.012	0.012	0.014
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.005	<0.001	<0.001	0.00023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes (m&p and o)[1]	-	mg/L	0.62	<0.005	<0.002	<0.002	0.00034	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.002	<0.001	<0.001	0.00026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	0.0011	0.0018	0.0012	0.0016	0.0012	0.0016	0.0015	0.0017
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.01	<0.001	<0.001	0.00084	0.00073	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	<0.05	0.026	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0005	<0.0005	<0.0004
Trihalomethanes (THM)													
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	-	mg/L	-	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.002	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	<0.0002	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.002	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	<0.00005	x	x	x	x	x	x	x	<0.00007	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.001	x	x	x	x	x	x	x	<0.002	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-1									
date				12/23/08	12/29/09	12/29/10	12/27/11	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics													
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	108-39-4/106-44-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.001	x	x	x	x	x	x	x	x	x
Radium 226 and 228	-	pCi/L	5	-0.47								0.600	
Ra-226, total	13982-63-3	pCi/L	-	-0.07	x	x	x	x	x	x	x	0.532	x
Ra-228[1], total	15262-20-1	pCi/L	-	-0.4	x	x	x	x	x	x	x	0.0681	x
Chlorinated Pesticides													
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	<0.0002	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.00004	x	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001										
Arochlor-1016	12674-11-2	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1221	11104-28-2	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1232	11141-16-5	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1242	53469-21-9	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1248	12672-29-6	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1254	11097-69-1	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Arochlor-1260	11096-82-5	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.00025	x
Other Pesticides and Herbicides[1]													
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	<0.000768	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	<0.00005	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concen

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of an

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1									baseline	standard
constituent	**CAS Number**	**unit**	**GWPS**						**average**	**deviation**
date				**12/17/15**	**12/27/16**	**6/27/17**	**12/19/17**	**6/27/18**	**5/11/99 to 5/18/00**	**5/11/99 to 5/18/00**
Field Parameters										
water level elevation	-	ft amsl	-	3,865.36	3,865.26	3,867.07	3,865.48	3,865.66	3872.77	1.52
conductivity	-	µS/cm	-	439	453	478	475	463	403.80	41.88
pH	-	pH units	6-9	7.78	7.80	8.07	7.90	7.96	7.16	0.58
temperature	-	deg F	-	104.4	104.7	109.4	99.1	108.50	117.98	3.78
Major Ions										
calcium	7440-70-2	mg/L	-	31	33	36	31	30	34.58	1.58
chloride	16887-00-6	mg/L	250	61	60	66	62	57	16.28	1.25
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	x	x	0.66	0.03
magnesium	7439-95-4	mg/L	-	7.2	7.4	8.2	7.6	7.6	6.54	0.58
potassium	7440-09-7	mg/L	-	2.6	2.7	2.9	2.8	3.0	2.30	0.54
sodium	82115-62-6	mg/L	-	38	38	42	40	43	30.38	1.46
sulfate	18785-72-3	mg/L	600	31	29	30	32	30	46.40	6.91
alkalinity	-	mg/L	-	79.8	79.24	72.28	70.24	72.88	106.30	5.77
bicarbonate alkalinity	71-52-3	mg/L	-	79.8	79.24	72.28	70.24	72.88	125.32	15.04
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	x
total dissolved solids	-	mg/L	1,000	273	280	268	270	273	231.80	24.23
Nitrogen Species										
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	0.52	0.19
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	x	x	0.74	0.45
nitrate as N	14797-55-8	mg/L	10	<0.1	0.11	0.96	0.81	2.80	4.40	0.51
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	1.32	1.98
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x
Metals										
aluminum	7429-90-5	mg/L	5.0	x	x	x	x	x	1.22	1.24
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	0.00	x
arsenic[1]	7440-38-2	mg/L	0.01	<0.005	<0.005	<0.001	<0.001	<0.001	0.00	0.01
barium[1]	7440-39-3	mg/L	1.0	0.12	0.12	0.13	0.12	0.11	0.30	0.47
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0002	x
boron	7440-42-8	mg/L	0.75	x	x	x	x	x	0.06	0.03
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	0.0002	0.0000
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	0.0068	0.0040
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	0.1	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	0.0011	<0.006	0.60	0.95
iron	7439-89-6	mg/L	1.0	0.15	0.22	0.14	0.21	0.078	126.43	223.04
lead[1]	7439-92-1	mg/L	0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.08	0.14
manganese	7439-96-5	mg/L	0.2	0.0074	0.010	0.0086	0.044	0.0084	0.84	1.56
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	x	x	0.00	0.00
molybdenum	7439-98-7	mg/L	1.0	x	x	x	x	x	0.00	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03
selenium[1]	7782-49-2	mg/L	0.05	<0.005	<0.005	0.0020	0.0011	0.0017	0.00	0.00
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	0.0054	<0.005	<0.02	x
thallium[1]	7440-28-0	mg/L	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00	0.00
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	x	x	0.003	0.003
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	x
zinc[1]	7440-66-6	mg/L	10.0	<0.01	<0.01	<0.01	<0.01	<0.01	3.66	6.22
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	0.78	0.46
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.02	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	x	x	<0.0005	x
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.00002	<0.00002	<0.000019	<0.000094	<0.000019	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	<0.0005	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	x	<0.0005	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	x	<0.0005	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	x	<0.0005	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	x	<0.0005	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	<0.0005	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	<0.0005	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0005	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0005	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	0.0041	0.0055	0.0056	0.0052	0.0047	<0.0005	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0025	0.0036	0.0037	0.0021	0.0018	0.0015	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.0000095	<0.0000094	<0.0000095	<0.0001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	<0.0005	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	<0.0005	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1									baseline	standard
constituent	**CAS Number**	**unit**	**GWPS**						**average**	**deviation**
date				**12/17/15**	**12/27/16**	**6/27/17**	**12/19/17**	**6/27/18**	**5/11/99 to 5/18/00**	**5/11/99 to 5/18/00**
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0005	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	<0.0005	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	<0.0005	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	<0.0005	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	<0.002	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	<0.0005	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.015	0.015	0.015	0.012	0.011	0.0042	0.0014
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	<0.002	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Total Xylenes (m&p and o)[1]	-	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0005	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0020	0.0023	0.0026	0.0023	0.0022	<0.0005	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	0.0012	0.0011	0.0011	0.0011	<0.001	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0005	x
Trihalomethanes (THM)										
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	x
Semi Volatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x
1-Chloronaphthalene	-	mg/L	-	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	x	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	x	x	<0.0005	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-1

Las Cruces Foothills Landfill monitoring well MW-1									baseline	standard
constituent	**CAS Number**	**unit**	**GWPS**						**average**	**deviation**
date				**12/17/15**	**12/27/16**	**6/27/17**	**12/19/17**	**6/27/18**	**5/11/99 to**	**5/11/99 to**
									5/18/00	**5/18/00**
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	<0.0001	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	<0.00025	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics										
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	108-39-4/106-44-5	mg/L	-	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x
Radium 226 and 228	-	pCi/L	5						5.01	6.71
Ra-226, total	13982-63-3	pCi/L	-	x	x	x	x	x	1.95	2.89
Ra-228[1], total	15262-20-1	pCi/L	-	x	x	x	x	x	3.06	3.84
Chlorinated Pesticides										
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001							
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	x	x
Other Pesticides and Herbicides[1]										
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concen

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of an

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-2

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-2										
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02
Field Parameters														
water level elevation	NA	ft amsl	-	3864.68	3862.80	3852.70	3852.20	3862.69	3857.2	3859.8	3857.84	3853.7	3856.2	3857.93
conductivity	NA	µS/cm	-	398	345	381	431	392	366	364	364	358	375	363
pH	NA	pH units	6-9	7.78	7.81	7.50	6.87	6.82	7.02	7.25	7.79	7.13	6.97	6.58
temperature	NA	deg F	-	109	108	107	105.0	109.0	108.7	101.5	104.5	81.0	101.7	107.0
Major Ions														
calcium	7440-70-2	mg/L	-	38.4	35.1	40.5	37.5	36.2	40.4	38.0	33.8	41.8	x	37
chloride	16887-00-6	mg/L	250	19.5	10.1	9	9	9.8	9.2	9.2	15.2	9.5	x	12
fluoride[1]	16984-48-8	mg/L	1.6	0.83	0.75	0.69	0.7	0.66	0.65	0.67	0.67	0.66	x	0.6
magnesium	7439-95-4	mg/L	-	6.7	5.3	5.3	5.1	7.9	5.5	5.5	6.0	6.6	x	5.4
potassium	7440-09-7	mg/L	-	14.0	1.7	1.7	1.9	2.6	2.2	2.0	2.1	2.3	x	1.8
sodium	82115-62-6	mg/L	-	46.4	29.9	29.5	27.3	28.5	30.1	34.0	32.1	16.9	x	29
sulfate	18785-72-3	mg/L	600	44	30	38	32	31	29	31	39	31	x	35
alkalinity	NA	mg/L	-	165.0	130.0	125.4	130	128.5	133	131.9	98.0	129.0	x	130
bicarbonate alkalinity	71-52-3	mg/L	-	201.3	130.0	153.1	158.6	156.8	162.3	161.0	119.6	157.4	x	130
carbonate alkalinity	3812-32-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x	x	x	<1.0
total dissolved solids	NA	mg/L	1,000	268	222	251	233	237	231	217	196	229	x	230
Nitrogen Species														
ammonia as N	1331-21-6	mg/L	-	0.03	0.03	<0.01	<0.01	0.02	<0.01	<0.01	0.60	<0.01	x	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	0.4	0.3	0.1	0.2	<0.5	2.4	0.1	0.8	<0.01	x	0.89
nitrate as N	14797-55-8	mg/L	10	2.2	2.28	2.2	2.3	2.2	2.0	2.0	2.11	2.11	x	1.9
nitrite	14797-65-0	mg/L	-	2.2	2.28	<0.05	<0.05	<0.05	<0.05	<0.05	2.11	<0.05	x	<0.10
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Metals														
aluminum	7429-90-5	mg/L	5.0	3.75	2.80	1.26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	<0.10
antimony[1]	7440-36-0	mg/L	0.006	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.05	<0.050
arsenic[1]	7440-38-2	mg/L	0.01	0.0019	0.0027	0.0027	0.0019	0.002	0.0015	0.0022	0.0022	0.0022	<0.005	<0.0050
barium[1]	7440-39-3	mg/L	1.0	0.1636	0.084	0.0994	0.0334	0.0321	0.0324	0.0313	0.0339	0.0323	0.033	0.03
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0030
boron	7440-42-8	mg/L	0.75	<0.01	0.03	0.17	0.04	0.05	0.03	0.02	0.01	<0.01	x	<0.10
cadmium[1]	7440-43-9	mg/L	0.005	<0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.0010
chromium[1]	7440-47-3	mg/L	0.05	<0.0001	0.005	0.0065	0.0011	<0.0001	<0.0001	0.002	0.0018	0.0073	<0.005	<0.0050
cobalt[1]	7440-48-4	mg/L	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010
copper[1]	7440-50-8	mg/L	1.0	0.0115	0.025	0.0271	0.0027	0.0012	<0.04	0.0048	0.0031	0.0015	<0.01	<0.010
iron	7439-89-6	mg/L	1.0	3.19	2.37	4.71	<0.05	0.07	<0.01	0.23	0.01	<0.01	x	<0.10
lead[1]	7439-92-1	mg/L	0.05	0.0052	0.001	0.0092	0.0001	0.0003	<0.0001	0.0009	0.0003	0.0042	<0.005	<0.0050
manganese	7439-96-5	mg/L	0.2	0.18	0.09	0.17	<0.02	0.03	<0.005	0.013	<0.005	<0.005	x	<0.010
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.0002	0.00012	0.0011	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020
molybdenum	7439-98-7	mg/L	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	0.002	0.002	0.0021	0.002	x	<0.010
nickel[1]	7440-02-0	mg/L	0.2	0.0217	0.006	0.01896	0.0027	0.0027	0.0026	0.00252	0.00211	0.00206	<0.005	<0.0050
selenium[1]	7782-49-2	mg/L	0.05	0.001	0.0012	0.0013	0.001	0.0016	0.0016	0.0014	0.0019	0.0011	<0.01	<0.010
silver[1]	7440-22-4	mg/L	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.005	<0.0050
thallium[1]	7440-28-0	mg/L	0.002	0.00008	0.0001	0.00003	0.00004	<0.00003	<0.00003	<0.00003	<0.00003	0.00019	<0.01	<0.010
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.01	x
uranium[1]	7440-61-1	mg/L	0.03	0.0044	0.003	0.00341	0.00251	0.00251	0.00235	0.00187	0.00298	0.00248	x	<0.02
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	0.08	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.01	<0.010
zinc	7440-66-6	mg/L	10.0	0.04	0.04	0.33	0.02	<0.01	-	0.04	<0.01	<0.01	0.036	<0.020
total organic carbon	-	mg/L	-	5.6	0.56	<0.5	<0.5	<0.5	0.7	0.9	4.5	2.3	x	1.1
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	<1.0	x
cyanide[1]	57-12-5	mg/L	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.005	<0.0050
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.07	<0.005	<0.02	0.004	<0.003	0.003	<0.003	0.005	0.005	(^)	<0.0030
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	(^^)	(^^)
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	0.0005	0.0006	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.001	<0.001
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.01	<0.01	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0005	<0.00001	<0.001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.02	<0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	x	x	x	x	x	x	x	x	x	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.001
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0088	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.005	<0.05
Acrylonitrile[1]	107-13-1	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.05
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001
Carbon Disulfide[1]	75-15-00	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.0005	<0.0005	<0.0005	0.0006	0.0007	0.0005	<0.0005	<0.001	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0027	0.0025	0.002	0.0024	0.0002	0.003	0.0020	0.0020	0.0009	0.0015	0.0043
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.001	<0.001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0005	<0.00001	<0.001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-2										
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.001
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.002	<0.002	<0.0005	<0.0005	<0.0005	0.0005	0.0009	0.0008	0.0007	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0021	x	<0.001
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0074	0.0123	0.0073	0.0021	0.0051	0.0098	0.0091	0.0059	0.0074	0.0058	0.0083
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.001	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	0.001	0.0006	<0.0005	<0.0005	0.0012	0.001	0.001	0.0009	<0.001	0.0013
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	0.0006	0.001	0.0007	0.0005	<0.0005	<0.001	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.001
Trihalomethanes (THM)														
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Semi Volatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Benzo (b) fluoranthene[1]	50-32-8	mg/L	0.0002	<0.1	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001
Benzo (g,h,I) perylene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Benzo (k) fluoranthene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Benzo[a]pyrene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Benzoic acid[1]	65-85-0	mg/L						x	x	x	x	x	<0.1	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-2										
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.02	<0.0001
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.1	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.25	<0.001	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.02	<0.0001
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics							x							
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	)8-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	<0.00078	x
Radium 226 and 228	NA	pCi/L	5	44.2	2.20	3.43	2.18	1.21	1.67	1.25	0.9	0.69		1.084
Ra-226, total	NA	pCi/L	-	17.20	0.44	0.93	0.43	0.29	0.6	0.26	0.22	0.15	x	0.121
Ra-228[1], total	NA	pCi/L	-	27.00	1.76	2.5	1.75	0.92	1.07	0.99	0.68	0.54	x	0.963
Chlorinated Pesticides														
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	<0.00005
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001											
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005
Other Pesticides and Herbicides[1]														
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concentrations.

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(') This concentration attributed to laboratory contamination of method blank and not the presence of antimony in the ground water sampled.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

*no sampling of MW-2 on 7/15/03 because pump was not working

constituent	CAS Number	unit	GWPS											RESU
date				9/25/02	12/18/02	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	12/19/12
Field Parameters															
water level elevation	NA	ft amsl	-	3856.54	3856.69	3,858.72	3858.76	3858.84	3858.11	3859.36	3861.71	3861.82	3866.83	3866.03	3864.52
conductivity	NA	µS/cm	-	393	414	377	345	387	380	370	350	414	380	390	384
pH	NA	pH units	6-9	6.63	6.46	7.40	7.68	7.60	7.70	7.05	7.63	6.72	7.22	7.03	7.62
temperature	NA	deg F	-	102.6	106.2	101.8	96.8	90.1	94.8	89.1	89.6	88.2	91.4	91.2	75.4
Major Ions															
calcium	7440-70-2	mg/L	-	38	37	35	36	40	38	40	34	38	38	39	37
chloride	16887-00-6	mg/L	250	11	15	11	9.6	9	9.6	9.3	8.1	8.9	8.0	8.1	8.1
fluoride[1]	16984-48-8	mg/L	1.6	0.73	0.67	0.58	x	x	x	x	0.57	x	0.57	x	x
magnesium	7439-95-4	mg/L	-	5.5	5.5	5.1	5.5	5.8	5.6	5.8	5	5.6	5.7	5.8	5.5
potassium	7440-09-7	mg/L	-	1.8	1.9	1.4	1.7	2.2	1.2	1.8	1.4	1.6	1.9	1.9	1.6
sodium	82115-62-6	mg/L	-	30	30	25	28	32	29	29	26	29	30	31	29
sulfate	18785-72-3	mg/L	600	34	40	35	38	33	35	33	31	34	32	32	31
alkalinity	NA	mg/L	-	120	130	140	130	130	120	130	130	130	130	130	130
bicarbonate alkalinity	71-52-3	mg/L	-	120	130	140	130	130	120	130	130	130	130	130	130
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	260	230	200	230	250	240	230	240	235	242	231	237
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	0.42
Kjeldahl nitrogen	7727-37-9	mg/L	-	<0.5	0.57	<1.0	x	x	x	x	<1.0	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	2.2	2.2	<1.0	0.12	<1.0	1.4	1.1	1.7	1.8	1.2	1.3	1.5
nitrite	14797-65-0	mg/L	-	<0.1	<0.10	<1.0	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	1.7	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	<0.03	0.04	<3.0	<3.0	x	x	x	<0.02	x	<0.02	x	x
antimony[1]	7440-36-0	mg/L	0.006	0.005 (")	<0.004	<0.003	x	x	x	x	<0.001	<0.001	<0.001	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	<0.004	<0.004	<0.01	x	x	x	x	0.007	0.003	0.00143	0.0015	0.0017
barium[1]	7440-39-3	mg/L	1.0	0.031	0.03	0.03	x	x	x	x	0.027	0.033	0.034	0.033	0.032
beryllium[1]	7440-41-7	mg/L	0.004	<0.001	<0.001	<0.002	x	x	x	x	<0.003	x	<0.001	0.00029	<0.002
boron	7440-42-8	mg/L	0.75	0.036	0.034	<0.5	x	x	x	x	<0.04	x	<0.04	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.001	<0.001	<0.002	x	x	x	x	<0.002	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	<0.002	0.02	<0.01	x	x	x	x	<0.006	<0.006	<0.006	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	<0.001	<0.001	<0.03	x	x	x	x	<0.006	<0.006	<0.006	0.00059	<0.006
copper[1]	7440-50-8	mg/L	1.0	<0.001	0.007	<0.06	x	x	x	x	<0.006	<0.006	<0.006	<0.006	<0.006
iron	7439-89-6	mg/L	1.0	0.009	0.2	0.15	0.29	0.38	0.19	<0.10	<0.05	<0.05	<0.05	<0.02	<0.02
lead[1]	7439-92-1	mg/L	0.05	<0.002	0.002	<0.01	x	x	x	x	<0.005	<0.005	<0.005	<0.005	0.0022
manganese	7439-96-5	mg/L	0.2	<0.001	0.0030	<0.03	<0.03	<0.03	<0.03	<0.03	<0.002	<0.002	<0.002	0.0007	<0.002
mercury[1]	7439-97-6	mg/L	0.002	<0.07	<0.20	<0.001	x	x	x	x	<0.0002	x	<0.0002	x	x
molybdenum	7439-98-7	mg/L	1.0	0.003	0.003	<0.75	x	x	x	x	<0.008	x	<0.008	x	x
nickel[1]	7440-02-0	mg/L	0.2	<0.002	0.012	<0.05	x	x	x	x	<0.01	<0.01	<0.01	0.00036	0.001
selenium[1]	7782-49-2	mg/L	0.05	0.004	<0.003	<0.005	x	x	x	x	0.001	<0.001	<0.001	<0.001	<0.001
silver[1]	7440-22-4	mg/L	0.05	<0.002	<0.002	<0.01	x	x	x	x	<0.005	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	<0.003	<0.003	<0.001	x	x	x	x	<0.001	<0.001	<0.001	<0.001	<0.001
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	<0.1	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.00219	0.00237	<2.5	x	x	x	x	0.002	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	0.01	0.003	<0.08	x	x	x	x	<0.05	<0.05	<0.05	0.0078	0.0062
zinc	7440-66-6	mg/L	10.0	<0.008	0.018	<0.05	x	x	x	x	<0.02	<0.02	<0.02	0.0054	0.0024
total organic carbon	-	mg/L	-	2.7	<1.0	0.65	1	0.7	<1.0	2.6	<1.0	<1.0	<1.0	0.26	<1.0
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	<0.50	x	<0.50	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	3	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.005	<0.005	<0.1	x	x	x	x	<0.005	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.0074	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	x	x	x	x	(^^)	x	x	x	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00043	0.00034
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00031	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.001	x	x	x	x	x	x	<0.005	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	x	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	<0.001	x	x	x	x	x	<0.001	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	<0.001	x	x	x	x	x	<0.01	<0.001	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	<0.001	x	x	x	x	x	<0.01	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	<0.001	x	x	x	x	x	<0.015	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.04	<0.015	<0.015	<0.015	<0.015	<0.04	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	<0.005	x	x	x	x	x	x	<0.1	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.005	<0.005	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.01	<0.01	<0.01	<0.01
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	(#)	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.002	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00031	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0029	0.0028	x	x	x	x	<0.005	0.0016	0.0035	<0.001	0.0013	<0.001
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	<0.01	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	x	<0.00001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.001	x	x	x	x	x	<0.001	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

*no sampling of MW-2 on 7/15/03 because pump was not working

constituent	CAS Number	unit	GWPS												RESU
date				9/25/02	12/18/02	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	12/19/12
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	<0.05	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	<0.005	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.005	<0.001	<0.04	<0.04	<0.04	<0.04	<0.001	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	<0.03	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0001	<0.001	<0.015	<0.001	<0.001	<0.001	<0.001	<0.015	0.0014	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	<0.06	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	<0.001	x	x	x	x	x	<0.001	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0084	0.0073	0.0063	<0.0005	0.0058	0.0036	0.0034	0.0032	0.0049	0.0037	0.0034	0.0028
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.0002	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	0.00032	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.001	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00072	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	0.00059	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	<0.001	<0.001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.0001	<0.0001	<0.01	x	x	x	x	<0.001	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	<0.0002	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.0001	<0.0001	<0.01	x	x	x	x	<0.001	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	<0.00005	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Benzo (b) fluoranthene[1]	50-32-8	mg/L	0.0002	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Benzo (g,h,I) perylene[1]	205-99-2	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Benzo (k) fluoranthene[1]	191-24-2	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Benzo[a]pyrene[1]	207-08-9	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.00005	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

*no sampling of MW-2 on 7/15/03 because pump was not working

constituent	CAS Number	unit	GWPS												RESU
date				9/25/02	12/18/02	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	12/19/12
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.0001	<0.0001	<0.01	x	x	x	x	<0.001	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	<0.001	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Semi Volatile Organic Compounds - Phenolics															
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	<0.001	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	1.651	1.737	<2.5					0.24				
Ra-226, total	NA	pCi/L	-	0.698	0.367	<2.5	x	x	x	x	0.2	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	0.953	1.37	<2.5	x	x	x	x	0.04	x	x	x	x
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	<0.0002	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	<0.000905	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concent

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of ant

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	LTS FOR MW-2										baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	12/27/16	6/27/17	12/12/17	6/20/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Field Parameters															
water level elevation	NA	ft amsl	-	3859.76	3858.86	3859.81	3862.11	3859.78	3857.66	3858.08	3859.28	3857.78	3858.46	3858.71	5.46
conductivity	NA	µS/cm	-	380	386	369	373	358	382	381	386	398	393	385.50	29.36
pH	NA	pH units	6-9	6.40	6.98	6.61	6.64	6.82	7.26	7.34	7.39	6.73	6.52	7.30	0.45
temperature	NA	deg F	-	112.6	107.4	109.8	109.4	110.8	107.4	112.1	108.5	109.8	110.3	107.78	1.57
Major Ions															
calcium	7440-70-2	mg/L	-	37	38	38	36	38	37	42	42	39	43	38.02	2.19
chloride	16887-00-6	mg/L	250	8.4	8.7	8.7	9.0	9.4	9.3	8.9	10	9.0	9.8	11.10	4.14
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	0.51	x	x	x	x	x	x	0.71	0.07
magnesium	7439-95-4	mg/L	-	5.5	5.4	5.5	5.1	5.4	5.8	6.0	5.9	5.8	5.9	5.97	1.11
potassium	7440-09-7	mg/L	-	2.0	1.9	1.6	1.7	1.5	1.7	1.9	1.8	1.7	1.7	4.02	4.90
sodium	82115-62-6	mg/L	-	29	28	29	26	28	30	31	30	29	31	31.95	7.15
sulfate	18785-72-3	mg/L	600	32	32	32	32	34	33	32	32	33	35	34.00	5.83
alkalinity	NA	mg/L	-	140	130	130	140	130.8	134.6	132.2	130.9	134.8	135.7	135.32	14.75
bicarbonate alkalinity	71-52-3	mg/L	-	140	130	130	140	130.8	134.6	132.2	130.9	134.8	135.7	160.35	23.11
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	x
total dissolved solids	NA	mg/L	1,000	238	239	245	229	242	258	251	243	248	252	240.33	16.54
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.03	0.01
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	<1.0	x	x	x	x	x	x	0.68	0.97
nitrate as N	14797-55-8	mg/L	10	1.7	1.8	1.7	1.8	2.0	2.1	2.3	2.5	3.3	3.4	2.20	0.11
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	2.24	0.06
total nitrogen	-	mg/L	-	x	x	x	1.8	x	x	x	x	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	x	x	x	0.027	x	x	x	x	x	x	2.60	1.26
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0004	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0019	0.0017	0.0019	0.0015	0.0017	0.0016	0.0018	0.0014	0.0018	0.0016	0.0021	0.0005
barium[1]	7440-39-3	mg/L	1.0	0.036	0.031	0.029	0.031	0.028	0.030	0.037	0.036	0.033	0.036	0.0741	0.0527
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.003	<0.002	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.0006	x
boron	7440-42-8	mg/L	0.75	x	x	x	<0.04	x	x	x	x	x	x	0.06	0.06
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0001	0
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0042	0.0028
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.01	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.001	<0.006	0.013	0.0121
iron	7439-89-6	mg/L	1.0	0.026	<0.02	<0.05	<0.02	<0.05	<0.02	<0.02	0.023	<0.02	<0.02	2.585	1.9368
lead[1]	7439-92-1	mg/L	0.05	<0.001	<0.001	<0.005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.003	0.0040
manganese	7439-96-5	mg/L	0.2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0032	<0.002	<0.002	0.118	0.0709
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	<0.0002	x	x	x	x	x	x	0.001	0.0005
molybdenum	7439-98-7	mg/L	1.0	x	x	x	<0.008	x	x	x	x	x	x	<0.05	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.0088
selenium[1]	7782-49-2	mg/L	0.05	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.0003
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.02	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00006	0.00003
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	0.0021	x	x	x	x	x	x	0.0030	0.0008
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0078	0.08	x
zinc	7440-66-6	mg/L	10.0	<0.01	<0.01	<0.02	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	0.15
total organic carbon	-	mg/L	-	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.27	2.29	2.87
phosphate	14265-44-2	mg/L	-	x	x	x	<0.50	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	<0.01	x	x	x	x	x	x	<0.02	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.03	0.038
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	(^^)	x	x	x	x	x	x	<0.0005	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.000019	<0.000019	<0.000019	<0.01	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0013	0.0013	<0.001	0.0011	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000094	<0.0000095	<0.0000096	<0.001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	LTS FOR MW-2										baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	12/27/16	6/27/17	12/12/17	6/20/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00049	<0.002	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	x	x	x	x	x	<0.01	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0035	0.0025	0.0024	0.0023	0.0024	0.0023	0.0018	0.0018	0.0019	0.0023	0.0073	0.0036
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.01	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0011	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00057	0.001	0.0003
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00043	<0.001	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0005	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.001	x
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	<0.002	x	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	<0.002	x	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	x	x	x	x	x	x	x	x	<0.1	x
Benzo (g,h,I) perylene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	207-08-9	mg/L	-	x	x	x	<0.00007	x	x	x	x	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x		
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-2

Las Cruces Foothills Landfill monitoring well MW-2

constituent	CAS Number	unit	GWPS	LTS FOR MW-2										baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	12/27/16	6/27/17	12/12/17	6/20/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	<0.002	x	x	x	x	x	x	<1.0	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.1	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.25	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics															
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5				1.26							9.15	17.19
Ra-226, total	NA	pCi/L	-	x	x	x	0.532	x	x	x	x	x	x	3.32	6.81
Ra-228[1], total	NA	pCi/L	-	x	x	x	0.729	x	x	x	x	x	x	5.83	10.38
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concent

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of ant

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-3

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				1/12/99	5/15/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
Field Parameters															
water level elevation		ft amsl	-	4048.02	4049.92	4052.42	4049.72	4051.02	4055.87	4051.52	4049.16	4046.66	4048.26	4048.53	4048.06
conductivity		µS/cm	-	1040	433	421	385	396	355	351	341	325	331	312	339
pH		pH units	6-9	7.85	8.15	7.35	7.29	6.60	8.10	8.22	8.39	8.23	6.86	7.49	6.83
temperature		deg F	-	76.0	77.0	84.0	75.9	76.6	77.0	76.5	75.8	71.1	77.5	78	77
Major Ions															
calcium	7440-70-2	mg/L	-	42.8	35.2	35.9	34.8	33.3	34.3	33.0	27.1	31.1	x	27	23
chloride	16887-00-6	mg/L	250	94.5	17.2	15.7	8.3	8.1	7.6	7.0	6.0	6.2	x	6.7	7.4
fluoride[1]	16984-48-8	mg/L	1.6	1.17	0.96	0.99	0.98	0.93	0.92	0.94	0.87	0.92	x	0.82	0.95
magnesium	7439-95-4	mg/L	-	5.1	4.2	4.1	4.0	5.0	3.9	4.1	3.4	4.8	x	3.9	3.5
potassium	7440-09-7	mg/L	-	4.0	1.5	2.8	1.7	1.4	2.1	1.9	1.6	2.2	x	1.8	1.7
sodium	82115-62-6	mg/L	-	179.0	53.2	51.4	35.3	38.5	38.1	39.0	40.2	25.6	x	35	38
sulfate	18785-72-3	mg/L	600	215	60	67	43	39	35	48	36	41	x	38	44
alkalinity	NA	mg/L	-	148.5	141.0	140.9	132.5	130.4	128.5	128.5	111.0	117.5	x	110	100
bicarbonate alkalinity	71-52-3	mg/L	-	181.2	141.0	172.0	161.7	147.0	156.8	156.8	113.5	122.6	x	110	99
carbonate alkalinity	3812-32-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	6	0.0	0.0	10.8	10.2	x	1	x
total dissolved solids	NA	mg/L	1,000	706	279	289	235	233	232	207	193	181	x	200	210
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<0.01	0.02	0.35	0	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	<0.05
Kjeldahl nitrogen	7727-37-9	mg/L	-	0.2	0.1	1.2	0.2	<0.1	0.4	<0.1	<0.1	0.1	x	<0.050	<0.5
nitrate as N	14797-55-8	mg/L	10	0.06	0.33	0.52	0.79	0.9	0.83	1.07	0.88	1.00	x	1.1	1.2
nitrite	14797-65-0	mg/L	-	x	0.33	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	<0.10	<0.1
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	1.85	2.92	2.81	<0.05	0.14	<0.05	0.25	<0.05	0.19	x	0.27	0.11
antimony[1]	7440-36-0	mg/L	0.006	0.0009	0.0005	0.0028	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.05	<0.050	0.004 (")
arsenic[1]	7440-38-2	mg/L	0.01	0.002	0.0027	0.0029	0.0014	0.0018	0.0019	0.0022	0.0025	0.0027	<0.005	<0.0050	<0.004
barium[1]	7440-39-3	mg/L	1.0	0.0756	0.067	0.1497	0.0309	0.0422	0.0289	0.0381	0.0257	0.0232	0.03	0.023	0.019
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0030	<0.001
boron	7440-42-8	mg/L	0.75	0.14	0.09	0.29	0.07	0.06	<0.01	0.03	0.02	<0.01	x	<0.10	0.042
cadmium[1]	7440-43-9	mg/L	0.005	0.0002	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0005	<0.005	<0.0010	<0.001
chromium[1]	7440-47-3	mg/L	0.05	0.004	0.014	0.0172	0.0004	0.0051	0.0005	0.0083	0.0058	0.0098	0.007	0.009	0.013
cobalt[1]	7440-48-4	mg/L	0.05	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.001
copper[1]	7440-50-8	mg/L	1.0	0.0083	0.037	0.0732	0.0022	0.0043	<0.04	0.0038	0.0128	0.0508	0.062	0.025	0.019
iron	7439-89-6	mg/L	1.0	1.74	2.45	4.54	<0.05	0.18	<0.01	0.59	0.14	0.39	x	0.28	0.12
lead[1]	7439-92-1	mg/L	0.05	0.001	0.008	0.0133	<0.0001	0.0015	<0.0001	0.0015	0.0061	0.0138	0.016	<0.0050	0.004
manganese	7439-96-5	mg/L	0.2	0.07	0.14	0.52	<0.02	0.04	<0.005	0.027	<0.005	<0.005	x	<0.010	0.004
mercury[1]	7439-97-6	mg/L	0.002	0.0002	<0.0002	<0.0002	0.0006	<0.0002	0.0003	<0.0002	<0.0002	0.0005	<0.0002	<0.00020	<0.07
molybdenum	7439-98-7	mg/L	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	0.006	0.005	0.005	0.0045	x	<0.010	0.003
nickel[1]	7440-02-0	mg/L	0.2	0.067	0.028	0.06525	0.0042	0.00505	0.00309	0.00534	0.01105	0.03707	0.028	0.032	0.028
selenium[1]	7782-49-2	mg/L	0.05	0.0028	0.001	0.0001	0.001	0.0011	0.0017	0.0011	0.0017	0.0011	<0.01	<0.01	<0.003
silver[1]	7440-22-4	mg/L	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.005	<0.0050	<0.002
thallium[1]	7440-28-0	mg/L	0.002	0.000007	0.0001	0.00006	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00041	<0.01	<0.010	<0.003
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.01	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.0225	0.013	0.01517	0.00555	0.00547	0.00272	0.00359	0.00399	0.00341	x	<0.02	0.00259
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	0.08	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.01	<0.010	0.01
zinc	7440-66-6	mg/L	10.0	0.26	0.11	0.22	<0.01	0.03	-	0.02	0.57	2.08	1.3	1	0.47
total organic carbon	-	mg/L	-	4.4	1.31	1.1	1.5	0.6	1.1	0.7	0.7	0.9	x	1	1.3
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	<1.0	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.005	<0.0050	<0.005
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.04	<0.005	<0.02	<0.003	<0.003	<0.003	0.006	0.02	0.004	(^)	0.004	0.0088
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	(^^)	(^^)	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	67-64-1	mg/L	-	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01
1,1,1-Trichloroethane[1]	630-20-6	mg/L	0.02	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,2 Dibromo-3-chloropropane (DBCP)[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.001	<0.001	<0.001
1,2,3-Trichlorobenzene	96-12-8	mg/L	0.0002	<0.01	<0.01	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00001	<0.001	<0.00001
1,2,3-Trichloropropane[1]	87-61-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
1,2,4-Trichlorobenzene[1]	96-18-4	mg/L	0.01	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	120-82-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.02	<0.001	x
1,2-Dichloroethane (EDC)[1]	95-50-1	mg/L	0.6	x	x	x	x	x	x	x	x	x	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	78-87-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.001	<0.0002
1,3-Dichloropropane[1]	541-73-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	142-28-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-87-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
2-Chlorotoluene[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01
2-Hexanone (Butyl Ketone)1	95-49-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
4-Chlorotoluene[1]	78-93-3	mg/L	0.02	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01
4-Methyl-2-pentanone[1]	106-43-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Acetone[1]	108-10-1	mg/L	-	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.005	<0.005	<0.005
Acrylonitrile[1]	107-13-1	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001	<0.001
Carbon Disulfide[1]	75-15-00	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001	<0.001
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				1/12/99	5/15/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0021	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.00001	<0.001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x	<0.001	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0067	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.001	<0.0004
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.0001
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.0001
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001	<0.0001
Benzoic acid[1]	65-85-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				1/12/99	5/15/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.02	<0.0001	<0.0001
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001	<0.0001
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	0.00025	<0.001	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.02	<0.0001	<0.0001
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics							x								
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	<0.00078	x	x
Radium 226 and 228	NA	pCi/L	5	5.72	2.77	12.00	1.22	0.90	0.66	0.61	0.26	0.33		1.057	1.936
Ra-226, total	NA	pCi/L	-	2.12	0.13	3.70	0.18	0.16	0.04	0.10	0.03	0.04	x	0.121	1.19
Ra-228[1], total	NA	pCi/L	-	3.60	2.54	8.30	1.04	0.74	0.62	0.51	0.23	0.29	x	0.936	0.746
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.000050	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	<0.000050	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Other Pesticides and Herbicides[1]				x	x	x	x	x	x	x					
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				1/12/99	5/15/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concentrations.

