CITY OF TUCSON
ENVIRONMENTAL SERVICES

Do More Blue!

July 23, 2012

VIA CERTIFIED U.S. MAIL

Mr. David Christiana
Arizona Department of Water Resources
Water Quality Unit
3550 N. Central Ave.
Phoenix, AZ 85012

Ms. Denise McConaghy
Arizona Dept of Environmental Quality
Solid Waste Plan Review Unit
1110 W. Washington St.
Phoenix, AZ 85007

Re: Harrison Road Landfill Poor Water Quality Groundwater Permit (No. 59-583889.0001), Semi-annual Groundwater Monitoring Results, Semi-annual Groundwater Treatment System Performance Report January – July 2012

Dear Sir and Madam:

The City of Tucson (COT) Environmental Services (ES) has prepared groundwater monitoring data and remediation system performance data collected from January - July 2012, at the Harrison Landfill as required by the Arizona Department of Environmental Quality (ADEQ) Solid Waste Unit. This report also satisfies the semi-annual reporting requirements of the Arizona Department of Water Resources (ADWR) for the above referenced Harrison Landfill Poor Water Quality Permit (PWQP). Information on the soil vapor extraction and landfill gas extraction systems at the site is also included.

Should you have any further questions or comments, please contact Molly Collins at (520) 837-3703. Thank you for your on-going review of the site.

Sincerely,

Nancy Petersen
Interim Director

NP/MC/cj

Enclosures
Harrison Road Landfill Semi-annual Groundwater Monitoring Results and Remediation System Performance Report, January – June 2012.

cc: w/ all enclosures
Harrison Landfill Operating Record (CD copy)
Harrison Landfill Project File

w/ Text, Tables and Figures Only
Mike Priggee, ADEQ Solid Waste Plan Review Unit
Wally Wilson, Tucson Water (Email Link)
Mike Jones, Tucson Fire Dept (Email Link)
Jeff Drumm, COT, ES (Email Link)
Molly Collins, COT, ES (Email Link)

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HARRISON ROAD LANDFILL

SEMI-ANNUAL GROUNDWATER MONITORING

RESULTS AND REMEDIATION SYSTEM

PERFORMANCE REPORT

JANUARY – JUNE 2012

July 23, 2012

Prepared by:
City of Tucson
Environmental Services
P.O. Box 27210
Tucson, Arizona 85726-7210

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List of Acronyms

Aquifer Water Quality Standards	(AWQS)
Arizona Department of Environmental Quality	(ADEQ)
Arizona Department of Water Resources	(ADWR)
Below Ground Surface	(bgs)
City of Tucson Environmental Services	(COT-ES)
Dichlorodifluoromethane	(DCFA)
Feet	(ft)
Feet above mean sea level	(ft amsl)
Poor Water Quality Permit	(PWQP)
Non-detect	(ND)
Micrograms per liter	(µg/L)
Quality Control/Quality Assurance	(QA/QC)
Soil Vapor Extraction	(SVE)
Tetrachloroethene	(PCE)
Trichloroethene	(TCE)
Vincent Mullins Landfill	(VML)
Volatile Organic Compounds	(VOCs)
Water Table Elevation	(WTE)

1.0 INTRODUCTION

The City of Tucson (COT) Environmental Services (ES) has prepared groundwater monitoring data and remediation system performance data collected from January - July 2012, at the Harrison Landfill as required by the Arizona Department of Environmental Quality (ADEQ) Solid Waste Unit. The Harrison Landfill is located in the Tucson Active Management Area (Figure 1) and this report also satisfies the semi-annual reporting requirements of the Arizona Department of Water Resources (ADWR) for the Harrison Landfill Poor Water Quality Permit (PWQP) Number 59-583889.0001. This report also includes information on the soil vapor extraction system, and a report documenting upgrades to the landfill gas extraction system at the site.

A groundwater remediation system has been in operation at the site since June 2001. The system is designed to remove and treat groundwater impacted with volatile organic compounds (VOCs), primarily tetrachloroethene (PCE) and trichloroethene (TCE). Figure 2 includes a site plan that shows the location of the groundwater monitoring and remediation wells. Table 1 provides information on the groundwater wells at the site.

Groundwater extracted from three extraction wells (WR-285A, WR-371A and WR-444A) is piped to the treatment system located within the Harrison Landfill property. The treatment system consists of two 4,500-pound granular activated carbon (GAC) vessels. The treated groundwater is then injected into three groundwater injection wells located to the north of the landfill footprint (WR-119A, WR-245A, and WR-276A). Three other injection wells (WR-120A, R-097A and R-095A) are presently inactive because they are used for monitoring the VOC concentrations in groundwater downgradient of the landfill footprint to determine if significant concentrations of VOCs are still present in groundwater beneath the landfill.

2.0 MONITORING

As required by the PWQP, quarterly VOC sampling is conducted quarterly in February, May, August and November for the three extraction wells and effluent from the carbon vessels. Also, as required by the permit, water levels are collected quarterly from groundwater monitoring and remediation wells at the site. In addition to the monitoring required by the ADWR, ADEQ also requires COT-ES to conduct groundwater sampling in May and November for monitoring wells: HLM-550, R-119A, WR-121A, WR-122A, WR-244A, WR-286A, WR-321A, and WR-443A. Monitoring is now performed voluntarily on a quarterly basis at off-site well 412P, located at the Rincon Country East RV Resort approximately 1 mile to the northwest of the landfill boundary (Figure 2) and at monitoring wells WR-321A and HLM-550. Well 415W, located north of the landfill, has not been monitored since May 2008. The property was recently purchased by ANB Sonora, LLC, but COT-ES has not been able to contact them for permission to sample well 415W. COT-ES will continue attempting to contact the new owners of the well for the November 2012 sample event.

2.1 Water Level Monitoring

As required by the PWQP, water level measurements are collected quarterly from monitoring and remediation wells at the site. Table 2 provides the water level data for February and May 2012. Water table elevation maps are provided in Figures 3 and 4 for February and May 2012 respectively. Water level data were collected from the pumping wells while the system was operating. Water to active injection wells WR-119A, WR-245A, and WR-276A is diverted to an on-site retention basin before water levels are collected from these wells. However, data from injection wells was not used in contouring the water elevation maps because the water level in these wells is a function of the degree of communication between the well screen and the aquifer and may not be representative of actual conditions within the aquifer.

General groundwater flow direction is to the northwest toward the extraction wells. Water table elevations at the Harrison landfill have been falling at an average rate of 1.87 feet per year since 1998 (Figure 5).

2.2 Groundwater Sampling

A total of 15 wells were sampled during the semi-annual monitoring event conducted between May 9 and May 17, 2012. All samples were sent to the Tucson Water Quality Laboratory (TWQL) for analysis except for duplicate samples collected at wells WR-285A on February 15, 2012, WR-121A on May 14, 2012 and R-119A on May 16, 2012, which were submitted to Xenco Laboratories for analysis. The separate duplicate sampling program is discussed in more detail below.

Table 3 provides the results for selected analytes from monitoring, inactive injection wells, extraction wells and off-site wells. Figure 6 shows trends for PCE and TCE in selected wells at the site.

Monitoring well WR-247A is dry and can no longer be sampled. The water table has fallen below the base of the well at 264 feet below ground surface (bgs).

2.2.1 Results

Appendix A contains the laboratory analytical data reports and field sampling data sheets from February and May 2012. All extraction and monitoring wells were reported as below the applicable Aquifer Water Quality Standard (AWQS) for both inorganic and organic parameters with the exception of one exceedance of the AWQS of 5 ug/L for PCE. PCE in monitoring well WR-321A was detected at 7.2 µg/L in February 2012 and 6.7 ug/L in May 2012. Concentrations of PCE at the well appear to be declining from those detected in 2010 and early 2011 (Figure 6).

PCE concentrations in well WR-321A were below the AWQS from May 2004 to May 2009, but exceeded the AWQS in November 2009. The well was placed on a quarterly monitoring schedule in February 2010. Downgradient private production well 412P was also added to the quarterly monitoring schedule in August 2010. HLM-550 was installed as a downgradient monitoring well for WR-321A in May 2011. HLM-550 has been monitored three times since installation (Table 3, Figure 6). PCE has been detected in the well, but at levels below the AWQS. VOCs were not detected in well 412P in February and May 2012. COT-ES will continue quarterly monitoring of wells WR-321A, HLM-550 and 421P during the second half of

2012 and reevaluate the monitoring schedule when PCE in WR-321A declines below the AWQS of 5ug/L.

2.2.2 QA/QC Evaluation

The separate laboratory duplicate analysis is part of a pilot program, which was initiated in July 2011 by COT-ES, to evaluate the TWQL by comparing results to an outside laboratory. COT-ES uses a standard of 30% relative percent difference (RPD) between sample results to evaluate the data between the two laboratories. If the RPD between original and duplicate samples is greater than 30%, laboratory precision and sampling protocols or sample crew field methodology may be evaluated.

The RPD between detected compounds for each duplicate sample collected during this reporting period is provided in Table 4. All VOC results from this reporting period are below 30% RPD except for DCFA (33%) from R-119A on May 16, 2012. Total iron exceeded 30% RPD in WR-121A (33%). The RPD for manganese at WR-121A on May 14, 2012 was calculated at 34%. After a review of the laboratory data packages and field notes, the cause of the high variability between these compounds is unclear. The variability could be a reflection of laboratory sample prep methods or natural sample heterogeneity. Xenco Laboratories is no longer under contract to COT-ES, and none of the above compounds are constituents of concern (COCs) for the Harrison Road Landfill, so no additional action will be taken.

COT-ES has evaluated the separate duplicate sample pilot program to determine if it will be continued. Over the past year, all COCs for the Harrison Road Landfill have been below the 30% RPD standard, which indicates an adequate sample analytical program at the TWQL. Therefore, the pilot duplicate program will not be continued and future duplicate samples collected at the site will be sent to the same laboratory for analysis. Appendix A contains the laboratory analytical data reports and field sampling data sheets from February and May 2012.