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of antimony in the ground water sampled.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	5/18/11	12/27/11
Field Parameters															
water level elevation		ft amsl	-	4048.19	4048.08	4048.14	4048.07	4047.89	4044.77	4047.06	4046.86	4047.46	4045.52	4048.00	4047.33
conductivity		µS/cm	-	361	406	290	309	327	300	270	260	295	290	286	289
pH		pH units	6-9	6.87	8.22	8.30	8.05	8.40	8.70	8.56	8.51	7.55	8.29	8.46	8.25
temperature		deg F	-	74.5	81.0	72.5	74.8	67.6	74.8	72.3	60.8	74.7	pumped dry	70.9	67.1
Major Ions															
calcium	7440-70-2	mg/L	-	27	26.7	26	27	25	24	22	17	24	20	x	20
chloride	16887-00-6	mg/L	250	8.7	7	6.6	6.3	6	6.7	6.7	6.3	7	6.2	x	6.2
fluoride[1]	16984-48-8	mg/L	1.6	0.89	0.7	0.86	x	x	x	x	0.76	x	0.71	x	x
magnesium	7439-95-4	mg/L	-	4	3.8	3.5	4	4.2	4	4.2	3.3	4.4	3.6	x	3.5
potassium	7440-09-7	mg/L	-	1.8	1.9	1.4	1.5	2	1.1	1.8	1.4	1.7	1.7	x	1.8
sodium	82115-62-6	mg/L	-	37	34.6	30	31	35	33	33	30	32	35	x	33
sulfate	18785-72-3	mg/L	600	39	35	36	36	33	34	34	33	36	35	x	34
alkalinity	NA	mg/L	-	110	107	110	110	92	96	85	85	92	91	x	88
bicarbonate alkalinity	71-52-3	mg/L	-	110	105	110	110	92	94	81	83	93	91	x	87
carbonate alkalinity	3812-32-6	mg/L	-	x	<20	<2.0	<4.0	<2.0	2	4	2	<2.0	<2.0	x	<2.0
total dissolved solids	NA	mg/L	1,000	200	190	170	190	210	190	170	180	189	189	x	173
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<0.05	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<1.0	x	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	<0.5	<1	<1.0	x	x	x	x	<1.0	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	1.4	1	1.1	1	<1.0	<1.0	1	0.94	1.1	0.9	x	0.93
nitrite	14797-65-0	mg/L	-	<0.1	<0.1	1.1	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	<1.0	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	0.16	0.08	<3.0	<3.0	x	x	x	0.04	x	0.085	x	x
antimony[1]	7440-36-0	mg/L	0.006	<0.004	<0.0004	<0.003	x	x	x	x	<0.001	<0.001	<0.001	x	<0.0025
arsenic[1]	7440-38-2	mg/L	0.01	<0.004	0.0021	<0.01	x	x	x	x	0.006	0.003	0.0017	x	0.0015
barium[1]	7440-39-3	mg/L	1.0	0.023	0.021	<0.02	x	x	x	x	0.014	0.024	0.014	x	0.013
beryllium[1]	7440-41-7	mg/L	0.004	<0.001	<0.0002	<0.002	x	x	x	x	<0.003	x	<0.001	x	0.00023
boron	7440-42-8	mg/L	0.75	0.04	<0.1	<0.5	x	x	x	x	<0.04	x	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.001	0.0004	<0.002	x	x	x	x	<0.002	<0.002	<0.002	x	<0.002
chromium[1]	7440-47-3	mg/L	0.05	0.015	0.0165	<0.01	x	x	x	x	0.0083	0.017	0.013	x	0.0069
cobalt[1]	7440-48-4	mg/L	0.05	<0.001	0.00156	<0.03	x	x	x	x	<0.006	<0.006	<0.006	x	0.0004
copper[1]	7440-50-8	mg/L	1.0	0.028	0.0284	<0.06	x	x	x	x	0.017	0.029	0.041	x	0.0082
iron	7439-89-6	mg/L	1.0	0.17	<0.10	<0.1	0.13	0.18	<0.10	0.30	0.11	0.41	0.13	x	<0.02
lead[1]	7439-92-1	mg/L	0.05	0.003	0.0005	<0.01	x	x	x	x	<0.005	<0.005	<0.005	x	0.0018
manganese	7439-96-5	mg/L	0.2	0.007	<0.010	<0.03	<0.03	<0.03	<0.03	<0.03	0.0069	0.018	0.012	x	0.00043
mercury[1]	7439-97-6	mg/L	0.002	<0.2	<0.0002	<0.001	x	x	x	x	<0.0002	x	<0.0002	x	x
molybdenum	7439-98-7	mg/L	1.0	0.003	<0.010	<0.75	x	x	x	x	<0.008	x	<0.008	x	x
nickel[1]	7440-02-0	mg/L	0.2	0.029	0.06936	<0.05	x	x	x	x	0.016	0.022	0.021	x	0.0011
selenium[1]	7782-49-2	mg/L	0.05	<0.003	0.0012	<0.005	x	x	x	x	<0.001	<0.001	<0.001	x	<0.0025
silver[1]	7440-22-4	mg/L	0.05	<0.002	<0.010	<0.01	x	x	x	x	<0.005	<0.0050	<0.005	x	<0.005
thallium[1]	7440-28-0	mg/L	0.002	<0.003	0.00021	<0.001	x	x	x	x	<0.001	<0.001	<0.001	x	<0.0025
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	<0.1	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.00238	0.002	<2.5	x	x	x	x	0.002	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	0.01	<0.050	<0.08	x	x	x	x	<0.05	<0.050	<0.05	x	0.0077
zinc	7440-66-6	mg/L	10.0	0.99	0.515	0.24	x	x	x	x	0.52	0.63	0.75	x	0.04
total organic carbon	-	mg/L	-	<1.0	1	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	x	0.26
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	<0.50	x	<0.50	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	3	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.005	<0.01	<0.1	x	x	x	x	<0.005	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	0.00042	x
total phenolics[1]	-	mg/L	0.005	<0.003	<0.005	<0.003	<0.003	<0.003	<0.003	<0.0025	<0.0025	<0.0025	<0.0025	x	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	x	x	x	x	(^^)	x	x	x	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	67-64-1	mg/L	-	<0.01	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	x	<0.001
1,1,1-Trichloroethane[1]	630-20-6	mg/L	0.02	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
1,1,2,2-Tetrachloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
1,1,2-Trichloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
1,1-Dichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	x	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-34-3	mg/L	0.025	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
1,1-Dichloropropene[1]	75-35-4	mg/L	0.005	<0.001	<0.0005	<0.001	x	x	x	x	<0.005	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	563-58-6	mg/L	-	x	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	<0.0001
1,2,3-Trichlorobenzene	96-12-8	mg/L	0.0002	<0.00001	<0.010	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	87-61-6	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.001
1,2,4-Trichlorobenzene[1]	96-18-4	mg/L	0.01	<0.001	<0.0005	x	x	x	x	x	<0.001	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	120-82-1	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.001
1,2-Dichloroethane (EDC)[1]	95-50-1	mg/L	0.6	x	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	<0.001
1,2-Dichloropropane[1]	107-06-2	mg/L	0.005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	78-87-5	mg/L	0.005	<0.0002	<0.0005	x	x	x	x	x	<0.01	<0.001	x	x	x
1,3-Dichloropropane[1]	541-73-1	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.01	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	142-28-9	mg/L	-	<0.001	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	x	<0.001
2,2-Dichloropropane[1]	106-46-7	mg/L	0.075	<0.001	<0.0005	x	x	x	x	x	<0.015	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-87-5	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.01
2-Chlorotoluene[1]	78-93-3	mg/L	-	<0.01	<0.025	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)1	95-49-8	mg/L	-	<0.001	<0.0005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	x	<0.01
4-Chlorotoluene[1]	78-93-3	mg/L	0.02	<0.01	<0.025	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	106-43-4	mg/L	-	<0.001	<0.0005	<0.04	<0.15	<0.15	<0.15	<0.15	<0.04	<0.01	<0.01	x	<0.01
Acetone[1]	108-10-1	mg/L	-	<0.01	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	x	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	<0.025	x	x	x	x	x	<0.1	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.005	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.01	<0.01	x	<0.01
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	(#)	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	x	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.002	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	x	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.001	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	x	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	x	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	x	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.0005	<0.005					<0.005	<0.001	<0.001	x	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	x	<0.001

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	5/18/11	12/27/11
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	x	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	<0.001	<0.0005	<0.005	x	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	<0.01	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.0005	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00001	<0.00001	<0.00001	x	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.001	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	<0.05	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	<0.005	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.005	<0.001	<0.04	<0.04	<0.04	<0.04	<0.001	<0.01	<0.01	x	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	<0.03	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.0005	<0.015	<0.001	<0.001	<0.001	<0.001	<0.015	<0.001	<0.001	x	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	<0.06	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.0005
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	<0.010	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	x	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.0005	<0.005					<0.002	<0.001	<0.001	x	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.001	<0.010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	<0.001	x	<0.001
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	x	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	<0.001	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	x	<0.01
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	x	<0.0004
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	x	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	x	<0.001
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.0001	<0.005	<0.01	x	x	x	x	<0.001	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	<0.0002	x	x	<0.0002	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	<0.0001	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	<0.0002	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.0001	<0.010	<0.01	x	x	x	x	<0.001	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.0001	<0.005	<0.0001	x	x	x	x	<0.00005	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	5/18/11	12/27/11
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	<0.0001	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	<0.0001	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.0001	<0.0005	<0.01	x	x	x	x	<0.001	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	<0.0001	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	<0.0001	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	<0.0001	x
Semi Volatile Organic Compounds - Phenolics															
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	<0.001	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	0.0	0.6	<2.5					0.35				
Ra-226, total	NA	pCi/L	-	0.0	0.5	<2.5	x	x	x	x	0.03	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	0.0	0.1	<2.5	x	x	x	x	0.32	x	x	x	x
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	<0.0002	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	<0.00101	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3											
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	5/18/11	12/27/11
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics con

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3										baseline average	standard deviation
date				6/19/12	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/11/17	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Field Parameters															
water level elevation		ft amsl	-	4048.85	4048.31	4047.41	4050.06	4049.66	4047.25	4047.06	4046.76	4046.26	4043.15	4051.16	2.73
conductivity		µS/cm	-	267	300	310	311	293	280	263	283	267	305.2	505.00	263.53
pH		pH units	6-9	8.02	7.42	8.02	7.12	7.95	8.18	7.81	8.59	8.35	8.18	7.56	0.59
temperature		deg F	-	71.2	64.9	77.5	68.9	79.9	70.2	73.4	68.0	72.1	68.7	77.75	3.10
Major Ions															
calcium	7440-70-2	mg/L	-	20	25	25	26	25	20	23	22	23	23	36.05	3.42
chloride	16887-00-6	mg/L	250	6.0	6.0	6.0	6.1	6.0	6.2	6.6	6.6	6.1	6.8	25.23	34.19
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	x	x	0.76	x	x	x	x	0.99	0.09
magnesium	7439-95-4	mg/L	-	3.8	4.1	3.9	4.0	4.1	3.6	4.3	4.1	4.3	4.2	4.38	0.53
potassium	7440-09-7	mg/L	-	1.6	1.6	1.8	1.9	1.8	1.7	1.6	1.6	1.7	2.0	2.25	1.00
sodium	82115-62-6	mg/L	-	31	31	29	29	29	26	29	29	31	31	65.92	55.90
sulfate	18785-72-3	mg/L	600	34	34	35	35	35	34	36	34	33	35	76.50	68.99
alkalinity	NA	mg/L	-	88	99	100	100	100	93	87.52	91.32	89.32	103.9	136.97	7.74
bicarbonate alkalinity	71-52-3	mg/L	-	86	99	99	100	96	90	87.52	89.96	87.40	103.9	159.95	15.08
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	2.0	<2.0	5.5	2.6	<2.0	<2.0	<2.0	<2.0	3.00	x
total dissolved solids	NA	mg/L	1,000	181	192	192	201	185	176	183	197	168	195	329.00	186.38
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.12	0.20
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	x	x	<1.0	x	x	x	x	0.42	0.45
nitrate as N	14797-55-8	mg/L	10	0.95	0.91	1.0	<1.0	1.0	1.0	1.1	1.1	1.0	<0.10	0.57	0.33
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	0.33	x
total nitrogen	-	mg/L	-	x	x	x	x	x	1.0	x	x	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	x	x	x	x	x	<0.02	x	x	x	x	1.93	1.286
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0039	0.00	0.001
arsenic[1]	7440-38-2	mg/L	0.01	0.0014	0.0012	0.0014	0.0012	0.0012	0.0012	0.0012	0.0012	0.0014	0.0024	0.00	0.001
barium[1]	7440-39-3	mg/L	1.0	0.016	0.017	0.018	0.018	<0.02	0.016	<0.02	0.018	0.018	0.019	0.07	0.045
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.002	<0.002	<0.003	<0.002	<0.003	<0.002	<0.002	<0.002	0.000	x
boron	7440-42-8	mg/L	0.75	x	x	x	x	x	<0.04	x	x	x	x	0.130	0.095
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0002	0.000
chromium[1]	7440-47-3	mg/L	0.05	<0.006	0.0047	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.007	0.007
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.010	x
copper[1]	7440-50-8	mg/L	1.0	0.0089	0.02	0.015	0.018	0.017	0.018	0.009	0.01	<0.006	0.39	0.025	0.030
iron	7439-89-6	mg/L	1.0	<0.02	<0.02	0.021	<0.02	<0.05	<0.02	<0.05	<0.02	<0.02	0.23	2.228	1.810
lead[1]	7439-92-1	mg/L	0.05	<0.005	0.0037	0.0031	0.0028	<0.005	0.0035	<0.005	0.0019	0.0025	0.039	0.006	0.006
manganese	7439-96-5	mg/L	0.2	<0.002	0.0024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.035	0.193	0.222
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	x	x	<0.0002	x	x	x	x	0.0004	0.000
molybdenum	7439-98-7	mg/L	1.0	x	x	x	x	x	<0.008	x	x	x	x	<0.05	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	0.0039	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.048	0.029	0.030
selenium[1]	7782-49-2	mg/L	0.05	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.02	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	0.00006	0.00005
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	x	x	0.002	x	x	x	x	0.011	0.007
vanadium[1]	7440-62-2	mg/L	-	<0.05	0.004	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.080	x
zinc	7440-66-6	mg/L	10.0	0.033	0.092	0.097	0.061	0.029	0.062	0.074	0.027	0.026	1.9	0.155	0.105
total organic carbon	-	mg/L	-	<1.0	0.25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.3	1.668	1.372
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	<0.50	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	x	x	<0.01	x	x	x	x	<0.02	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	0.0004	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.006	0.04	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	x	x	(^^)	x	x	x	x	<0.0005	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	67-64-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,1,1-Trichloroethane[1]	630-20-6	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2,2-Tetrachloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2-Trichloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	75-35-4	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	563-58-6	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.000019	x	x
1,2,3-Trichlorobenzene	96-12-8	mg/L	0.0002	x	x	x	x	x	x	x	x	x	x	<0.01	x
1,2,3-Trichloropropane[1]	87-61-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2,4-Trichlorobenzene[1]	96-18-4	mg/L	0.01	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	120-82-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloroethane (EDC)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
1,2-Dichloropropane[1]	107-06-2	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	78-87-5	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,3-Dichloropropane[1]	541-73-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	142-28-9	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
2,2-Dichloropropane[1]	106-46-7	mg/L	0.075	x	x	x	x	x	x	x	x	x	x	<0.001	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-87-5	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	x
2-Chlorotoluene[1]	78-93-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.01	x
2-Hexanone (Butyl Ketone)1	95-49-8	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	x
4-Chlorotoluene[1]	78-93-3	mg/L	0.02	x	x	x	x	x	x	x	x	x	x	<0.002	x
4-Methyl-2-pentanone[1]	106-43-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	x
Acetone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3										baseline average	standard deviation
date				6/19/12	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/11/17	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0021	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000095	<0.001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	x	x	x	x	x	<0.01	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0067	x
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	<0.001	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0005	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.001	x
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	<0.002	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	<0.002	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	x	x	x	x	x	<0.00007	x	x	x	x	0.0001	x
Benzoic acid[1]	65-85-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3										baseline average	standard deviation
date				6/19/12	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/11/17	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	x	x	<0.002	x	x	x	x	0.001	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	0.0001	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	0.00025	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics															
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5						0.641					3.88	3.88
Ra-226, total	NA	pCi/L	-	x	x	x	x	x	0.283	x	x	x	x	1.06	1.06
Ra-228[1], total	NA	pCi/L	-	x	x	x	x	x	0.358	x	x	x	x	2.81	2.81
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	<0.00025	x	x	x	x	x	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-3

Las Cruces Foothills Landfill monitoring well MW-3

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-3										baseline average	standard deviation
date				6/19/12	12/19/12	6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/11/17	1/12/99 to 5/18/00	1/12/99 to 5/18/00
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics con

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-4

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
Field Parameters															
water level elevation		ft amsl	-	3950.09	3945.49	3947.36	3947.78	3947.95	3945.52	3924.98	3944.79	3943.20	3942.52	3942.01	3941.25
conductivity		µS/cm	-	414	415	434	486	478	445	461	501	491	522	500	551
pH		pH units	6-9	7.46	7.26	7.07	6.98	7.25	7.30	7.41	7.37	7.32	7.18	7.28	7.15
temperature		deg F	-	90.3	91.4	95	88.1	91.4	91.4	77.2	91.6	89.8	91.7	92.0	90.2
Major Ions															
calcium	7440-70-2	mg/L	-	54.5	51.9	53.5	54.2	57.2	61.0	61	68.1	71.3	x	69	70
chloride	16887-00-6	mg/L	250	6.3	6.4	5.9	5.6	6.2	6.1	5.9	6.0	6.3	x	7.2	7.7
fluoride[1]	16984-48-8	mg/L	1.6	0.68	0.68	0.62	0.65	0.61	0.60	0.58	0.52	0.55	x	0.47	0.52
magnesium	7439-95-4	mg/L	-	7.1	6.5	6.8	6.5	7	7.3	7.6	7.7	10.2	x	8.9	9
potassium	7440-09-7	mg/L	-	2.9	1.6	2.7	2.1	1.8	2.6	1.9	2.2	3.2	x	2.5	2.5
sodium	82115-62-6	mg/L	-	31.8	26.9	26.2	24.3	27.1	26.2	32	30.6	18.7	x	30	30
sulfate	18785-72-3	mg/L	600	31	32	35	31	31	33	32	32	33	x	35	41
alkalinity	NA	mg/L	-	175.4	178.5	179	183	182.5	189.4	196.4	207.5	218.0	x	230	240
bicarbonate alkalinity	71-52-3	mg/L	-	214.1	178.5	218.4	223.3	222.7	231.2	239.7	253.2	266.0	x	230	240
carbonate alkalinity	3812-32-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	0.0	0.0	0.0	0.0	x	1	
total dissolved solids	NA	mg/L	1,000	267	276	264	261	274	281	276	289	286	x	320	350
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	<0.05
Kjeldahl nitrogen	7727-37-9	mg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	x	<0.050	<0.5
nitrate as N	14797-55-8	mg/L	10	0.91	1.02	0.98	0.99	1	0.92	0.99	0.86	1.01	x	1.1	1.2
nitrite	14797-65-0	mg/L	-	0.91	1.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	<0.10	<0.1
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Metals															
aluminum	7429-90-5	mg/L	5.0	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	x	<0.10	<0.03
antimony[1]	7440-36-0	mg/L	0.006	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.05	<0.050	0.007 (")
arsenic[1]	7440-38-2	mg/L	0.01	0.0008	0.0008	0.0008	0.0007	0.0009	0.001	0.0008	0.0008	0.0009	<0.005	<0.0050	<0.004
barium[1]	7440-39-3	mg/L	1.0	0.045	0.049	0.0457	0.0451	0.0454	0.0468	0.0487	0.0576	0.0544	0.058	0.061	0.06
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0030	<0.001
boron	7440-42-8	mg/L	0.75	<0.01	0.03	0.06	0.06	0.06	<0.01	0.02	0.01	<0.01	x	<0.10	0.045
cadmium[1]	7440-43-9	mg/L	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005	<0.0010	<0.001
chromium[1]	7440-47-3	mg/L	0.05	<0.0001	0.00014	0.0023	<0.0001	0.0032	<0.0001	0.0019	0.0015	0.0107	<0.005	<0.0050	<0.002
cobalt[1]	7440-48-4	mg/L	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.001
copper[1]	7440-50-8	mg/L	1.0	0.0006	<0.0004	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	0.0005	0.0007	<0.01	<0.010	0.001
iron	7439-89-6	mg/L	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	x	<0.10	<0.007
lead[1]	7439-92-1	mg/L	0.05	0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.0011	0.0004	<0.005	<0.0050	<0.002
manganese	7439-96-5	mg/L	0.2	<0.02	0.03	<0.02	<0.02	0.03	<0.005	0.009	<0.005	<0.005	x	<0.010	0.005
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.00020	<0.07
molybdenum	7439-98-7	mg/L	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	0.002	0.001	0.001	0.0011	x	<0.010	<0.002
nickel[1]	7440-02-0	mg/L	0.2	0.0046	0.0028	0.0024	0.0027	0.00275	0.00216	0.00255	0.00238	0.00332	<0.005	<0.0050	<0.002
selenium[1]	7782-49-2	mg/L	0.05	0.001	0.001	0.001	0.001	0.0011	0.0015	<0.001	0.0016	<0.001	<0.01	<0.010	<0.003
silver[1]	7440-22-4	mg/L	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.005	<0.0050	<0.002
thallium[1]	7440-28-0	mg/L	0.002	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00013	<0.01	<0.02	<0.003
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.01	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.0049	0.0052	0.00495	0.00505	0.00524	0.00571	0.00512	0.00728	0.00748	x	<0.02	0.00759
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	0.08	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.01	<0.010	0.004
zinc	7440-66-6	mg/L	10.0	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.02	<0.020	0.008
total organic carbon	-	mg/L	-	<0.5	0.53	<0.5	0.6	<0.5	0.6	0.6	0.5	0.8	x	1.1	1
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	<1.0	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.005	<0.0050	<0.005
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.01	<0.005	<0.02	<0.003	<0.003	0.010	<0.003	0.003	0.001	(^)	0.0044	<0.003
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	(^^)	(^^)	(^^)
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	0.001	0.0013	0.0012	0.001	0.001	0.0011	0.0013	0.0021	0.0022	0.004	0.0023	0.0021
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.001	<0.001	<0.001
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.01	<0.01	<0.0005	<0.0005	<0.0005	<0.00001	<0.00001	<0.0005	<0.0005	x	<0.001	<0.00001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.02	<0.001	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	x	x	x	x	x	x	x	x	x	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.001	<0.0002
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.01	<0.001
Acetone[1]	67-64-1	mg/L	-	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0344	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.005	<0.005	<0.005
Acrylonitrile[1]	107-13-1	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001	<0.001
Carbon Disulfide[1]	75-15-00	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.001	<0.001
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.00001	<0.00001	<0.0005	<0.0005	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0027	<0.001	0.0027	0.0033	0.003	0.004	0.0046	0.0043	0.006	0.0071	0.01	0.0083
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005	0.0008	0.0008	0.001	0.0011	0.0013	0.0011
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x	<0.001	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	<0.001	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0068	0.007	0.0065	0.0031	0.0039	0.006	0.0068	0.0071	0.0079	0.0065	0.0068	0.0072
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	<0.0005	<0.0005	<0.001	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.001	0.0012	0.0012	0.001	0.0009	0.001	0.0013	0.0016	0.0017	0.0016	0.0019	0.0018
Trichlorofluoromethane[1]	75-69-4	mg/L	-	0.0012	<0.001	0.0017	0.0023	0.0023	0.0032	0.0042	0.0039	0.0054	0.0055	0.0068	0.0067
Vinyl acetate[1]	108-05-4	mg/L	-	x	x	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.001	<0.0004
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.0001
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.0001
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	<0.1	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001	<0.0001
Benzoic acid[1]	65-85-0	mg/L						x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	<0.0001	<0.0001
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	0.001	0.0008	<0.02	<0.0001	<0.0001
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											
date				1/12/99	5/11/99	7/7/99	9/1/99	11/1/99	5/18/00	11/9/00	6/13/01	11/6/01	4/3/02	7/12/02	9/25/02
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.1	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.02	<0.0001	<0.0001
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.25	<0.001	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.02	<0.0001	<0.0001
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics							x								
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
4-Chloro-3-methylphenol (p-Chloro-m-cresol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.02	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.1	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	<0.00078	x	x
Radium 226 and 228	NA	pCi/L	5	1.15	1.43	1.74	1.79	1.34	0.72	1.64	0.89	1.14	x	3.114	1.648
Ra-226, total	NA	pCi/L	-	0.15	0.16	0.54	0.17	0.16	0.16	0.12	0.14	0.17	x	0.254	0.268
Ra-228[1], total	NA	pCi/L	-	1.00	1.27	1.2	1.62	1.18	0.56	1.52	0.75	0.97	x	2.86	1.38
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.00005	<0.00005	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	<0.00005	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001												
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.0005	<0.0005	<0.0005
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.003	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	<0.002	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Environmental Protection, subpart 803. Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concentrations.

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of antimony in the ground water sampled.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

*no sampling of MW-4 on 12/12/06 because pump was not working

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4												
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	6/21/07	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	6/19/12	12/19/12
Field Parameters																
water level elevation		ft amsl	-	3940.80	3939.63	3939.00	3937.17	3936.34	3935.21	3935.00	3936.25	3934.85	3938.34	3938.32	3937.37	3937.12
conductivity		µS/cm	-	578	625	540	601	676	690	720	690	869	790	827	750	790
pH		pH units	6-9	7.14	7.26	7.30	7.39	8.20	6.82	6.82	7.23	6.70	7.40	6.71	6.73	6.45
temperature		deg F	-	93.5	95.0	90.9	92.5	89.4	93.6	91.8	87.8	89.4	90.1	89.1	86.5	88.3
Major Ions																
calcium	7440-70-2	mg/L	-	72	78.9	79	87	100	92	100	96	110	120	120	95	110
chloride	16887-00-6	mg/L	250	10	7	7.3	6.9	6.3	6.7	6.6	6.3	7.8	6.1	6.3	6.4	6.3
fluoride[1]	16984-48-8	mg/L	1.6	0.49	0.3	<0.4	x	x	x	x	0.31	x	0.29	x	x	x
magnesium	7439-95-4	mg/L	-	9.5	10.1	9.7	12	13	12	14	13	15	16	15	12	13
potassium	7440-09-7	mg/L	-	2.7	2.8	2.3	2.4	3.1	2.4	2.9	2.5	2.6	2.9	3.0	3.0	2.9
sodium	82115-62-6	mg/L	-	31	32.1	28	31	36	33	38	31	35	35	37	62	54
sulfate	18785-72-3	mg/L	600	35	33	33	32	31	32	32	31	34	33	33	35	34
alkalinity	NA	mg/L	-	240	263	280	300	320	330	340	350	350	370	380	390	390
bicarbonate alkalinity	71-52-3	mg/L	-	240	262	280	300	320	330	340	350	350	370	380	390	390
carbonate alkalinity	3812-32-6	mg/L	-	x	<20	<2.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	320	350	340	370	430	440	440	450	454	472	468	490	484
Nitrogen Species																
ammonia as N	1331-21-6	mg/L	-	<0.05	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	0.52	<1	<1.0	x	x	x	x	<1.0	x	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	1.3	0.8	<1.0	1	<1.0	0.85	0.88	0.84	0.92	0.96	0.95	0.28	0.49
nitrite	14797-65-0	mg/L	-	<0.1	<0.1	<1.0	x	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	<1.0	x	x	x	x	x
Metals																
aluminum	7429-90-5	mg/L	5.0	<0.03	<0.03	<3.0	<3.0	x	x	x	<0.02	x	<0.02	x	x	x
antimony[1]	7440-36-0	mg/L	0.006	<0.004	<0.0004	<0.003	x	x	x	x	<0.001	<0.001	<0.001	<0.0025	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	<0.004	0.0008	<0.01	x	x	x	x	0.004	0.002	<0.001	<0.0025	<0.001	<0.001
barium[1]	7440-39-3	mg/L	1.0	0.063	0.0683	0.06	x	x	x	x	0.079	0.085	0.094	0.093	0.077	0.075
beryllium[1]	7440-41-7	mg/L	0.004	<0.001	<0.0002	<0.002	x	x	x	x	<0.003	x	<0.001	0.00041	<0.002	<0.002
boron	7440-42-8	mg/L	0.75	0.048	<0.1	<0.5	x	x	x	x	0.05	x	0.053	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.001	<0.0001	<0.002	x	x	x	x	<0.002	<0.0020	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	<0.002	0.0043	<0.01	x	x	x	x	<0.006	<0.0060	<0.006	0.0028	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	<0.001	0.00011	<0.03	x	x	x	x	<0.006	<0.0060	<0.006	0.0011	<0.006	<0.006
copper[1]	7440-50-8	mg/L	1.0	0.001	0.001	<0.06	x	x	x	x	<0.006	<0.0060	<0.006	0.0035	0.015	0.023
iron	7439-89-6	mg/L	1.0	<0.007	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.050	<0.05	0.099	<0.02	<0.02
lead[1]	7439-92-1	mg/L	0.05	<0.002	0.0007	<0.01	x	x	x	x	<0.005	<0.0050	<0.005	0.0068	0.015	0.012
manganese	7439-96-5	mg/L	0.2	0.005	<0.010	<0.03	<0.030	<0.03	<0.03	<0.03	0.003	0.006	0.002	0.0057	0.022	0.016
mercury[1]	7439-97-6	mg/L	0.002	<0.2	<0.0002	<0.001	x	x	x	x	<0.0002	x	<0.0002	x	x	x
molybdenum	7439-98-7	mg/L	1.0	<0.002	<0.010	<0.75	x	x	x	x	<0.008	x	<0.008	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	<0.002	0.00273	<0.05	x	x	x	x	<0.01	<0.010	<0.01	<0.0003	<0.01	0.0042
selenium[1]	7782-49-2	mg/L	0.05	<0.003	0.0011	<0.005	x	x	x	x	0.002	<0.001	<0.001	<0.0025	<0.001	<0.001
silver[1]	7440-22-4	mg/L	0.05	<0.002	<0.010	<0.01	x	x	x	x	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	<0.003	0.00005	<0.001	x	x	x	x	<0.001	<0.001	<0.001	<0.0025	<0.001	<0.001
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	<0.1	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.00766	0.009	<2.5	x	x	x	x	0.012	x	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	0.003	<0.050	<0.08	x	x	x	x	<0.05	<0.050	<0.05	0.0046	<0.05	<0.05
zinc	7440-66-6	mg/L	10.0	<0.008	<0.020	<0.05	x	x	x	x	<0.02	<0.020	<0.02	0.026	0.17	0.16
total organic carbon	-	mg/L	-	<1.0	<0.5	0.59	0.6	<0.5	<1.0	<1.0	1.5	1.3	<1.0	0.85	<1.0	0.72
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	<0.50	x	<0.50	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	3	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.005	<0.01	<0.1	x	x	x	x	<0.005	x	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.003	<0.005	<0.003	<0.003	<0.003	<0.003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	x	x	x	x	(^^)	x	x	x	x	x
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	0.0027	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	0.003	0.0037	0.0041	0.004	0.0039	0.0046
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00043	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	<0.0005	x	x	x	x	x	<0.005	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.00001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.001	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	x	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.01	<0.001	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.01	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	0.00043	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.015	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.01	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.025	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Acrolein[1]	107-02-8	mg/L	-	x	<0.025	x	x	x	x	x	<0.1	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.005	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.0005	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	0.00084	<0.001	0.00073
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	(#)	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.001	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.001	<0.002	<0.02	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.001	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	0.0008	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016	0.0027	0.0015	0.0027	0.0054	0.0044
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0071	0.0088	x	x	0.0085	0.0058	0.0051	0.007	0.0046	0.0051	0.0028	0.0040	0.0047
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	<0.01	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.001	<0.0005	x	x	x	x	x	<0.001	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	<0.05	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	<0.005	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