The VOCs chloroform and bromodichloromethane were detected in the equipment blank collected after sampling on May 16, 2012. Neither of these compounds were detected in the associated samples collected by the Verdad Group on that date. The Verdad Group was informed

of the compounds detected in their equipment blank. These compounds are likely a byproduct of the chlorination of potable water, which is used to clean the non-dedicated equipment used after purging and sampling a well. Since the compounds were not detected in any other sample from this event, no further action was taken.

3.0 WELL ABANDONMENT

As discussed in the previous semiannual report dated February 2, 2012, COT-ES filed a Notice of Intent (NOI) to abandon well R-118A on November 18, 2011 (Figure 2). The NOI was approved by ADWR on December 1, 2011. The well was abandoned in accordance with ADWR guidelines and regulations in January 2012.

4.0 GROUNDWATER TREATMENT SYSTEM PERFORMANCE

Since 2001, COT-ES has treated more than 349 million gallons of groundwater through the GAC system. From January through June 2012, approximately 10 million gallons of groundwater were treated at an average extraction rate of 38 gallons per minute (gpm). Tables 5 and 6 provide monthly performance data for the system extraction and injection wells for January through June 2012. The system operated 100% of the time during this reporting period, except for extraction wells WR-371A and WR-285A were found to be off for one day each in February due to unknown causes.

Table 7 provides selected VOC concentrations and the extracted volume and cumulative mass removed from each extraction well. For the two monitoring events conducted during this reporting period (February and May 2012), the average concentration of PCE was 0.8 μg/L at WR-285A. The average concentration of PCE was 1.4 μg/L at extraction well WR-371A. TCE not detected in either WR-285A or WR-371A during this reporting period. At extraction well WR-444A, average PCE and TCE concentrations were 2.0 μg/L and 0.7 μg/L, respectively.

Although the TCE and PCE concentrations of the extraction wells are below their respective AWQS, continued extraction of groundwater from these wells is necessary for COT-ES to meet the stated goal of controlling downgradient migration of PCE and remediating the off-site extraction wells to PCE concentrations of one-half of the AWQS (2.5 μg/L).

Table 8 provides total mass removed information for the groundwater treatment system since it went on-line in 2001. A total of 85.3 pounds (lbs) of total VOCs have been extracted by the three pumping wells since 2001. The system has removed and treated 20.2 lbs of non-freon VOCs, including 12 lbs of PCE and 4.1 lbs of TCE. Figure 7 shows the cumulative mass of non-freon VOCs removed by the system since start up in 2001.

The GAC tanks are plumbed in series and effluent samples are collected from each GAC tank quarterly. Selected VOC data are presented in Table 9. The carbon was last replaced in the tanks in February 2011. Because all influent concentrations of VOCs in the extracted groundwater are below their respective AWQS, COT-ES will not perform another carbon replacement unless PCE or TCE are detected in the effluent of carbon vessel number 1.

Meter face malfunctions were first detected at injection well WR-276A in April, when a worker noted that the numbers were not moving although the other mechanical parts of the meter were performing correctly. The meter face was cleaned in April and again in May, and each time appeared to work correctly for several weeks before again malfunctioning. The meter face was replaced on June 4, 2012. Breakdown estimates were calculated and added to the total volume injected at WR-276A (Table 5).

5.0 SOIL VAPOR EXTRACTION SYSTEM

The Harrison Soil Vapor Extraction/Air Injection (SVE/AI) system consists of three extraction wells (SVE-1, SVE-2 and SVE-3), and one air injection well (SVI-1). Well SVI-1 was abandoned in 2009 due to a broken casing. Figure 8 shows the locations of the SVE wells. The SVE/AI system was designed to remove and treat vapor phase VOCs, primarily PCE and TCE, from soil between the landfill waste footprint and the groundwater (approximately 90 feet bgs to 250 feet bgs) to prevent groundwater contamination. The System operated from 1999 until 2002 and again from 2005 to 2006. The SVE/AI system removed and treated 18,034 lbs of total VOCs from below the landfill, including 1,590 lbs of PCE. COT-ES samples the vapor from the extraction wells triennially or on an as needed basis. No sampling associated with this system

was performed during this reporting period. The next vapor sampling event is scheduled for February 2014.

6.0 LANDFILL GAS EXTRACTION SYSTEM

COT-ES constructed a permanent landfill gas (LFG) extraction and flare system for the Harrison Road Landfill in 1998 (Figure 8). The system consists of a series of extraction wells (denoted HEW), which are connected to a 250 standard cubic feet per minute (scfm) blower. The system uses a flare to burn off the LFG. The system is designed to control off-site migration of methane, and the well network is primarily located near the boundaries of waste. The system has run continuously since 1998, and has successfully prevented the off-site migration of methane. An added benefit to the LFG system is that it removes VOC mass directly from the waste and prevents the vapor from migrating to the vadose zone and potentially contaminating the groundwater.

The flare runs most effectively at methane concentrations above 30% of the influent gas volume. Because the extraction wells are situated near the edge of waste, clean air is drawn into the system which causes relatively low methane concentrations at the flare influent. Average methane concentrations of the LFG system at Harrison were approximately 28% in 2011.

Based on historical soil vapor VOC concentrations in the vicinity of SVE-3, it appears that the waste in that area may be a source for groundwater contamination. In order to increase the percentage of methane entering the flare, improve operation of the system and remove a potential source for groundwater contamination, COT-ES installed 5 additional extraction wells deeper within the waste in the northeast area of the site and connected them to the flare system (Figure 8). The work was completed in June 2012. A copy of the completion report is provided on CD in Appendix B. Average methane concentrations of the LFG system influent were measured at approximately 40% shortly after the new wells were connected.

7.0 SUMMARY

No organic or inorganic parameter exceeded its associated AWQS during this reporting period except for PCE at WR-321A. PCE was detected in the well at 7.2 µg/L in February 2012 and at 6.7 ug/L in May 2012. PCE concentrations have been declining in the well since May 2011. COT-ES will continue quarterly sampling and trending VOCs in monitor wells WR-321A, HLM-550 and private well 421P during the second half of 2012.

The next quarterly groundwater monitoring event is scheduled for August 2012, and the next semiannual groundwater monitoring event will be conducted in November 2012.

The next soil vapor monitoring event is scheduled for February 2014. No soil vapor samples were collected for analysis during this reporting period.

COT-ES installed and connected 5 new landfill gas extraction wells. The work was completed in June 2012. A copy of the completion report is provided on CD in Appendix B.

FIGURES

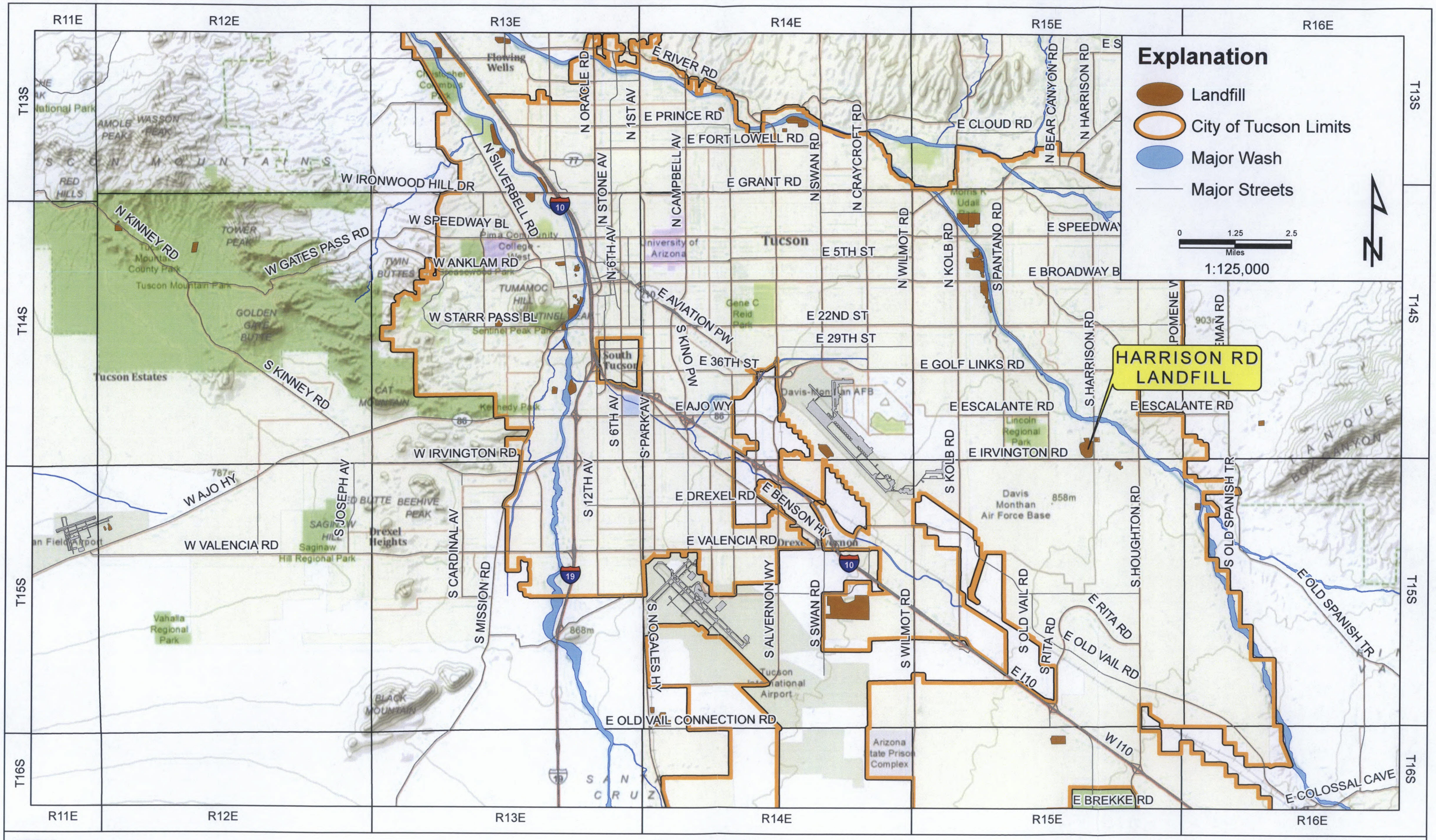

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Figure 1
Location Map
Harrison Road Landfill

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Figure 2
Harrison Landfill - Site Map

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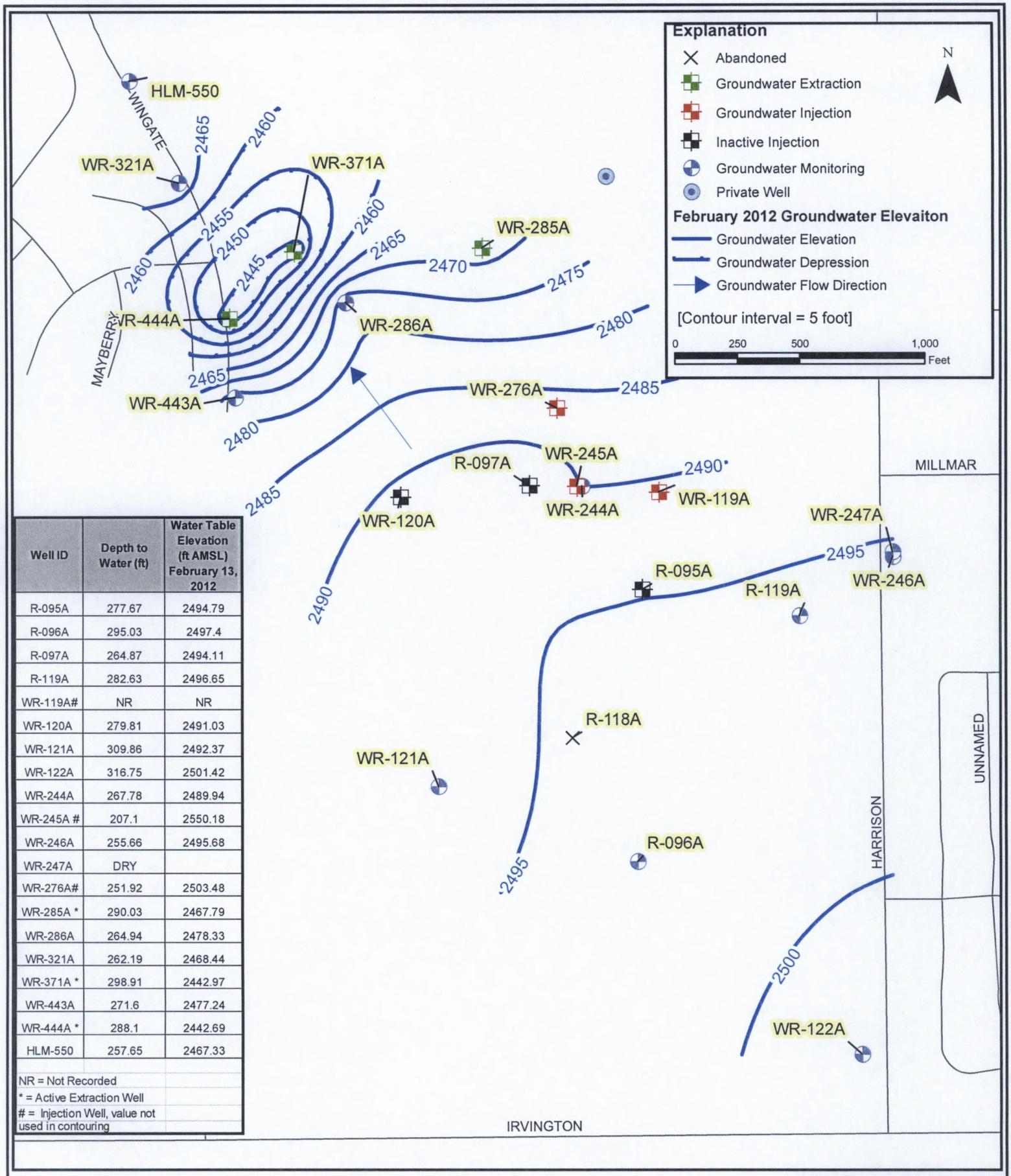

Well ID	Depth to Water (ft)	Water Table Elevation (ft AMSL) February 13, 2012
R-095A	277.67	2494.79
R-096A	295.03	2497.4
R-097A	264.87	2494.11
R-119A	282.63	2496.65
WR-119A#	NR	NR
WR-120A	279.81	2491.03
WR-121A	309.86	2492.37
WR-122A	316.75	2501.42
WR-244A	267.78	2489.94
WR-245A #	207.1	2550.18
WR-246A	255.66	2495.68
WR-247A	DRY	
WR-276A#	251.92	2503.48
WR-285A *	290.03	2467.79
WR-286A	264.94	2478.33
WR-321A	262.19	2468.44
WR-371A *	298.91	2442.97
WR-443A	271.6	2477.24
WR-444A *	288.1	2442.69
HLM-550	257.65	2467.33

NR = Not Recorded
* = Active Extraction Well
# = Injection Well, value not used in contouring

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Figure 3
Groundwater Elevation Map - February 2012
Harrison Landfill

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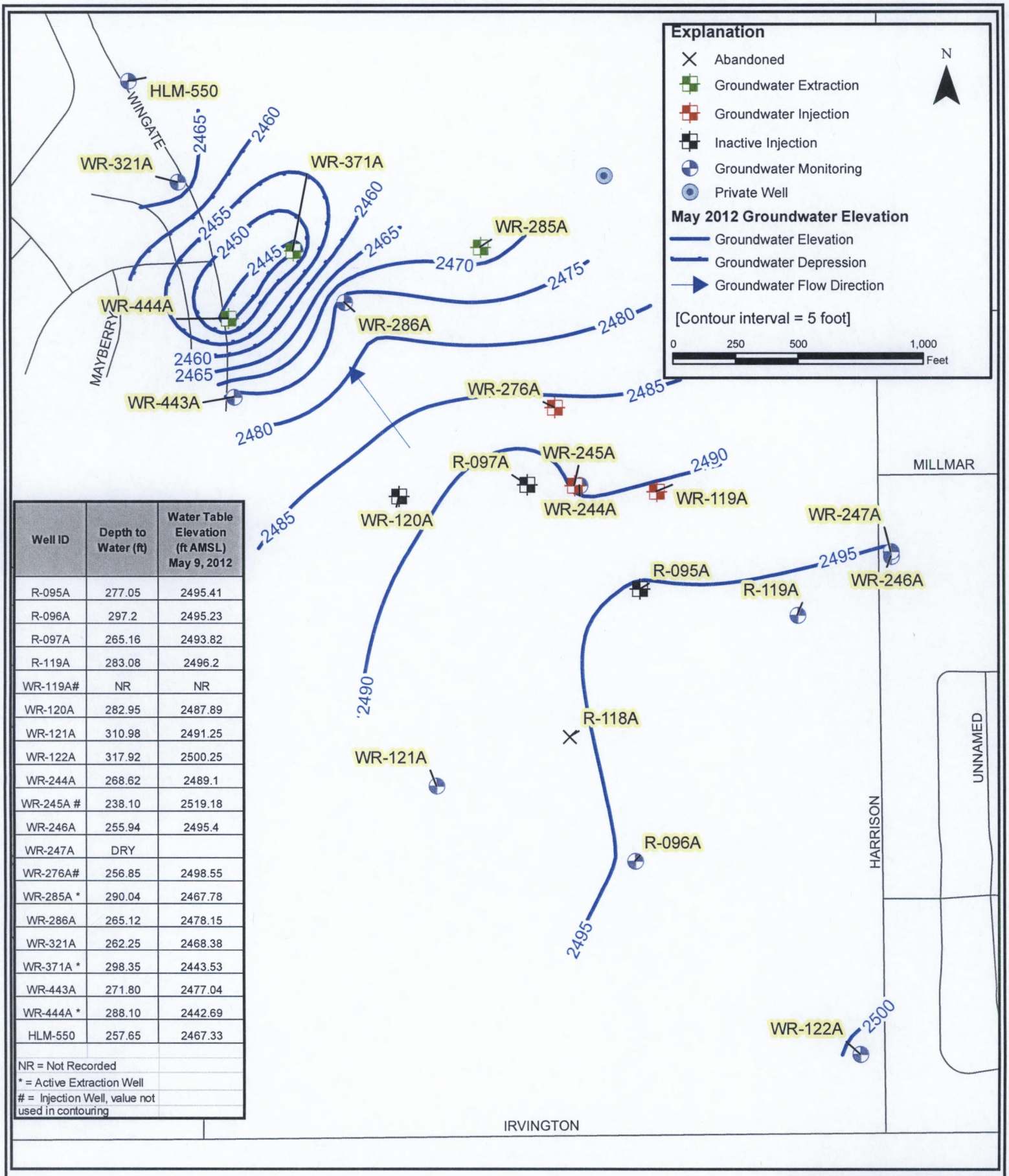

Well ID	Depth to Water (ft)	Water Table Elevation (ft AMSL) May 9, 2012
R-095A	277.05	2495.41
R-096A	297.2	2495.23
R-097A	265.16	2493.82
R-119A	283.08	2496.2
WR-119A#	NR	NR
WR-120A	282.95	2487.89
WR-121A	310.98	2491.25
WR-122A	317.92	2500.25
WR-244A	268.62	2489.1
WR-245A #	238.10	2519.18
WR-246A	255.94	2495.4
WR-247A	DRY	
WR-276A#	256.85	2498.55
WR-285A *	290.04	2467.78
WR-286A	265.12	2478.15
WR-321A	262.25	2468.38
WR-371A *	298.35	2443.53
WR-443A	271.80	2477.04
WR-444A *	288.10	2442.69
HLM-550	257.65	2467.33

NR = Not Recorded
* = Active Extraction Well
# = Injection Well, value not used in contouring

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Figure 4
Groundwater Elevation Map - May 2012
Harrison Landfill