*no sampling of MW-4 on 12/12/06 because pump was not working

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4												
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	6/21/07	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	6/19/12	12/19/12
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.005	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	<0.03	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	0.0018	0.0025	0.002	<0.001	0.0051	0.0063	0.0068	0.007	0.0084	0.010	0.012	0.0063	0.010
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	<0.06	<0.01	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.001	<0.0005	x	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0071	0.0076	0.0078	<0.0005	0.01	0.0091	0.0092	0.0088	0.011	0.011	0.010	0.0095	0.0095
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	<0.010	x	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00018	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	0.00085	<0.002	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.0005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	0.00039	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.001	<0.010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0019	0.002	0.002	<0.001	0.003	0.003	0.0033	0.0031	0.0033	0.0032	0.0036	0.0036	0.0024
Trichlorofluoromethane[1]	75-69-4	mg/L	-	0.0062	0.0065	<0.01	<0.01	<0.01	<0.01	<0.01	0.0033	<0.001	0.0023	0.0013	0.0013	0.0016
Vinyl acetate[1]	108-05-4	mg/L	-	<0.001	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl Chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.00045	<0.0004	0.00064	<0.0004	<0.0004
Trihalomethanes (THM)																
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.0001	<0.005	<0.01	x	x	x	x	<0.001	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	<0.0002	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.0001	<0.010	<0.01	x	x	x	x	<0.001	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.0001	<0.005	<0.0001	x	x	x	x	<0.00005	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.00005	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.0001	<0.005	<0.01	x	x	x	x	<0.001	x	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

*no sampling of MW-4 on 12/12/06 because pump was not working

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4												
date				12/18/02	7/15/03	12/29/03	12/2/04	12/14/05	6/21/07	1/18/08	12/23/08	12/29/09	12/29/10	12/27/11	6/19/12	12/19/12
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.0001	<0.005	x	x	x	x	x	<0.001	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	<0.0001	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics																
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Chloro-3-methylphenol (p-Chloro-m-cresol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	2.564	0.8	<2.5	x	x	x	x	1.53					
Ra-226, total	NA	pCi/L	-	0.844	0.7	<2.5	x	x	x	x	0.13	x	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	1.72	0.1	<2.5	x	x	x	x	1.4	x	x	x	x	x
Chlorinated Pesticides																
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	<0.0002	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	<0.00004	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001													
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	x	x	x	x	<0.00025	x	x	x	x	x
Other Pesticides and Herbicides[1]																
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	<0.00130	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	<0.00005	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	<0.001	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requiremen

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concer

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of a

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/27/16	6/28/17	12/6/17	6/27/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Field Parameters																
water level elevation		ft amsl	-	3932.90	3932.20	3931.90	3931.93	3931.90	3931.70	3931.90	3931.86	3931.74	3931.54	3931.45	3947.37	1.72
conductivity		µS/cm	-	780	800	761	753	717	752	722	741	741	737	738	445.33	30.83
pH		pH units	6-9	6.41	6.60	6.09	6.20	6.27	6.64	6.73	6.75	6.75	6.89	6.67	7.22	0.17
temperature		deg F	-	93.9	92.1	91.6	91.6	102.0	91.2	92.7	92.3	92.3	91.8	91.9	91.27	2.23
Major Ions																
calcium	7440-70-2	mg/L	-	110	100	110	110	120	110	120	110	110	110	110	55.38	3.25
chloride	16887-00-6	mg/L	250	6.7	6.9	6.9	7.1	7.1	7.2	6.7	6.6	6.5	6.8	6.9	6.08	0.29
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	0.25	x	x	x	x	x	x	x	0.64	0.04
magnesium	7439-95-4	mg/L	-	15	14	15	13	15	15	15	15	15	14	14	6.87	0.33
potassium	7440-09-7	mg/L	-	3.1	3.0	2.8	2.7	2.6	2.6	2.7	2.8	2.7	2.6	2.7	2.28	0.53
sodium	82115-62-6	mg/L	-	32	33	32	30	32	32	33	32	31	31	32	27.08	2.51
sulfate	18785-72-3	mg/L	600	34	34	34	34	35	35	33	34	33	34	32	32.17	1.60
alkalinity	NA	mg/L	-	380	370	370	370	355.5	360.8	359.2	353.8	350.8	350.7	349.4	181.30	4.86
bicarbonate alkalinity	71-52-3	mg/L	-	380	370	370	370	355.5	360.8	359.2	353.8	350.8	350.7	349.4	214.70	18.63
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	x
total dissolved solids	NA	mg/L	1,000	471	473	463	458	463	472	443	463	466	449	452	270.50	7.71
Nitrogen Species																
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.01	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	<1.0	x	x	x	x	x	x	x	<0.1	x
nitrate as N	14797-55-8	mg/L	10	0.83	<1.0	0.34	0.86	0.96	1.2	0.94	0.97	0.99	0.96	<1.0	0.97	0.04
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	0.97	0.08
total nitrogen	-	mg/L	-	x	x	x	<1.0	x	x	x	x	x	x	x	x	x
Metals																
aluminum	7429-90-5	mg/L	5.0	x	x	x	<0.02	x	x	x	x	x	x	x	<0.05	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0004	x
arsenic[1]	7440-38-2	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008	0.0001
barium[1]	7440-39-3	mg/L	1.0	0.095	0.093	0.09	0.086	0.093	0.090	0.095	0.097	0.091	0.085	0.082	0.046	0.0015
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.003	<0.002	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0002	x
boron	7440-42-8	mg/L	0.75	x	x	x	0.049	x	x	x	x	x	x	x	0.0525	0.0150
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0001	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0019	0.0016
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.01	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	0.011	0.013	0.014	0.016	0.016	0.018	0.024	0.017	0.026	0.026	0.0007	0.0001
iron	7439-89-6	mg/L	1.0	<0.02	<0.02	<0.05	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	x
lead[1]	7439-92-1	mg/L	0.05	0.0018	0.0025	<0.005	0.0012	<0.005	0.0011	0.0014	0.0011	0.0012	0.0015	0.0016	0.0001	x
manganese	7439-96-5	mg/L	0.2	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0012	<0.002	0.0300	x
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	<0.0002	x	x	x	x	x	x	x	0.0003	x
molybdenum	7439-98-7	mg/L	1.0	x	x	x	<0.008	x	x	x	x	x	x	x	<0.05	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0029	0.0009
selenium[1]	7782-49-2	mg/L	0.05	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	0.0002
silver[1]	7440-22-4	mg/L	0.05	0.0067	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017	<0.005	<0.02	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0003	x
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	0.013	x	x	x	x	x	x	x	0.0052	0.0003
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0034	<0.05	0.0800	x
zinc	7440-66-6	mg/L	10.0	0.016	0.036	<0.02	0.013	<0.02	0.012	0.019	0.012	0.015	0.013	0.019	<0.01	x
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.5767	0.0404
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	x	x	x	x	x	x	x	x	<0.02	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	(^^)	x	x	x	x	x	x	x	<0.0005	x
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	0.0049	0.0042	0.0044	0.0036	0.0038	0.0037	0.0038	0.0041	0.0040	0.0039	0.0033	0.0011	0.0001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00018	<0.001	<0.0005	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.000018	<0.000094	<0.000019	<0.01	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
2-Hexanone (Butyl Ketone)1	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0018	<0.01	<0.002	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00068	<0.001	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	0.0023	0.0023	0.0021	0.0019	0.0023	0.0019	0.0022	0.0022	0.0023	0.0023	0.0023	<0.001	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0053	0.0040	0.0034	0.0047	0.0047	0.0028	0.0047	0.0036	0.0039	0.0026	0.0018	0.0031	0.0005
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000092	<0.0000094	<0.0000095	<0.001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/27/16	6/28/17	12/6/17	6/27/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	0.012	0.014	0.014	0.014	0.015	0.012	0.014	0.014	0.014	0.013	0.012	<0.002	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	x	x	x	x	x	x	<0.01	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.011	0.011	0.0089	0.0098	0.0099	0.0093	0.0090	0.0091	0.0097	0.0093	0.0084	0.0056	0.0016
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.001	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00059	<0.002	<0.001	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0046	0.0033	0.0032	0.0031	0.0032	0.0028	0.0037	0.0029	0.0031	0.0030	0.0027	0.0011	0.0001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	0.0023	0.0019	0.0014	0.0015	0.0016	0.0013	0.0014	0.0015	0.0013	0.0015	0.0011	0.0021	0.0008
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	x
Vinyl Chloride[1]	75-01-4	mg/L	0.001	0.00048	<0.0004	<0.0005	<0.0005	<0.0004	<0.0004	0.00043	<0.0004	<0.0004	0.0002	<0.0004	<0.001	x
Trihalomethanes (THM)																
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Semi Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	<0.002	x	x	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	<0.002	x	x	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (g,h,I) perylene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Benzo[a]pyrene[1]	50-32-8	mg/L	0.0002	x	x	x	<0.00007	x	x	x	x	x	x	x	<0.1	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x	x		
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
(bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dibenz(a,j)acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	<0.002	x	x	x	x	x	x	x	<1.0	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-4

Las Cruces Foothills Landfill monitoring well MW-4

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-4											baseline average	standard deviation
date				6/25/13	12/19/13	6/26/14	12/11/14	6/18/15	12/17/15	6/16/16	12/27/16	6/28/17	12/6/17	6/27/18	1/12/99 to 5/18/00	1/12/99 to 5/18/00
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.1	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	<0.25	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-trinitrobenzene, 1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics																
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Chloro-3-methylphenol (p-Chloro-m-cresol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5				1.73								1.36	0.397
Ra-226, total	NA	pCi/L	-	x	x	x	0.548	x	x	x	x	x	x	x	0.223	0.155
Ra-228[1], total	NA	pCi/L	-	x	x	x	1.18	x	x	x	x	x	x	x	1.138	0.349
Chlorinated Pesticides																
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
4,4'DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]		mg/L	0.001													
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	<0.00025	x	x	x	x	x	x	x	x	x
Other Pesticides and Herbicides[1]																
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
Silvex[1]	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requiremen

[1] hazardous

x parameter not analyzed

(^) See section entitled 'Semi volatile organic compounds - phenolics' for break-out of phenolics concer

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(") This concentration attributed to laboratory contamination of method blank and not the presence of a

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-5

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5							
date				7/15/03	8/27/03	9/29/03	10/29/03	11/25/03	12/29/03	12/2/04	12/14/05
Field Parameters											
water level elevation		ft amsl	-	3830.57	3830.29	3830.57	3830.69	3830.84	3831.01	3831.29	3831.96
conductivity		µS/cm	-	552	370	410	420	410	400	419	472
pH		pH units	6-9	7.83	7.90	7.60	7.80	7.80	7.60	8.19	7.90
temperature		deg F	-	114.8	111.2	106.2	107.6	108.0	107.4	113.7	102.0
Major Ions											
calcium	7440-70-2	mg/L	-	34.1	34	33	34	35	35	34	39
chloride	16887-00-6	mg/L	250	30	34	36	37	35	35	28	32
fluoride[1]	16984-48-8	mg/L	1.6	0.5	0.6	0.6	0.6	0.6	0.6	x	x
magnesium	7439-95-4	mg/L	-	4.72	4.3	4.4	4.3	4.4	4.7	4.6	5.2
potassium	7440-09-7	mg/L	-	2.9	2.2	2.4	2.4	2.4	2.2	2.2	2.8
sodium	82115-62-6	mg/L	-	47.3	45	42	45	45	42	42	50
sulfate	18785-72-3	mg/L	600	42	42	44	46	43	44	43	41
alkalinity	NA	mg/L	-	116	120	130	120	120	120	120	120
bicarbonate alkalinity	71-52-3	mg/L	-	115	120	130	120	120	120	120	120
carbonate alkalinity	3812-32-6	mg/L	-	<20	<2	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0
total dissolved solids	NA	mg/L	1,000	270	280	270	280	300	260	270	300
Nitrogen Species											
ammonia as N	1331-21-6	mg/L	-	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0	x	x
nitrate as N	14797-55-8	mg/L	10	2.3	2	2.1	2.1	2.0	2.2	2.4	2.3
nitrite	14797-65-0	mg/L	-	<0.1	2	2.1	2.1	2.0	2.2	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x
Metals											
aluminum	7429-90-5	mg/L	5.0	0.54	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	x
antimony[1]	7440-36-0	mg/L	0.006	<0.0004	<0.003	<0.003	<0.003	<0.003	<0.003	x	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0026	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
barium[1]	7440-39-3	mg/L	1.0	0.0649	0.06	0.06	0.05	0.06	0.06	x	x
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
boron	7440-42-8	mg/L	0.75	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
chromium[1]	7440-47-3	mg/L	0.05	0.0037	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
cobalt[1]	7440-48-4	mg/L	0.05	0.00012	<0.03	<0.03	<0.03	<0.03	<0.03	x	x
copper[1]	7440-50-8	mg/L	1.0	0.0009	<0.06	<0.06	<0.06	<0.06	<0.06	x	x
iron	7439-89-6	mg/L	1.0	0.45	<0.1	<0.1	<0.1	<0.1	<0.1	x	<0.1
lead[1]	7439-92-1	mg/L	0.05	0.0004	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
manganese	7439-96-5	mg/L	0.2	<0.010	<0.03	<0.03	<0.03	<0.03	<0.03	x	<0.03
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
molybdenum	7439-98-7	mg/L	1.0	<0.010	<0.75	<0.75	<0.75	<0.75	<0.75	x	x
nickel[1]	7440-02-0	mg/L	0.2	0.00171	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
selenium[1]	7782-49-2	mg/L	0.05	0.0021	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
silver[1]	7440-22-4	mg/L	0.05	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
thallium[1]	7440-28-0	mg/L	0.002	0.00005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
tin[1]	7440-31-5	mg/L	-	<0.10	x	x	x	x	<0.4	x	x
uranium[1]	7440-61-1	mg/L	0.03	<0.002	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
vanadium[1]	7440-62-2	mg/L	-	<0.050	<0.08	<0.08	<0.08	<0.08	<0.08	x	x
zinc	7440-66-6	mg/L	10.0	0.024	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
total organic carbon	-	mg/L	-	1	<1.0	<1.0	<1.0	<0.5	0.51	<0.5	<0.5
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	<0.1	x	x	x	x	<4.0	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	(^^)	(^^)	(^^)	x	x
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.0005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.01	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.0005	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.0005	x	x	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.0005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.0005	<0.0151	<0.015	<0.015	<0.015	<0.015	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	0.02	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.0005	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.025	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Acetone[1]	67-64-1	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetonitrile[1]	75-05-8	mg/L	-	<0.100	<0.100	<0.1	<0.1	<0.1	<0.1	x	x
Acrolein[1]	107-02-8	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Allyl chloride[1]	107-05-1	mg/L	-	x	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5							
date				7/15/03	8/27/03	9/29/03	10/29/03	11/25/03	12/29/03	12/2/04	12/14/05
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	75-03-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.0005	<0.001	<0.02	<0.02	<0.02	<0.02	x	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0027	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.01	<0.06	<0.06	<0.06	<0.06	<0.06	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.0005	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.005	x	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.0005	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0055	0.006	0.0062	0.006	0.0055	0.0058	<0.005	0.0055
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.01	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.0005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl acetate[1]	108-05-4	mg/L	-	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)											
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Chloroform[1]	67-66-3	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semi Volatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.005	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1-Chloronaphthalene	NA	mg/L	-	<0.005	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Picoline	109-06-8	mg/L	-	<0.01	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acetophenone[1]	98-86-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.01	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	<0.01	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzidine[1]	92-87-5	mg/L	-	<0.05	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Benzoic acid[1]	65-85-0	mg/L		<0.05	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5							
date				7/15/03	8/27/03	9/29/03	10/29/03	11/25/03	12/29/03	12/2/04	12/14/05
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Carbazole	86-74-8	mg/L	-	<0.005	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diallate[1]	2303-16-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	<0.01	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isophorone[1]	78-59-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isosafrole[1]	120-58-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.02	<0.04	<0.04	<0.04	<0.04	<0.04	x	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Phenacetin[1]	62-44-2	mg/L	-	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pronamide[1]	23950-58-5	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pyridine	110-86-1	mg/L	-	<0.01	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Semi Volatile Organic Compounds - Phenolics											
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
Radium 226 and 228	NA	pCi/L	5	1.0							
Ra-226, total	NA	pCi/L	-	0.6	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
Ra-228[1], total	NA	pCi/L	-	0.4	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
Chlorinated Pesticides											
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
aldrin[1]	309-00-2	mg/L	-	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
alpha-BHC[1]	319-84-6	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	<0.0001	alpha +	alpha +	alpha +	alpha +	alpha +	x	x
beta-BHC[1]	319-85-7	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Dieldrin[1]	60-57-1	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5							
date				7/15/03	8/27/03	9/29/03	10/29/03	11/25/03	12/29/03	12/2/04	12/14/05
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endrin ketone	53494-70-5	mg/L	-	<0.00002	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
gamma-BHC[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	<0.0001	see above	see above	see above	see above	see above	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Heptachlor[1]	76-44-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Isodrin[1]	465-73-6	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Kepone[1]	143-50-0	mg/L	-	<0.025	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001								
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Other Pesticides and Herbicides[1]											
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dimethoate[1]	60-51-5	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Dinoseb[1]	88-85-7	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Disulfoton[1]	298-04-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Famphur[1]	52-58-7	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Phorate[1]	298-02-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	<0.02	<0.02	<0.02	<0.02	<0.02	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Environmental Protection, subpart 803. Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5								
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12	6/26/13
Field Parameters												
water level elevation		ft amsl	-	3832.49	3834.95	3837.62	3838.38	3844.08	3843.72	3843.47	3841.11	3841.15
conductivity		µS/cm	-	430	430	410	539	500	468	420	440	440
pH		pH units	6-9	7.70	7.46	7.82	7.40	7.67	7.28	7.43	7.23	6.92
temperature		deg F	-	108.0	97.3	104.2	95.7	104.9	100.6	83.3	91.4	111.0
Major Ions												
calcium	7440-70-2	mg/L	-	37	37	31	36	41	37	34	36	34
chloride	16887-00-6	mg/L	250	32	29	28	27	35	28	26	26	26
fluoride[1]	16984-48-8	mg/L	1.6	x	x	0.59	x	0.58	x	x	x	x
magnesium	7439-95-4	mg/L	-	5	5	4.3	4.8	5.6	4.9	4.8	4.8	4.4
potassium	7440-09-7	mg/L	-	2.8	2.5	2.1	2.4	2.6	2.5	2.6	2.5	2.5
sodium	82115-62-6	mg/L	-	48	46	41	44	51	46	47	48	45
sulfate	18785-72-3	mg/L	600	43	43	41	46	48	47	47	45	46
alkalinity	NA	mg/L	-	110	110	120	110	120	120	120	110	110
bicarbonate alkalinity	71-52-3	mg/L	-	110	110	120	110	120	120	120	110	110
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	290	280	280	272	310	289	288	274	289
Nitrogen Species												
ammonia as N	1331-21-6	mg/L	-	<0.5	<0.5	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	<1.0	x	x	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	3	2.8	2.7	3.3	2.8	3.4	3.4	3.4	3.6
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	x	2.7	x	x	x	x	x	x
Metals												
aluminum	7429-90-5	mg/L	5.0	x	x	<0.02	x	0.02	x	x	x	x
antimony[1]	7440-36-0	mg/L	0.006	x	x	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	x	x	0.008	0.004	0.00187	0.002	0.0021	0.0019	0.0027
barium[1]	7440-39-3	mg/L	1.0	x	x	0.054	0.057	0.067	0.059	0.061	0.057	0.059
beryllium[1]	7440-41-7	mg/L	0.004	x	x	<0.003	x	<0.001	0.0003	<0.002	<0.002	<0.002
boron	7440-42-8	mg/L	0.75	x	x	0.041	x	0.047	x	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	x	x	<0.002	<0.0020	<0.002	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	x	x	<0.006	0.026	<0.006	0.00062	<0.006	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	x	x	<0.006	<0.0060	<0.006	0.00081	<0.006	<0.006	<0.006
copper[1]	7440-50-8	mg/L	1.0	x	x	<0.006	<0.0060	<0.006	<0.006	<0.006	<0.006	<0.006
iron	7439-89-6	mg/L	1.0	<0.1	<0.1	<0.05	0.31	<0.05	<0.02	0.028	<0.02	<0.02
lead[1]	7439-92-1	mg/L	0.05	x	x	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.001
manganese	7439-96-5	mg/L	0.2	<0.03	<0.03	<0.002	0.0045	<0.002	0.00035	<0.002	<0.002	<0.002
mercury[1]	7439-97-6	mg/L	0.002	x	x	<0.0002	x	<0.0002	x	x	x	x
molybdenum	7439-98-7	mg/L	1.0	x	x	<0.008	x	<0.008	x	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	x	x	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
selenium[1]	7782-49-2	mg/L	0.05	x	x	0.001	<0.001	<0.001	0.0012	0.0015	<0.001	0.0022
silver[1]	7440-22-4	mg/L	0.05	x	x	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	x	x	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tin[1]	7440-31-5	mg/L	-	x	x	<0.1	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	0.002	x	x	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	x	x	<0.05	<0.050	<0.05	0.0088	<0.05	<0.05	<0.05
zinc	7440-66-6	mg/L	10.0	x	x	<0.02	<0.020	<0.02	0.00064	<0.01	<0.01	<0.01
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.1
phosphate	14265-44-2	mg/L	-	x	x	<0.50	x	<0.50	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	2	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	<0.005	x	x	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	(^^)	x	x	x	x	x	x
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	x	x	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	<0.005	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	<0.001	<0.001	x	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	<0.01	x	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	<0.015	x	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	0.02	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	0.0021	<0.01	<0.01	<0.01
Acetonitrile[1]	75-05-8	mg/L	-	x	x	<0.1	x	x	x	x	x	x
Acrolein[1]	107-02-8	mg/L	-	x	x	<0.1	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.2	<0.2	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Allyl chloride[1]	107-05-1	mg/L	-	x	x	<0.01	x	x	x	x	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	(#)	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5								
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12	6/26/13
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.005	<0.005	<0.005	<0.001	<0.001	0.00028	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	x	x	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	x	<0.005	0.0024	0.002	<0.001	0.0016	0.0016	0.0018	0.0018
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	<0.01	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.000025	<0.000025	<0.00001	<0.00001	<0.00001	0.000005	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	<0.05	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	<0.005	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	<0.03	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	<0.06	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	<0.001	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0041	0.0043	0.0042	0.005	0.0039	0.0041	0.0041	0.0034	0.0046
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.005	<0.005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.00044	<0.001	<0.001	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	0.00034	<0.001	<0.001	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)												
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.015	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	<0.0002	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	<0.00005	x	x	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5								
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12	6/26/13
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	<0.0001	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	<0.0001	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	<0.0001	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	<0.001	x	x	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	<0.0001	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics												
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	<0.001	x	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	0.3								
Ra-226, total	NA	pCi/L	-	x	x	0.14	x	x	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	x	x	0.16	x	x	x	x	x	x
Chlorinated Pesticides												
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	<0.0002	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	<0.00004	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-5								
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12	6/26/13
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	<0.00004	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001									
Arochlor-1016	12674-11-2	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	<0.00025	x	x	x	x	x	x
Other Pesticides and Herbicides[1]												
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	<0.000934	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	<0.001	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	x	<0.00005	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	<0.001	x	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in E

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS					baseline average	standard deviation
date				6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Field Parameters									
water level elevation		ft amsl	-	3837.85	3836.72	3837.45	3836.20	3,830.75	0.33
conductivity		µS/cm	-	418	449	459	468	425.86	58.14
pH		pH units	6-9	7.37	7.45	7.56	7.58	7.82	0.20
temperature		deg F	-	115.0	115.0	111.0	113.5	109.85	3.39
Major Ions									
calcium	7440-70-2	mg/L	-	37	39	39	37	34.16	0.69
chloride	16887-00-6	mg/L	250	24	25	26	29	33.57	3.31
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	x	0.58	0.04
magnesium	7439-95-4	mg/L	-	4.7	5.1	4.9	4.6	4.49	0.18
potassium	7440-09-7	mg/L	-	2.4	2.6	2.4	2.4	2.39	0.25
sodium	82115-62-6	mg/L	-	47	48	47	44	44.04	2.08
sulfate	18785-72-3	mg/L	600	47	50	44	46	43.43	1.40
alkalinity	NA	mg/L	-	108.9	106.6	107.7	106.0	120.86	4.30
bicarbonate alkalinity	71-52-3	mg/L	-	108.9	106.6	107.7	106.0	120.71	4.50
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	x
total dissolved solids	NA	mg/L	1,000	265	301	289	302	275.71	12.72
Nitrogen Species									
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<0.5	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	x	<1.0	x
nitrate as N	14797-55-8	mg/L	10	4.7	4.9	5.1	5.0	2.16	0.151
nitrite	14797-65-0	mg/L	-	x	x	x	x	2.08	0.084
total nitrogen	-	mg/L	-	x	x	x	x	x	x
Metals									
aluminum	7429-90-5	mg/L	5.0	x	x	x	x	<3.0	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.003	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0022	0.0025	0.0021	0.0016	0.0026	x
barium[1]	7440-39-3	mg/L	1.0	0.060	0.064	0.062	0.062	0.06	0.005
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	x
boron	7440-42-8	mg/L	0.75	x	x	x	x	<0.5	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	0.0037	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	0.0001	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	0.0009	x
iron	7439-89-6	mg/L	1.0	<0.02	0.023	<0.02	<0.02	0.45	x
lead[1]	7439-92-1	mg/L	0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.0004	x
manganese	7439-96-5	mg/L	0.2	<0.002	<0.002	<0.002	<0.002	<0.03	x
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	x	<0.001	x
molybdenum	7439-98-7	mg/L	1.0	x	x	x	x	<0.75	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	0.0017	x
selenium[1]	7782-49-2	mg/L	0.05	<0.005	<0.005	0.0013	0.0010	0.0021	x
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.01	x
thallium[1]	7440-28-0	mg/L	0.002	<0.0005	<0.0005	<0.0005	<0.0005	0.0001	x
tin[1]	7440-31-5	mg/L	-	x	x	x	x	<0.4	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	x	<2.5	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.08	x
zinc	7440-66-6	mg/L	10.0	<0.01	<0.01	<0.01	<0.01	0.02	x
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	0.20	0.76	0.346
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	<4.0	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	x	<0.1	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.003	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	x	(^^)	(^^)
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.002	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	<0.005	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.00002	<0.00002	<0.000019	<0.000095	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	<0.0005	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	<0.0005	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	<0.01	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	<0.01	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.015	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	<0.015	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	<0.0005	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	<0.05	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	<0.0005	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	0.0017	<0.015	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.1	x
Acetonitrile[1]	75-05-8	mg/L	-	x	x	x	x	<0.1	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	<0.1	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.2	x
Allyl chloride[1]	107-05-1	mg/L	-	x	x	x	x	<0.01	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	0.000096	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS					baseline average	standard deviation
date				6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.02	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.1	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.002	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.005	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.01	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	<0.05	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	0.0005	<0.005	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0025	0.0021	0.0022	0.0016	<0.005	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	<0.01	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.005	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.00001	<0.0000095	<0.0000095	<0.000025	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	<0.01	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	<0.05	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	<0.0005	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	<0.005	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.04	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	<0.03	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.001	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	<0.0005	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	<0.06	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	<0.0005	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	<0.0005	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.01	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	<0.005	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	<0.0005	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0057	0.0056	0.0061	0.0059	0.0058	0.0003
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	<0.01	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	0.019	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.005	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.002	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.01	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.1	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	0.00078	<0.001	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	0.00097	<0.01	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.05	x
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	x
Trihalomethanes (THM)									
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.005	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.015	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.005	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.005	x
Semi Volatile Organic Compounds									
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	<0.01	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	<0.005	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	<0.01	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	<0.005	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	<0.01	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	<0.01	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	<0.005	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	<0.005	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	x	x	x	<0.02	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	<0.01	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	<0.01	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	<0.01	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	<0.01	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	<0.01	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	<0.01	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	<0.01	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	<0.01	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	<0.05	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	<0.02	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	<0.01	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	<0.02	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	<0.01	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	<0.02	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	<0.01	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	<0.01	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	<0.01	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	<0.01	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	<0.01	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	<0.01	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	<0.01	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	<0.05	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	<0.01	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	x	x	x	x	<0.02	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	x	x	x	<0.01	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	x	x	x	<0.02	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	<0.05	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	<0.01	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	<0.01	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS					baseline average	standard deviation
date				6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	<0.01	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	<0.01	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	<0.02	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	<0.01	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	<0.005	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	<0.01	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	<0.01	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	<0.01	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	<0.01	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	<0.01	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	<0.01	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	<0.01	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	<0.01	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	<0.01	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	<0.01	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	<0.01	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	<0.02	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	<0.01	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	<0.01	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	<0.001	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	<0.01	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	<0.05	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	<0.01	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	<0.01	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	<0.01	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	<0.01	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	<0.02	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	<0.02	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	<0.01	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	x	<0.01	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	<0.01	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	<0.02	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	<0.002	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	<0.01	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	<0.01	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	<0.005	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	<0.01	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	<0.02	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	<0.04	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	<0.002	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	<0.01	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	<0.01	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	<0.02	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	<0.01	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	<0.001	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	<0.01	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	<0.01	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	<0.01	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	<0.01	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	<0.01	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	<0.01	x
Semi Volatile Organic Compounds - Phenolics									
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	<0.01	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	<0.01	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	<0.01	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	<0.01	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	<0.01	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	<0.05	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	<0.01	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	<0.01	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	<0.01	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	<0.01	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	<0.02	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	<0.05	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	<0.005	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	<0.05	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	<0.02	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	<0.01	x
Radium 226 and 228	NA	pCi/L	5						
Ra-226, total	NA	pCi/L	-	x	x	x	x	<2.5	x
Ra-228[1], total	NA	pCi/L	-	x	x	x	x	<2.5	x
Chlorinated Pesticides									
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	<0.001	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	<0.001	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	<0.001	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	<0.01	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	<0.0001	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	alpha +	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	<0.0001	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	<0.0001	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	<0.001	x

APPENDIX B

Las Cruces Foothills Landfill MW-5

Las Cruces Foothills Landfill monitoring well MW-5

constituent	CAS Number	unit	GWPS					baseline average	standard deviation
date				6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	<0.001	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	<0.001	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	<0.001	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	<0.001	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	<0.00002	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	<0.001	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	<0.0001	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	see above	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	<0.001	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	<0.001	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	<0.02	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	<0.02	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	<0.01	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	<0.001	x
Polychlorinated Biphenyls (PCBs)[1]			0.001						
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	<0.0005	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	<0.0005	x
Other Pesticides and Herbicides[1]									
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	<0.002	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	<0.01	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	<0.02	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	<0.02	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	<0.01	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	<0.02	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	<0.01	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	<0.01	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	<0.01	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	<0.01	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	x	x	x	<0.002	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	<0.02	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in E