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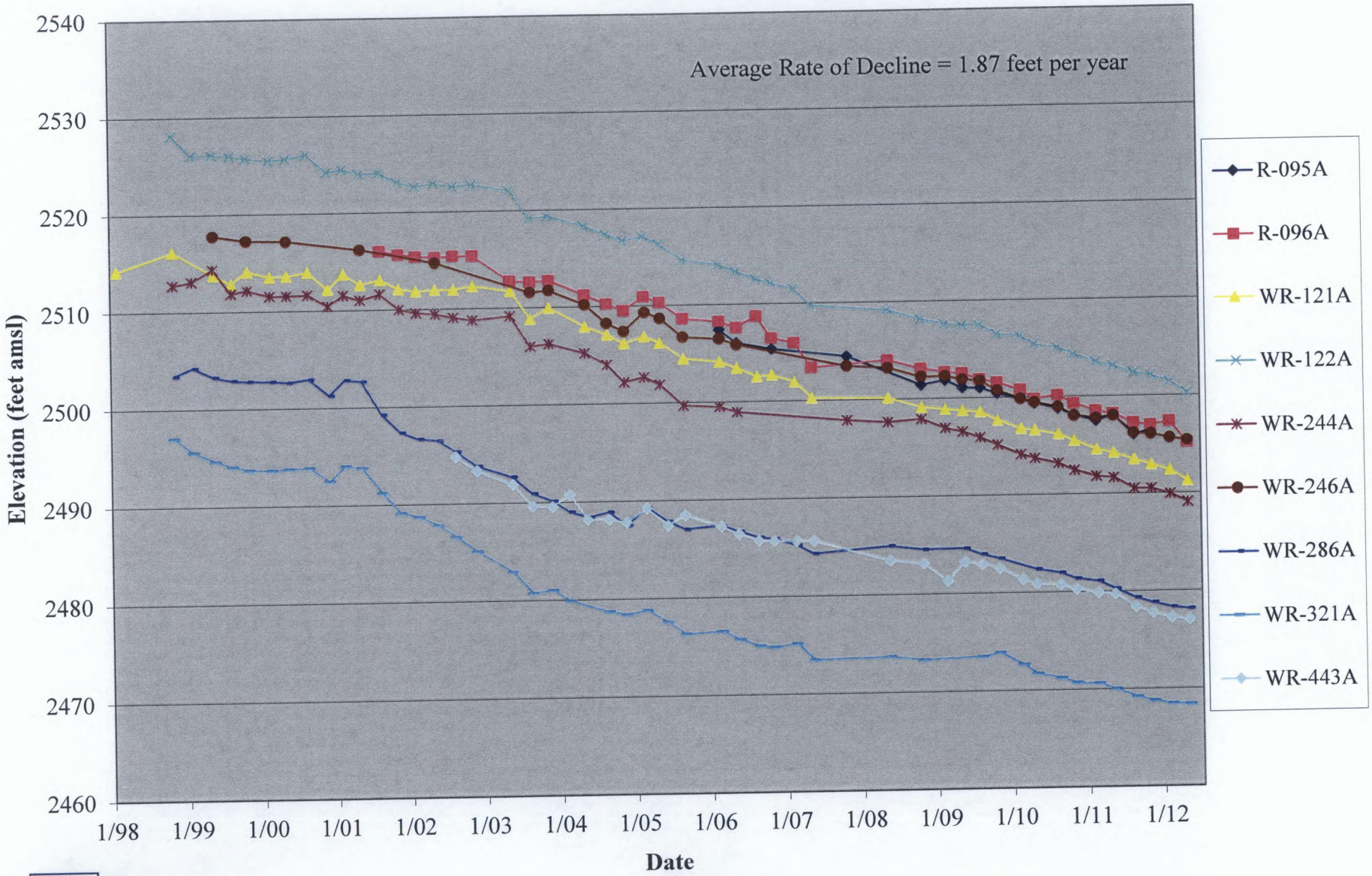

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Figure 5
Groundwater Hydrographs
Harrison Landfill

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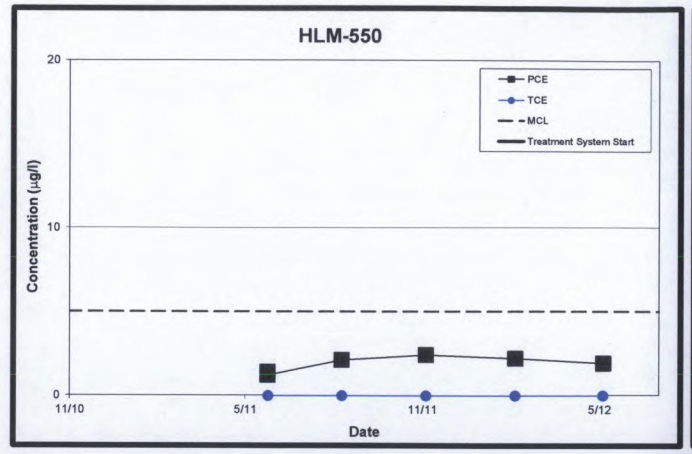

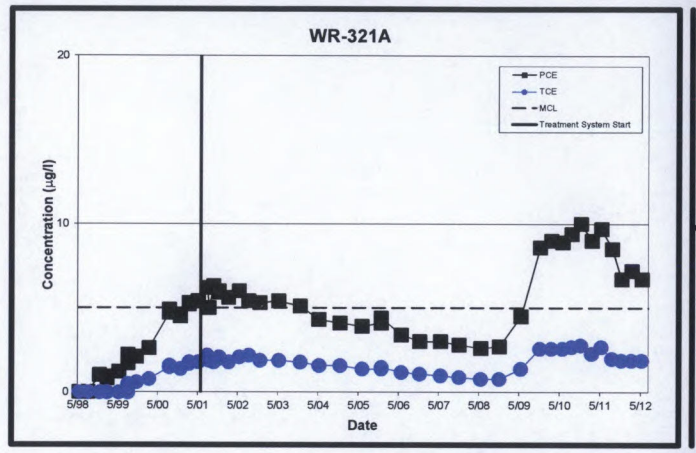

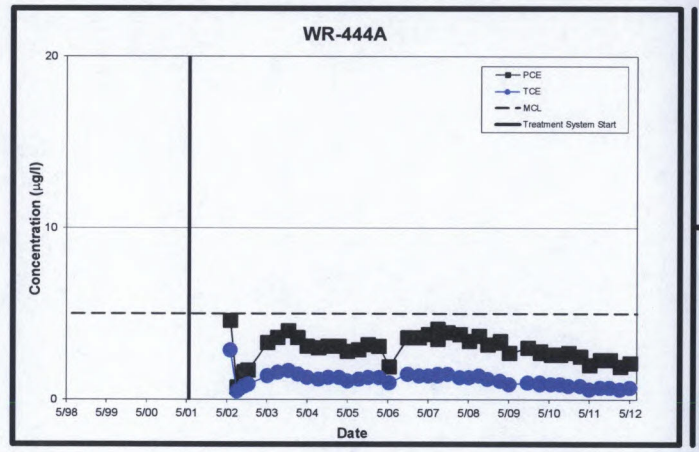

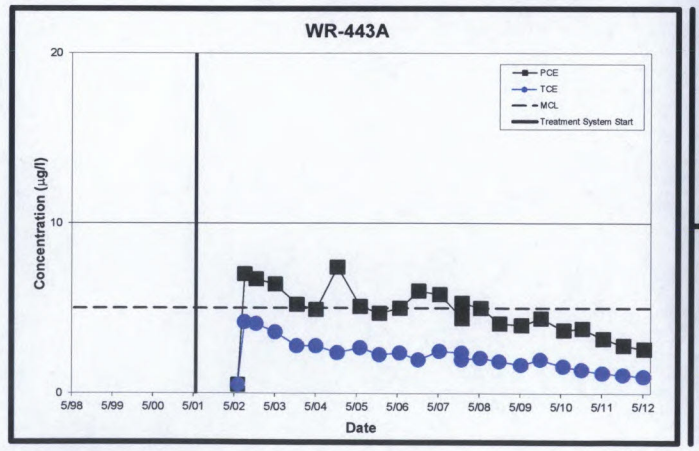

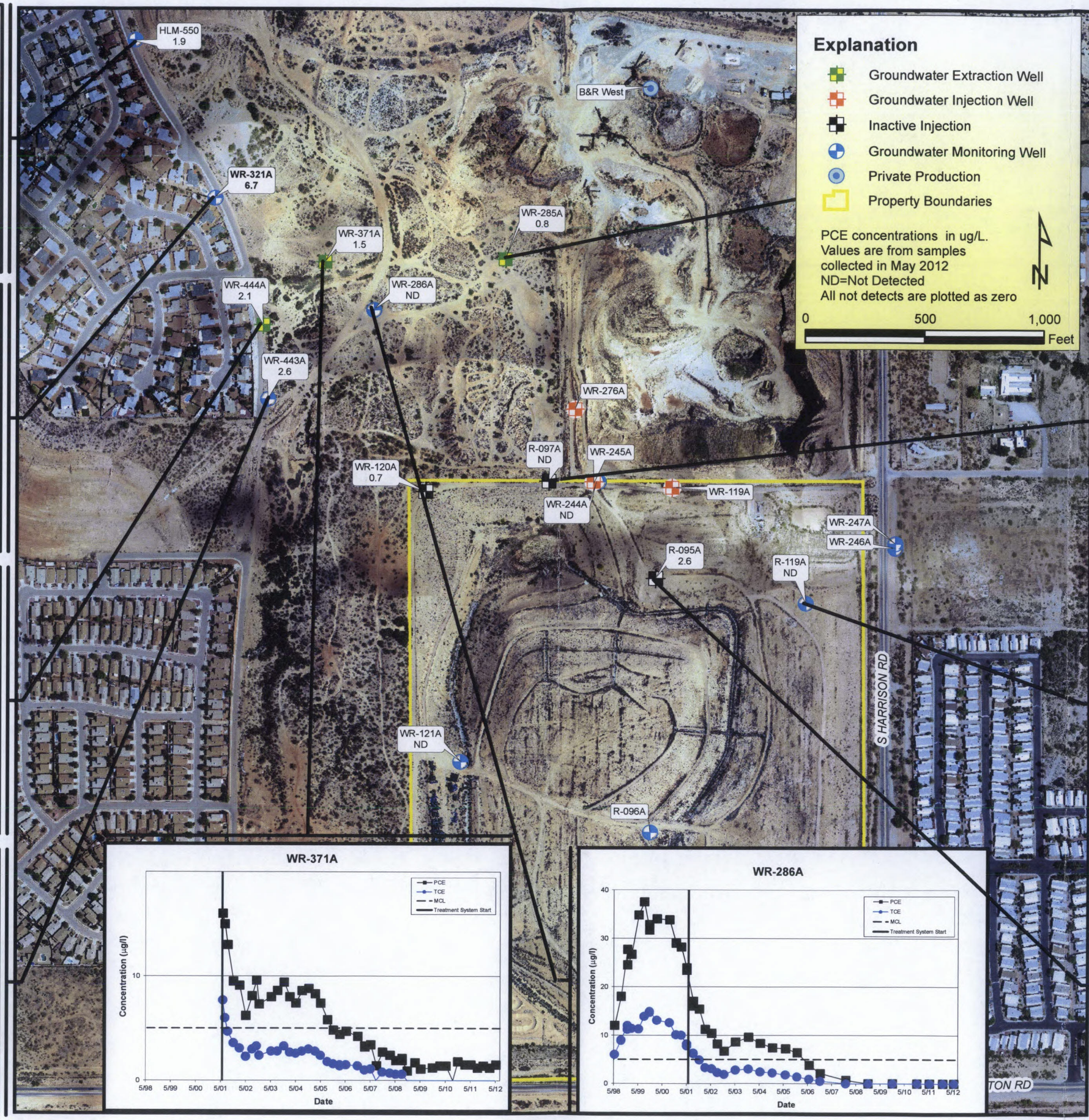

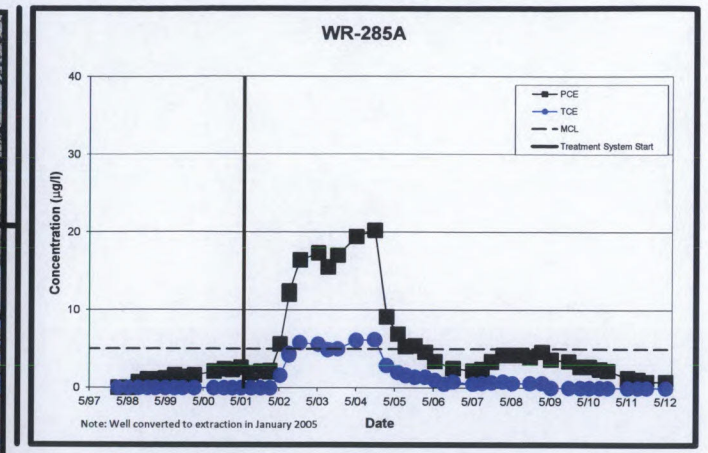

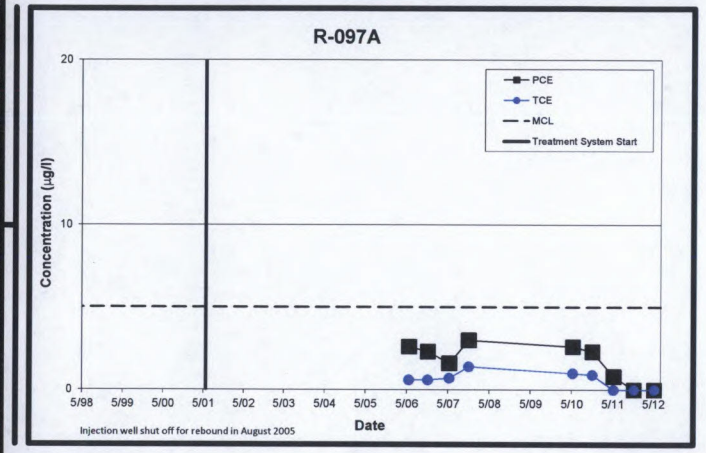

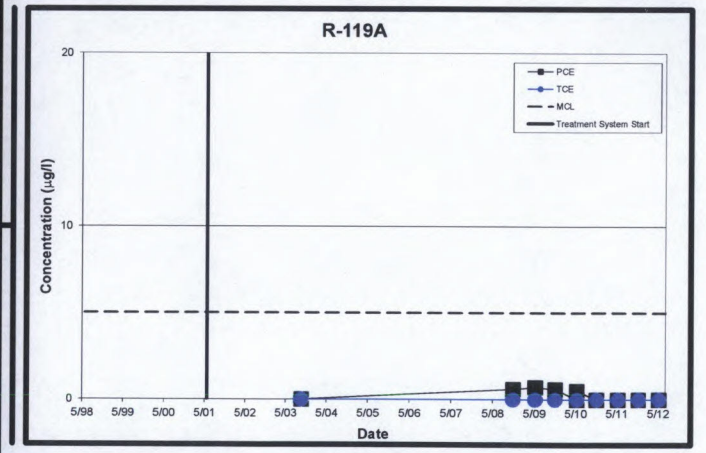

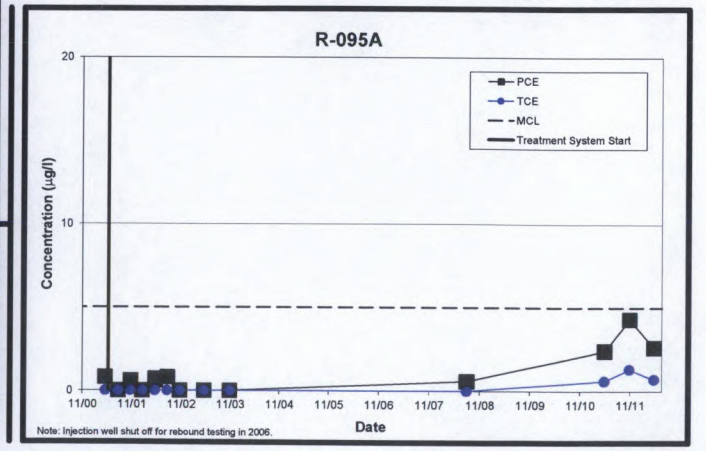

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Figure 6
Groundwater TCE and PCE Concentrations - May 2012
Harrison Road Landfill

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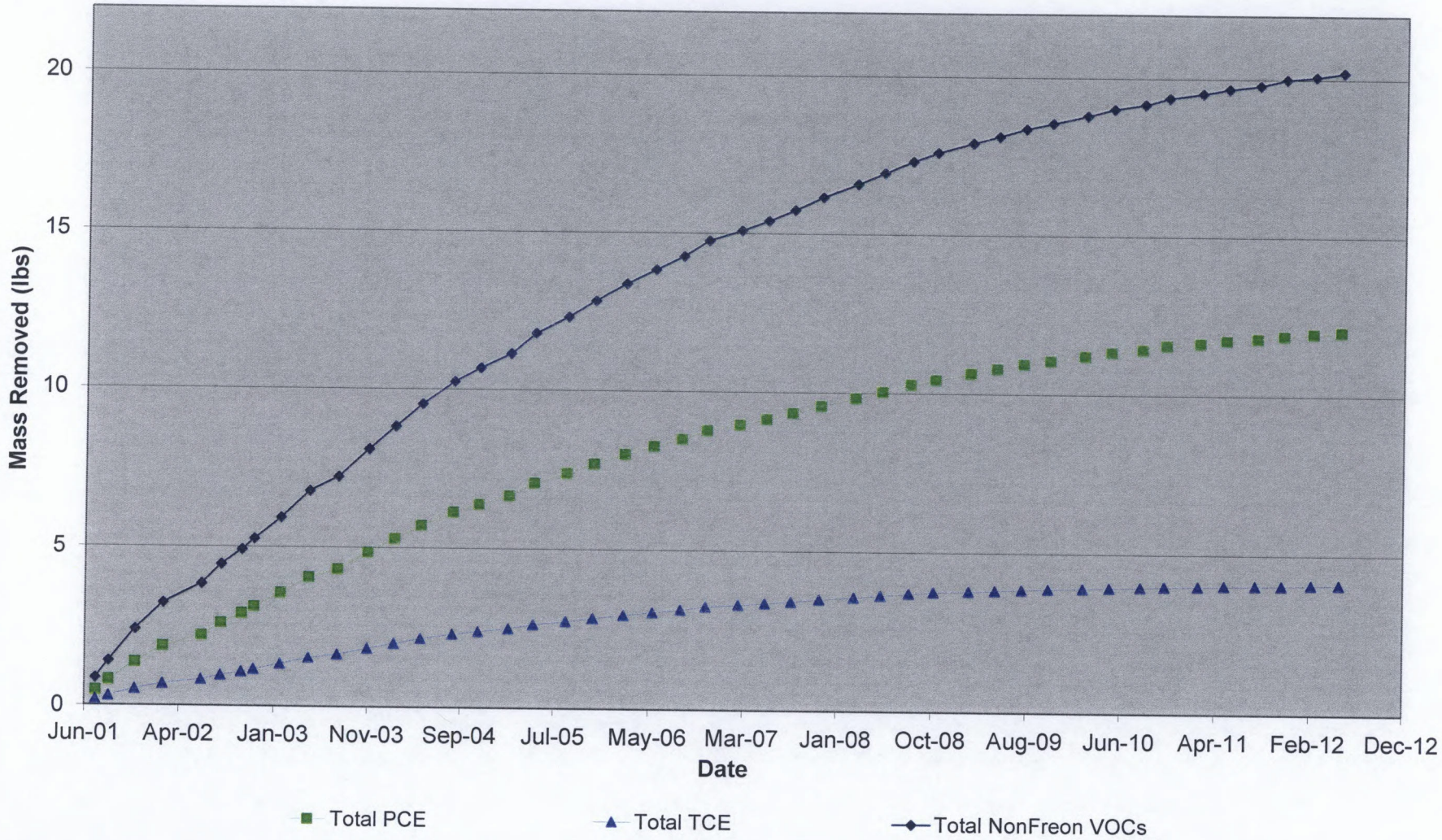

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Non Freon VOC Cumulative Mass Removed
Harrison Landfill Ground Water Treatment System
Figure 7

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7/10/2012

Figure 8
Soil Vapor Extraction and Landfill Gas Extraction Systems Harrison Road Landfill

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Figure 8
Soil Vapor Extraction and Landfill Gas Extraction Systems
Harrison Road Landfill