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-6

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05
Field Parameters											
water level elevation		ft amsl	-	3832.03	3831.47	3831.47	3831.72	3831.96	3832.09	3832.52	3832.98
conductivity		µS/cm	-	pumped dry	410	440	530	440	430	438	481
pH		pH units	6-9	7.59	7.80	7.80	7.21	7.70	7.50	8.00	7.60
temperature		deg F	-	pumped dry	105.4	103.1	108.0	107.8	100.9	93.38	100.0
Major Ions											
calcium	7440-70-2	mg/L	-	46.5	44	46	50	43	47	45	47
chloride	16887-00-6	mg/L	250	19.0	17	18	18	17	18	15	15
fluoride[1]	16984-48-8	mg/L	1.6	0.6	0.5	0.5	0.6	0.5	0.48	x	x
magnesium	7439-95-4	mg/L	-	5.48	4.9	5.3	5.2	4.6	5	5.3	5.3
potassium	7440-09-7	mg/L	-	3.2	2.3	2.5	2.8	2.3	2.4	2.3	2.7
sodium	82115-62-6	mg/L	-	45.6	34	37	44	37	39	39	41
sulfate	18785-72-3	mg/L	600	87	94	88	88	76	85	77	68
alkalinity	NA	mg/L	-	110	120	110	110	110	110	110	110
bicarbonate alkalinity	71-52-3	mg/L	-	110	120	110	110	110	110	110	110
carbonate alkalinity	3812-32-6	mg/L	-	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0
total dissolved solids	NA	mg/L	1,000	330	330	310	330	320	310	300	320
Nitrogen Species											
ammonia as N	1331-21-6	mg/L	-	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Kjeldahl nitrogen	7727-37-9	mg/L	-	2	<1.0	<1.0	<1.0	<1.0	<1.0	x	x
nitrate as N	14797-55-8	mg/L	10	3.6	3.4	3.8	3.8	3.8	3.8	3.5	3
nitrite	14797-65-0	mg/L	-	<0.1	3.4	3.8	3.8	3.8	3.8	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x
Metals											
aluminum	7429-90-5	mg/L	5.0	0.09	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	x
antimony[1]	7440-36-0	mg/L	0.006	<0.0004	<0.003	<0.003	<0.003	<0.003	<0.003	x	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
barium[1]	7440-39-3	mg/L	1.0	0.0361	0.07	0.08	0.06	0.06	0.06	x	x
beryllium[1]	7440-41-7	mg/L	0.004	<0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
boron	7440-42-8	mg/L	0.75	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
chromium[1]	7440-47-3	mg/L	0.05	0.0004	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
cobalt[1]	7440-48-4	mg/L	0.05	0.00009	<0.03	<0.03	<0.03	<0.03	<0.03	x	x
copper[1]	7440-50-8	mg/L	1.0	0.0005	<0.06	<0.06	<0.06	<0.06	<0.06	x	x
iron	7439-89-6	mg/L	1.0	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
lead[1]	7439-92-1	mg/L	0.05	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
manganese	7439-96-5	mg/L	0.2	0.032	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
molybdenum	7439-98-7	mg/L	1.0	<0.010	<0.75	<0.75	<0.75	<0.75	<0.75	x	x
nickel[1]	7440-02-0	mg/L	0.2	0.00162	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
selenium[1]	7782-49-2	mg/L	0.05	0.0013	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
silver[1]	7440-22-4	mg/L	0.05	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
thallium[1]	7440-28-0	mg/L	0.002	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
tin[1]	7440-31-5	mg/L	-	<0.10	x	x	x	x	<0.4	x	x
uranium[1]	7440-61-1	mg/L	0.03	<0.002	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
vanadium[1]	7440-62-2	mg/L	-	<0.050	<0.08	<0.08	<0.08	<0.08	<0.08	x	x
zinc	7440-66-6	mg/L	10.0	0.024	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
total organic carbon	-	mg/L	-	<0.5	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	<0.1	x	x	x	x	<4.0	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	0.030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	(^^)	(^^)	(^^)	x	x
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.0005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.010	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.0005	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.0005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.0005	<0.0151	<0.015	<0.015	<0.015	<0.015	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.0005	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.025	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Acetone[1]	67-64-1	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetonitrile[1]	75-05-8	mg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	x	x
Acrolein[1]	107-02-8	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Allyl chloride[1]	107-05-1	mg/L	-	x	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	75-03-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	0.0006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.0005	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0052	0.0068	<0.005	0.0079	0.0074	0.0068	x	0.005
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.0005	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.0005	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.0005	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.005	x	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.0005	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0104	0.012	0.012	0.012	0.012	0.012	0.011	0.01
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.010	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	0.0047	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.0005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0009	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl acetate[1]	108-05-4	mg/L	-	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)											
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Chloroform[1]	67-66-3	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semi Volatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.005	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1-Chloronaphthalene	NA	mg/L	-	<0.005	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.050	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
2-Picoline	109-06-8	mg/L	-	<0.010	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.050	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.050	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Acetophenone[1]	98-86-2	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.010	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	<0.010	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzidine[1]	92-87-5	mg/L	-	<0.050	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Benzoic acid[1]	65-85-0	mg/L		<0.050	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.020	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Carbazole	86-74-8	mg/L	-	<0.005	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diallate[1]	2303-16-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	<0.010	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isophorone[1]	78-59-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Isosafrole[1]	120-58-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.02	<0.04	<0.04	<0.04	<0.04	<0.04	x	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Phenacetin[1]	62-44-2	mg/L	-	<0.020	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pronamide[1]	23950-58-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Pyridine	110-86-1	mg/L	-	<0.010	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Semi Volatile Organic Compounds - Phenolics											
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	<0.02	<0.02	<0.02	<0.02	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
Radium 226 and 228	NA	pCi/L	5	0.9							
Ra-226, total	NA	pCi/L	-	0.9	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
Ra-228[1], total	NA	pCi/L	-	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	x	x
Chlorinated Pesticides											
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
aldrin[1]	309-00-2	mg/L	-	<0.0001	<0.01	<0.0.1	<0.0.1	<0.0.1	<0.0.1	x	x
alpha-BHC[1]	319-84-6	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	<0.0001	alpha +	alpha +	alpha +	alpha +	alpha +	x	x
beta-BHC[1]	319-85-7	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
Dieldrin[1]	60-57-1	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Endrin ketone	53494-70-5	mg/L	-	<0.00002	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
gamma-BHC[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	<0.0001	see above	see above	see above	see above	see above	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Heptachlor[1]	76-44-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Isodrin[1]	465-73-6	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Kepone[1]	143-50-0	mg/L	-	<0.025	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001								
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x
Other Pesticides and Herbicides[1]											
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	<1.30	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Dimethoate[1]	60-51-5	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Dinoseb[1]	88-85-7	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Disulfoton[1]	298-04-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Famphur[1]	52-58-7	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Phorate[1]	298-02-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	<0.02	<0.02	<0.02	<0.02	<0.02	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Environmental Protection, subpart 803. Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(**^^**) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12
Field Parameters											
water level elevation		ft amsl	-	3833.46	3835.92	3838.67	3847.07	3844.37	3844.53	3845.07	3842.63
conductivity		µS/cm	-	440	420	390	532	420	403	380	400
pH		pH units	6-9	7.60	7.41	7.69	7.28	7.68	7.33	7.29	6.99
temperature		deg F	-	103.5	103.1	105.1	102.6	105.8	102.6	81.3	81.5
Major Ions											
calcium	7440-70-2	mg/L	-	41	40	36	40	40	40	37	39
chloride	16887-00-6	mg/L	250	13	13	11	13	11	12	11	11
fluoride[1]	16984-48-8	mg/L	1.6	x	x	0.56	x	0.55	x	x	x
magnesium	7439-95-4	mg/L	-	4.9	4.7	4.2	4.7	4.7	4.6	4.5	4.5
potassium	7440-09-7	mg/L	-	2.2	2.3	2	2.3	2.3	2.4	2.2	2.4
sodium	82115-62-6	mg/L	-	38	36	34	37	37	37	36	37
sulfate	18785-72-3	mg/L	600	64	62	52	57	48	45	50	49
alkalinity	NA	mg/L	-	110	110	120	110	120	120	120	120
bicarbonate alkalinity	71-52-3	mg/L	-	110	110	120	110	120	120	120	120
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	290	280	280	276	277	269	261	257
Nitrogen Species											
ammonia as N	1331-21-6	mg/L	-	<0.5	<0.5	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	<1.0	x	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	3	3	2.5	2.7	2.7	2.9	2.9	3.2
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	x	2.5	x	x	x	x	x
Metals											
aluminum	7429-90-5	mg/L	5.0	x	x	<0.02	x	<0.020	x	x	x
antimony[1]	7440-36-0	mg/L	0.006	x	x	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	x	x	0.007	0.003	0.00164	0.0016	0.0016	0.0015
barium[1]	7440-39-3	mg/L	1.0	x	x	0.055	0.055	0.057	0.058	0.057	0.055
beryllium[1]	7440-41-7	mg/L	0.004	x	x	<0.003	x	<0.001	0.00038	<0.002	<0.002
boron	7440-42-8	mg/L	0.75	x	x	<0.04	x	<0.04	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	x	x	<0.002	<0.0020	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	x	x	<0.006	<0.0060	<0.006	<0.006	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	x	x	<0.006	<0.0060	<0.006	0.00079	<0.006	<0.006
copper[1]	7440-50-8	mg/L	1.0	x	x	0.0084	<0.0060	<0.006	<0.006	<0.006	<0.006
iron	7439-89-6	mg/L	1.0	<0.1	<0.1	<0.05	<0.05	<0.05	0.012	<0.02	<0.02
lead[1]	7439-92-1	mg/L	0.05	x	x	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
manganese	7439-96-5	mg/L	0.2	<0.03	<0.03	0.0059	0.0057	0.0057	0.0064	0.0059	0.0054
mercury[1]	7439-97-6	mg/L	0.002	x	x	<0.0002	x	<0.0002	x	x	x
molybdenum	7439-98-7	mg/L	1.0	x	x	<0.008	x	<0.008	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	x	x	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
selenium[1]	7782-49-2	mg/L	0.05	x	x	0.001	<0.001	<0.001	0.0011	0.0011	<0.001
silver[1]	7440-22-4	mg/L	0.05	x	x	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	x	x	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tin[1]	7440-31-5	mg/L	-	x	x	<0.1	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	0.002	x	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	x	x	<0.05	<0.05	<0.05	0.0087	<0.05	<0.05
zinc	7440-66-6	mg/L	10.0	x	x	<0.02	<0.02	<0.02	0.012	<0.01	<0.01
total organic carbon	-	mg/L	-	2.6	<1.0	3.5	1.2	1.0	1.1	<1.0	<1.0
phosphate	14265-44-2	mg/L	-	x	x	<0.50	x	<0.50	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	3	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	<0.005	x	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	<0.001	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	(^^)	x	x	x	x	x
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	<0.005	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	<0.001	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	<0.001	<0.001	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	<0.01	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	<0.015	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile[1]	75-05-8	mg/L	-	x	x	<0.1	x	x	x	x	x
Acrolein[1]	107-02-8	mg/L	-	x	x	<0.1	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.2	<0.2	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01
Allyl chloride[1]	107-05-1	mg/L	-	x	x	<0.01	x	x	x	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	(#)	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002	<0.002

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.02	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.005	<0.005	<0.005	<0.001	<0.001	0.00045	<0.001	<0.001
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	<0.005	<0.005	0.0045	0.0043	0.0037	0.0031	0.0030	0.0036
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	<0.01	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.000025	<0.000025	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	<0.001	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	<0.05	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	<0.005	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.04	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	<0.03	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	<0.06	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	<0.001	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0072	0.0076	0.0078	0.0085	0.0073	0.0068	0.0072	0.0061
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.005	<0.005	<0.005	<0.001	<0.001	0.00016	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.005	<0.005	<0.005	<0.002	<0.002	0.0003	<0.002	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0013	<0.001	<0.001	<0.001	<0.001	0.00076	<0.001	<0.001
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.01	<0.01	<0.01	<0.001	<0.001	0.00074	<0.001	<0.001
Vinyl acetate[1]	108-05-4	mg/L	-	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)											
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Bromoform[1]	75-25-2	mg/L	-	<0.015	<0.015	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroform[1]	67-66-3	mg/L	0.1	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Semi Volatile Organic Compounds											
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	<0.001	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	<0.001	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	<0.001	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	<0.001	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	<0.0002	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	<0.001	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	x	<0.001	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	<0.001	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	<0.001	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	<0.001	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	<0.001	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	<0.001	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	<0.001	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	<0.001	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	<0.001	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	<0.001	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	<0.001	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	x	<0.001	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	<0.00005	x	x	x	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	x	x	<0.00005	x	x	x	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	x	<0.00005	x	x	x	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	<0.00005	x	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	<0.001	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	<0.001	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	<0.001	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	<0.001	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	x	<0.001	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	<0.001	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	x	<0.00005	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	x	<0.001	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	<0.00005	x	x	x	x	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	<0.001	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	<0.001	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	<0.001	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	<0.001	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	<0.001	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	<0.001	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	<0.0001	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	<0.001	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	<0.001	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	<0.001	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	<0.0001	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	<0.00005	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	x	<0.001	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	<0.001	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	<0.001	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	<0.001	x	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	<0.001	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	<0.001	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	<0.001	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	<0.001	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	<0.001	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	<0.001	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	x	<0.001	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	x	<0.001	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	<0.0001	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	<0.001	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics											
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	<0.001	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	<0.001	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	<0.001	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	<0.001	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	<0.001	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	<0.001	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	<0.001	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	<0.001	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	0.45							
Ra-226, total	NA	pCi/L	-	x	x	0.2	x	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	x	x	0.25	x	x	x	x	x
Chlorinated Pesticides											
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	<0.00004	x	x	x	x	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	<0.00004	x	x	x	x	x
aldrin[1]	309-00-2	mg/L	-	x	x	<0.00004	x	x	x	x	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	<0.00004	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	<0.00004	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	<0.0002	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	<0.00004	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	<0.00004	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-6							
date				12/12/06	1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/20/12
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	<0.00004	x	x	x	x	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	<0.00004	x	x	x	x	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	<0.00004	x	x	x	x	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	<0.00004	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	x	<0.001	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	x	<0.001	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	<0.00004	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001								
Arochlor-1016	12674-11-2	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	<0.00025	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	<0.00025	x	x	x	x	x
Other Pesticides and Herbicides[1]											
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	<0.000717	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	<0.00005	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	<0.00005	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	<0.001	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	<0.00005	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	<0.001	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	x	<0.001	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	<0.001	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	<0.001	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	x	<0.001	x	x	x	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	x	<0.00005	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	<0.001	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Enviror

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS						baseline average	standard deviation
date				6/26/13	6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Field Parameters										
water level elevation		ft amsl	-	3838.22	3837.12	3836.60	3837.03	3836.60	3,831.89	0.37
conductivity		µS/cm	-	400	385	393	404	404	448.00	41.76
pH		pH units	6-9	7.56	7.15	7.34	7.42	7.38	7.66	0.25
temperature		deg F	-	107.4	115.0	111.9	111.9	115.0	103.10	5.49
Major Ions										
calcium	7440-70-2	mg/L	-	38	40	40	41	38	45.93	2.28
chloride	16887-00-6	mg/L	250	11	12	11	12	12	17.43	1.27
fluoride[1]	16984-48-8	mg/L	1.6	x	x	x	x	x	0.53	0.05
magnesium	7439-95-4	mg/L	-	4.3	4.6	4.5	4.6	4.2	5.11	0.30
potassium	7440-09-7	mg/L	-	2.3	2.3	2.3	2.2	2.3	2.54	0.34
sodium	82115-62-6	mg/L	-	35	37	36	36	35	39.37	4.09
sulfate	18785-72-3	mg/L	600	49	45	44	44	47	85.00	6.43
alkalinity	NA	mg/L	-	120	120.8	120.8	124.8	119.5	111.43	3.78
bicarbonate alkalinity	71-52-3	mg/L	-	120	120.8	120.8	124.8	119.5	111.43	3.78
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	x
total dissolved solids	NA	mg/L	1,000	266	256	268	265	273	318.57	12.15
Nitrogen Species										
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	x	x	x	x	2.00	x
nitrate as N	14797-55-8	mg/L	10	3.3	3.5	3.5	3.0	3.6	3.67	0.17
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	3.72	0.18
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x
Metals										
aluminum	7429-90-5	mg/L	5.0	x	x	x	x	x	0.09	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	x
arsenic[1]	7440-38-2	mg/L	0.01	0.002	0.0016	0.0017	0.0014	0.0012	0.0005	x
barium[1]	7440-39-3	mg/L	1.0	0.061	0.057	0.058	0.058	0.056	0.06	0.01
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
boron	7440-42-8	mg/L	0.75	x	x	x	x	x	<0.5	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	0.0004	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	0.0001	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	<0.006	0.0005	x
iron	7439-89-6	mg/L	1.0	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	x
lead[1]	7439-92-1	mg/L	0.05	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	x
manganese	7439-96-5	mg/L	0.2	0.0081	0.0035	0.0038	0.0040	0.0026	0.03	x
mercury[1]	7439-97-6	mg/L	0.002	x	x	x	x	x	<0.001	x
molybdenum	7439-98-7	mg/L	1.0	x	x	x	x	x	<0.75	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.0016	x
selenium[1]	7782-49-2	mg/L	0.05	0.0018	<0.001	<0.001	<0.001	<0.001	0.0013	x
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	x
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	<0.4	x
uranium[1]	7440-61-1	mg/L	0.03	x	x	x	x	x	<2.5	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	0.0070	<0.08	x
zinc	7440-66-6	mg/L	10.0	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	x
total organic carbon	-	mg/L	-	1.6	<1.0	<1.0	1.1	<1.0	<0.5	x
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	<4.0	x
cyanide[1]	57-12-5	mg/L	0.2	x	x	x	x	x	<0.1	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.03	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	x	x	x	x	(^^)	x
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	<0.005	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.00002	<0.00002	<0.000019	<0.000095	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	<0.0005	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	x	<0.01	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	x	<0.01	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	x	<0.01	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.015	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	x	<0.015	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	<0.0005	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	<0.0005	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	0.0017	<0.015	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	x
Acetonitrile[1]	75-05-8	mg/L	-	x	x	x	x	x	<0.1	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	<0.1	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.2	x
Allyl chloride[1]	107-05-1	mg/L	-	x	x	x	x	x	<0.01	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00013	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS						baseline average	standard deviation
date				6/26/13	6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	<0.05	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	<0.001	0.00057	<0.005	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0042	0.0041	0.0029	0.0031	0.0022	0.0068	0.001
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	<0.01	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.00001	<0.00001	<0.0000095	<0.0000095	< 0.000025	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	<0.01	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	<0.05	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	<0.0005	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	<0.005	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	<0.03	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.0025	<0.0025	<0.0025	<0.0025	<0.001	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	<0.0005	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	<0.06	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	<0.0005	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	<0.0005	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	<0.005	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	<0.0005	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.0070	0.0060	0.0061	0.0065	0.0069	0.012	0.0007
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	<0.010	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00064	<0.001	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	0.00069	<0.01	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	x
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	x
Trihalomethanes (THM)										
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.015	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Semi Volatile Organic Compounds										
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	<0.01	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	<0.005	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	<0.01	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	<0.005	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	x	x	x	x	<0.01	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	<0.01	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	<0.005	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	<0.005	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	x	x	x	x	<0.02	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	<0.01	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	x	x	x	x	<0.01	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	<0.01	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	<0.01	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	<0.01	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	<0.01	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	<0.01	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	<0.01	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	<0.05	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	<0.02	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	<0.01	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	<0.02	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	<0.01	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	<0.02	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	<0.01	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	<0.01	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	<0.01	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	<0.01	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	<0.01	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	<0.01	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	<0.01	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	<0.05	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	<0.01	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	x	x	x	x	x	<0.02	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	x	x	x	x	<0.01	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	x	x	x	x	<0.02	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	<0.05	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	<0.01	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	<0.01	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS	6/26/13	6/16/16	12/27/16	6/27/17	12/6/17	baseline average 7/15/03 to 12/2/04	standard deviation 7/15/03 to 12/2/04
date										
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	<0.01	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	x	x	x	x	x	<0.01	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	<0.02	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	<0.01	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	<0.005	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	<0.01	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	<0.01	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	<0.01	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	<0.01	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	<0.01	x
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	<0.01	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	<0.01	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	<0.01	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	<0.01	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	<0.01	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	<0.01	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	<0.02	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	<0.01	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	<0.01	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	<0.001	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	<0.01	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	<0.05	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	<0.01	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	<0.01	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	<0.01	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	<0.01	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	<0.02	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	<0.02	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	<0.01	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	x	x	x	x	<0.01	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	<0.01	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	<0.02	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	<0.002	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	<0.01	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	<0.01	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	<0.005	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	<0.01	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	<0.02	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	<0.04	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	<0.002	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	<0.01	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	<0.01	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	<0.02	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	<0.01	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	<0.001	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	<0.01	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	<0.01	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	<0.01	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	<0.01	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	<0.01	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	<0.01	x
Semi Volatile Organic Compounds - Phenolics										
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	<0.01	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	<0.01	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	<0.01	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	<0.01	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	<0.01	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	<0.05	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	<0.01	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	<0.01	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	<0.01	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	<0.01	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	<0.02	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	<0.05	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	<0.005	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	<0.05	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	<0.02	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	<0.01	x
Radium 226 and 228	NA	pCi/L	5							
Ra-226, total	NA	pCi/L	-	x	x	x	x	x	<2.5	x
Ra-228[1], total	NA	pCi/L	-	x	x	x	x	x	<2.5	x
Chlorinated Pesticides										
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	x	x	x	x	x	<0.001	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	x	x	x	x	x	<0.001	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	x	x	x	x	x	<0.001	x
aldrin[1]	309-00-2	mg/L	-	x	x	x	x	x	<0.0.1	x
alpha-BHC[1]	319-84-6	mg/L	-	x	x	x	x	x	<0.0001	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	alpha +	x
beta-BHC[1]	319-85-7	mg/L	-	x	x	x	x	x	<0.0001	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x
delta-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	<0.0001	x
Dieldrin[1]	60-57-1	mg/L	-	x	x	x	x	x	<0.001	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	x	x	x	x	x	<0.001	x

APPENDIX B

Las Cruces Foothills Landfill MW-6

Las Cruces Foothills Landfill monitoring well MW-6

constituent	CAS Number	unit	GWPS						baseline average	standard deviation
date				6/26/13	6/16/16	12/27/16	6/27/17	12/6/17	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	x	x	x	x	x	<0.001	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	x	x	x	x	x	<0.001	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	x	x	x	x	x	<0.001	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	<0.00002	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	<0.001	x
gamma-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	<0.0001	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	see above	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	x	x	x	x	x	<0.001	x
Heptachlor[1]	76-44-8	mg/L	-	x	x	x	x	x	<0.001	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	<0.02	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	<0.02	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	<0.01	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	<0.001	x
Polychlorinated Biphenyls (PCBs)[1]			0.001							
Arochlor-1016	12674-11-2	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1221	11104-28-2	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1232	11141-16-5	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1242	53469-21-9	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1248	12672-29-6	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1254	11097-69-1	mg/L	-	x	x	x	x	x	<0.0005	x
Arochlor-1260	11096-82-5	mg/L	-	x	x	x	x	x	<0.0005	x
Other Pesticides and Herbicides[1]										
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	<0.002	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	<0.01	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	<0.02	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	<0.02	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	<0.01	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	<0.02	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	<0.01	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	<0.01	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	<0.01	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	<0.01	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	x	x	x	x	<0.002	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	<0.02	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Enviror

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-7

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05	12/12/06
Field Parameters												
water level elevation		ft amsl	-	3914.57	3914.14	3914.10	3914.13	3914.16	3913.83	3912.61	3911.55	3910.82
conductivity		µS/cm	-	402	300	330	330	320	320	341	382	370
pH		pH units	6-9	7.80	7.80	7.90	7.70	7.80	7.70	7.83	7.90	7.50
temperature		deg F	-	102.0	97.3	99.7	100.9	100.0	98.1	96.3	95.5	93.2
Major Ions												
calcium	7440-70-2	mg/L	-	35.2	34	36	37	36	39	41	45	45
chloride	16887-00-6	mg/L	250	11	10	10	11	10	10	11	12	14
fluoride[1]	16984-48-8	mg/L	1.6	0.7	0.8	0.8	0.8	0.7	0.74	x	x	x
magnesium	7439-95-4	mg/L	-	4.64	4	4.4	4.4	4.2	4.8	5.2	5.4	5.5
potassium	7440-09-7	mg/L	-	2.8	1.8	1.9	1.8	1.8	1.9	1.9	2.2	1.8
sodium	82115-62-6	mg/L	-	38.4	24	26	27	25	25	26	28	26
sulfate	18785-72-3	mg/L	600	40	39	40	41	39	39	40	39	44
alkalinity	NA	mg/L	-	123	130	120	120	120	120	130	120	120
bicarbonate alkalinity	71-52-3	mg/L	-	122	130	120	120	120	120	130	120	120
carbonate alkalinity	3812-32-6	mg/L	-	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	230	250	230	240	240	210	210	250	260
Nitrogen Species												
ammonia as N	1331-21-6	mg/L	-	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x
nitrate as N	14797-55-8	mg/L	10	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	0.54	<1.0	1
nitrite	14797-65-0	mg/L	-	<0.1	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x
total nitrogen	-	mg/L	-	x	x	x	x	x	x	x	x	x
Metals												
aluminum	7429-90-5	mg/L	5.0	1.56	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	x	x
antimony[1]	7440-36-0	mg/L	0.006	<0.0004	<0.003	<0.003	<0.003	<0.003	<0.003	x	x	x
arsenic[1]	7440-38-2	mg/L	0.01	0.0016	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
barium[1]	7440-39-3	mg/L	1.0	0.0286	<0.02	0.04	0.03	0.04	0.04	x	x	x
beryllium[1]	7440-41-7	mg/L	0.004	0.0002	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
boron	7440-42-8	mg/L	0.75	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.0001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
chromium[1]	7440-47-3	mg/L	0.05	0.007	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
cobalt[1]	7440-48-4	mg/L	0.05	0.00052	<0.03	<0.03	<0.03	<0.03	<0.03	x	x	x
copper[1]	7440-50-8	mg/L	1.0	0.0012	<0.06	<0.06	<0.06	<0.06	<0.06	x	x	x
iron	7439-89-6	mg/L	1.0	1.32	<0.1	<0.1	<0.1	<0.1	0.33	0.23	<0.1	<0.1
lead[1]	7439-92-1	mg/L	0.05	<0.0001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
manganese	7439-96-5	mg/L	0.2	0.086	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
mercury[1]	7439-97-6	mg/L	0.002	0.0003	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
molybdenum	7439-98-7	mg/L	1.0	<0.010	<0.75	<0.75	<0.75	<0.75	<0.75	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	0.00686	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
selenium[1]	7782-49-2	mg/L	0.05	0.0013	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
silver[1]	7440-22-4	mg/L	0.05	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
thallium[1]	7440-28-0	mg/L	0.002	<0.00003	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
tin[1]	7440-31-5	mg/L	-	<0.10	x	x	x	x	<0.4	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	0.003	<2.5	<2.5	<2.5	<2.5	<2.5	x	x	x
vanadium[1]	7440-62-2	mg/L	-	<0.050	<0.08	<0.08	<0.08	<0.08	<0.08	x	x	x
zinc	7440-66-6	mg/L	10.0	0.088	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
total organic carbon	-	mg/L	-	4.6	<1.0	<1.0	<1.0	2.4	<0.5	0.5	<0.5	<0.5
phosphate	14265-44-2	mg/L	-	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	<0.1	x	x	x	x	<4.0	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	(^^)	(^^)	(^^)	(^^)	(^^)	x	x	x
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.0005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.010	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.0005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.0005	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.0005	<0.0151	<0.015	<0.015	<0.015	<0.015	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4-Chlorotoluene[1]	106-43-4	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.025	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Acetone[1]	67-64-1	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acetonitrile[1]	75-05-8	mg/L	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2
Acrolein[1]	107-02-8	mg/L	-	<0.025	<0.1	<0.1	<0.1	<0.1	<0.1	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.025	<0.2	<0.2	<0.2	<0.2	<0.2	x	x	x
Allyl chloride[1]	107-05-1	mg/L	-	x	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.001	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.0005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane[1]	75-03-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05	12/12/06
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	0.0007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.0005	<0.001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0107	0.013	0.01	0.017	0.017	0.012	x	0.013	<0.005
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.0005	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	x	x	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.005	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.005	x	x	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	<0.0005	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.018	0.02	0.02	0.02	0.019	0.018	0.018	0.019	0.015
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	0.0073	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.0005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0023	0.0029	0.0028	0.0031	0.0032	0.0026	0.0026	0.0034	0.0031
Trichlorofluoromethane[1]	75-69-4	mg/L	-	0.0032	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl acetate[1]	108-05-4	mg/L	-	<0.025	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trihalomethanes (THM)												
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Chloroform[1]	67-66-3	mg/L	0.1	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semi Volatile Organic Compounds												
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
1-Chloronaphthalene	NA	mg/L	-	<0.005	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.050	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
2-Picoline	109-06-8	mg/L	-	<0.010	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.050	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.050	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.010	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	<0.010	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Benzidine[1]	92-87-5	mg/L	-	<0.050	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
Benzoic acid[1]	65-85-0	mg/L		<0.050	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.020	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ethe	108-60-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	0.0059	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Carbazole	86-74-8	mg/L	-	<0.005	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Chrysene[1]	218-01-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Diallate[1]	2303-16-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	<0.010	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05	12/12/06
Dibenzofuran[1]	132-64-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Fluorene[1]	86-73-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.005	<0.05	<0.05	<0.05	<0.05	<0.05	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Isophorone[1]	78-59-1	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.02	<0.04	<0.04	<0.04	<0.04	<0.04	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	<0.020	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Pyrene[1]	129-00-0	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Pyridine	110-86-1	mg/L	-	<0.010	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Semi Volatile Organic Compounds - Phenolics												
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.050	<0.05	<0.05	<0.05	<0.05	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.050	<0.05	<0.05	<0.05	<0.05	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.050	<0.05	<0.05	<0.05	<0.05	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.020	<0.02	<0.02	<0.02	<0.02	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.005	<0.01	<0.01	<0.01	<0.01	x	x	x	x
Radium 226 and 228	NA	pCi/L	5	1.0								
Ra-226, total	NA	pCi/L	-	0.4	<2.5	<2.5	<2.5	<2.5	<2.5	x	x	x
Ra-228[1], total	NA	pCi/L	-	0.6	<2.5	<2.5	<2.5	<2.5	<2.5	x	x	x
Chlorinated Pesticides												
4,4'-DDD (p,p'-DDD)[1]	309-00-2	mg/L	-	<0.0001	<0.01	<0.0.1	<0.0.1	<0.0.1	<0.0.1	x	x	x
4,4'-DDE (p,p'-DDE)[1]	319-84-6	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
4,4'-DDT (p,p'-DDT)[1]	319-85-7	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
aldrin[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
alpha-BHC[1]	319-86-8	mg/L	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	<0.0001	alpha +	alpha +	alpha +	alpha +	alpha +	x	x	x
beta-BHC[1]	5103-74-2	mg/L	-	<0.0001	see above	see above	see above	see above	see above	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x
delta-BHC[1]	72-54-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Dieldrin[1]	72-55-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	50-29-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endosulfan II (beta-Endosulfan)[1]	60-57-1	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endosulfan sulfate[1]	959-98-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endrin aldehyde[1]	33213-65-9	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endrin ketone	1031-07-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
gamma-BHC[1]	7421-93-4	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
gamma-Chlordane[1]	53494-70-5	mg/L	-	<0.00002	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	76-44-8	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Heptachlor[1]	1024-57-3	mg/L	-	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Isodrin[1]	465-73-6	mg/L	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Kepone[1]	143-50-0	mg/L	-	<0.025	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001									
Arochlor-1016	12674-11-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								
date				7/15/03	8/27/03	9/29/03	10/27/03	11/25/03	12/29/03	12/2/04	12/14/05	12/12/06
Arochlor-1221	11104-28-2	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x	x	x
Other Pesticides and Herbicides[1]												
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	<0.005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Famphur[1]	52-58-7	mg/L	-	<0.0005	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Phorate[1]	298-02-2	mg/L	-	<0.0005	<0.01	<0.01	<0.01	<0.01	<0.01	x	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	<0.02	<0.02	<0.02	<0.02	<0.02	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Environmental Protection, subpart 803. Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7									
date				1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/19/12	6/26/13	12/19/13	6/26/14
Field Parameters													
water level elevation		ft amsl	-	3910.66	3912.28	3911.91	3914.58	3915.19	3914.07	3913.82	3909.46	3908.16	3908.76
conductivity		µS/cm	-	400	390	532	460	448	430	430	470	537	501
pH		pH units	6-9	7.45	7.84	7.35	7.82	7.72	7.41	6.86	6.43	6.89	6.25
temperature		deg F	-	99.0	95.2	95.4	99.0	96.3	78.4	82.6	100.6	99.3	102.4
Major Ions													
calcium	7440-70-2	mg/L	-	49	43	51	53	55	53	53	57	65	59
chloride	16887-00-6	mg/L	250	16	18	20	19	20	19	19	18	20	19
fluoride[1]	16984-48-8	mg/L	1.6	x	0.69	x	0.65	x	x	x	x	x	x
magnesium	7439-95-4	mg/L	-	5.9	5.4	6.3	6.7	6.5	6.6	6.6	6.7	7.4	7.1
potassium	7440-09-7	mg/L	-	2.1	1.8	2.1	2.1	2.2	2.2	2.2	2.3	2.4	2.2
sodium	82115-62-6	mg/L	-	26	24	27	28	28	28	28	28	29	28
sulfate	18785-72-3	mg/L	600	48	51	62	62	64	65	65	67	75	74
alkalinity	NA	mg/L	-	120	120	120	120	120	120	120	130	140	140
bicarbonate alkalinity	71-52-3	mg/L	-	120	120	120	120	120	120	120	130	140	140
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
total dissolved solids	NA	mg/L	1,000	260	270	280	296	295	288	288	310	348	325
Nitrogen Species													
ammonia as N	1331-21-6	mg/L	-	<0.5	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Kjeldahl nitrogen	7727-37-9	mg/L	-	x	<1.0	x	x	x	x	x	x	x	x
nitrate as N	14797-55-8	mg/L	10	1.2	1.1	1.2	0.73	0.52	0.63	0.63	0.87	<1.0	0.97
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	x	1.1	x	x	x	x	x	x	x	x
Metals													
aluminum	7429-90-5	mg/L	5.0	x	<0.02	x	0.04	x	x	x	x	x	x
antimony[1]	7440-36-0	mg/L	0.006	x	<0.001	<0.001	<0.001	0.00024	<0.0025	<0.0025	<0.001	<0.001	<0.001
arsenic[1]	7440-38-2	mg/L	0.01	x	0.006	<0.002	<0.001	0.0007	<0.0025	<0.0025	0.0011	<0.001	<0.001
barium[1]	7440-39-3	mg/L	1.0	x	0.035	0.039	0.042	0.042	0.044	0.044	0.049	0.054	0.048
beryllium[1]	7440-41-7	mg/L	0.004	x	<0.003	x	<0.001	0.00035	<0.002	<0.002	<0.002	<0.002	<0.003
boron	7440-42-8	mg/L	0.75	x	<0.04	x	<0.04	x	x	x	x	x	x
cadmium[1]	7440-43-9	mg/L	0.005	x	<0.002	<0.0020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
chromium[1]	7440-47-3	mg/L	0.05	x	<0.006	<0.0060	<0.006	0.00036	<0.006	<0.006	<0.006	<0.006	<0.006
cobalt[1]	7440-48-4	mg/L	0.05	x	<0.006	<0.0060	<0.006	0.0009	<0.006	<0.006	<0.006	<0.006	<0.006
copper[1]	7440-50-8	mg/L	1.0	x	0.0061	0.027	0.016	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
iron	7439-89-6	mg/L	1.0	<0.1	<0.05	0.29	0.091	0.018	0.087	0.087	<0.02	<0.02	<0.05
lead[1]	7439-92-1	mg/L	0.05	x	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.005
manganese	7439-96-5	mg/L	0.2	<0.03	0.0032	0.0076	0.0044	0.0033	0.0039	0.0039	0.0042	0.0045	0.0054
mercury[1]	7439-97-6	mg/L	0.002	x	<0.0002	x	<0.0002	x	x	x	x	x	x
molybdenum	7439-98-7	mg/L	1.0	x	<0.008	x	<0.008	x	x	x	x	x	x
nickel[1]	7440-02-0	mg/L	0.2	x	<0.01	0.02	<0.01	0.0011	<0.01	<0.01	<0.01	<0.01	<0.01
selenium[1]	7782-49-2	mg/L	0.05	x	0.002	<0.001	0.00106	0.0016	<0.0025	<0.0025	0.0028	0.0015	0.0017
silver[1]	7440-22-4	mg/L	0.05	x	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
thallium[1]	7440-28-0	mg/L	0.002	x	<0.001	<0.001	<0.001	<0.001	<0.0025	<0.0025	<0.001	<0.001	<0.001
tin[1]	7440-31-5	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x
uranium[1]	7440-61-1	mg/L	0.03	x	0.003	x	x	x	x	x	x	x	x
vanadium[1]	7440-62-2	mg/L	-	x	<0.05	<0.050	<0.05	0.0044	<0.05	<0.05	<0.05	<0.05	<0.05
zinc	7440-66-6	mg/L	10.0	x	<0.02	<0.020	<0.02	0.0068	<0.01	<0.01	<0.01	<0.01	<0.02
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	0.38	<1.0	<1.0	<1.0	<1.0	<1.0
phosphate	14265-44-2	mg/L	-	x	<0.50	x	<0.50	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	2	x	x	x	x	x	x	x	x
cyanide[1]	57-12-5	mg/L	0.2	x	<0.005	x	x	x	x	x	x	x	x
perchlorate[1]	14797-73-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	x	(^^)	x	x	x	x	x	x	x	x
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.005	<0.005	<0.001	<0.001	0.00065	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00033	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	<0.005	x	x	x	x	x	x	x	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	x	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	<0.001	<0.001	x	x	x	x	x	x	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	<0.01	x	x	x	x	x	x	x	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	<0.015	x	x	x	x	x	x	x	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.015	<0.015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone[1]	67-64-1	mg/L	-	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetonitrile[1]	75-05-8	mg/L	-	<0.2	<0.1	x	x	x	x	x	x	x	x
Acrolein[1]	107-02-8	mg/L	-	x	<0.1	x	x	x	x	x	x	x	x
Acrylonitrile[1]	107-13-1	mg/L	-	x	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Allyl chloride[1]	107-05-1	mg/L	-	x	<0.01	x	x	x	x	x	x	x	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00054	<0.001	<0.001	<0.001	<0.001	<0.001
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	(#)	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.02	<0.02	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane[1]	75-03-3	mg/L	-	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7									
date				1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/19/12	6/26/13	12/19/13	6/26/14
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.005	<0.005	0.0011	<0.001	0.0013	0.0013	0.0013	0.0015	0.0017	0.0017
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.011	0.013	0.013	0.011	0.010	0.011	0.011	0.0063	0.0063	0.0059
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	<0.01	x	x	x	x	x	x	x	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	x	<0.00001	<0.00001	<0.00001	6E-06	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	<0.05	x	x	x	x	x	x	x	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	<0.005	x	x	x	x	x	x	x	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl methacrylate[1]	80-62-6	mg/L	-	x	<0.03	x	x	x	x	x	x	x	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	0.00057	<0.001	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	x	<0.06	x	x	x	x	x	x	x	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	<0.001	x	x	x	x	x	x	x	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.015	0.016	0.018	0.018	0.018	0.019	0.019	0.015	0.015	0.014
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.005	<0.005	<0.002	<0.002	0.00034	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.002	<0.002	<0.001	<0.001	0.00029	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0028	0.0028	0.0028	0.0024	0.0029	0.0030	0.0030	0.0028	0.0026	0.0027
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.01	0.0028	0.0028	0.0027	0.0032	0.0031	0.0031	0.0024	0.0022	0.0021
Vinyl acetate[1]	108-05-4	mg/L	-	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	0.00058	<0.0004	<0.0004	0.00041	<0.0004	<0.0005
Trihalomethanes (THM)													
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.005	<0.005	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromoform[1]	75-25-2	mg/L	-	<0.015	<0.015	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloroform[1]	67-66-3	mg/L	0.1	<0.005	<0.005	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.005	<0.005	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Semi Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	<0.0002	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Picoline	109-06-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Acenaphthene[1]	83-32-9	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Acetophenone[1]	98-86-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Aniline[1]	62-53-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Anthracene[1]	120-12-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Benzidine[1]	92-87-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	<0.00005	x	x	x	x	x	x	x	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ethe	108-60-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Carbazole	86-74-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Chrysene[1]	218-01-9	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Diallate[1]	2303-16-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7									
date				1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/19/12	6/26/13	12/19/13	6/26/14
Dibenzofuran[1]	132-64-9	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Diphenylamine[1]	122-39-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Fluoranthene[1]	206-44-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Fluorene[1]	86-73-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	<0.0001	x	x	x	x	x	x	x	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
HMX[1]	2691-41-0	mg/L	-	x	<0.0001	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Isophorone[1]	78-59-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Isosafrole[1]	120-58-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Methapyrilene[1]	91-80-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Naphthalene[1]	91-20-3	mg/L	0.03	x	<0.001	x	x	x	x	x	x	x	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
o-Toluidine[1]	95-53-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Phenacetin[1]	62-44-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Phenanthrene[1]	85-01-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pronamide[1]	23950-58-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pyrene[1]	129-00-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pyridine	110-86-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
RDX[1]	121-82-4	mg/L	-	x	<0.0001	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	x	x
Semi Volatile Organic Compounds - Phenolics													
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	<0.001	x	x	x	x	x	x	x	x
Radium 226 and 228	NA	pCi/L	5		2.02								
Ra-226, total	NA	pCi/L	-	x	0.12	x	x	x	x	x	x	x	x
Ra-228[1], total	NA	pCi/L	-	x	1.9	x	x	x	x	x	x	x	x
Chlorinated Pesticides													
4,4'-DDD (p,p'-DDD)[1]	309-00-2	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
4,4'-DDE (p,p'-DDE)[1]	319-84-6	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
4,4'-DDT (p,p'-DDT)[1]	319-85-7	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
aldrin[1]	319-86-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
alpha-BHC[1]	319-86-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	72-54-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Dieldrin[1]	72-55-9	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endosulfan I (alpha-Endosulfan)[1]	50-29-3	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endosulfan II (beta-Endosulfan)[1]	60-57-1	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endosulfan sulfate[1]	959-98-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endrin aldehyde[1]	33213-65-9	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endrin ketone	1031-07-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
gamma-BHC[1]	7421-93-4	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
gamma-Chlordane[1]	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	76-44-8	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Heptachlor[1]	1024-57-3	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Isodrin[1]	465-73-6	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Kepone[1]	143-50-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Methoxychlor[1]	72-43-5	mg/L	-	x	<0.00004	x	x	x	x	x	x	x	x
Toxaphene[1]	8001-35-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Polychlorinated Biphenyls (PCBs)[1]			0.001										
Arochlor-1016	12674-11-2	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7									
date				1/18/08	12/23/08	12/29/09	12/29/10	12/28/11	6/19/12	12/19/12	6/26/13	12/19/13	6/26/14
Arochlor-1221	11104-28-2	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1232	11141-16-5	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1242	53469-21-9	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1248	12672-29-6	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1254	11097-69-1	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Arochlor-1260	11096-82-5	mg/L	-	x	<0.00025	x	x	x	x	x	x	x	x
Other Pesticides and Herbicides[1]													
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	<0.00117	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Dimethoate[1]	60-51-5	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Dinoseb[1]	88-85-7	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
Disulfoton[1]	298-04-4	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Famphur[1]	52-58-7	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Methyl parathion[1]	298-00-0	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Phorate[1]	298-02-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	<0.00005	x	x	x	x	x	x	x	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	<0.001	x	x	x	x	x	x	x	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Enviror