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TABLES

TABLE 1
Well Information
Harrison Road Landfill

WELL_ID	ADWR Well ID#	WELL TYPE	LAND OWNER	Northing	Easting	Measuring Pt. Elevation (amsl)	Measuring Pt. Local	CONCRETE SLAB ELEVATION (amsl)	Diameter (in)	Casing material	Total Well Depth (ft)	Total Boring Depth (ft)	Screened Section (ft)	Comments
HLM-550	55-220573	GW Monitoring	COT	429039.57	1045664.24	2725.04	TOST	2725.94	6	Sch. 80 PVC	305	310	215-305	
R-095A	55-583809	GW Injection	COT	426968.90	1047742.28	2771.68	SEAL	2771.04	6	Steel & Sch. 80 PVC	300	310	190-300	Inactive Injection Well
R-096A	55-583810	GW Monitoring	COT	425890.59	1047719.58	2792.43	TOST	2791.49	6	Steel & Sch. 80 PVC	320	330	220-320	
R-097A	55-587885	GW Injection	COT	427381.53	1047289.13	2758.91	TOC	2758.45	6	Steel & Sch. 80 PVC	278	278	137-277	Inactive Injection Well
R-118A	55-598320	GW Monitoring	COT	426381.44	1047463.39	2816.75	TOC	2816.31	6	Steel & Sch. 80 PVC	340	340	180-340	Well Abandoned January 2012
R-119A	55-598321	GW Monitoring	COT	426863.99	1048372.78	2779.32	TOC	2778.82	6	Steel & Sch. 80 PVC	320	320	210-320	
SL-001	55-615942	GW Monitoring	COT	424983.98	1048611.51	2824.51	SEAL	2823.47	16/12	Unknown type Steel	950	950	281-950	
SVE-1*	55-570102	SV Extraction	COT	427290.17	1047803.02	NS	NS	NS	6	Steel & Sch. 80 PVC	200	250	150-200	Well File R-039A
SVE-2*	55-573121	SV Extraction	COT	426199.95	1047018.46	NS	NS	NS	6	Steel & Sch. 80 PVC	240	285	180-240	Well File R-040A
SVE-3*	55-573123	SV Extraction	COT	426199.83	1048436.31	NS	NS	NS	6	Steel & Sch. 80 PVC	230	275	170-230	Well File R-042A
SVI-1*	55-570101	Abandoned	COT	426590.93	1047921.40	NS	NS	NS	6/3	Steel & Sch. 80 PVC	313	315	203-313	Well File R-038A. Abandoned January 2009
VMW-1A*	None	SV Monitoring	COT	427327.89	1047665.30	NS	NS	NS	0.5	PVC	141	165	Various	2 SV Monitoring Probes
VMW-2R*	55-574007	SV Monitoring	COT	426390.46	1047944.55	NS	NS	NS	0.5	Steel & Sch. 80 PVC	200	205	Various	4 SV Monitoring Probes
WR-119A	55-518658	GW Injection	COT	427355.29	1047804.56	2756.88	IJTB	2756.05	6	Sch. 80 Steel	340	345	240-340	
WR-120A	55-518659	GW Injection	COT	427333.55	1046775.52	2770.71	IJTB	2770.09	6	Sch. 80 Steel	370	370	265-365	Inactive Injection Well
WR-121A	55-518660	GW Monitoring	COT	426189.28	1046923.25	2802.19	TOST	2801.57	6	Sch. 80 Steel	380	385	280-380	
WR-122A	55-518603	GW Monitoring	COT	425113.39	1048619.54	2818.27	TOST	2817.49	6	Sch. 80 Steel	385	390	285-385	
WR-244A	55-551803	GW Monitoring	COT	427379.53	1047498.25	2757.70	TOST	2756.75	5	Steel & Sch. 80 PVC	365	370	340-360	
WR-245A	55-551804	GW Injection	COT	427378.38	1047478.04	2757.35	IJTB	2756.18	6	Steel & Sch. 80 PVC	275	340	233-263	
WR-246A	55-551801	GW Monitoring	COT	427099.31	1048743.14	2751.38	TOST	2750.43	6	Steel & Sch. 80 PVC	376	376	356-376	
WR-247A	55-551802	GW Monitoring	COT	427118.68	1048742.30	2750.94	TOST	2750.14	6	Steel & Sch. 80 PVC	264	264	220-250	Well is Dry
WR-276A	55-561733	GW Injection	ANB SONORA, LLC	427687.58	1047399.45	2755.40	TOST	2754.47	6	Steel & Sch. 80 PVC	287	287	235-285	
WR-285A	55-563006	GW Extraction	ASLD	428321.84	1047101.32	2755.80	SEAL	2755.05	6	Steel & Sch. 80 PVC	300	300	240-300	
WR-286A	55-563005	GW Monitoring	ASLD	428106.69	1046554.26	2743.35	TOST	2742.35	6	Steel & Sch. 80 PVC	286	300	235-285	
WR-321A	55-565632	GW Monitoring	COT	428579.45	1045889.07	2730.71	TOST	2729.56	5	Steel & Sch. 80 PVC	289	289	230-280	
WR-348A*	55-573122	Abandoned	COT	426379.41	1047949.86	NS	NS	2786.18	6	Steel & Sch. 80 PVC	320	320	235-315	Abandoned December 2008
WR-371A	55-584020	GW Extraction	ASLD	428309.68	1046350.23	2741.09	SEAL	2740.47	8	Steel & Sch. 80 PVC	307	307	234-302	
WR-443A	55-591331	GW Monitoring	COT	427729.69	1046114.33	2748.62	SEAL	2749.93	6	Steel & Sch. 80 PVC	290	305	241-289	
WR-444A	55-591332	GW Extraction	COT	428040.38	1046090.81	2730.92	TOST	2732.18	8	Steel & Sch. 80 PVC	308	320	234-303	

* - Northing and Easting (N&E) from 2005 survey. All others were resurveyed in August 2011
N&E referenced to NAD 83, Arizona State Plane
N&E is measuring point location unless no elevation value present, then location is concrete slab.
Elevations referenced to NAVD 88
NS = Not Surveyed
SV = Soil Vapor
GW = Groundwater
ASLD = Arizona State Land Department
COT = City of Tucson

Measuring Pt. Local Descriptions:
IJTB = Top of Injection Tube
SEAL = Top of well seal.
TOC = Top of Casing.
TOST = Top of Sounding Tube.

TABLE 2
Groundwater Elevations
Harrison Road Landfill

February 2012

Well ID	Date	Time	Depth to Water (ft)	CF (ft)	Corrected Depth to Water (ft)	Benchmark Elv. (ft. a.m.s.l.)	Water Table Elevation (ft)	Comments
R-095A	2/13/2012	0958	277.67	-1.42	276.25	2771.04	2494.79	
R-096A	2/13/2012	0940	295.03	-0.94	294.09	2791.49	2497.4	
R-097A	2/13/2012	1005	264.87	-0.53	264.34	2758.45	2494.11	
R-119A	2/13/2012	1001	282.63	-0.46	282.17	2778.82	2496.65	
WR-119A#	2/13/2012	NR		-0.73	-0.73	2756.05	2756.78	Water in sounding tube, unable to get water level.
WR-120A	2/13/2012	1112	279.81	-0.75	279.06	2770.09	2491.03	
WR-121A	2/13/2012	0931	309.86	-0.66	309.2	2801.57	2492.37	
WR-122A	2/13/2012	0949	316.75	-0.68	316.07	2817.49	2501.42	
WR-244A	2/13/2012	1017	267.78	-0.97	266.81	2756.75	2489.94	
WR-245A#	2/13/2012	1022	207.10	-1.1	206	2756.18	2550.18	
WR-246A	2/13/2012	0958	255.66	-0.91	254.75	2750.43	2495.68	
WR-247A	2/13/2012	0949	DRY	-1		2750.14		Well Dry
WR-276A#	2/13/2012	1003	251.92	-0.93	250.99	2754.47	2503.48	
WR-285A *	2/13/2012	1013	290.03	-2.77	287.26	2755.05	2467.79	
WR-286A	2/13/2012	1047	264.94	-0.92	264.02	2742.35	2478.33	
WR-321A	2/13/2012	0914	262.19	-1.07	261.12	2729.56	2468.44	
WR-371A *	2/13/2012	1027	298.91	-1.41	297.5	2740.47	2442.97	
WR-443A	2/13/2012	0902	271.60	1.09	272.69	2749.93	2477.24	
WR-444A *	2/13/2012	1038	288.10	1.39	289.49	2732.18	2442.69	
HLM-550	2/13/2012	0921	257.65	0.96	258.61	2725.94	2467.33	

May 2012

Well ID	Date	Time	Depth to Water (ft)	CF (ft)	Corrected Depth to Water (ft)	Benchmark Elv. (ft. a.m.s.l.)	Water Table Elevation (ft)	Comments
R-095A	5/9/2012	1027	277.05	-1.42	275.63	2771.04	2495.41	
R-096A	5/9/2012	0847	297.2	-0.94	296.26	2791.49	2495.23	
R-097A	5/9/2012	1050	265.16	-0.53	264.63	2758.45	2493.82	
R-119A	5/9/2012	1020	283.08	-0.46	282.62	2778.82	2496.2	
WR-119A#	5/9/2012	NR		-0.73	-0.73	2756.05	2756.78	Water in sounding tube, unable to get water level.
WR-120A	5/9/2012	1055	282.95	-0.75	282.2	2770.09	2487.89	
WR-121A	5/9/2012	0854	310.98	-0.66	310.32	2801.57	2491.25	
WR-122A	5/9/2012	0840	317.92	-0.68	317.24	2817.49	2500.25	
WR-244A	5/9/2012	1035	268.62	-0.97	267.65	2756.75	2489.1	
WR-245A#	5/9/2012	1040	238.10	-1.1	237	2756.18	2519.18	
WR-246A	5/9/2012	0835	255.94	-0.91	255.03	2750.43	2495.4	
WR-247A	5/9/2012	0830	DRY	-1		2750.14		Well Dry
WR-276A#	5/9/2012	0825	256.85	-0.93	255.92	2754.47	2498.55	
WR-285A *	5/9/2012	1112	290.04	-2.77	287.27	2755.05	2467.78	
WR-286A	5/9/2012	1121	265.12	-0.92	264.2	2742.35	2478.15	
WR-321A	5/9/2012	1212	262.25	-1.07	261.18	2729.56	2468.38	
WR-371A *	5/9/2012	1137	298.35	-1.41	296.94	2740.47	2443.53	
WR-443A	5/9/2012	1205	271.80	1.09	272.89	2749.93	2477.04	
WR-444A *	5/9/2012	1145	288.10	1.39	289.49	2732.18	2442.69	
HLM-550	5/9/2012	1219	257.65	0.96	258.61	2725.94	2467.33	

Notes:
CF = Correction Factor. All CF are to concrete slab.
# Active injection well
AMSL = Above Mean Sea Level
* Active extraction well.
NR = Not Recorded

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
R-095A							
05/17/12	2.6	0.7	0.9	<0.5	<0.5	<0.5	4.9
11/17/11	4.3	1.3	1.4	<0.5	<0.5	<0.5	11
05/19/11	2.4	0.6	0.8	<0.5	<0.5	<0.5	13
08/19/08	0.6	<0.5	0.8	<0.5	<0.5	<0.5	5.7
11/18/03	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	6.2
05/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.3
05/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2
11/12/02	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	5.6
08/12/02	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	5.7
05/14/02	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
05/14/02	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	5.7
02/07/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.2
02/07/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.3
11/13/01	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	13.0
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.3
05/10/01	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<2
R-096A							
11/08/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.1
05/25/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18.0
05/10/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.6
11/16/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.6
05/10/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
11/18/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
05/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.7
11/14/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.7
08/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.6
08/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.1
05/16/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.0
02/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.0
02/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13.0
11/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13.0
11/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.0
05/14/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
R-097A							
5/16/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
11/16/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
5/18/11	0.8	<0.5	0.8	<0.5	<0.5	<0.5	<2
11/10/10	2.3	0.9	1	<0.5	<0.5	<0.5	<2
05/20/10	2.6	1	1.4	<0.5	<0.5	<0.5	<2
11/08/07	3	1.4	1.2	<0.5	<0.5	<0.5	<2
05/21/07	1.6	0.7	1.0	<0.5	<0.5	<0.5	<2
11/13/06	2.3	0.6	1.1	<0.5	<0.5	<0.5	<2
05/31/06	2.6	0.6	1.6	<0.5	<0.5	<0.5	NA
R-118A (abandoned January 2011)							
09/14/11	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
09/29/03	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<2
R-119A							
5/16/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
5/16/12*	<0.5	<0.5	<0.5	<0.5	<2	<1	<2
11/16/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/18/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/18/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/10/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/10/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/20/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/20/10	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/09/09	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/20/09	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/05/08	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<2
09/29/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
			WR-119A				
11/15/10	4.8	1.1	1.4	<0.5	<0.5	<0.5	6.5
06/02/10	3.5	0.9	1.1	<0.5	<0.5	<0.5	3.7
11/05/09	3.2	0.7	1.2	<0.5	<0.5	<0.5	<2
11/05/09	3.4	0.8	1.3	<0.5	<0.5	<0.5	2.3
05/21/09	3.5	0.8	1	<0.5	<0.5	<0.5	<2
05/21/09	3.5	0.8	1.1	<0.5	<0.5	<0.5	2.4
11/06/08	2.1	0.5	1	<0.5	<0.5	<0.5	4.1
05/20/08	1.5	<0.5	1	<0.5	<0.5	<0.5	6.2
11/07/07	<0.5	<0.5	1	<0.5	<0.5	<0.5	5
05/21/07	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<2
11/13/06	1.3	<0.5	1.3	<0.5	<0.5	<0.5	5.1
05/25/06	0.8	<0.5	1.0	<0.5	<0.5	<0.5	NA
11/22/05	0.5	<0.5	1.1	<0.5	<0.5	<0.5	12.0
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16.0
11/18/03	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	3.5
05/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
11/13/02	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	3.6
08/12/02	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	2.5
08/12/02	<0.5	<0.5	2.2	<0.5	<0.5	<0.5	3.0
05/14/02	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	2.5
02/07/02	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	3.5
11/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4
11/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4
08/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9
05/09/01	5.7	1.4	1.1	<0.5	<0.5	<0.5	3.5
05/09/01	5.9	1.5	1.2	<0.5	<0.5	<0.5	3.5
02/14/01	4.1	1.0	0.7	<0.5	<0.5	<0.5	4.2
11/30/00	4.9	1.1	1.0	<0.5	<0.5	<0.5	3.6
08/23/00	5.1	1.4	1.1	<0.5	<0.5	<0.5	11.0
02/16/00	5.1	1.3	1.3	<0.5	<0.5	<0.5	4.0
10/28/99	5.4	1.4	1.2	<0.5	<0.5	<0.5	3.0
08/10/99	6.4	1.7	1.4	<0.5	<0.5	<0.5	4.0
05/13/99	6.1	1.8	1.4	<0.5	<0.5	<0.5	4.0
02/17/99	6.5	2.1	1.5	<0.5	<0.5	<0.5	<2
11/23/98	7.2	2.0	1.8	<0.5	0.5	<0.5	4.0
08/27/98	5.9	2.1	2.8	0.6	<0.5	<0.5	<30
05/21/98	4.2	1.5	1.3	<0.5	<0.5	<0.5	163.0
03/13/98	5.1	1.9	1.7	<0.5	<1	<1	<30
03/13/98	5.7	2.1	1.7	<0.5	<1	<1	<30
11/18/97	9.2	2.9	2.4	0.5	0.9	<0.5	6.0
11/18/97	9.3	3.0	2.8	0.6	1.0	<0.5	6.0
08/04/97	9.6	3.0	3.1	0.7	1.1	<0.5	6.0
08/04/97	9.7	3.0	3.2	0.7	1.2	<0.5	6.0
05/28/97	9.5	2.6	3.8	0.8	1.8	<0.5	9.0
05/28/97	9.6	2.7	4.0	0.9	1.8	<0.5	9.0
02/24/97	11.0	3.3	3.0	0.74	1.3	<0.5	9.0
11/18/96	11.7	3.3	2.5	0.6	1.2	<0.5	11.0
11/18/96	13.5	3.8	2.9	0.7	1.4	<0.5	13.0
08/22/96	8.3	3.0	3.8	0.8	1.6	<0.5	NA
05/30/96	12.3	3.6	3.2	0.7	1.0	<0.5	7.0
05/30/96	16.0	4.0	3.6	0.9	1.1	<0.5	<150
02/15/96	11.0	3.4	3.2	<1	<2	<1	NA
11/08/95	16.0	5.1	4.3	0.9	1.5	<0.5	7.0
05/15/95	10.0	4.1	4.5	0.7	<0.5	<0.5	6.0
05/15/95	13.2	4.2	4.5	<2	<5	<5	8.0
01/19/95	22.0	6.8	6.8	<2	<5	<5	<5
11/08/94	24.6	8.1	8.0	1.1	0.9	<0.5	9.0
01/10/94	27.0	13.8	12.8	2.9	22.7	<1	11.0
01/19/93	<0.3	<0.3	<0.3	<0.3	<0.3	<1	10.0
01/22/92	<0.4	<0.3	<0.3	<0.3	<0.3	<1	13.0
01/22/92	<0.4	<0.3	<0.3	<0.3	<0.3	<1	14.0
02/04/91	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<20
02/06/90	0.5	<0.3	<0.3	<0.4	<0.4	<1	11.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-120A							
05/17/12	0.7	<0.5	0.8	<0.5	<0.5	<0.5	29
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	33.0
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**61.0**
11/17/03	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	5.1
05/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.0
11/13/02	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	18.0
08/12/02	<0.5	<0.5	2.1	<0.5	<0.5	<0.5	4.2
05/13/02	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	8.1
11/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.8
08/15/01	<1	<1	<1	<1	<1	<1	3.5
05/09/01	**24.5**	**12.8**	9.8	1.6	46.3	0.6	4.8
02/14/01	**21.2**	**11.8**	8.7	1.3	17.9	<0.5	3.2
11/30/00	**18.5**	**9.8**	7.8	1.0	8.8	<0.5	7.5
08/23/00	**17.4**	**10.8**	8.4	1.2	23.4	<0.5	3.6
08/23/00	**18.6**	**10.9**	8.6	1.2	29.4	0.5	5.9
02/16/00	**11.3**	**7.2**	5.7	0.8	32.9	<0.5	4.5
10/27/99	**7.4**	4.8	3.5	<0.5	22.0	<0.5	3.0
08/09/99	**7.1**	4.2	2.8	<0.5	19.0	<0.5	5.0
05/12/99	4.1	2.9	2.0	<0.5	12.8	<0.5	4.0
02/01/99	3.9	2.4	2.2	<0.5	12.4	<0.5	4.0
12/01/98	2.8	2.1	1.7	<0.5	8.9	<0.5	5.0
08/27/98	3.2	2.7	3.3	<0.5	17.0	<0.5	<30
05/21/98	1.9	1.6	1.3	<0.5	8.4	<0.5	<30
03/13/98	2.1	1.7	1.3	<0.5	7.0	<1	<30
12/30/97	3.1	1.8	1.5	<0.5	7.3	<0.5	10.0
08/04/97	3.2	1.8	1.7	<0.5	7.8	<0.5	17.0
05/28/97	2.6	1.4	1.6	<0.5	7.2	<0.5	13.0
02/24/97	2.5	1.5	1.2	<0.5	3.3	<0.5	8.0
02/24/97	3.0	1.9	1.4	<0.5	4.2	<0.5	9.0
11/18/96	2.7	1.4	0.9	<0.5	1.3	<0.5	19.0
08/22/96	1.3	0.9	0.9	<0.5	<0.5	<0.5	NA
05/30/96	1.6	0.9	0.5	<0.5	<0.5	<0.5	<150
05/30/96	2.1	0.9	0.6	<0.5	<1	<0.5	NA
02/15/96	1.6	<1	<1	<1	<2	<1	3.0
11/08/95	1.7	0.9	<0.5	<0.5	<1	<0.5	10.0
05/15/95	<2	<2	<2	<2	<5	<5	6.0
01/19/95	<2	<2	<2	<2	<5	<5	<5
11/08/94	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	10.0
01/10/94	<0.3	<0.3	<0.3	<0.3	<0.3	<1	11.0
01/19/93	<0.3	<0.3	<0.3	<0.3	<0.3	<1	16.0
01/19/93	<0.3	<0.3	<0.3	<0.3	<0.3	<1	18.0
01/22/92	0.5	<0.3	<0.3	<0.3	<0.3	<1	11.0
02/04/91	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<20
02/05/90	0.5	<0.3	<0.3	<0.4	<0.4	<1	15.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
			WR-121A				
5/14/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
5/14/12*	<0.5	<0.5	<0.5	<0.5	<2	<1	6.64
12/01/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13
05/17/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	31
11/09/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
05/18/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
11/04/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.8
05/19/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1
11/03/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4
11/03/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.5
05/19/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6
05/19/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2
11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
05/16/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.1
11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
05/22/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/21/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12.0
05/09/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.1
05/09/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.3
05/10/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
05/10/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
11/17/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.8
05/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.5
11/14/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
08/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
05/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6
05/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
02/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9
11/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.5
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.7
05/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
05/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
03/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
02/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	32.0
11/28/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.9
08/21/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.9
02/14/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.2
10/26/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
08/10/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
05/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
02/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
02/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/24/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
08/11/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
08/11/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
05/22/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
03/13/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/25/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
08/08/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.0
05/27/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11.0
02/26/97	<0.5	<0.5	<0.5	<0.5	<1	<0.5	30.0
11/18/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	19.0
05/30/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
05/30/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<150
11/07/95	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<150
05/15/95	<2	<2	<2	<2	<5	<5	<5
01/19/95	<2	<2	<2	<2	<5	<5	<5
01/10/94	<0.3	<0.3	<0.3	<0.3	<0.3	<1	5.0
01/19/93	<0.3	<0.3	<0.3	<0.3	<0.3	<1	9.0
01/22/92	<0.4	<0.3	<0.3	<0.3	<0.3	<1	5.0
02/04/91	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<20
02/04/91	<0.4	<0.4	<0.4	<0.4	<0.4	<1	50.0
02/05/90	<0.4	<0.3	<0.3	<0.4	<0.4	<1	6.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
				WR-122A			
05/15/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
11/15/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
05/17/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
11/09/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4
05/18/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10
05/18/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10
11/04/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	12
05/19/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
11/03/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.5
05/19/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7
11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
05/16/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.5
05/22/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
05/22/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/17/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
05/10/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9
05/10/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.4
11/16/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.1
05/11/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/19/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.5
05/13/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	15.0
11/14/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	34.0
08/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9
05/14/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
02/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6
11/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
05/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.5
02/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
11/28/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6
08/21/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
02/14/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.1
10/25/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
08/09/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
05/13/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
02/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/24/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
08/11/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
05/22/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	39.0
02/11/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/25/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
08/08/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18.0
05/27/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	28.0
03/03/97	<0.5	<0.5	<0.5	<0.5	<1	<0.5	11.0
11/20/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.0
05/31/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	22.0
05/31/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<150
11/08/95	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<5
05/15/95	<2	<2	<2	<2	<5	<5	10.0
01/19/95	<2	<2	<2	<2	<5	<5	16.0
01/10/94	<0.3	<0.3	<0.3	<0.3	<0.3	<1	15.0
01/19/93	<0.3	<0.3	<0.3	<0.3	<0.3	<1	17.0
01/22/92	<0.4	<0.3	<0.3	<0.3	<0.3	<1	**280.0**
02/04/91	<0.4	<0.4	<0.4	<0.4	<0.4	<1	20.0
02/06/90	<0.4	<0.3	<0.3	<0.4	<0.4	<1	20.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-244A							
05/15/12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11
11/15/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.4
05/17/11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
11/09/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4
11/09/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4
06/02/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.9
11/04/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8
05/19/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.6
11/03/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
05/21/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
11/06/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
05/16/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
05/16/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
11/07/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.5
05/22/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/22/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.7
11/22/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
05/09/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
11/15/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
05/10/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13.0
11/17/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
05/12/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2
11/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1
08/12/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6
05/14/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8
02/07/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
11/14/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
08/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.6
05/07/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
03/15/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
02/13/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.3
11/28/00	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	2.7
08/21/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5
02/14/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.9
02/14/00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
10/27/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
08/10/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
05/13/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
02/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
02/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.0
11/23/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
08/11/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
05/21/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	48.0
02/27/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/25/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/25/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
08/08/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/28/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
02/26/97	<0.5	<0.5	<0.5	<0.5	<1	<0.5	3.0
11/20/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.0
08/22/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
08/22/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.0
05/30/96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
05/30/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<150
02/15/96	<1	<1	<1	<1	<2	<1	<150
11/07/95	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<150