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								baseline average	standard deviation
date				12/11/14	6/18/15	12/17/15	6/16/16	12/28/16	6/27/17	12/13/17	6/20/18	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Field Parameters													
water level elevation		ft amsl	-	3908.71	3908.76	3908.81	3908.76	3908.68	3908.69	3908.46	3908.55	3,913.93	0.62
conductivity		µS/cm	-	462	474	492	468	489	495	637	648	334.71	32.27
pH		pH units	6-9	6.81	6.76	7.34	7.23	7.21	7.37	7.01	6.92	7.79	0.07
temperature		deg F	-	97.7	104.0	97.2	104.5	104.9	104.9	103.3	105.1	99.18	2.04
Major Ions													
calcium	7440-70-2	mg/L	-	50	64	59	61	61	64	79	88	36.89	2.39
chloride	16887-00-6	mg/L	250	19	21	20	19	20	20	21	21	10.43	0.53
fluoride[1]	16984-48-8	mg/L	1.6	0.60	x	x	x	x	x	x	x	0.76	<0.001
magnesium	7439-95-4	mg/L	-	5.9	7.5	7.3	7.3	7.4	7.5	9.7	10	4.52	0.40
potassium	7440-09-7	mg/L	-	2.1	2.1	2.2	2.2	2.3	2.2	2.6	2.6	1.99	0.36
sodium	82115-62-6	mg/L	-	25	29	30	30	30	29	33	36	27.34	4.97
sulfate	18785-72-3	mg/L	600	69	80	79	73	76	76	100	100	39.71	0.76
alkalinity	NA	mg/L	-	130	132	130.3	127.4	124.5	128.3	173.6	183.8	123.29	4.72
bicarbonate alkalinity	71-52-3	mg/L	-	130	132	130.3	127.4	124.5	128.3	173.6	183.8	123.14	4.74
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	x
total dissolved solids	NA	mg/L	1,000	306	335	335	312	328	336	411	428	230.00	15.28
Nitrogen Species													
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1.0	x	x	x	x	x	x	x	<1.0	x
nitrate as N	14797-55-8	mg/L	10	0.85	0.94	0.99	0.73	0.90	0.97	1.1	1.1	<1.0	x
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	<1.0	x
total nitrogen	-	mg/L	-	<1.0	x	x	x	x	x	x	x	x	x
Metals													
aluminum	7429-90-5	mg/L	5.0	0.077	x	x	x	x	x	x	x	<3.0	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	x
arsenic[1]	7440-38-2	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	0.00087	<0.01	x
barium[1]	7440-39-3	mg/L	1.0	0.042	0.051	0.047	0.048	0.051	0.050	0.065	0.071	0.04	0.01
beryllium[1]	7440-41-7	mg/L	0.004	<0.002	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
boron	7440-42-8	mg/L	0.75	<0.04	x	x	x	x	x	x	x	<0.5	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.01	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.03	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	0.0071	<0.006	0.0041	<0.006	<0.06	x
iron	7439-89-6	mg/L	1.0	0.029	<0.05	0.022	<0.02	0.033	0.031	<0.02	<0.02	0.63	0.60
lead[1]	7439-92-1	mg/L	0.05	<0.001	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.01	x
manganese	7439-96-5	mg/L	0.2	0.0039	0.0048	0.004	0.0034	0.0040	0.0038	0.0053	0.0055	<0.03	x
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	x	x	x	x	x	x	x	<0.001	x
molybdenum	7439-98-7	mg/L	1.0	<0.008	x	x	x	x	x	x	x	<0.75	x
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	x
selenium[1]	7782-49-2	mg/L	0.05	0.0017	0.0015	<0.005	<0.005	<0.005	0.0013	0.0016	0.0015	<0.005	x
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0018	0.0024	<0.01	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	x
tin[1]	7440-31-5	mg/L	-	x	x	x	x	x	x	x	x	<0.4	x
uranium[1]	7440-61-1	mg/L	0.03	0.0038	x	x	x	x	x	x	x	<2.5	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0042	<0.08	x
zinc	7440-66-6	mg/L	10.0	<0.01	<0.02	<0.01	<0.01	<0.01	0.012	<0.01	<0.01	<0.05	x
total organic carbon	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.38	0.59	2.50	2.05
phosphate	14265-44-2	mg/L	-	<0.50	x	x	x	x	x	x	x	x	x
sulfide[1]	18496-25-8	mg/L	-	x	x	x	x	x	x	x	x	<4.0	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	x	x	x	x	x	x	x	<0.1	x
perchlorate[1]	14797-73-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.003	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	(^^)	x	x	x	x	x	x	x	(^^)	x
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00085	0.0013	<0.005	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00032	0.00038	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.00002	<0.00002	<0.00002	<0.00002	<0.000019	<0.000019	<0.000019	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.015	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	x	x	x	x	x	x	x	x	<0.015	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0016	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.015	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0025	<0.01	<0.1	x
Acetonitrile[1]	75-05-8	mg/L	-	x	x	x	x	x	x	x	x	<0.1	x
Acrolein[1]	107-02-8	mg/L	-	x	x	x	x	x	x	x	x	<0.1	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.2	x
Allyl chloride[1]	107-05-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00063	0.00081	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	x	x	x	x	x	x	x	x	x	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.02	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								baseline average	standard deviation
date				12/11/14	6/18/15	12/17/15	6/16/16	12/28/16	6/27/17	12/13/17	6/20/18	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	0.0015	0.0018	0.0015	0.0020	0.0021	0.0023	0.0031	0.0039	<0.005	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.02	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	0.0097	0.0066	0.0037	0.0096	0.0085	0.0097	0.0035	0.0034	0.013	0.003
Ethyl methacrylate[1]	97-63-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	5E-05	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000094	<0.0000095	<0.0000094	<0.000025	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
Methacrylonitrile[1]	126-98-7	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	x
Methyl methacrylate[1]	80-62-6	mg/L	-	x	x	x	x	x	x	x	x	<0.03	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0019	0.0028	<0.001	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
Propionitrile[1]	107-12-0	mg/L	-	x	x	x	x	x	x	x	x	<0.06	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	x	x	x	x	x	x	x	x	<0.005	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	<0.0005	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	0.017	0.016	0.012	0.016	0.017	0.018	0.013	0.013	0.019	0.001
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.019	0.016
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	0.0030	0.0029	0.0023	0.0036	0.0032	0.0037	0.0029	0.0037	0.0028	0.0003
Trichlorofluoromethane[1]	75-69-4	mg/L	-	0.0033	0.0025	0.0019	0.0038	0.0034	0.0042	0.0021	0.0025	0.0032	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	x
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0005	<0.0004	<0.0004	0.00041	<0.0004	<0.0004	0.00037	0.00045	<0.0004	x
Trihalomethanes (THM)													
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.005	x
Bromoform[1]	75-25-2	mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.015	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.005	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.005	x
Semi Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.002	x	x	x	x	x	x	x	<0.01	x
1-Naphthylamine[1]	134-32-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	x	x	x	x	x	x	x	x	x	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.002	x	x	x	x	x	x	x	<0.01	x
2-Naphthylamine[1]	91-59-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Picoline	109-06-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Acenaphthene[1]	83-32-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Acenaphthylene[1]	208-96-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Acetophenone[1]	98-86-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Aniline[1]	62-53-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Anthracene[1]	120-12-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Benzidine[1]	92-87-5	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Benzo (a) pyrene[1]	205-99-2	mg/L	-	<0.00007	x	x	x	x	x	x	x	<0.02	x
Benzo (b) fluoranthene[1]	191-24-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Benzo (g,h,i) perylene[1]	207-08-9	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Benzo (k) fluoranthene[1]	50-32-8	mg/L	0.0002	x	x	x	x	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L		x	x	x	x	x	x	x	x	<0.05	x
Benzyl alcohol[1]	100-51-6	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ethe	108-60-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Carbazole	86-74-8	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
Chlorobenzilate[1]	510-15-6	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Chrysene[1]	218-01-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Diallate[1]	2303-16-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								baseline average	standard deviation
date				12/11/14	6/18/15	12/17/15	6/16/16	12/28/16	6/27/17	12/13/17	6/20/18	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Dibenzofuran[1]	132-64-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Dimethylphthalate[1]	131-11-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Diphenylamine[1]	122-39-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Fluoranthene[1]	206-44-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Fluorene[1]	86-73-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Hexachloroethane[1]	67-72-1	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
Hexachloropropene[1]	1888-71-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
HMX[1]	2691-41-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Isophorone[1]	78-59-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Isosafrole[1]	120-58-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Methapyrilene[1]	91-80-5	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.002	x	x	x	x	x	x	x	<0.01	x
Nitrobenzene[1]	98-95-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	x	x	x	x	x	x	x	x	<0.002	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	x	x	x	x	x	x	x	x	<0.04	x
o-Toluidine[1]	95-53-4	mg/L	-	x	x	x	x	x	x	x	x	<0.002	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Phenacetin[1]	62-44-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Phenanthrene[1]	85-01-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Pronamide[1]	23950-58-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Pyrene[1]	129-00-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Pyridine	110-86-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
RDX[1]	121-82-4	mg/L	-	x	x	x	x	x	x	x	x	x	x
Safrole[1]	94-59-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Semi Volatile Organic Compounds - Phenolics													
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Chlorophenol[1]	95-57-8	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	x	x	x	x	x	x	x	x	<0.005	x
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	x	x	x	x	x	x	x	x	<0.05	x
Pentachlorophenol[1]	87-86-5	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Phenol[1] (a)	108-95-2	mg/L	0.005	x	x	x	x	x	x	x	x	<0.01	x
Radium 226 and 228	NA	pCi/L	5	2.47									
Ra-226, total	NA	pCi/L	-	0.411	x	x	x	x	x	x	x	<2.5	x
Ra-228[1], total	NA	pCi/L	-	2.06	x	x	x	x	x	x	x	<2.5	x
Chlorinated Pesticides													
4,4'-DDD (p,p'-DDD)[1]	309-00-2	mg/L	-	x	x	x	x	x	x	x	x	<0.0.1	x
4,4'-DDE (p,p'-DDE)[1]	319-84-6	mg/L	-	x	x	x	x	x	x	x	x	<0.0001	x
4,4'-DDT (p,p'-DDT)[1]	319-85-7	mg/L	-	x	x	x	x	x	x	x	x	<0.0001	x
aldrin[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0001	x
alpha-BHC[1]	319-86-8	mg/L	-	x	x	x	x	x	x	x	x	<0.0001	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	alpha +	x
beta-BHC[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	see above	x
Chlordane[1]	57-74-9	mg/L	0.002	x	x	x	x	x	x	x	x	x	x
delta-BHC[1]	72-54-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Dieldrin[1]	72-55-9	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan I (alpha-Endosulfan)[1]	50-29-3	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan II (beta-Endosulfan)[1]	60-57-1	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan sulfate[1]	959-98-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endrin aldehyde[1]	33213-65-9	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endrin ketone	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Endrin[1]	72-20-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
gamma-BHC[1]	7421-93-4	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
gamma-Chlordane[1]	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	<0.00002	x
Heptachlor epoxide[1]	76-44-8	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Heptachlor[1]	1024-57-3	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Isodrin[1]	465-73-6	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Kepone[1]	143-50-0	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Methoxychlor[1]	72-43-5	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Toxaphene[1]	8001-35-2	mg/L	-	x	x	x	x	x	x	x	x	<0.001	x
Polychlorinated Biphenyls (PCBs)[1]			0.001										
Arochlor-1016	12674-11-2	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x

APPENDIX B

Las Cruces Foothills Landfill MW-7

Las Cruces Foothills Landfill monitoring well MW-7

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-7								baseline average	standard deviation
date				12/11/14	6/18/15	12/17/15	6/16/16	12/28/16	6/27/17	12/13/17	6/20/18	7/15/03 to 12/2/04	7/15/03 to 12/2/04
Arochlor-1221	11104-28-2	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Arochlor-1232	11141-16-5	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Arochlor-1242	53469-21-9	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Arochlor-1248	12672-29-6	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Arochlor-1254	11097-69-1	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Arochlor-1260	11096-82-5	mg/L	-	<0.00025	x	x	x	x	x	x	x	<0.0005	x
Other Pesticides and Herbicides[1]													
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	x	x	x	x	x	x	x	x	x	x
2,4,5-T[1]	93-76-5	mg/L	-	x	x	x	x	x	x	x	x	<0.002	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Dimethoate[1]	60-51-5	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Dinoseb[1]	88-85-7	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Disulfoton[1]	298-04-4	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Famphur[1]	52-58-7	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x
Methyl parathion[1]	298-00-0	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Phorate[1]	298-02-2	mg/L	-	x	x	x	x	x	x	x	x	<0.01	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	x	x	x	x	x	x	x	x	<0.002	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	x	x	x	x	x	x	x	x	<0.02	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in Enviror

[1] hazardous

x parameter not analyzed

(^^) See section entitled 'Polychlorinated Biphenyls (PCBs)' for break-out of PCB concentrations.

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-8

APPENDIX B

Las Cruces Foothills Landfill MW-8

Las Cruces Foothills Landfill monitoring well MW-8												baseline	standard
constituent	CAS Number	unit	GWPS	RESULTS FOR MW-8								average	deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/21/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
Field Parameters													
water level elevation		ft amsl	-	3925.93	3925.68	3925.15	3924.71	3925.33	3923.05	3924.67	3918.84	3,925.36	0.47
conductivity		µS/cm	-	380	510	325	339	317	310	310	313	374	80
pH		pH units	6-9	7.75	7.69	7.39	7.25	7.51	6.67	6.39	7.55	7.52	0.21
temperature		deg F	-	118.2	115.7	119.8	119.5	112.6	105.6	118.6	-	117.2	3.0
Major Ions													
calcium	7440-70-2	mg/L	-	31	29	27	27	27	25	24	25	28	2
chloride	16887-00-6	mg/L	250	14	8.7	8.1	8.4	7.7	7.5	7.7	7.7	9.4	2.6
fluoride[1]	16984-48-8	mg/L	1.6	0.62	0.67	0.64	0.66	0.62	x	x	x	0.64	0.02
magnesium	7439-95-4	mg/L	-	2.6	2.4	1.9	1.9	2.0	1.8	1.7	1.7	2.2	0.3
potassium	7440-09-7	mg/L	-	2.7	2.8	2.2	2.6	2.4	2.4	2.8	2.2	2.5	0.2
sodium	82115-62-6	mg/L	-	41	40	37	38	40	38	40	37	39	2
sulfate	18785-72-3	mg/L	600	41	32	33	35	32	32	33	30	35	4
alkalinity	NA	mg/L	-	120	120	110	110	110	110	110	105.6	114	5
bicarbonate alkalinity	71-52-3	mg/L	-	120	120	110	110	110	110	110	105.6	114	5
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	x
total dissolved solids	NA	mg/L	1,000	249	227	216	237	234	212	226	227	233	12
Nitrogen Species													
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x	<1.0	x
nitrate as N	14797-55-8	mg/L	10	0.42	x	x	x	x	0.92	0.86	0.89	x	x
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x	<1.0	x
Metals													
aluminum	7429-90-5	mg/L	5.0	0.026	1.3	0.038	0.026	0.067	x	x	x	0.291	0.564
antimony[1]	7440-36-0	mg/L	0.006	0.00118	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	x
arsenic[1]	7440-38-2	mg/L	0.01	<0.001	0.0012	0.00123	0.001	0.00119	0.0012	0.0011	0.0012	0.0012	0.0001
barium[1]	7440-39-3	mg/L	1.0	0.055	0.042	0.030	0.027	0.029	0.025	0.026	0.022	0.04	0.01
beryllium[1]	7440-41-7	mg/L	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	x
boron	7440-42-8	mg/L	0.75	<0.04	<0.04	<0.04	<0.04	<0.04	x	x	x	<0.04	x
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	0.0078	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	x
iron	7439-89-6	mg/L	1.0	<0.05	0.94	<0.05	<0.05	<0.05	<0.02	0.078	0.048	0.94	x
lead[1]	7439-92-1	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.0005	<0.005	x
manganese	7439-96-5	mg/L	0.2	0.17	0.051	0.0027	<0.002	0.0026	<0.002	0.015	0.0042	0.057	0.079
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	x	x	x	<0.0002	x
molybdenum	7439-98-7	mg/L	1.0	0.012	0.0083	<0.008	<0.008	<0.008	x	x	x	0.010	0.003
nickel[1]	7440-02-0	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
selenium[1]	7782-49-2	mg/L	0.05	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	0.004	x
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	x
tin[1]	7440-31-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
uranium[1]	7440-61-1	mg/L	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	x	x	x	<0.001	x
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x
zinc	7440-66-6	mg/L	10.0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	0.017	<0.02	x
total organic carbon	-	mg/L	-	2.4	3.9	1.2	1.2	1.2	2.1	2.6	7.6	2.0	1.2
phosphate	14265-44-2	mg/L	-	<0.5	<0.5	<0.5	<0.5	<0.5	x	x	x	<0.5	x
sulfide[1]	18496-25-8	mg/L	-	<0.1	x	x	x	x	x	x	x	<0.1	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	<0.01	<0.01	<0.02	<0.01	x	x	x	<0.02	x
perchlorate[1]	14797-73-0	mg/L	-	0.000376	0.000388	x	x	x	x	x	x	0.0004	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000019	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acetonitrile[1]	75-05-8	mg/L	-	<0.1	x	x	x	x	x	x	x	<0.1	x

APPENDIX B

Las Cruces Foothills Landfill MW-8

Las Cruces Foothills Landfill monitoring well MW-8												baseline	standard
constituent	**CAS Number**	**unit**	**GWPS**	**RESULTS FOR MW-8**								**average**	**deviation**
date				**12/29/10**	**5/18/11**	**8/23/11**	**11/28/11**	**12/29/11**	**12/20/12**	**6/26/13**	**12/21/17**	**12/29/10 to 12/29/11**	**12/29/10 to 12/29/11**
Acrolein[1]	107-02-8	mg/L	-	<0.1	x	x	x	x	x	x	x	<0.1	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Allyl chloride[1]	107-05-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	(#)	x	x	x	x	x	x	x	(#)	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.05	x	x	x	x	x	x	x	<0.05	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012	0.0011	0.0017	<0.001	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000096	<0.0001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.05	x	x	x	x	x	x	x	<0.05	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.005	x	x	x	x	x	x	x	<0.005	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	x	x	x	x	x	x	x	<0.03	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0.001	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.06	x	x	x	x	x	x	x	<0.06	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.001	x	x	x	x	x	x	x	<0.001	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	<0.0005	0.00062	0.0011	0.0011	0.0013	0.0016	0.0019	0.0038	0.0010	0.0003
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	x
Trihalomethanes (THM)													
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Semi Volatile Organic Compounds													
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	<0.01	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	<0.0002	<0.0002	<0.0002	x	x	x	x	x	<0.0002	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	<0.0001	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.0002	<0.0002	<0.0002	x	x	x	x	x	<0.0002	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	<0.01	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Picoline	109-06-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Acetophenone[1]	98-86-2	mg/L	-	0.0125	x	x	x	x	x	x	x	0.0125	x

APPENDIX B

Las Cruces Foothills Landfill MW-8

Las Cruces Foothills Landfill monitoring well MW-8												baseline	standard
constituent	CAS Number	unit	GWPS	RESULTS FOR MW-8								average	deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/21/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Aniline[1]	62-53-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Anthracene[1]	120-12-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Benzidine[1]	92-87-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Benzo (a) pyrene[1]	50-32-8	mg/L	0.0002	<0.0001	<0.00007	<0.00007	<0.00007	<0.00007	x	x	x	<0.0001	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Benzo (g,h,i) perylene[1]	191-24-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	<0.005	x	x	x	x	x	x	x	<0.005	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Carbazole	86-74-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Chrysene[1]	218-01-9	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Diallate[1]	2303-16-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Dibenzofuran[1]	132-64-9	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Fluorene[1]	86-73-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
HMX[1]	2691-41-0	mg/L	-	0.00209	<0.0001	<0.0001	x	x	x	x	x	<0.0001	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Isophorone[1]	78-59-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Isosafrole[1]	120-58-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	<0.0001	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	<0.01	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.01	<0.0001	<0.0001	x	x	x	x	x	<0.01	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.002	x	x	x	x	x	x	x	<0.002	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.002	x	x	x	x	x	x	x	<0.002	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.002	x	x	x	x	x	x	x	<0.002	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Phenacetin[1]	62-44-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pronamide[1]	23950-58-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pyrene[1]	129-00-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pyridine	110-86-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
RDX[1]	121-82-4	mg/L	-	0.00148	<0.0001	<0.0001	x	x	x	x	x	<0.0001	x
Safrole[1]	94-59-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	<0.0001	x
Semi Volatile Organic Compounds - Phenolics													
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	08-39-4/106-44	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.005	x	x	x	x	x	x	x	<0.005	x

APPENDIX B

Las Cruces Foothills Landfill MW-8

Las Cruces Foothills Landfill monitoring well MW-8												baseline	standard
constituent	**CAS Number**	**unit**	**GWPS**	**RESULTS FOR MW-8**								**average**	**deviation**
date				**12/29/10**	**5/18/11**	**8/23/11**	**11/28/11**	**12/29/11**	**12/20/12**	**6/26/13**	**12/21/17**	**12/29/10 to 12/29/11**	**12/29/10 to 12/29/11**
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.01	x	x	x	x	x	x	x	<0.01	x
Radium 226 and 228	NA	pCi/L	5	0.752	1.29	2.41	0.507	0.199	x	x	x	1.03	0.87
Ra-226, total	NA	pCi/L	-	0.000	0.060	2.29	0.293	0.093	x	x	x	0.55	0.98
Ra-228[1], total	NA	pCi/L	-	0.752	1.23	0.123	0.214	0.106	x	x	x	0.49	0.49
Chlorinated Pesticides													
4,4'-DDD (p,p'-DDD)[1]	309-00-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
4,4'-DDE (p,p'-DDE)[1]	319-84-6	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
4,4'-DDT (p,p'-DDT)[1]	319-85-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
aldrin[1]	319-86-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
alpha-BHC[1]	319-86-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	5103-74-2	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Chlordane[1]	57-74-9	mg/L	0.002	<0.005	x	x	x	x	x	x	x	<0.005	x
delta-BHC[1]	72-54-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Dieldrin[1]	72-55-9	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Endosulfan I (alpha-Endosulfan)[1]	50-29-3	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Endosulfan II (beta-Endosulfan)[1]	60-57-1	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Endosulfan sulfate[1]	959-98-8	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Endrin aldehyde[1]	33213-65-9	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Endrin ketone	1031-07-8	mg/L	-	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
gamma-BHC[1]	7421-93-4	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
gamma-Chlordane[1]	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	76-44-8	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Heptachlor[1]	1024-57-3	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Isodrin[1]	465-73-6	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Kepone[1]	143-50-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.001	x	x	x	x	x	x	x	<0.001	x
Polychlorinated Biphenyls (PCBs)[1]													
Arochlor-1016	12674-11-2	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1221	11104-28-2	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1232	11141-16-5	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1242	53469-21-9	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1248	12672-29-6	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1254	11097-69-1	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Arochlor-1260	11096-82-5	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	<0.00025	x
Other Pesticides and Herbicides[1]													
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	<0.000546	x	x	x	x	x	x	x	<0.000546	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Dimethoate[1]	60-51-5	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Dinoseb[1]	88-85-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Disulfoton[1]	298-04-4	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Famphur[1]	52-58-7	mg/L	-	<0.005	x	x	x	x	x	x	x	<0.005	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Phorate[1]	298-02-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	<0.0001	x	x	x	x	x	x	x	<0.0001	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	<0.01	x	x	x	x	x	x	x	<0.01	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in EPA, Subpart 803., Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(#) Scanned for and not detected , breaks down almost immediately in water.

MW-9

APPENDIX B

Las Cruces Foothills Landfill MW-9

Las Cruces Foothills Landfill monitoring well MW-9

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-9										baseline average	standard deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/28/16	6/28/17	12/19/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
Field Parameters															
water level elevation		ft amsl	-	3,844.86	3,844.93	3,844.61	3,844.20	3,845.25	3,842.85	3,838.88	3,837.73	3,837.90	3,837.24	3,844.77	0.39
conductivity		µS/cm	-	3,700	4,638	3,150	3,500	3,320	3,300	2,800	3,110	1,877	1,436	3,662	583
pH		pH units	6-9	7.27	6.48	6.33	6.30	6.46	6.45	6.62	6.69	6.86	6.54	6.57	0.40
temperature		deg F	-	107.6	110.8	111.2	108.0	103.6	106.3	109.8	103.6	106.9	99.1	108.2	3.0
Major Ions															
calcium	7440-70-2	mg/L	-	180	170	150	160	170	150	120	130	68	130	166	11
chloride	16887-00-6	mg/L	250	770	700	680	740	810	670	490	640	250	710	740.0	52.4
fluoride[1]	16984-48-8	mg/L	1.6	1.4	1.5	1.5	1.4	1.3	x	x	x	x	x	1.42	0.08
magnesium	7439-95-4	mg/L	-	37	33	30	32	35	32	24	29	14	25	33.4	2.7
potassium	7440-09-7	mg/L	-	54	49	46	47	53	50	43	48	33	43	49.8	3.6
sodium	82115-62-6	mg/L	-	510	490	430	450	470	450	390	430	260	420	470	32
sulfate	18785-72-3	mg/L	600	240	210	200	220	210	190	170	150	130	130	216	15
alkalinity	NA	mg/L	-	460	440	440	450	450	420	400	364.3	401.9	352	448	8
bicarbonate alkalinity	71-52-3	mg/L	-	460	440	440	450	450	420	400	364.3	401.9	352	448	8
carbonate alkalinity	3812-32-6	mg/L	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	x
total dissolved solids	NA	mg/L	1,000	2,070	1,930	1,870	1,950	2,020	1,910	1,600	1,780	1,110	1,680	1,968	78
Nitrogen Species															
ammonia as N	1331-21-6	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	x
Kjeldahl nitrogen	7727-37-9	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x	x	x	<1.0	x
nitrate as N	14797-55-8	mg/L	10	0.26	x	x	x	x	<0.1	<0.1	0.59	<1.0	0.30	x	x
nitrite	14797-65-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
total nitrogen	-	mg/L	-	<1.0	<1.0	<1.0	<1.0	<1.0	x	x	x	x	x	<1.0	x
Metals															
aluminum	7429-90-5	mg/L	5.0	<0.02	<0.02	<0.02	0.076	<0.02	x	x	x	x	x	0.076	x
antimony[1]	7440-36-0	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
arsenic[1]	7440-38-2	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	x
barium[1]	7440-39-3	mg/L	1.0	0.12	0.11	0.10	0.10	0.11	0.097	0.079	0.110	0.050	0.096	0.11	0.01
beryllium[1]	7440-41-7	mg/L	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.001	x
boron	7440-42-8	mg/L	0.75	0.39	0.35	0.35	0.34	0.37	x	x	x	x	x	0.36	0.02
cadmium[1]	7440-43-9	mg/L	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
chromium[1]	7440-47-3	mg/L	0.05	<0.006	<0.006	<0.006	0.0084	<0.006	<0.006	<0.006	0.041	0.0093	0.029	<0.006	x
cobalt[1]	7440-48-4	mg/L	0.05	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	x
copper[1]	7440-50-8	mg/L	1.0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0046	<0.006	x
iron	7439-89-6	mg/L	1.0	0.32	0.25	0.17	0.31	0.092	0.066	0.052	0.28	0.31	0.65	0.23	0.10
lead[1]	7439-92-1	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.0005	<0.0005	<0.005	x
manganese	7439-96-5	mg/L	0.2	0.46	0.30	0.25	0.18	0.16	0.06	0.054	0.15	0.047	0.056	0.27	0.12
mercury[1]	7439-97-6	mg/L	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	x	x	x	x	x	<0.0002	x
molybdenum	7439-98-7	mg/L	1.0	0.0093	0.0095	0.0084	<0.008	<0.008	x	x	x	x	x	0.0091	0.0006
nickel[1]	7440-02-0	mg/L	0.2	0.12	0.024	0.072	0.098	0.070	0.13	0.18	0.16	0.17	0.21	0.077	0.036
selenium[1]	7782-49-2	mg/L	0.05	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	0.0037	0.0021	0.0012	<0.001	0.005	x
silver[1]	7440-22-4	mg/L	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<0.005	<0.005	0.022	<0.005	x
thallium[1]	7440-28-0	mg/L	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.001	x
tin[1]	7440-31-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
uranium[1]	7440-61-1	mg/L	0.03	0.00424	0.00377	0.00403	0.004	0.00418	x	x	x	x	x	0.0040	0.0002
vanadium[1]	7440-62-2	mg/L	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	x
zinc	7440-66-6	mg/L	10.0	<0.02	<0.02	<0.02	0.03	0.021	0.069	0.071	<0.01	0.038	0.088	0.026	0.006
total organic carbon	-	mg/L	-	2.4	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	1.3	2.6	1.4	2.4	0.0
phosphate	14265-44-2	mg/L	-	<0.5	<0.5	<0.5	<0.5	<0.5	x	x	x	x	x	<0.5	x
sulfide[1]	18496-25-8	mg/L	-	<0.1	x	x	x	x	x	x	x	x	x	<0.1	x
cyanide[1]	57-12-5	mg/L	0.2	<0.01	<0.01	<0.01	<0.02	<0.01	x	x	x	x	x	<0.02	x
perchlorate[1]	14797-73-0	mg/L	-	<0.0001	<0.0001	x	x	x	x	x	x	x	x	<0.0001	x
total phenolics[1]	-	mg/L	0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	x
Polychlorinated Biphenyls (PCBs)[1]	1336-36-3	mg/L	0.0005	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane[1]	630-20-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,1-Trichloroethane[1]	71-56-6	mg/L	0.06	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2,2-Tetrachloroethane[1]	79-34-5	mg/L	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1,2-Trichloroethane[1]	79-00-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethane[1]	75-34-3	mg/L	0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloroethylene (1,1-Dichloroethene; 1,1-DCE)[1]	75-35-4	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,1-Dichloropropene[1]	563-58-6	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
1,2 Dibromo-3-chloropropane (DBCP)[1]	96-12-8	mg/L	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00002	<0.000019	<0.000094	<0.0001	x
1,2,3-Trichlorobenzene	87-61-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1,2,3-Trichloropropane[1]	96-18-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2,4-Trichlorobenzene[1]	120-82-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
1,2-Dichlorobenzene (o-Dichlorobenzene)[1]	95-50-1	mg/L	0.6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloroethane (EDC)[1]	107-06-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
1,2-Dichloropropane[1]	78-87-5	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
1,3-Dichlorobenzene (m-Dichlorobenzene)[1]	541-73-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
1,3-Dichloropropane[1]	142-28-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
1,4-Dichlorobenzene (p-Dichlorobenzene)[1]	106-46-7	mg/L	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
2,2-Dichloropropane[1]	78-87-5	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
2-Butanone (Methyl Ethyl Ketone) (MEK)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
2-Chlorotoluene[1]	95-49-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
2-Hexanone (Butyl Ketone)[1]	78-93-3	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
4-Chlorotoluene[1]	106-43-4	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
4-Methyl-2-pentanone[1]	108-10-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acetone[1]	67-64-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Acetonitrile[1]	75-05-8	mg/L	-	<0.1	x	x	x	x	x	x	x	x	x	<0.1	x

APPENDIX B

Las Cruces Foothills Landfill MW-9

Las Cruces Foothills Landfill monitoring well MW-9

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-9										baseline average	standard deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/28/16	6/28/17	12/19/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
Acrolein[1]	107-02-8	mg/L	-	<0.1	x	x	x	x	x	x	x	x	x	<0.1	x
Acrylonitrile[1]	107-13-1	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Allyl chloride[1]	107-05-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Benzene[1]	71-43-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bis(chloromethyl) ether[1]	542-88-1	mg/L	-	(#)	x	x	x	x	x	x	x	x	x	(#)	x
Bromochloromethane[1]	74-97-5	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Bromomethane (methyl bromide)[1]	74-83-9	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Carbon Disulfide[1]	75-15-00	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Carbon Tetrachloride[1]	56-23-5	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chlorobenzene[1]	108-90-7	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroethane[1]	75-03-3	mg/L	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
Chloromethane (methyl chloride)[1]	74-87-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroprene (2-Chloro-1,3-butadiene)[1]	126-99-8	mg/L	-	<0.05	x	x	x	x	x	x	x	x	x	<0.05	x
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)[1]	156-59-2	mg/L	0.07	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
cis-1,3-Dichloropropene[1]	542-75-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromomethane (methylene bromide)[1]	74-95-3	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dichlorodifluoromethane[1]	75-71-8	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethyl methacrylate[1]	97-63-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Ethylbenzene[1]	100-41-4	mg/L	0.7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Ethylene Dibromide (1,2-Dibromoethane) (EDB)[1]	106-93-4	mg/L	0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0000094	<0.0000094	<0.0001	x
Hexachlorobutadiene[1]	87-68-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Isobutyl alcohol[1]	78-83-1	mg/L	-	<0.05	x	x	x	x	x	x	x	x	x	<0.05	x
Isopropylbenzene[1]	98-82-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Methacrylonitrile[1]	126-98-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x	<0.005	x
Methyl Iodide (Iodomethane)[1]	74-88-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Methyl methacrylate[1]	80-62-6	mg/L	-	<0.03	x	x	x	x	x	x	x	x	x	<0.03	x
Methylene Chloride[1]	75-09-2	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0025	<0.0025	<0.001	x
n-Butylbenzene[1]	104-51-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Propionitrile[1]	107-12-0	mg/L	-	<0.06	x	x	x	x	x	x	x	x	x	<0.06	x
Propylbenzene[1]	103-65-1	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
sec-Butylbenzene[1]	113-98-8	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Styrene[1]	100-42-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
tert-Butyl methyl ether (MTBE) (a)[1]	1634-04-4	mg/L	0.1	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
tert-Butylbenzene[1]	98-06-6	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Tetrachloroethene (PCE)[1]	127-18-4	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	x
Tetrahydrofuran (THF)[1]	109-99-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Toluene[1]	108-88-3	mg/L	0.75	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Total Xylenes (m&p and o)[1]	NA	mg/L	0.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	x
trans-1,2-Dichloroethene[1]	156-60-5	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,3-Dichloropropene[1]	10061-02-6	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
trans-1,4-Dichloro-2-butene[1]	110-57-6	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Trichloroethene (TCE)	79-01-6	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Trichlorofluoromethane[1]	75-69-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Vinyl acetate[1]	108-05-4	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	x
Vinyl chloride[1]	75-01-4	mg/L	0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	x
Trihalomethanes (THM)															
Bromodichloromethane[1]	75-27-4	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Bromoform[1]	75-25-2	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Chloroform[1]	67-66-3	mg/L	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Dibromochloromethane[1]	124-48-1	mg/L	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	x
Semi Volatile Organic Compounds															
1,2,4,5-Tetrachlorobenzene[1]	95-94-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
1,2-Diphenylhydrazine	122-66-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
1,4-Naphthoquinone[1]	130-15-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
1-Chloronaphthalene	NA	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
1-Methylnaphthalene	86-52-2	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	x	x	<0.01	x
1-Naphthylamine[1]	134-32-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trinitrotoluene (TNT)	118-96-7	mg/L	-	<0.0002	<0.0002	<0.0002	x	x	x	x	x	x	x	<0.0002	x
2,4-Dinitrotoluene (2,4-DNT)	121-14-2	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.0001	x
2,6-Dinitrotoluene[1] (2,6-DNT)	606-20-2	mg/L	-	<0.0002	<0.0002	<0.0002	x	x	x	x	x	x	x	<0.0002	x
2-Acetylaminofluorene[1]	53-96-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Chloronaphthalene[1]	91-58-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Methylnaphthalene[1]	91-57-6	mg/L	-	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	x	x	<0.01	x
2-Naphthylamine[1]	91-59-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Nitroaniline (o-Nitroaniline)[1]	88-74-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Picoline	109-06-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
3,3'-Dichlorobenzidine[1]	91-94-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
3,3'-Dimethylbenzidine	119-93-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
3-Methylcholanthrene[1]	56-49-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
3-Nitroaniline (m-Nitroaniline)[1]	99-09-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4-Aminobiphenyl[1]	92-67-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4-Bromophenylphenyl ether	101-55-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4-Chloroaniline (p-Chloroanaline)[1]	106-47-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4-Chlorophenylphenyl ether[1]	7005-72-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4-Nitroaniline (p-Nitroaniline)[1]	100-01-6	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
5-Nitro-o-toluidine[1]	99-55-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
7,12-Dimethylbenz (a) anthracene[1]	57-97-6	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Acenaphthene[1]	83-32-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Acenaphthylene[1]	208-96-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Acetophenone[1]	98-86-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x

APPENDIX B

Las Cruces Foothills Landfill MW-9

Las Cruces Foothills Landfill monitoring well MW-9

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-9										baseline average	standard deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/28/16	6/28/17	12/19/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
alpha,alpha-Dimethylphenethylamine	122-09-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Aniline[1]	62-53-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Anthracene[1]	120-12-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Benzidine[1]	92-87-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Benzo (a) anthracene[1]	56-55-3	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Benzo (a) pyrene[1]	50-32-8	mg/L	0.0002	<0.0001	<0.00007	<0.00007	<0.00007	<0.00007	x	x	x	x	x	<0.0001	x
Benzo (b) fluoranthene[1]	205-99-2	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Benzo (g,h,i) perylene[1]	191-24-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Benzo (k) fluoranthene[1]	207-08-9	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Benzoic acid[1]	65-85-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Benzyl alcohol[1]	100-51-6	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethoxy) methane[1]	111-91-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroethyl) ether[1]	111-44-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Chloroisopropyl) ether (bis (2-chloro-1-methylethyl) ether)[1]	108-60-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
bis (2-Ethylhexyl) phthalate	117-81-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x	<0.005	x
Butylbenzylphthalate[1]	85-68-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Carbazole	86-74-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Chlorobenzilate[1]	510-15-6	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Chrysene[1]	218-01-9	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Diallate[1]	2303-16-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Dibenz (a,j) acridine	224-42-0	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Dibenzo (a,h) anthracene[1]	226-36-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Dibenzofuran[1]	132-64-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Diethylene Glycol Monobutyl Ether	112-34-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Diethylphthalate[1]	84-66-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Dimethylphthalate[1]	131-11-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Di-n-butylphthalate[1]	84-74-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Di-n-octylphthalate[1]	117-84-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Diphenylamine[1]	122-39-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Ethyl methanesulfonate[1]	62-50-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Fluoranthene[1]	206-44-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Fluorene[1]	86-73-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Hexachlorobenzene[1]	118-74-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Hexachlorocyclopentadiene[1]	77-47-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Hexachloroethane[1]	67-72-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Hexachloropropene[1]	1888-71-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
HMX[1]	2691-41-0	mg/L	-	0.00101	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Indeno (1,2,3-cd) pyrene[1]	193-39-5	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Isophorone[1]	78-59-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Isosafrole[1]	120-58-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
m-Dinitrobenzene (1,3-DNB)	99-65-0	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Methapyrilene[1]	91-80-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Methyl methanesulfonate[1]	66-27-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Naphthalene[1]	91-20-3	mg/L	0.03	<0.01	<0.002	<0.002	<0.002	<0.002	x	x	x	x	x	<0.01	x
Nitrobenzene[1]	98-95-3	mg/L	-	<0.01	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodiethylamine[1]	55-18-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodimethylamine[1]	62-75-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodi-n-butylamine[1]	924-16-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodinpropylamine[1]	621-64-7	mg/L	-	<0.010	x	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosodiphenylamine[1]	86-30-6	mg/L	-	<0.002	x	x	x	x	x	x	x	x	x	<0.002	x
n-Nitrosomethylethylamine[1]	10595-95-6	mg/L	-	<0.002	x	x	x	x	x	x	x	x	x	<0.002	x
n-Nitrosopiperidine[1]	100-75-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
n-Nitrosopyrrolidine[1]	930-55-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
o-Toluidine[1]	95-53-4	mg/L	-	<0.002	x	x	x	x	x	x	x	x	x	<0.002	x
p-(Dimethylamino) azobenzene[1]	60-11-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pentachlorobenzene[1]	608-93-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pentachloronitrobenzene[1]	82-68-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Phenacetin[1]	62-44-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Phenanthrene[1]	85-01-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
p-Phenylenediamine[1]	106-50-3	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pronamide[1]	23950-58-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pyrene[1]	129-00-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pyridine	110-86-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
RDX[1]	121-82-4	mg/L	-	0.000370	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Safrole[1]	94-59-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
sym-Trinitrobenzene[1] (1,3,5-TNB)	99-35-4	mg/L	-	<0.0001	<0.0001	<0.0001	x	x	x	x	x	x	x	<0.0001	x
Semi Volatile Organic Compounds - Phenolics															
2,3,4,6-Tetrachlorophenol[1]	58-90-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4,5-Trichlorophenol[1]	95-95-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4,6-Trichlorophenol[1]	88-06-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dichlorophenol[1]	120-83-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dimethylphenol[1]	105-67-9	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,4-Dinitrophenol[1]	51-28-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2,6-Dichlorophenol[1]	87-65-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Chlorophenol[1]	95-57-8	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Methylphenol (o-Cresol)[1]	95-48-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
2-Nitrophenol (o-Nitrophenol)[1]	88-75-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
3-Methylphenol/4-Methylphenol (m&p-Cresol)[1]	)8-39-4/106-44	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)[1]	534-52-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
p-Chloro-m-cresol (4-Chloro-3-methylphenol)[1]	59-50-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x	<0.005	x

APPENDIX B

Las Cruces Foothills Landfill MW-9

Las Cruces Foothills Landfill monitoring well MW-9

constituent	CAS Number	unit	GWPS	RESULTS FOR MW-9										baseline average	standard deviation
date				12/29/10	5/18/11	8/23/11	11/28/11	12/29/11	12/20/12	6/26/13	12/28/16	6/28/17	12/19/17	12/29/10 to 12/29/11	12/29/10 to 12/29/11
4-Nitrophenol (p-Nitrophenol)[1]	100-02-7	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Pentachlorophenol[1]	87-86-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Phenol[1] (a)	108-95-2	mg/L	0.005	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Radium 226 and 228	NA	pCi/L	5	10.24	8.74	6.51	5.73	3.78	x	x	x	x	x	7.00	2.54
Ra-226, total	NA	pCi/L	-	1.88	1.210	0.788	1.71	1.26	x	x	x	x	x	1.37	0.43
Ra-228[1], total	NA	pCi/L	-	8.36	7.53	5.72	4.02	2.52	x	x	x	x	x	5.63	2.42
Chlorinated Pesticides															
4,4'-DDD (p,p'-DDD)[1]	72-54-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.01	x
4,4'-DDE (p,p'-DDE)[1]	72-55-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.0001	x
4,4'-DDT (p,p'-DDT)[1]	50-29-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.0001	x
aldrin[1]	309-00-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.0001	x
alpha-BHC[1]	319-84-6	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
alpha-Chlordane[1]	5103-71-9	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
beta-BHC[1]	319-85-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Chlordane[1]	57-74-9	mg/L	0.002	<0.005	x	x	x	x	x	x	x	x	x	<0.005	x
delta-BHC[1]	319-86-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Dieldrin[1]	60-57-1	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan I (alpha-Endosulfan)[1]	959-98-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan II (beta-Endosulfan)[1]	33213-65-9	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Endosulfan sulfate[1]	1031-07-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Endrin aldehyde[1]	7421-93-4	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Endrin ketone	53494-70-5	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Endrin[1]	72-20-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
gamma-BHC[1]	319-86-8	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
gamma-Chlordane[1]	5103-74-2	mg/L	-	x	x	x	x	x	x	x	x	x	x	x	x
Heptachlor epoxide[1]	1024-57-3	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Heptachlor[1]	76-44-8	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Isodrin[1]	465-73-6	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Kepone[1]	143-50-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Methoxychlor[1]	72-43-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Toxaphene[1]	8001-35-2	mg/L	-	<0.001	x	x	x	x	x	x	x	x	x	<0.001	x
Polychlorinated Biphenyls (PCBs)[1]															
Arochlor-1016	12674-11-2	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1221	11104-28-2	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1232	11141-16-5	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1242	53469-21-9	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1248	12672-29-6	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1254	11097-69-1	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Arochlor-1260	11096-82-5	mg/L	-	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	x	x	x	x	x	<0.00025	x
Other Pesticides and Herbicides[1]															
2,3,7,8-TCDD	1746-01-6	ng/L	0.03	<0.000394	x	x	x	x	x	x	x	x	x	<0.000394	x
2,4,5-T[1]	93-76-5	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
2,4-Dichlorophenoxyacetic acid (2,4-D)[1]	94-75-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Dimethoate[1]	60-51-5	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Dinoseb[1]	88-85-7	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
Disulfoton[1]	298-04-4	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Famphur[1]	52-58-7	mg/L	-	<0.005	x	x	x	x	x	x	x	x	x	<0.005	x
Methyl parathion[1]	298-00-0	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
o,o,o-Triethyl phosphorothioate[1]	126-68-1	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Parathion (Ethyl)[1]	56-38-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Phorate[1]	298-02-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x
Silvex[1] (2,4,5-TP)	93-72-1	mg/L	-	<0.0001	x	x	x	x	x	x	x	x	x	<0.0001	x
o,o-Diethyl o-2pyrazinyl phosphorothioate (Thionazin)[1]	297-97-2	mg/L	-	<0.01	x	x	x	x	x	x	x	x	x	<0.01	x

* baseline averages and standard deviations are based on 1999 and 2000 data only as per requirements in EPA, Subpart 803., Ground Water Sampling and Analysis, 1995.

[1] hazardous

x parameter not analyzed

(#) Scanned for and not detected , breaks down almost immediately in water.

Appendix C.

Copy of laboratory reports for the June 20 and 27, 2018 sampling event

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 17, 2018

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3635
FAX (575) 528-3513

RE: CLC Foothills Landfill Closure Monitoring Wells OrderNo.: 1806H19

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/28/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1806H19**
Date Reported: **7/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Lab Order: 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

Lab ID: 1806H19-001
Collection Date: 6/27/2018 10:31:00 AM
Client Sample ID: CLC MW#1
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 504.1: EDB/DBCP						Analyst: **JME**	
1,2-Dibromo-3-chloropropane	ND	0.019		µg/L	1	7/3/2018 9:31:23 PM	39020
1,2-Dibromoethane	ND	0.0095		µg/L	1	7/3/2018 9:31:23 PM	39020
EPA METHOD 9060 TOC						Analyst: **CLP**	
Total Organic Carbon	ND	1.0		mg/L	1	7/10/2018 6:50:57 PM	R52607
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	57	10		mg/L	20	6/29/2018 1:37:49 PM	R52379
Sulfate	30	0.50		mg/L	1	6/29/2018 1:00:35 PM	R52379
Nitrate+Nitrite as N	2.8	1.0		mg/L	5	7/12/2018 7:06:13 AM	A52642
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JRR**	
Conductivity	450	5.0		µmhos/c	1	7/9/2018 1:08:29 PM	R52538
SM2320B: ALKALINITY						Analyst: **JRR**	
Bicarbonate (As CaCO3)	72.88	20.00		mg/L Ca	1	7/2/2018 5:19:17 PM	R52453
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	7/2/2018 5:19:17 PM	R52453
Total Alkalinity (as CaCO3)	72.88	20.00		mg/L Ca	1	7/2/2018 5:19:17 PM	R52453
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	273	20.0		mg/L	1	7/2/2018 6:58:00 PM	38995
SM 4500 NH3: AMMONIA						Analyst: **smb**	
Nitrogen, Ammonia	ND	1.0		mg/L	1	7/16/2018 2:14:00 PM	R52722
SM4500-H+B / 9040C: PH						Analyst: **JRR**	
pH	8.16		H	pH units	1	7/2/2018 5:19:17 PM	R52453
EPA METHOD 200.7: TOTAL METALS						Analyst: **pmf**	
Barium	0.11	0.0020		mg/L	1	7/9/2018 7:18:23 PM	38978
Beryllium	ND	0.0020		mg/L	1	7/6/2018 5:19:46 PM	38978
Cadmium	ND	0.0020		mg/L	1	7/9/2018 7:18:23 PM	38978
Calcium	30	1.0		mg/L	1	7/6/2018 5:19:46 PM	38978
Chromium	ND	0.0060		mg/L	1	7/9/2018 7:18:23 PM	38978
Cobalt	ND	0.0060		mg/L	1	7/6/2018 5:19:46 PM	38978
Copper	ND	0.0060		mg/L	1	7/9/2018 7:18:23 PM	38978
Iron	0.078	0.020		mg/L	1	7/6/2018 5:19:46 PM	38978
Magnesium	7.6	1.0		mg/L	1	7/6/2018 5:19:46 PM	38978
Manganese	0.0084	0.0020		mg/L	1	7/6/2018 5:19:46 PM	38978
Nickel	ND	0.010		mg/L	1	7/9/2018 7:18:23 PM	38978
Potassium	3.0	1.0		mg/L	1	7/6/2018 5:19:46 PM	38978
Silver	ND	0.0050		mg/L	1	7/9/2018 7:18:23 PM	38978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces **Lab Order:** 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

EPA METHOD 200.7: TOTAL METALS					Analyst: **pmf**	
Sodium	43	1.0	mg/L	1	7/9/2018 7:18:23 PM	38978
Vanadium	ND	0.050	mg/L	1	7/6/2018 5:19:46 PM	38978
Zinc	ND	0.010	mg/L	1	7/9/2018 7:18:23 PM	38978
200.8 ICPMS METALS:TOTAL					Analyst: **ELS**	
Antimony	ND	0.0010	mg/L	1	7/2/2018 11:01:56 AM	38978
Arsenic	ND	0.0010	mg/L	1	7/2/2018 11:01:56 AM	38978
Lead	ND	0.00050	mg/L	1	7/2/2018 11:01:56 AM	38978
Selenium	0.0017	0.0010	mg/L	1	7/2/2018 11:01:56 AM	38978
Thallium	ND	0.00050	mg/L	1	7/2/2018 11:01:56 AM	38978
EPA METHOD 8260B: VOLATILES, TABLE I					Analyst: **DJF**	
Benzene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Toluene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Ethylbenzene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Acetone	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Bromodichloromethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Bromoform	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Bromomethane	ND	2.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
2-Butanone	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Carbon disulfide	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Carbon Tetrachloride	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Chlorobenzene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Chloroethane	ND	2.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Chloroform	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Chloromethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
cis-1,2-DCE	4.7	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Dibromochloromethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Dibromomethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,2-Dichlorobenzene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,4-Dichlorobenzene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Dichlorodifluoromethane	1.8	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1-Dichloroethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1-Dichloroethene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,2-Dichloropropane	ND	0.50	µg/L	1	7/6/2018 10:49:46 AM	LF5252
2-Hexanone	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
4-Methyl-2-pentanone	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Methylene Chloride	ND	2.5	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Styrene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Tetrachloroethene (PCE)	11	0.50	µg/L	1	7/6/2018 10:49:46 AM	LF5252

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces **Lab Order:** 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

EPA METHOD 8260B: VOLATILES, TABLE I					Analyst: **DJF**	
trans-1,2-DCE	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1,1-Trichloroethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,1,2-Trichloroethane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Trichloroethene (TCE)	2.2	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Trichlorofluoromethane	1.1	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
1,2,3-Trichloropropane	ND	1.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Vinyl chloride	ND	0.40	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Xylenes, Total	ND	2.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Acrylonitrile	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Bromochloromethane	ND	2.0	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Iodomethane	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
trans-1,4-Dichloro-2-butene	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Vinyl acetate	ND	10	µg/L	1	7/6/2018 10:49:46 AM	LF5252
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/6/2018 10:49:46 AM	LF5252
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	7/6/2018 10:49:46 AM	LF5252
Surr: Dibromofluoromethane	96.4	70-130	%Rec	1	7/6/2018 10:49:46 AM	LF5252
Surr: Toluene-d8	101	70-130	%Rec	1	7/6/2018 10:49:46 AM	LF5252
TOTAL PHENOLICS BY SW-846 9067					Analyst: **CLP**	
Phenolics	ND	2.5	µg/L	1	7/13/2018	39199

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Lab Order: 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

Lab ID: 1806H19-002
Collection Date: 6/27/2018 1:14:00 PM
Client Sample ID: CLC MW#4
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 504.1: EDB/DBCP						Analyst: **JME**	
1,2-Dibromo-3-chloropropane	ND	0.019		µg/L	1	7/3/2018 9:46:53 PM	39020
1,2-Dibromoethane	ND	0.0095		µg/L	1	7/3/2018 9:46:53 PM	39020
EPA METHOD 9060 TOC						Analyst: **CLP**	
Total Organic Carbon	ND	1.0		mg/L	1	7/10/2018 7:37:29 PM	R52607
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	6.9	0.50		mg/L	1	6/29/2018 2:15:03 PM	R52379
Sulfate	32	0.50		mg/L	1	6/29/2018 2:15:03 PM	R52379
Nitrate+Nitrite as N	ND	1.0		mg/L	5	7/12/2018 7:18:38 AM	A52642
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JRR**	
Conductivity	720	5.0		µmhos/c	1	7/9/2018 1:12:30 PM	R52538
SM2320B: ALKALINITY						Analyst: **JRR**	
Bicarbonate (As CaCO3)	349.4	20.00		mg/L Ca	1	7/2/2018 5:26:46 PM	R52453
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	7/2/2018 5:26:46 PM	R52453
Total Alkalinity (as CaCO3)	349.4	20.00		mg/L Ca	1	7/2/2018 5:26:46 PM	R52453
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	452	20.0		mg/L	1	7/2/2018 6:58:00 PM	38995
SM 4500 NH3: AMMONIA						Analyst: **smb**	
Nitrogen, Ammonia	ND	1.0		mg/L	1	7/16/2018 2:14:00 PM	R52722
SM4500-H+B / 9040C: PH						Analyst: **JRR**	
pH	7.31		H	pH units	1	7/2/2018 5:26:46 PM	R52453
EPA METHOD 200.7: TOTAL METALS						Analyst: **pmf**	
Barium	0.082	0.0020		mg/L	1	7/9/2018 7:20:26 PM	38978
Beryllium	ND	0.0020		mg/L	1	7/6/2018 5:21:51 PM	38978
Cadmium	ND	0.0020		mg/L	1	7/9/2018 7:20:26 PM	38978
Calcium	110	5.0		mg/L	5	7/9/2018 7:22:33 PM	38978
Chromium	ND	0.0060		mg/L	1	7/9/2018 7:20:26 PM	38978
Cobalt	ND	0.0060		mg/L	1	7/6/2018 5:21:51 PM	38978
Copper	0.026	0.0060		mg/L	1	7/9/2018 7:20:26 PM	38978
Iron	ND	0.020		mg/L	1	7/6/2018 5:21:51 PM	38978
Magnesium	14	1.0		mg/L	1	7/6/2018 5:21:51 PM	38978
Manganese	ND	0.0020		mg/L	1	7/6/2018 5:21:51 PM	38978
Nickel	ND	0.010		mg/L	1	7/9/2018 7:20:26 PM	38978
Potassium	2.7	1.0		mg/L	1	7/6/2018 5:21:51 PM	38978
Silver	ND	0.0050		mg/L	1	7/9/2018 7:20:26 PM	38978

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces **Lab Order:** 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

EPA METHOD 200.7: TOTAL METALS					Analyst: **pmf**	
Sodium	32	1.0	mg/L	1	7/9/2018 7:20:26 PM	38978
Vanadium	ND	0.050	mg/L	1	7/6/2018 5:21:51 PM	38978
Zinc	0.019	0.010	mg/L	1	7/9/2018 7:20:26 PM	38978
200.8 ICPMS METALS:TOTAL					Analyst: **ELS**	
Antimony	ND	0.0010	mg/L	1	7/2/2018 11:04:19 AM	38978
Arsenic	ND	0.0010	mg/L	1	7/2/2018 11:04:19 AM	38978
Lead	0.0016	0.00050	mg/L	1	7/2/2018 11:04:19 AM	38978
Selenium	ND	0.0010	mg/L	1	7/2/2018 11:04:19 AM	38978
Thallium	ND	0.00050	mg/L	1	7/2/2018 11:04:19 AM	38978
EPA METHOD 8260B: VOLATILES, TABLE I					Analyst: **DJF**	
Benzene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Toluene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Ethylbenzene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Acetone	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Bromodichloromethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Bromoform	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Bromomethane	ND	2.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
2-Butanone	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Carbon disulfide	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Carbon Tetrachloride	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Chlorobenzene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Chloroethane	ND	2.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Chloroform	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Chloromethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
cis-1,2-DCE	2.3	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Dibromochloromethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Dibromomethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,2-Dichlorobenzene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,4-Dichlorobenzene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Dichlorodifluoromethane	1.8	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1-Dichloroethane	3.3	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1-Dichloroethene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,2-Dichloropropane	ND	0.50	µg/L	1	7/6/2018 12:17:24 PM	LF5252
2-Hexanone	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
4-Methyl-2-pentanone	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Methylene Chloride	12	2.5	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Styrene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Tetrachloroethene (PCE)	8.4	0.50	µg/L	1	7/6/2018 12:17:24 PM	LF5252

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces **Lab Order:** 1806H19
Project: CLC Foothills Landfill Closure Monitoring Well

EPA METHOD 8260B: VOLATILES, TABLE I					Analyst: **DJF**	
trans-1,2-DCE	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1,1-Trichloroethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,1,2-Trichloroethane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Trichloroethene (TCE)	2.7	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Trichlorofluoromethane	1.1	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
1,2,3-Trichloropropane	ND	1.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Vinyl chloride	ND	0.40	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Xylenes, Total	ND	2.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Acrylonitrile	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Bromochloromethane	ND	2.0	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Iodomethane	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
trans-1,4-Dichloro-2-butene	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Vinyl acetate	ND	10	µg/L	1	7/6/2018 12:17:24 PM	LF5252
Surr: 1,2-Dichloroethane-d4	99.1	70-130	%Rec	1	7/6/2018 12:17:24 PM	LF5252
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	7/6/2018 12:17:24 PM	LF5252
Surr: Dibromofluoromethane	89.3	70-130	%Rec	1	7/6/2018 12:17:24 PM	LF5252
Surr: Toluene-d8	104	70-130	%Rec	1	7/6/2018 12:17:24 PM	LF5252
TOTAL PHENOLICS BY SW-846 9067					Analyst: **CLP**	
Phenolics	ND	2.5	µg/L	1	7/13/2018	39199

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**MB-38978**	SampType:	**MBLK**	TestCode:	**EPA Method 200.7: Total Metals**
Client ID:	**PBW**	Batch ID:	**38978**	RunNo:	**52501**
Prep Date:	**6/29/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1721962** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID	**LLLCS-38978**	SampType:	**LCSLL**	TestCode:	**EPA Method 200.7: Total Metals**
Client ID:	**BatchQC**	Batch ID:	**38978**	RunNo:	**52501**
Prep Date:		Analysis Date:	**7/6/2018**	SeqNo:	**1721963** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020	0.002000	0	97.0	50	150			
Beryllium	ND	0.0020	0.002000	0	98.5	50	150			
Cadmium	0.0021	0.0020	0.002000	0	104	50	150			
Calcium	ND	1.0	0.5000	0	106	50	150			
Chromium	ND	0.0060	0.006000	0	96.8	50	150			
Cobalt	0.0062	0.0060	0.006000	0	104	50	150			
Copper	0.0062	0.0060	0.006000	0	103	50	150			
Iron	0.025	0.020	0.02000	0	127	50	150			
Magnesium	ND	1.0	0.5000	0	102	50	150			
Manganese	0.0022	0.0020	0.002000	0	112	50	150			
Nickel	ND	0.010	0.005000	0	120	50	150			
Potassium	ND	1.0	0.5000	0	103	50	150			
Silver	0.0051	0.0050	0.005000	0	102	50	150			
Sodium	ND	1.0	0.5000	0	106	50	150			
Vanadium	ND	0.050	0.01000	0	107	50	150			
Zinc	ND	0.010	0.005000	0	139	50	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**LCS-38978**	SampType:	**LCS**	TestCode:	**EPA Method 200.7: Total Metals**
Client ID:	**LCSW**	Batch ID:	**38978**	RunNo:	**52501**
Prep Date:	**6/29/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1721964** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.4	85	115			
Beryllium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	49	1.0	50.00	0	97.0	85	115			
Chromium	0.50	0.0060	0.5000	0	101	85	115			
Cobalt	0.50	0.0060	0.5000	0	99.6	85	115			
Copper	0.50	0.0060	0.5000	0	100	85	115			
Iron	0.50	0.020	0.5000	0	99.5	85	115			
Magnesium	48	1.0	50.00	0	96.9	85	115			
Manganese	0.50	0.0020	0.5000	0	101	85	115			
Nickel	0.50	0.010	0.5000	0	99.5	85	115			
Potassium	49	1.0	50.00	0	97.3	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			
Sodium	50	1.0	50.00	0	100	85	115			
Vanadium	0.51	0.050	0.5000	0	102	85	115			
Zinc	0.50	0.010	0.5000	0	99.5	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**MB-38978**	SampType:	**MBLK**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**PBW**	Batch ID:	**38978**	RunNo:	**52400**				
Prep Date:	**6/29/2018**	Analysis Date:	**7/2/2018**	SeqNo:	**1717760**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								

Sample ID	**MSLLLCS-38978**	SampType:	**LCSLL**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**BatchQC**	Batch ID:	**38978**	RunNo:	**52400**				
Prep Date:	**6/29/2018**	Analysis Date:	**7/2/2018**	SeqNo:	**1717761**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0011	0.0010	0.001000	0	109	50	150			
Arsenic	0.0010	0.0010	0.001000	0	103	50	150			
Lead	ND	0.00050	0.0005000	0	99.7	50	150			
Selenium	ND	0.0010	0.001000	0	91.9	50	150			
Thallium	ND	0.00050	0.0005000	0	95.0	50	150			

Sample ID	**MSLCS-38978**	SampType:	**LCS**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**LCSW**	Batch ID:	**38978**	RunNo:	**52400**				
Prep Date:	**6/29/2018**	Analysis Date:	**7/2/2018**	SeqNo:	**1717762**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	102	85	115			
Arsenic	0.024	0.0010	0.02500	0	96.3	85	115			
Lead	0.012	0.00050	0.01250	0	94.6	85	115			
Selenium	0.024	0.0010	0.02500	0	94.1	85	115			
Thallium	0.012	0.00050	0.01250	0	95.7	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R52379**	RunNo: **52379**
Prep Date:	Analysis Date: **6/29/2018**	SeqNo: **1717107** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R52379**	RunNo: **52379**
Prep Date:	Analysis Date: **6/29/2018**	SeqNo: **1717108** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.7	90	110			
Sulfate	9.2	0.50	10.00	0	92.0	90	110			

Sample ID **1806H19-001EMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **CLC MW#1**	Batch ID: **R52379**	RunNo: **52379**
Prep Date:	Analysis Date: **6/29/2018**	SeqNo: **1717126** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	41	0.50	10.00	29.72	109	84.3	120			

Sample ID **1806H19-001EMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **CLC MW#1**	Batch ID: **R52379**	RunNo: **52379**
Prep Date:	Analysis Date: **6/29/2018**	SeqNo: **1717127** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	40	0.50	10.00	29.72	105	84.3	120	1.08	20	

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A52642**	RunNo: **52642**
Prep Date:	Analysis Date: **7/11/2018**	SeqNo: **1728086** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A52642**	RunNo: **52642**
Prep Date:	Analysis Date: **7/11/2018**	SeqNo: **1728087** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.5	90	110			

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID **MB-39020**	SampType: **MBLK**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **PBW**	Batch ID: **39020**	RunNo: **52467**
Prep Date: **7/3/2018**	Analysis Date: **7/3/2018**	SeqNo: **1720398** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	0.020								
1,2-Dibromoethane	ND	0.010								

Sample ID **LCS-39020**	SampType: **LCS**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **LCSW**	Batch ID: **39020**	RunNo: **52467**
Prep Date: **7/3/2018**	Analysis Date: **7/3/2018**	SeqNo: **1720399** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.087	0.020	0.1000	0	87.1	70	130			
1,2-Dibromoethane	0.10	0.010	0.1000	0	103	70	130			

Sample ID **1806H19-002BMS**	SampType: **MS**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **CLC MW#4**	Batch ID: **39020**	RunNo: **52467**
Prep Date: **7/3/2018**	Analysis Date: **7/3/2018**	SeqNo: **1720403** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.083	0.019	0.09511	0	87.1	30.3	143			
1,2-Dibromoethane	0.051	0.0095	0.09511	0	53.8	25.9	131			

Sample ID **1806H19-002BMSD**	SampType: **MSD**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **CLC MW#4**	Batch ID: **39020**	RunNo: **52467**
Prep Date: **7/3/2018**	Analysis Date: **7/3/2018**	SeqNo: **1720404** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.084	0.019	0.09537	0	88.2	30.3	143	1.51	25.6	
1,2-Dibromoethane	0.068	0.0095	0.09537	0	71.8	25.9	131	28.9	23.2	R

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **PBW**	Batch ID: **LF52520**	RunNo: **52520**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1722647** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Acetone	ND	10								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	2.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	0.50								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	2.5								
Styrene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
Tetrachloroethene (PCE)	ND	0.50								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	1.0								
Vinyl chloride	ND	0.40								

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **PBW**	Batch ID: **LF52520**	RunNo: **52520**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1722647** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	2.0								
Acrylonitrile	ND	10								
Bromochloromethane	ND	2.0								
Iodomethane	ND	10								
trans-1,4-Dichloro-2-butene	ND	10								
Vinyl acetate	ND	10								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.5	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **LCSW**	Batch ID: **LF52520**	RunNo: **52520**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1722653** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **1806h19-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **CLC MW#1**	Batch ID: **LF52520**	RunNo: **52520**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1722655** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0.1154	112	60.5	137			
Toluene	21	1.0	20.00	0.07300	102	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	111	70	130			
Trichloroethene (TCE)	22	1.0	20.00	2.181	98.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**1806h19-001a msd**	SampType:	**MSD**	TestCode:	**EPA Method 8260B: Volatiles, Table I**
Client ID:	**CLC MW#1**	Batch ID:	**LF52520**	RunNo:	**52520**
Prep Date:		Analysis Date:	**7/6/2018**	SeqNo:	**1722656** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.1154	101	60.5	137	9.45	20	
Toluene	20	1.0	20.00	0.07300	99.9	70	130	2.42	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	0.969	20	
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130	8.40	20	
Trichloroethene (TCE)	20	1.0	20.00	2.181	89.6	70	130	8.65	20	
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130	0	0	
Surr: Dibromofluoromethane	9.4		10.00		94.3	70	130	0	0	
Surr: Toluene-d8	10		10.00		103	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
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QC SUMMARY REPORT
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WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**MB**	SampType:	**MBLK**	TestCode:	**EPA Method 9060 TOC**					
Client ID:	**PBW**	Batch ID:	**R52607**	RunNo:	**52607**					
Prep Date:		Analysis Date:	**7/10/2018**	SeqNo:	**1726695**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	1.0								

Sample ID	**LCS ST9060--17010**	SampType:	**LCS**	TestCode:	**EPA Method 9060 TOC**					
Client ID:	**LCSW**	Batch ID:	**R52607**	RunNo:	**52607**					
Prep Date:		Analysis Date:	**7/10/2018**	SeqNo:	**1726696**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	4.8	1.0	4.850	0	99.3	90	110			

Sample ID	**1806H19-001CMS**	SampType:	**MS**	TestCode:	**EPA Method 9060 TOC**					
Client ID:	**CLC MW#1**	Batch ID:	**R52607**	RunNo:	**52607**					
Prep Date:		Analysis Date:	**7/10/2018**	SeqNo:	**1726698**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	5.4	1.0	4.650	0.7247	100	75	125			

Sample ID	**1806H19-001CMSD**	SampType:	**MSD**	TestCode:	**EPA Method 9060 TOC**					
Client ID:	**CLC MW#1**	Batch ID:	**R52607**	RunNo:	**52607**					
Prep Date:		Analysis Date:	**7/10/2018**	SeqNo:	**1726699**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	5.4	1.0	4.650	0.7247	99.5	75	125	0.763	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**MB-39199**	SampType: **MBLK**			TestCode: **Total Phenolics by SW-846 9067**					
Client ID:	**PBW**	Batch ID: **39199**			RunNo: **52699**					
Prep Date:	**7/13/2018**	Analysis Date: **7/13/2018**			SeqNo: **1730213**	Units: **µg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	2.5								

Sample ID	**LCS-39199**	SampType: **LCS**			TestCode: **Total Phenolics by SW-846 9067**					
Client ID:	**LCSW**	Batch ID: **39199**			RunNo: **52699**					
Prep Date:	**7/13/2018**	Analysis Date: **7/13/2018**			SeqNo: **1730214**	Units: **µg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	19	2.5	20.00	0	94.5	53.3	138			

Sample ID	**1806H19-002DMS**	SampType: **MS**			TestCode: **Total Phenolics by SW-846 9067**					
Client ID:	**CLC MW#4**	Batch ID: **39199**			RunNo: **52699**					
Prep Date:	**7/13/2018**	Analysis Date: **7/13/2018**			SeqNo: **1730217**	Units: **µg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	12	2.5	20.00	2.208	47.8	70.1	127			S

Sample ID	**1806H19-002DMSD**	SampType: **MSD**			TestCode: **Total Phenolics by SW-846 9067**					
Client ID:	**CLC MW#4**	Batch ID: **39199**			RunNo: **52699**					
Prep Date:	**7/13/2018**	Analysis Date: **7/13/2018**			SeqNo: **1730218**	Units: **µg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	13	2.5	20.00	2.208	53.9	70.1	127	9.83	23.8	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**lcs-1 99.1uS eC**	SampType:	**LCS**		TestCode:	**SM2510B: Specific Conductance**				
Client ID:	**LCSW**	Batch ID:	**R52538**		RunNo:	**52538**				
Prep Date:		Analysis Date:	**7/9/2018**		SeqNo:	**1723759**	Units:	**µmhos/cm**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	5.0	99.10	0	99.9	80	120			

Sample ID	**lcs-2 99.1uS eC**	SampType:	**LCS**		TestCode:	**SM2510B: Specific Conductance**				
Client ID:	**LCSW**	Batch ID:	**R52538**		RunNo:	**52538**				
Prep Date:		Analysis Date:	**7/9/2018**		SeqNo:	**1723790**	Units:	**µmhos/cm**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	5.0	99.10	0	103	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID **MB**	SampType: **MBLK**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **PBW**	Batch ID: **R52722**	RunNo: **52722**							
Prep Date:	Analysis Date: **7/16/2018**	SeqNo: **1731086**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **LCSW**	Batch ID: **R52722**	RunNo: **52722**							
Prep Date:	Analysis Date: **7/16/2018**	SeqNo: **1731087**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10	1.0	10.00	0	101	80	120			

Sample ID **1806H19-001EMS**	SampType: **MS**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **CLC MW#1**	Batch ID: **R52722**	RunNo: **52722**							
Prep Date:	Analysis Date: **7/16/2018**	SeqNo: **1731096**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	11	1.0	10.00	0.7000	104	75	125			

Sample ID **1806H19-001EMSD**	SampType: **MSD**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **CLC MW#1**	Batch ID: **R52722**	RunNo: **52722**							
Prep Date:	Analysis Date: **7/16/2018**	SeqNo: **1731097**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	11	1.0	10.00	0.7000	104	75	125	0	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**
18-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**mb-1 alk**	SampType:	**MBLK**		TestCode:	**SM2320B: Alkalinity**				
Client ID:	**PBW**	Batch ID:	**R52453**		RunNo:	**52453**				
Prep Date:		Analysis Date:	**7/2/2018**		SeqNo:	**1719941**	Units:	**mg/L CaCO3**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	**lcs-1 alk**	SampType:	**LCS**		TestCode:	**SM2320B: Alkalinity**				
Client ID:	**LCSW**	Batch ID:	**R52453**		RunNo:	**52453**				
Prep Date:		Analysis Date:	**7/2/2018**		SeqNo:	**1719942**	Units:	**mg/L CaCO3**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	82.12	20.00	80.00	0	103	90	110			

Sample ID	**mb-2 alk**	SampType:	**MBLK**		TestCode:	**SM2320B: Alkalinity**				
Client ID:	**PBW**	Batch ID:	**R52453**		RunNo:	**52453**				
Prep Date:		Analysis Date:	**7/2/2018**		SeqNo:	**1719967**	Units:	**mg/L CaCO3**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	**lcs-2 alk**	SampType:	**LCS**		TestCode:	**SM2320B: Alkalinity**				
Client ID:	**LCSW**	Batch ID:	**R52453**		RunNo:	**52453**				
Prep Date:		Analysis Date:	**7/2/2018**		SeqNo:	**1719968**	Units:	**mg/L CaCO3**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.04	20.00	80.00	0	98.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806H19**

18-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Well

Sample ID	**MB-38995**	SampType:	**MBLK**	TestCode:	**SM2540C MOD: Total Dissolved Solids**					
Client ID:	**PBW**	Batch ID:	**38995**	RunNo:	**52428**					
Prep Date:	**7/1/2018**	Analysis Date:	**7/2/2018**	SeqNo:	**1718634**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	**LCS-38995**	SampType:	**LCS**	TestCode:	**SM2540C MOD: Total Dissolved Solids**					
Client ID:	**LCSW**	Batch ID:	**38995**	RunNo:	**52428**					
Prep Date:	**7/1/2018**	Analysis Date:	**7/2/2018**	SeqNo:	**1718635**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1040	20.0	1000	0	104	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1806H19 RcptNo: 1

Received By: **Erin Melendrez** 6/28/2018 9:00:00 AM

Completed By: **Erin Melendrez** 6/28/2018 2:25:29 PM

Reviewed By: 06-28-18

LB: JAB 06/28/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 7 (<2 or >12 unless noted)
Adjusted? No
Checked by: JAB

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____
By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: ____
Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: City of las Cruces
Water Quality Laboratory
Mailing Address: P.O. Box 20000
Las Cruces N.M. 88004
Phone #: 575-528-3604
email or Fax#: 575-528-3630
QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ NELAP ☐ Other
☑ EDD (Type) Excel

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: CLC Foothill Landfill Closure Monitoring Wells
Project #: Luis Guerra POC: Joshua Rosenblatt
Project Manager: Luis Guerra lguerra@las-cruces.org
Sampler: Yadira Ryan
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.9-1.0(CF)= 1.9

ENM 6/28/18

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1806H19	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Table 1: Reduced Parameter List				Air Bubbles (Y or N)
6-27-18	1031	Drinking Water	CLC MW#1	Various	Various	-001												X				
6-27-18	1314	Drinking Water	CLC MW#4	Various	Various	-002												X				

Date	Time	Relinquished by	Received by	Date	Time
6-27-18	1500	Yadira Ryan	[signature] Fedex 6/28/18 ENU	6/28/18	0900

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
acetone	67-64-1	8260B	-	0.01	0.0195	-	mg/L	y
acrylonitrile	107-13-1	8260B	-	0.1	0.195	-	mg/L	y
benzene	71-43-2	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
bromochloromethane	74-97-5	8260B	-	0.001	0.00195	-	mg/L	y
bromodichloromethane	75-27-4	8260B	-	0.005	0.00975	-	mg/L	y
bromoform	75-25-2	8260B	-	0.015	0.02925	-	mg/L	y
carbon disulfide	75-15-0	8260B	-	0.001	0.00195	-	mg/L	y
carbon tetrachloride	56-23-5	8260B	0.005	0.002	0.0025	0.00375	mg/L	y
chlorobenzene	108-90-7	8260B	0.1	0.005	0.05	0.075	mg/L	y
chloroethane	75-00-3	8260B	-	0.01	0.0195	-	mg/L	y
chloroform	67-66-3	8260B	0.1	0.005	0.05	0.75	mg/L	y
dibromochloromethane	124-48-1	8260B	-	0.005	0.00975	-	mg/L	y
1,2-dibromo-3-chloropropane	96-12-8	504.1	0.0002	0.0001	0.0001	0.00015	mg/L	y
1,2-dichlorobenzene	95-50-1	8260B	0.06	0.01	0.03	0.045	mg/L	y
1,3-dichlorobenzene	541-73-1	8260B	-	0.01	0.0195	-	mg/L	y
1,4-dichlorobenzene	106-46-7	8260B	0.075	0.015	0.0375	0.5625	mg/L	n
trans-1,4-dichloro-2-butene	110-57-6	8260B	-	0.001	0.00195	-	mg/L	y
dichlorodifluoromethane	75-71-8	8260B	-	0.005	0.00975	-	mg/L	y
1,1-dichloroethane	75-34-3	8260B	0.025	0.005	0.0125	0.01875	mg/L	n
1,2-dichloroethane (EDC)	107-06-2	8260B	0.005	0.001	0.0025	0.00375	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (continued)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
1,1-dichloroethylene (1,1-DCE)	75-35-4	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
cis-1,2-dichloroethylene	156-59-2	8260B	0.07	0.005	0.035	0.0525	mg/L	y
trans-1,2-dichloroethylene	156-60-5	8260B	0.1	0.005	0.05	0.075	mg/L	y
1,2-dichloropropane	78-87-5	8260B	0.005	0.0005	0.0025	0.00375	mg/L	y
cis-1,3-dichloropropene	10061-01-5	8260B	-	0.02	0.039	-	mg/L	y
trans-1,3-dichloropropene	10061-02-6	8260B	-	0.01	0.0195	-	mg/L	y
ethylbenzene	100-41-4	8260B	0.7	0.01	0.35	0.525	mg/L	y
ethylene dibromide (EDB)	106-93-4	504.1	0.00005	0.000025	0.000025	0.000038	mg/L	y
2-hexanone	591-78-6	8260B	-	0.04	0.078	-	mg/L	y
methyl bromide	74-83-9	8260B	-	0.01	0.0195	-	mg/L	y
methyl chloride	74-87-3	8260B	-	0.001	0.00195	-	mg/L	y
methyl ethyl ketone	78-93-3	8260B	-	0.01	0.0195	-	mg/L	y
methyl iodide	74-88-4	8260B	-	0.05	0.0975	-	mg/L	y
4-methyl-2-pentanone	108-10-1	8260B	-	0.001	0.00195	-	mg/L	y
methylene bromide	74-95-3	8260B	-	0.001	0.00195	-	mg/L	y
methylene chloride	74-87-3	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
styrene	100-42-5	8260B	0.1	0.001	0.05	0.075	mg/L	y
1,1,1,2-tetrachloroethane	630-20-6	8260B	-	0.001	0.00195	-	mg/L	y
1,1,2,2-tetrachloroethane	79-34-5	8260B	0.01	0.005	0.005	0.0075	mg/L	y
tetrachloroethylene (PCE)	127-18-4	8260B	0.005	0.0005	0.0025	0.00375	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (continued)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
toluene	108-88-3	8260B	0.75	0.001	0.375	0.5625	mg/L	y
1,1,1-trichloroethane	71-55-6	8260B	0.06	0.005	0.03	0.045	mg/L	y
1,1,2-trichloroethane	79-00-5	8260B	0.005	0.002	0.0025	0.00375	mg/L	y
trichloroethylene (TCE)	79-01-6	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
trichlorofluoromethane	75-69-4	8260B	-	0.01	0.0195	-	mg/L	y
1,2,3-trichloropropane	96-18-4	8260B	-	0.05	0.0975	-	mg/L	y
vinyl acetate	108-05-4	8260B	-	0.0004	0.00078	-	mg/L	y
vinyl chloride	75-01-4	8260B	0.001	0.0004	0.0005	0.00075	mg/L	y
xylenes	1330-20-7	8260B	0.62	0.0015	0.31	0.465	mg/L	y
ammonia as (N)	N/A	SM 4500 NH3	-	0.5	-	-	mg/L	n
nitrate (as N)	N/A	300.0	10	1.0	5.0	7.5	mg/L	n
chloride	16887-00-6	300.0	250	5.0	187.5	250	mg/L	n
sulfate	14808-79-8	300.0	250	5.0	187.5	250	mg/L	n
total dissolved solids	N/A	SM 2540C	500	5.0	-	-	mg/L	n
carbonate alkalinity	3812-32-6	SM 2320B	-	10	-	-	mg/L	n
bicarbonate alkalinity	71-52-3	SM 2320B	-	10	-	-	mg/L	n
total phenolics	N/A	9067	0.005	0.0025	0.0025	0.00375	mg/L	n
total organic carbon	N/A	9060	-	1	-	-	mg/L	n
barium (total)	7440-39-3	6010B	1	0.01	0.5	0.75	mg/L	y
beryllium (total)	7440-41-7	6010B	0.004	0.002	0.002	0.003	mg/L	y
cadmium (total)	7440-43-9	6010B	0.005	0.002	0.0025	0.00375	mg/L	y
calcium (total)	7440-70-2	6010B	-	1	-	-	mg/L	n
chromium (total)	7440-47-3	6010B	0.05	0.006	0.025	0.0375	mg/L	y
cobalt (total)	7440-48-4	6010B	0.05	0.006	0.025	0.0375	mg/L	y
copper (total)	7440-50-8	6010B	1	0.006	0.5	0.75	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (concluded)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
iron (total)	7439-89-6	6010B	0.3	0.1	0.225	0.3	mg/L	n
lead (total)	7439-92-1	6010B	0.05	0.005	0.025	0.0375	mg/L	y
magnesium (total)	7439-95-4	6010B	-	1	-	-	mg/L	n
manganese (total)	7439-96-5	6010B	0.05	0.03	0.0375	0.05	mg/L	n
nickel (total)	7440-02-0	6010B	0.2	0.01	0.1	0.15	mg/L	y
potassium (total)	7440-09-7	6010B	-	1	-	-	mg/L	n
silver (total)	7440-22-4	6010B	0.05	0.005	0.025	0.0375	mg/L	y
sodium (total)	7440-23-5	6010B	-	1	-	-	mg/L	n
vanadium (total)	7440-62-2	6010B	-	0.05	-	-	mg/L	y
zinc (total)	7440-66-6	6010B	5	0.02	2.5	3.75	mg/L	y
antimony (total)	7440-36-0	6020	0.006	0.001	0.003	0.0045	mg/L	y
arsenic (total)	7440-38-2	6020	0.01	0.004	0.005	0.0075	mg/L	y
selenium (total)	7782-49-2	6020	0.05	0.001	0.025	0.0375	mg/L	y
thallium (total)	7440-28-0	6020	0.002	0.001	0.001	0.0015	mg/L	y
pH	N/A	SM4500	6.5-8.5	+/- 0.1	-	-	S.U.	n
specific conductance	N/A	120.1	-	+/- 25	-	-	µS/cm	n
temperature	N/A	field	-	+/- 0.5	-	-	°F	n
water level elevation	N/A	field	-	+/- 0.01	-	-	ft	n

GWPS - ground water protection standard
PQL - practical quantitation limit
AML - assessment monitoring level
CAL - corrective action level
mg/L - milligrams per liter
µS/cm - microSiemens per centimeter
S.U. - standard pH units
°F - degrees Fahrenheit
ft - feet

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 23, 2018

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3635
FAX (575) 528-3513

RE: CLC Foothills Landfill Closure Monitoring Wells OrderNo.: 1806D07

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/21/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 11, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#7
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 12:57:00 PM
Lab ID: 1806D07-001
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB/DBCP							Analyst: **JME**
1,2-Dibromo-3-chloropropane	ND	0.0041	0.019		µg/L	1	6/27/2018 8:03:14 PM
1,2-Dibromoethane	ND	0.0048	0.0094		µg/L	1	6/27/2018 8:03:14 PM
EPA METHOD 300.0: ANIONS							Analyst: **MRA**
Chloride	21	0.59	10		mg/L	20	6/22/2018 12:16:31 PM
Nitrogen, Nitrate (As N)	1.1	0.0066	0.10		mg/L	1	6/22/2018 12:04:08 PM
Sulfate	100	4.1	10		mg/L	20	6/22/2018 12:16:31 PM
EPA METHOD 200.7: TOTAL METALS							Analyst: **pmf**
Barium	0.071	0.0010	0.0020		mg/L	1	6/28/2018 2:11:08 PM
Beryllium	ND	0.00026	0.0020		mg/L	1	6/28/2018 2:11:08 PM
Cadmium	ND	0.00058	0.0020		mg/L	1	6/28/2018 2:11:08 PM
Calcium	88	0.045	1.0		mg/L	1	6/28/2018 2:11:08 PM
Chromium	ND	0.0018	0.0060		mg/L	1	6/28/2018 2:11:08 PM
Cobalt	ND	0.0014	0.0060		mg/L	1	6/28/2018 2:11:08 PM
Copper	ND	0.0041	0.0060		mg/L	1	6/28/2018 2:11:08 PM
Iron	ND	0.010	0.020		mg/L	1	6/28/2018 2:11:08 PM
Magnesium	10	0.12	1.0		mg/L	1	6/28/2018 2:11:08 PM
Manganese	0.0055	0.0011	0.0020		mg/L	1	6/28/2018 2:11:08 PM
Nickel	ND	0.0036	0.010		mg/L	1	6/28/2018 2:11:08 PM
Potassium	2.6	0.071	1.0		mg/L	1	6/28/2018 2:11:08 PM
Silver	0.0024	0.0012	0.0050	J	mg/L	1	6/28/2018 2:11:08 PM
Sodium	36	0.16	1.0		mg/L	1	6/28/2018 2:11:08 PM
Vanadium	0.0042	0.00076	0.050	J	mg/L	1	6/28/2018 2:11:08 PM
Zinc	ND	0.0033	0.010		mg/L	1	6/28/2018 2:11:08 PM
200.8 ICPMS METALS:TOTAL							Analyst: **ELS**
Antimony	ND	0.00024	0.0010		mg/L	1	6/29/2018 8:58:32 AM
Arsenic	0.00087	0.00041	0.0010	J	mg/L	1	6/29/2018 8:58:32 AM
Lead	ND	0.00023	0.00050		mg/L	1	6/29/2018 8:58:32 AM
Selenium	0.0015	0.00098	0.0010		mg/L	1	6/29/2018 8:58:32 AM
Thallium	ND	0.000034	0.00050		mg/L	1	6/29/2018 8:58:32 AM
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Benzene	0.81	0.062	1.0	J	µg/L	1	6/21/2018 4:30:15 PM
Toluene	ND	0.064	1.0		µg/L	1	6/21/2018 4:30:15 PM
Ethylbenzene	ND	0.093	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,2-Dichloroethane (EDC)	ND	0.40	1.0		µg/L	1	6/21/2018 4:30:15 PM
Acetone	ND	0.82	10		µg/L	1	6/21/2018 4:30:15 PM
Bromodichloromethane	ND	0.18	1.0		µg/L	1	6/21/2018 4:30:15 PM
Bromoform	ND	0.21	1.0		µg/L	1	6/21/2018 4:30:15 PM
Bromomethane	ND	0.26	2.0		µg/L	1	6/21/2018 4:30:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
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
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#7
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 12:57:00 PM
Lab ID: 1806D07-001
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
2-Butanone	ND	1.1	10		µg/L	1	6/21/2018 4:30:15 PM
Carbon disulfide	ND	0.40	10		µg/L	1	6/21/2018 4:30:15 PM
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	6/21/2018 4:30:15 PM
Chlorobenzene	ND	0.11	1.0		µg/L	1	6/21/2018 4:30:15 PM
Chloroethane	ND	0.23	2.0		µg/L	1	6/21/2018 4:30:15 PM
Chloroform	ND	0.40	1.0		µg/L	1	6/21/2018 4:30:15 PM
Chloromethane	ND	0.29	1.0		µg/L	1	6/21/2018 4:30:15 PM
cis-1,2-DCE	3.9	0.20	1.0		µg/L	1	6/21/2018 4:30:15 PM
cis-1,3-Dichloropropene	ND	0.082	1.0		µg/L	1	6/21/2018 4:30:15 PM
Dibromochloromethane	ND	0.072	1.0		µg/L	1	6/21/2018 4:30:15 PM
Dibromomethane	ND	0.091	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,2-Dichlorobenzene	ND	0.090	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,4-Dichlorobenzene	ND	0.40	1.0		µg/L	1	6/21/2018 4:30:15 PM
Dichlorodifluoromethane	3.4	1.0	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1-Dichloroethane	1.3	0.40	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1-Dichloroethene	0.38	0.081	1.0	J	µg/L	1	6/21/2018 4:30:15 PM
1,2-Dichloropropane	ND	0.10	0.50		µg/L	1	6/21/2018 4:30:15 PM
2-Hexanone	ND	0.66	10		µg/L	1	6/21/2018 4:30:15 PM
4-Methyl-2-pentanone	ND	0.71	10		µg/L	1	6/21/2018 4:30:15 PM
Methylene Chloride	2.8	0.11	2.5		µg/L	1	6/21/2018 4:30:15 PM
Styrene	ND	0.16	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1,1,2-Tetrachloroethane	ND	0.10	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 4:30:15 PM
Tetrachloroethene (PCE)	13	0.13	0.50		µg/L	1	6/21/2018 4:30:15 PM
trans-1,2-DCE	ND	0.18	1.0		µg/L	1	6/21/2018 4:30:15 PM
trans-1,3-Dichloropropene	ND	0.22	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1,1-Trichloroethane	ND	0.073	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,1,2-Trichloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 4:30:15 PM
Trichloroethene (TCE)	3.7	0.11	1.0		µg/L	1	6/21/2018 4:30:15 PM
Trichlorofluoromethane	2.5	0.18	1.0		µg/L	1	6/21/2018 4:30:15 PM
1,2,3-Trichloropropane	ND	0.39	1.0		µg/L	1	6/21/2018 4:30:15 PM
Vinyl chloride	0.45	0.18	0.40		µg/L	1	6/21/2018 4:30:15 PM
Xylenes, Total	ND	0.32	2.0		µg/L	1	6/21/2018 4:30:15 PM
Acrylonitrile	ND	0.56	10		µg/L	1	6/21/2018 4:30:15 PM
Bromochloromethane	ND	0.43	2.0		µg/L	1	6/21/2018 4:30:15 PM
Iodomethane	ND	0.27	10		µg/L	1	6/21/2018 4:30:15 PM
trans-1,4-Dichloro-2-butene	ND	0.39	10		µg/L	1	6/21/2018 4:30:15 PM
Vinyl acetate	ND	0.60	10		µg/L	1	6/21/2018 4:30:15 PM
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%Rec	1	6/21/2018 4:30:15 PM
Surr: 4-Bromofluorobenzene	108	0	70-130		%Rec	1	6/21/2018 4:30:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#7
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 12:57:00 PM
Lab ID: 1806D07-001
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Surr: Dibromofluoromethane	110	0	70-130		%Rec	1	6/21/2018 4:30:15 PM
Surr: Toluene-d8	98.7	0	70-130		%Rec	1	6/21/2018 4:30:15 PM
TOTAL PHENOLICS BY SW-846 9067							Analyst: **CLP**
Phenolics	ND	1.3	2.5		µg/L	1	7/9/2018
EPA METHOD 9060 TOC							Analyst: **CLP**
Total Organic Carbon	0.59	0.18	1.0	J	mg/L	1	6/22/2018 8:42:34 PM
SM2510B: SPECIFIC CONDUCTANCE							Analyst: **JRR**
Conductivity	670	5.0	5.0		µmhos/c	1	6/25/2018 3:42:52 PM
SM 4500 NH3: AMMONIA							Analyst: **smb**
Nitrogen, Ammonia	ND	0.36	1.0		mg/L	1	7/3/2018 1:33:00 PM
SM4500-H+B / 9040C: PH							Analyst: **JRR**
pH	7.59			H	pH units	1	6/25/2018 3:42:52 PM
SM2320B: ALKALINITY							Analyst: **JRR**
Bicarbonate (As CaCO3)	183.8	20.00	20.00		mg/L CaC	1	6/25/2018 3:42:52 PM
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L CaC	1	6/25/2018 3:42:52 PM
Total Alkalinity (as CaCO3)	183.8	20.00	20.00		mg/L CaC	1	6/25/2018 3:42:52 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**
Total Dissolved Solids	428	20.0	20.0		mg/L	1	6/27/2018 6:52:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#2
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 2:20:00 PM
Lab ID: 1806D07-002
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB/DBCP							Analyst: **JME**
1,2-Dibromo-3-chloropropane	ND	0.0041	0.019		µg/L	1	6/27/2018 8:18:45 PM
1,2-Dibromoethane	ND	0.0049	0.0096		µg/L	1	6/27/2018 8:18:45 PM
EPA METHOD 300.0: ANIONS							Analyst: **MRA**
Chloride	9.8	0.029	0.50		mg/L	1	6/28/2018 1:17:20 PM
Sulfate	35	0.21	0.50		mg/L	1	6/28/2018 1:17:20 PM
Nitrate+Nitrite as N	3.4	0.27	1.0		mg/L	5	7/7/2018 3:41:51 AM
EPA METHOD 200.7: TOTAL METALS							Analyst: **pmf**
Barium	0.036	0.0010	0.0020		mg/L	1	6/28/2018 2:13:25 PM
Beryllium	ND	0.00026	0.0020		mg/L	1	6/28/2018 2:13:25 PM
Cadmium	ND	0.00058	0.0020		mg/L	1	6/28/2018 2:13:25 PM
Calcium	43	0.045	1.0		mg/L	1	6/28/2018 2:13:25 PM
Chromium	ND	0.0018	0.0060		mg/L	1	6/28/2018 2:13:25 PM
Cobalt	ND	0.0014	0.0060		mg/L	1	6/28/2018 2:13:25 PM
Copper	ND	0.0041	0.0060		mg/L	1	6/28/2018 2:13:25 PM
Iron	ND	0.010	0.020		mg/L	1	6/28/2018 2:13:25 PM
Magnesium	5.9	0.12	1.0		mg/L	1	6/28/2018 2:13:25 PM
Manganese	0.0019	0.0011	0.0020	J	mg/L	1	6/28/2018 2:13:25 PM
Nickel	ND	0.0036	0.010		mg/L	1	6/28/2018 2:13:25 PM
Potassium	1.7	0.071	1.0		mg/L	1	6/28/2018 2:13:25 PM
Silver	ND	0.0012	0.0050		mg/L	1	6/28/2018 2:13:25 PM
Sodium	31	0.16	1.0		mg/L	1	6/28/2018 2:13:25 PM
Vanadium	0.0078	0.00076	0.050	J	mg/L	1	6/28/2018 2:13:25 PM
Zinc	ND	0.0033	0.010		mg/L	1	6/28/2018 2:13:25 PM
200.8 ICPMS METALS:TOTAL							Analyst: **ELS**
Antimony	ND	0.00024	0.0010		mg/L	1	6/29/2018 9:00:55 AM
Arsenic	0.0016	0.00041	0.0010		mg/L	1	6/29/2018 9:00:55 AM
Lead	ND	0.00023	0.00050		mg/L	1	6/29/2018 9:00:55 AM
Selenium	ND	0.00098	0.0010		mg/L	1	6/29/2018 9:00:55 AM
Thallium	ND	0.000034	0.00050		mg/L	1	6/29/2018 9:00:55 AM
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Benzene	ND	0.062	1.0		µg/L	1	6/21/2018 5:00:11 PM
Toluene	ND	0.064	1.0		µg/L	1	6/21/2018 5:00:11 PM
Ethylbenzene	ND	0.093	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,2-Dichloroethane (EDC)	ND	0.40	1.0		µg/L	1	6/21/2018 5:00:11 PM
Acetone	ND	0.82	10		µg/L	1	6/21/2018 5:00:11 PM
Bromodichloromethane	ND	0.18	1.0		µg/L	1	6/21/2018 5:00:11 PM
Bromoform	ND	0.21	1.0		µg/L	1	6/21/2018 5:00:11 PM
Bromomethane	ND	0.26	2.0		µg/L	1	6/21/2018 5:00:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#2
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 2:20:00 PM
Lab ID: 1806D07-002
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
2-Butanone	ND	1.1	10		µg/L	1	6/21/2018 5:00:11 PM
Carbon disulfide	ND	0.40	10		µg/L	1	6/21/2018 5:00:11 PM
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	6/21/2018 5:00:11 PM
Chlorobenzene	ND	0.11	1.0		µg/L	1	6/21/2018 5:00:11 PM
Chloroethane	ND	0.23	2.0		µg/L	1	6/21/2018 5:00:11 PM
Chloroform	ND	0.40	1.0		µg/L	1	6/21/2018 5:00:11 PM
Chloromethane	ND	0.29	1.0		µg/L	1	6/21/2018 5:00:11 PM
cis-1,2-DCE	0.69	0.20	1.0	J	µg/L	1	6/21/2018 5:00:11 PM
cis-1,3-Dichloropropene	ND	0.082	1.0		µg/L	1	6/21/2018 5:00:11 PM
Dibromochloromethane	ND	0.072	1.0		µg/L	1	6/21/2018 5:00:11 PM
Dibromomethane	ND	0.091	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,2-Dichlorobenzene	ND	0.090	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,4-Dichlorobenzene	ND	0.40	1.0		µg/L	1	6/21/2018 5:00:11 PM
Dichlorodifluoromethane	ND	1.0	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,1-Dichloroethane	0.53	0.40	1.0	J	µg/L	1	6/21/2018 5:00:11 PM
1,1-Dichloroethene	ND	0.081	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,2-Dichloropropane	ND	0.10	0.50		µg/L	1	6/21/2018 5:00:11 PM
2-Hexanone	ND	0.66	10		µg/L	1	6/21/2018 5:00:11 PM
4-Methyl-2-pentanone	ND	0.71	10		µg/L	1	6/21/2018 5:00:11 PM
Methylene Chloride	0.49	0.11	2.5	J	µg/L	1	6/21/2018 5:00:11 PM
Styrene	ND	0.16	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,1,1,2-Tetrachloroethane	ND	0.10	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 5:00:11 PM
Tetrachloroethene (PCE)	2.3	0.13	0.50		µg/L	1	6/21/2018 5:00:11 PM
trans-1,2-DCE	ND	0.18	1.0		µg/L	1	6/21/2018 5:00:11 PM
trans-1,3-Dichloropropene	ND	0.22	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,1,1-Trichloroethane	ND	0.073	1.0		µg/L	1	6/21/2018 5:00:11 PM
1,1,2-Trichloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 5:00:11 PM
Trichloroethene (TCE)	0.57	0.11	1.0	J	µg/L	1	6/21/2018 5:00:11 PM
Trichlorofluoromethane	0.43	0.18	1.0	J	µg/L	1	6/21/2018 5:00:11 PM
1,2,3-Trichloropropane	ND	0.39	1.0		µg/L	1	6/21/2018 5:00:11 PM
Vinyl chloride	ND	0.18	0.40		µg/L	1	6/21/2018 5:00:11 PM
Xylenes, Total	ND	0.32	2.0		µg/L	1	6/21/2018 5:00:11 PM
Acrylonitrile	ND	0.56	10		µg/L	1	6/21/2018 5:00:11 PM
Bromochloromethane	ND	0.43	2.0		µg/L	1	6/21/2018 5:00:11 PM
Iodomethane	ND	0.27	10		µg/L	1	6/21/2018 5:00:11 PM
trans-1,4-Dichloro-2-butene	ND	0.39	10		µg/L	1	6/21/2018 5:00:11 PM
Vinyl acetate	ND	0.60	10		µg/L	1	6/21/2018 5:00:11 PM
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%Rec	1	6/21/2018 5:00:11 PM
Surr: 4-Bromofluorobenzene	102	0	70-130		%Rec	1	6/21/2018 5:00:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC MW#2
Project: CLC Foothills Landfill Closure Monitori
Collection Date: 6/20/2018 2:20:00 PM
Lab ID: 1806D07-002
Matrix: AQUEOUS
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Surr: Dibromofluoromethane	103	0	70-130		%Rec	1	6/21/2018 5:00:11 PM
Surr: Toluene-d8	96.5	0	70-130		%Rec	1	6/21/2018 5:00:11 PM
TOTAL PHENOLICS BY SW-846 9067							Analyst: **CLP**
Phenolics	ND	1.3	2.5		µg/L	1	7/9/2018
EPA METHOD 9060 TOC							Analyst: **CLP**
Total Organic Carbon	0.27	0.18	1.0	J	mg/L	1	6/22/2018 9:48:06 PM
SM2510B: SPECIFIC CONDUCTANCE							Analyst: **JRR**
Conductivity	380	5.0	5.0		µmhos/c	1	6/25/2018 3:53:58 PM
SM 4500 NH3: AMMONIA							Analyst: **smb**
Nitrogen, Ammonia	ND	0.36	1.0		mg/L	1	7/3/2018 1:33:00 PM
SM4500-H+B / 9040C: PH							Analyst: **JRR**
pH	7.30			H	pH units	1	6/25/2018 3:53:58 PM
SM2320B: ALKALINITY							Analyst: **JRR**
Bicarbonate (As CaCO3)	135.7	20.00	20.00		mg/L CaC	1	6/25/2018 3:53:58 PM
Carbonate (As CaCO3)	ND	2.000	2.000		mg/L CaC	1	6/25/2018 3:53:58 PM
Total Alkalinity (as CaCO3)	135.7	20.00	20.00		mg/L CaC	1	6/25/2018 3:53:58 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: **KS**
Total Dissolved Solids	252	20.0	20.0		mg/L	1	6/27/2018 6:52:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Foothills Landfill Closure Monitori
Collection Date:
Lab ID: 1806D07-003
Matrix: TRIP BLANK
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1: EDB/DBCP							Analyst: **JME**
1,2-Dibromo-3-chloropropane	ND	0.0041	0.019		µg/L	1	6/27/2018 8:34:19 PM
1,2-Dibromoethane	ND	0.0049	0.0095		µg/L	1	6/27/2018 8:34:19 PM
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Benzene	ND	0.062	1.0		µg/L	1	6/21/2018 5:30:01 PM
Toluene	ND	0.064	1.0		µg/L	1	6/21/2018 5:30:01 PM
Ethylbenzene	ND	0.093	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,2-Dichloroethane (EDC)	ND	0.40	1.0		µg/L	1	6/21/2018 5:30:01 PM
Acetone	1.9	0.82	10	J	µg/L	1	6/21/2018 5:30:01 PM
Bromodichloromethane	ND	0.18	1.0		µg/L	1	6/21/2018 5:30:01 PM
Bromoform	ND	0.21	1.0		µg/L	1	6/21/2018 5:30:01 PM
Bromomethane	ND	0.26	2.0		µg/L	1	6/21/2018 5:30:01 PM
2-Butanone	ND	1.1	10		µg/L	1	6/21/2018 5:30:01 PM
Carbon disulfide	ND	0.40	10		µg/L	1	6/21/2018 5:30:01 PM
Carbon Tetrachloride	ND	0.11	1.0		µg/L	1	6/21/2018 5:30:01 PM
Chlorobenzene	ND	0.11	1.0		µg/L	1	6/21/2018 5:30:01 PM
Chloroethane	ND	0.23	2.0		µg/L	1	6/21/2018 5:30:01 PM
Chloroform	ND	0.40	1.0		µg/L	1	6/21/2018 5:30:01 PM
Chloromethane	ND	0.29	1.0		µg/L	1	6/21/2018 5:30:01 PM
cis-1,2-DCE	ND	0.20	1.0		µg/L	1	6/21/2018 5:30:01 PM
cis-1,3-Dichloropropene	ND	0.082	1.0		µg/L	1	6/21/2018 5:30:01 PM
Dibromochloromethane	ND	0.072	1.0		µg/L	1	6/21/2018 5:30:01 PM
Dibromomethane	ND	0.091	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,2-Dichlorobenzene	ND	0.090	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,4-Dichlorobenzene	ND	0.40	1.0		µg/L	1	6/21/2018 5:30:01 PM
Dichlorodifluoromethane	ND	1.0	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1-Dichloroethane	ND	0.40	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1-Dichloroethene	ND	0.081	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,2-Dichloropropane	ND	0.10	0.50		µg/L	1	6/21/2018 5:30:01 PM
2-Hexanone	ND	0.66	10		µg/L	1	6/21/2018 5:30:01 PM
4-Methyl-2-pentanone	ND	0.71	10		µg/L	1	6/21/2018 5:30:01 PM
Methylene Chloride	0.56	0.11	2.5	J	µg/L	1	6/21/2018 5:30:01 PM
Styrene	ND	0.16	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1,1,2-Tetrachloroethane	ND	0.10	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1,2,2-Tetrachloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 5:30:01 PM
Tetrachloroethene (PCE)	ND	0.13	0.50		µg/L	1	6/21/2018 5:30:01 PM
trans-1,2-DCE	ND	0.18	1.0		µg/L	1	6/21/2018 5:30:01 PM
trans-1,3-Dichloropropene	ND	0.22	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1,1-Trichloroethane	ND	0.073	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,1,2-Trichloroethane	ND	0.14	1.0		µg/L	1	6/21/2018 5:30:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Foothills Landfill Closure Monitori
Collection Date:
Lab ID: 1806D07-003
Matrix: TRIP BLANK
Received Date: 6/21/2018 8:45:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES, TABLE I							Analyst: **DJF**
Trichloroethene (TCE)	ND	0.11	1.0		µg/L	1	6/21/2018 5:30:01 PM
Trichlorofluoromethane	ND	0.18	1.0		µg/L	1	6/21/2018 5:30:01 PM
1,2,3-Trichloropropane	ND	0.39	1.0		µg/L	1	6/21/2018 5:30:01 PM
Vinyl chloride	ND	0.18	0.40		µg/L	1	6/21/2018 5:30:01 PM
Xylenes, Total	ND	0.32	2.0		µg/L	1	6/21/2018 5:30:01 PM
Acrylonitrile	ND	0.56	10		µg/L	1	6/21/2018 5:30:01 PM
Bromochloromethane	ND	0.43	2.0		µg/L	1	6/21/2018 5:30:01 PM
Iodomethane	ND	0.27	10		µg/L	1	6/21/2018 5:30:01 PM
trans-1,4-Dichloro-2-butene	ND	0.39	10		µg/L	1	6/21/2018 5:30:01 PM
Vinyl acetate	ND	0.60	10		µg/L	1	6/21/2018 5:30:01 PM
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%Rec	1	6/21/2018 5:30:01 PM
Surr: 4-Bromofluorobenzene	110	0	70-130		%Rec	1	6/21/2018 5:30:01 PM
Surr: Dibromofluoromethane	105	0	70-130		%Rec	1	6/21/2018 5:30:01 PM
Surr: Toluene-d8	98.1	0	70-130		%Rec	1	6/21/2018 5:30:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**MB-38872**	SampType:	**MBLK**	TestCode:	**EPA Method 200.7: Total Metals**
Client ID:	**PBW**	Batch ID:	**38872**	RunNo:	**52335**
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**	SeqNo:	**1715520** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID	**LLLCS-38872**	SampType:	**LCSLL**	TestCode:	**EPA Method 200.7: Total Metals**
Client ID:	**BatchQC**	Batch ID:	**38872**	RunNo:	**52335**
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**	SeqNo:	**1715521** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.0020	0.0020	0.002000	0	103	50	150			
Beryllium	0.0021	0.0020	0.002000	0	106	50	150			
Cadmium	0.0020	0.0020	0.002000	0	99.0	50	150			J
Calcium	0.51	1.0	0.5000	0	102	50	150			J
Chromium	0.0068	0.0060	0.006000	0	113	50	150			
Cobalt	0.0072	0.0060	0.006000	0	120	50	150			
Copper	0.0079	0.0060	0.006000	0	132	50	150			
Magnesium	0.50	1.0	0.5000	0	101	50	150			J
Manganese	0.0022	0.0020	0.002000	0	108	50	150			
Nickel	0.0041	0.010	0.005000	0	82.2	50	150			J
Potassium	0.45	1.0	0.5000	0	90.5	50	150			J
Silver	0.0052	0.0050	0.005000	0	104	50	150			
Sodium	0.50	1.0	0.5000	0	99.4	50	150			J
Vanadium	0.011	0.050	0.01000	0	113	50	150			J
Zinc	0.0063	0.010	0.005000	0	126	50	150			J

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**LCS-38872**	SampType:	**LCS**		TestCode:	**EPA Method 200.7: Total Metals**					
Client ID:	**LCSW**	Batch ID:	**38872**		RunNo:	**52335**					
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**		SeqNo:	**1715522**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Barium	0.52	0.0020	0.5000	0	104	85	115				
Beryllium	0.53	0.0020	0.5000	0	105	85	115				
Cadmium	0.52	0.0020	0.5000	0	104	85	115				
Calcium	49	1.0	50.00	0	98.3	85	115				
Chromium	0.49	0.0060	0.5000	0	97.4	85	115				
Cobalt	0.50	0.0060	0.5000	0	101	85	115				
Copper	0.50	0.0060	0.5000	0	100	85	115				
Magnesium	50	1.0	50.00	0	99.7	85	115				
Manganese	0.49	0.0020	0.5000	0	98.7	85	115				
Nickel	0.49	0.010	0.5000	0	97.8	85	115				
Potassium	49	1.0	50.00	0	98.1	85	115				
Silver	0.11	0.0050	0.1000	0	106	85	115				
Sodium	51	1.0	50.00	0	101	85	115				
Vanadium	0.54	0.050	0.5000	0	108	85	115				
Zinc	0.49	0.010	0.5000	0	97.1	85	115				

Sample ID	**MB-38872**	SampType:	**MBLK**		TestCode:	**EPA Method 200.7: Total Metals**					
Client ID:	**PBW**	Batch ID:	**38872**		RunNo:	**52335**					
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**		SeqNo:	**1715589**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	ND	0.020									

Sample ID	**LLLCS-38872**	SampType:	**LCSLL**		TestCode:	**EPA Method 200.7: Total Metals**					
Client ID:	**BatchQC**	Batch ID:	**38872**		RunNo:	**52335**					
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**		SeqNo:	**1715590**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	0.030	0.020	0.02000	0	149	50	150				

Sample ID	**LCS-38872**	SampType:	**LCS**		TestCode:	**EPA Method 200.7: Total Metals**					
Client ID:	**LCSW**	Batch ID:	**38872**		RunNo:	**52335**					
Prep Date:	**6/25/2018**	Analysis Date:	**6/28/2018**		SeqNo:	**1715591**	Units:	**mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	0.52	0.020	0.5000	0	104	85	115				

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**MB-38872**	SampType:	**MBLK**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**PBW**	Batch ID:	**38872**	RunNo:	**52357**				
Prep Date:	**6/25/2018**	Analysis Date:	**6/29/2018**	SeqNo:	**1715975**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								

Sample ID	**MSLLLCS-38872**	SampType:	**LCSLL**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**BatchQC**	Batch ID:	**38872**	RunNo:	**52357**				
Prep Date:	**6/25/2018**	Analysis Date:	**6/29/2018**	SeqNo:	**1715976**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0010	0.0010	0.001000	0	102	50	150			
Arsenic	0.0011	0.0010	0.001000	0	105	50	150			
Lead	0.00048	0.00050	0.0005000	0	96.8	50	150			J
Selenium	0.0010	0.0010	0.001000	0	105	50	150			
Thallium	0.00046	0.00050	0.0005000	0	92.3	50	150			J

Sample ID	**MSLCS-38872**	SampType:	**LCS**	TestCode:	**200.8 ICPMS Metals:Total**				
Client ID:	**LCSW**	Batch ID:	**38872**	RunNo:	**52357**				
Prep Date:	**6/25/2018**	Analysis Date:	**6/29/2018**	SeqNo:	**1715977**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	99.3	85	115			
Arsenic	0.024	0.0010	0.02500	0	96.0	85	115			
Lead	0.012	0.00050	0.01250	0	95.5	85	115			
Selenium	0.024	0.0010	0.02500	0	96.6	85	115			
Thallium	0.012	0.00050	0.01250	0	95.3	85	115			

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R52184**	RunNo: **52184**
Prep Date:	Analysis Date: **6/22/2018**	SeqNo: **1709480** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.1	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	102	90	110			
Sulfate	9.6	0.50	10.00	0	96.0	90	110			

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R52184**	RunNo: **52184**
Prep Date:	Analysis Date: **6/22/2018**	SeqNo: **1709495** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R52363**	RunNo: **52363**
Prep Date:	Analysis Date: **6/28/2018**	SeqNo: **1716075** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R52363**	RunNo: **52363**
Prep Date:	Analysis Date: **6/28/2018**	SeqNo: **1716076** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.2	0.50	5.000	0	104	90	110			
Sulfate	10	0.50	10.00	0	103	90	110			

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R52505**	RunNo: **52505**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1723105** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R52505**	RunNo: **52505**
Prep Date:	Analysis Date: **7/6/2018**	SeqNo: **1723106** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	104	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **MB-38912**	SampType: **MBLK**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **PBW**	Batch ID: **38912**	RunNo: **52304**
Prep Date: **6/27/2018**	Analysis Date: **6/27/2018**	SeqNo: **1714515** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	0.020								
1,2-Dibromoethane	ND	0.010								

Sample ID **LCS-38912**	SampType: **LCS**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **LCSW**	Batch ID: **38912**	RunNo: **52304**
Prep Date: **6/27/2018**	Analysis Date: **6/27/2018**	SeqNo: **1714516** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.082	0.020	0.1000	0	82.0	70	130			
1,2-Dibromoethane	0.090	0.010	0.1000	0	90.4	70	130			

Sample ID **LCSD-38912**	SampType: **LCSD**	TestCode: **EPA Method 504.1: EDB/DBCP**
Client ID: **LCSS02**	Batch ID: **38912**	RunNo: **52304**
Prep Date: **6/27/2018**	Analysis Date: **6/27/2018**	SeqNo: **1714517** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.076	0.020	0.1000	0	76.2	70	130	7.32	20	
1,2-Dibromoethane	0.083	0.010	0.1000	0	83.4	70	130	8.12	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **PBW**	Batch ID: **LF52186**	RunNo: **52186**
Prep Date:	Analysis Date: **6/21/2018**	SeqNo: **1709743** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Acetone	ND	10								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	2.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	0.50								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	2.5								
Styrene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
Tetrachloroethene (PCE)	ND	0.50								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	1.0								
Vinyl chloride	ND	0.40								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **PBW**	Batch ID: **LF52186**	RunNo: **52186**
Prep Date:	Analysis Date: **6/21/2018**	SeqNo: **1709743** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	2.0								
Acrylonitrile	ND	10								
Bromochloromethane	ND	2.0								
Iodomethane	ND	10								
trans-1,4-Dichloro-2-butene	ND	10								
Vinyl acetate	ND	10								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles, Table I**
Client ID: **LCSW**	Batch ID: **LF52186**	RunNo: **52186**
Prep Date:	Analysis Date: **6/21/2018**	SeqNo: **1709744** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	111	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.4	70	130			
Surr: Toluene-d8	9.8		10.00		97.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 9060 TOC**							
Client ID: **PBW**	Batch ID: **R52188**	RunNo: **52188**							
Prep Date:	Analysis Date: **6/22/2018**	SeqNo: **1709713**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	1.0								

Sample ID **LCS ST9060-17010**	SampType: **LCS**	TestCode: **EPA Method 9060 TOC**							
Client ID: **LCSW**	Batch ID: **R52188**	RunNo: **52188**							
Prep Date:	Analysis Date: **6/22/2018**	SeqNo: **1709714**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	4.7	1.0	4.850	0	97.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**MB-39099**	SampType:	**MBLK**	TestCode:	**Total Phenolics by SW-846 9067**					
Client ID:	**PBW**	Batch ID:	**39099**	RunNo:	**52565**					
Prep Date:	**7/9/2018**	Analysis Date:	**7/9/2018**	SeqNo:	**1724862**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	ND	2.5								

Sample ID	**LCS-39099**	SampType:	**LCS**	TestCode:	**Total Phenolics by SW-846 9067**					
Client ID:	**LCSW**	Batch ID:	**39099**	RunNo:	**52565**					
Prep Date:	**7/9/2018**	Analysis Date:	**7/9/2018**	SeqNo:	**1724863**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics	24	2.5	20.00	0	122	53.3	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**lcs-1 ~20uS eC**	SampType: **LCS**		TestCode: **SM2510B: Specific Conductance**						
Client ID:	**LCSW**	Batch ID: **R52261**		RunNo: **52261**						
Prep Date:		Analysis Date: **6/25/2018**		SeqNo: **1712311**		Units: **µmhos/cm**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity		22	5.0	19.98	0	111	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID **MB**	SampType: **MBLK**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **PBW**	Batch ID: **R52458**	RunNo: **52458**							
Prep Date:	Analysis Date: **7/3/2018**	SeqNo: **1720045**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **LCSW**	Batch ID: **R52458**	RunNo: **52458**							
Prep Date:	Analysis Date: **7/3/2018**	SeqNo: **1720046**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10	1.0	10.00	0	101	80	120			

Sample ID **1806D07-001EMS**	SampType: **MS**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **CLC MW#7**	Batch ID: **R52458**	RunNo: **52458**							
Prep Date:	Analysis Date: **7/3/2018**	SeqNo: **1720062**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10	1.0	10.00	0	104	75	125			

Sample ID **1806D07-001EMSD**	SampType: **MSD**	TestCode: **SM 4500 NH3: Ammonia**							
Client ID: **CLC MW#7**	Batch ID: **R52458**	RunNo: **52458**							
Prep Date:	Analysis Date: **7/3/2018**	SeqNo: **1720063**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Ammonia	10	1.0	10.00	0	102	75	125	1.36	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**

23-Jul-18

Client: City of Las Cruces

Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**mb-1 alk**	SampType:	**MBLK**	TestCode:	**SM2320B: Alkalinity**					
Client ID:	**PBW**	Batch ID:	**R52261**	RunNo:	**52261**					
Prep Date:		Analysis Date:	**6/25/2018**	SeqNo:	**1712267**	Units:	**mg/L CaCO3**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	**lcs-1 alk**	SampType:	**LCS**	TestCode:	**SM2320B: Alkalinity**					
Client ID:	**LCSW**	Batch ID:	**R52261**	RunNo:	**52261**					
Prep Date:		Analysis Date:	**6/25/2018**	SeqNo:	**1712268**	Units:	**mg/L CaCO3**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.68	20.00	80.00	0	98.4	90	110			

Sample ID	**mb-2 alk**	SampType:	**MBLK**	TestCode:	**SM2320B: Alkalinity**					
Client ID:	**PBW**	Batch ID:	**R52261**	RunNo:	**52261**					
Prep Date:		Analysis Date:	**6/25/2018**	SeqNo:	**1712291**	Units:	**mg/L CaCO3**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	**lcs-2 alk**	SampType:	**LCS**	TestCode:	**SM2320B: Alkalinity**					
Client ID:	**LCSW**	Batch ID:	**R52261**	RunNo:	**52261**					
Prep Date:		Analysis Date:	**6/25/2018**	SeqNo:	**1712292**	Units:	**mg/L CaCO3**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.72	20.00	80.00	0	99.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1806D07**
23-Jul-18

Client: City of Las Cruces
Project: CLC Foothills Landfill Closure Monitoring Wel

Sample ID	**MB-38894**	SampType:	**MBLK**	TestCode:	**SM2540C MOD: Total Dissolved Solids**					
Client ID:	**PBW**	Batch ID:	**38894**	RunNo:	**52301**					
Prep Date:	**6/26/2018**	Analysis Date:	**6/27/2018**	SeqNo:	**1713529**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	**LCS-38894**	SampType:	**LCS**	TestCode:	**SM2540C MOD: Total Dissolved Solids**					
Client ID:	**LCSW**	Batch ID:	**38894**	RunNo:	**52301**					
Prep Date:	**6/26/2018**	Analysis Date:	**6/27/2018**	SeqNo:	**1713530**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1806D07 | RcptNo: 1

Received By: **Mandy Woods** 6/21/2018 8:45:00 AM

Completed By: **Ashley Gallegos** 6/21/2018 9:46:07 AM

Reviewed By: MW 6/21/18

Labeled by: IO 6/21/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	FedEx		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 6
(<2 or >12 unless noted)
Adjusted? NO

Checked by: IO

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces
Water Quality Laboratory
Mailing Address: P.O. Box 20000
Las Cruces N.M 88004
Phone #: 575-528-3604
email or Fax#: 575-528-3630

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other ____

☑ EDD (Type) EXCELL

Turn-Around Time:
☑ Standard ☐ Rush ____

Project Name: CLC Foothill Landfill Closure Monitoring Wells

Project #: Luis Guerra
POC: Joshua Rosenblatt

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Jaclyn Payne

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.8°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1806D07	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Well: Preferred Parameter List			Air Bubbles (Y or N)
6-20.18	1257	Drinking Water	CLC MW# 7	Various	Various	-001												X			
6-20.18	1420	Drinking Water	CLC MW# 2	Various	Various	-002												X			
			Trip Blank			-003					X					X					
			JO 6/21/18									JO 6/21/18									

Date:	Time:	Relinquished by:	Received by:	Date	Time
2018	1500	Jaclyn Payne	FedEx [signature]	6/21/18	0845
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
acetone	67-64-1	8260B	-	0.01	0.0195	-	mg/L	y
acrylonitrile	107-13-1	8260B	-	0.1	0.195	-	mg/L	y
benzene	71-43-2	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
bromochloromethane	74-97-5	8260B	-	0.001	0.00195	-	mg/L	y
bromodichloromethane	75-27-4	8260B	-	0.005	0.00975	-	mg/L	y
bromoform	75-25-2	8260B	-	0.015	0.02925	-	mg/L	y
carbon disulfide	75-15-0	8260B	-	0.001	0.00195	-	mg/L	y
carbon tetrachloride	56-23-5	8260B	0.005	0.002	0.0025	0.00375	mg/L	y
chlorobenzene	108-90-7	8260B	0.1	0.005	0.05	0.075	mg/L	y
chloroethane	75-00-3	8260B	-	0.01	0.0195	-	mg/L	y
chloroform	67-66-3	8260B	0.1	0.005	0.05	0.75	mg/L	y
dibromochloromethane	124-48-1	8260B	-	0.005	0.00975	-	mg/L	y
1,2-dibromo-3-chloropropane	96-12-8	504.1	0.0002	0.0001	0.0001	0.00015	mg/L	y
1,2-dichlorobenzene	95-50-1	8260B	0.06	0.01	0.03	0.045	mg/L	y
1,3-dichlorobenzene	541-73-1	8260B	-	0.01	0.0195	-	mg/L	n
1,4-dichlorobenzene	106-46-7	8260B	0.075	0.015	0.0375	0.5625	mg/L	y
trans-1,4-dichloro-2-butene	110-57-6	8260B	-	0.001	0.00195	-	mg/L	y
dichlorodifluoromethane	75-71-8	8260B	-	0.005	0.00975	-	mg/L	n
1,1-dichloroethane	75-34-3	8260B	0.025	0.005	0.0125	0.01875	mg/L	y
1,2-dichloroethane (EDC)	107-06-2	8260B	0.005	0.001	0.0025	0.00375	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (continued)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
1,1-dichloroethylene (1,1-DCE)	75-35-4	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
cis-1,2-dichloroethylene	156-59-2	8260B	0.07	0.005	0.035	0.0525	mg/L	y
trans-1,2-dichloroethylene	156-60-5	8260B	0.1	0.005	0.05	0.075	mg/L	y
1,2-dichloropropane	78-87-5	8260B	0.005	0.0005	0.0025	0.00375	mg/L	y
cis-1,3-dichloropropene	10061-01-5	8260B	-	0.02	0.039	-	mg/L	y
trans-1,3-dichloropropene	10061-02-6	8260B	-	0.01	0.0195	-	mg/L	y
ethylbenzene	100-41-4	8260B	0.7	0.01	0.35	0.525	mg/L	y
ethylene dibromide (EDB)	106-93-4	504.1	0.00005	0.000025	0.000025	0.000038	mg/L	y
2-hexanone	591-78-6	8260B	-	0.04	0.078	-	mg/L	y
methyl bromide	74-83-9	8260B	-	0.01	0.0195	-	mg/L	y
methyl chloride	74-87-3	8260B	-	0.001	0.00195	-	mg/L	y
methyl ethyl ketone	78-93-3	8260B	-	0.01	0.0195	-	mg/L	y
methyl iodide	74-88-4	8260B	-	0.05	0.0975	-	mg/L	y
4-methyl-2-pentanone	108-10-1	8260B	-	0.001	0.00195	-	mg/L	y
methylene bromide	74-95-3	8260B	-	0.001	0.00195	-	mg/L	y
methylene chloride	74-87-3	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
styrene	100-42-5	8260B	0.1	0.001	0.05	0.075	mg/L	y
1,1,1,2-tetrachloroethane	630-20-6	8260B	-	0.001	0.00195	-	mg/L	y
1,1,2,2-tetrachlorocthane	79-34-5	8260B	0.01	0.005	0.005	0.0075	mg/L	y
tetrachloroethylene (PCE)	127-18-4	8260B	0.005	0.0005	0.0025	0.00375	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (continued)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
toluene	108-88-3	8260B	0.75	0.001	0.375	0.5625	mg/L	y
1,1,1-trichloroethane	71-55-6	8260B	0.06	0.005	0.03	0.045	mg/L	y
1,1,2-trichloroethane	79-00-5	8260B	0.005	0.002	0.0025	0.00375	mg/L	y
trichloroethylene (TCE)	79-01-6	8260B	0.005	0.001	0.0025	0.00375	mg/L	y
trichlorofluoromethane	75-69-4	8260B	-	0.01	0.0195	-	mg/L	y
1,2,3-trichloropropane	96-18-4	8260B	-	0.05	0.0975	-	mg/L	y
vinyl acetate	108-05-4	8260B	-	0.0004	0.00078	-	mg/L	y
vinyl chloride	75-01-4	8260B	0.001	0.0004	0.0005	0.00075	mg/L	y
xylenes	1330-20-7	8260B	0.62	0.0015	0.31	0.465	mg/L	y
ammonia as (N)	N/A	SM 4500 NH3	-	0.5	-	-	mg/L	n
nitrate (as N)	N/A	300.0	10	1.0	5.0	7.5	mg/L	n
chloride	16887-00-6	300.0	250	5.0	187.5	250	mg/L	n
sulfate	14808-79-8	300.0	250	5.0	187.5	250	mg/L	n
total dissolved solids	N/A	SM 2540C	500	5.0	-	-	mg/L	n
carbonate alkalinity	3812-32-6	SM 2320B	-	10	-	-	mg/L	n
bicarbonate alkalinity	71-52-3	SM 2320B	-	10	-	-	mg/L	n
total phenolics	N/A	9067	0.005	0.0025	0.0025	0.00375	mg/L	n
total organic carbon	N/A	9060	-	1	-	-	mg/L	n
barium (total)	7440-39-3	6010B	1	0.01	0.5	0.75	mg/L	y
beryllium (total)	7440-41-7	6010B	0.004	0.002	0.002	0.003	mg/L	y
cadmium (total)	7440-43-9	6010B	0.005	0.002	0.0025	0.00375	mg/L	y
calcium (total)	7440-70-2	6010B	-	1	-	-	mg/L	n
chromium (total)	7440-47-3	6010B	0.05	0.006	0.025	0.0375	mg/L	y
cobalt (total)	7440-48-4	6010B	0.05	0.006	0.025	0.0375	mg/L	y
copper (total)	7440-50-8	6010B	1	0.006	0.5	0.75	mg/L	y

Table 1. Reduced parameter list for water-quality sampling at Las Cruces Foothills Landfill monitoring wells MW-1 through MW-7, Las Cruces, New Mexico (concluded)

parameters	CAS no.	method	GWPS	PQL	AML	CAL	units	included in Append I, Part 258, 40 CFR
iron (total)	7439-89-6	6010B	0.3	0.1	0.225	0.3	mg/L	n
lead (total)	7439-92-1	6010B	0.05	0.005	0.025	0.0375	mg/L	y
magnesium (total)	7439-95-4	6010B	-	1	-	-	mg/L	n
manganese (total)	7439-96-5	6010B	0.05	0.03	0.0375	0.05	mg/L	n
nickel (total)	7440-02-0	6010B	0.2	0.01	0.1	0.15	mg/L	y
potassium (total)	7440-09-7	6010B	-	1	-	-	mg/L	n
silver (total)	7440-22-4	6010B	0.05	0.005	0.025	0.0375	mg/L	y
sodium (total)	7440-23-5	6010B	-	1	-	-	mg/L	n
vanadium (total)	7440-62-2	6010B	-	0.05	-	-	mg/L	y
zinc (total)	7440-66-6	6010B	5	0.02	2.5	3.75	mg/L	y
antimony (total)	7440-36-0	6020	0.006	0.001	0.003	0.0045	mg/L	y
arsenic (total)	7440-38-2	6020	0.01	0.004	0.005	0.0075	mg/L	y
selenium (total)	7782-49-2	6020	0.05	0.001	0.025	0.0375	mg/L	y
thallium (total)	7440-28-0	6020	0.002	0.001	0.001	0.0015	mg/L	y
pH	N/A	SM4500	6.5-8.5	+/- 0.1	-	-	S.U.	n
specific conductance	N/A	120.1	-	+/- 25	-	-	µS/cm	n
temperature	N/A	field	-	+/- 0.5	-	-	°F	n
water level elevation	N/A	field	-	+/- 0.01	-	-	ft	n

GWPS - ground water protection standard
PQL - practical quantitation limit
AML - assessment monitoring level
CAL - corrective action level
mg/L - milligrams per liter
µS/cm - microSiemens per centimeter
S.U. - standard pH units
°F - degrees Fahrenheit
ft - feet