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-245A							
11/17/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	26.0
11/17/03	1.3	<0.5	0.9	<0.5	0.6	<0.5	13.0
05/12/03	0.6	<0.5	<0.5	<0.5	1.3	<0.5	5.5
11/25/02	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	2.0
08/12/02	<0.5	<0.5	2.4	<0.5	2.9	<0.5	13.0
05/14/02	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<2
02/07/02	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<2
11/19/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
08/15/01	<1	<1	<1	<1	<1	<1	<2
08/15/01	<1	<1	<1	<1	<1	<1	5.0
05/14/01	**6.8**	2.7	1.1	<0.5	0.7	<0.5	4.4
05/14/01	**7.2**	2.8	1.2	<0.5	0.7	0.5	6.0
02/14/01	4.7	1.6	<0.5	<0.5	1.9	<0.5	2.2
02/14/01	5.1	1.6	<0.5	<0.5	2.0	<0.5	**91.0**
11/30/00	4.6	1.3	0.5	<0.5	1.8	<0.5	2.1
11/30/00	4.8	1.4	0.5	<0.5	2.0	<0.5	3.1
08/23/00	**5.8**	2.2	0.9	<0.5	5.2	0.7	3.0
02/16/00	**15.9**	**6.3**	4.0	<0.5	16.7	3.0	<2
02/16/00	**16.9**	**6.7**	4.2	<0.5	19.4	3.4	2.4
10/27/99	**31.5**	**11.2**	6.3	<0.5	23.2	6.4	3.0
08/10/99	**21.7**	**7.8**	4.5	<0.5	10.2	4.7	<2
08/10/99	**22.9**	**8.2**	4.8	<0.5	11.0	4.9	<2
05/13/99	**14.1**	**5.6**	2.9	<0.5	5.8	2.7	<2
05/13/99	**16.2**	**6.6**	3.7	<0.5	6.8	3.3	<2
02/17/99	**16.4**	**7.2**	2.7	<0.5	7.6	3.4	<2
11/23/98	**24.5**	**8.9**	3.4	<0.5	12.1	5.8	4.0
08/11/98	**10.0**	3.5	1.3	<1	<1	2.1	<30
05/21/98	**8.6**	3.3	<1.2	<1.2	<1.2	<1.2	44.0
02/13/98	**8.4**	2.6	0.9	<0.5	1.3	1.4	<30
11/18/97	**13.9**	3.9	1.1	<0.5	1.6	1.9	6.0
08/04/97	**8.0**	1.8	0.9	<0.5	1.0	0.9	9.0
08/04/97	**8.9**	2.2	1.0	<0.5	1.3	1.0	10.0
05/28/97	**7.0**	1.5	0.9	<0.5	1.3	1.0	10.0
02/24/97	**10.0**	2.1	0.84	<0.5	<1	0.83	6.0
11/20/96	**8.5**	1.9	0.6	<0.5	0.9	0.6	5.0
11/20/96	**9.6**	2.0	0.6	<0.5	0.9	0.7	5.0
08/22/96	**7.1**	2.3	1.1	<0.5	1.3	2.4	8.0
05/30/96	**13.0**	2.1	0.6	<0.5	0.8	0.9	11.0
05/30/96	**8.4**	2.6	0.9	<0.5	<1	1.0	<150
02/15/96	**6.6**	2.1	<1	<1	<2	1.2	<150
02/15/96	**7.3**	2.3	<1	<1	<2	2.3	<150
11/09/95	**8.5**	2.4	0.7	<0.5	1.6	1.2	<5
11/09/95	**8.9**	2.4	0.7	<0.5	1.7	1.3	<5
WR-246A							
11/08/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
05/23/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/21/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
11/21/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
05/11/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3
11/16/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.4
11/16/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.8
05/11/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/18/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3
05/14/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4.6
05/16/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.8
05/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2
10/25/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
05/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
02/09/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/20/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16.0
06/30/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
05/31/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA
11/07/95	<0.5	<0.5	<0.5	<0.5	<1	<0.5	7.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
			WR-247A				
11/08/06	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	2.8
05/23/06	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
11/21/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
05/09/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.1
11/16/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
05/11/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
11/18/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/14/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2
11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.2
11/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
05/16/02	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<2
05/08/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5
10/25/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
05/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.0
05/17/99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.0
02/09/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
02/09/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/20/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.0
05/27/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
05/27/97	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10.0
05/31/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA
05/31/96	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA
11/07/95	<0.5	<0.5	<0.5	<0.5	<1	<0.5	5.0
			WR-276A				
06/13/05	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	8.6
06/13/05	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	9.9
11/22/04	3.1	0.8	1.6	<0.5	<0.5	<0.5	2.6
11/22/04	3.1	0.8	1.6	<0.5	<0.5	<0.5	2.4
05/20/04	**9.1**	2.2	2.5	<0.5	<0.5	<0.5	11.0
12/03/03	**6.3**	1.6	2.4	<0.5	<0.5	<0.5	2.2
05/19/03	**8.1**	2.0	2.5	<0.5	<0.5	<0.5	3.6
11/14/02	**11.3**	3.0	3.4	0.5	1.3	<0.5	4.7
08/14/02	**10.6**	3.0	3.0	0.5	<0.5	<0.5	5.1
05/20/02	**14.1**	4.3	3.2	0.8	<0.5	<0.5	2.9
02/12/02	**12.3**	4.0	3.7	0.8	0.7	<0.5	2.0
11/15/01	**14.8**	5.1	4.4	1.1	<0.5	<0.5	<2
08/14/01	2.6	<1	<1	<1	<1	<1	<2
05/14/01	**30.3**	11.4	8.2	2.6	2.9	<0.5	<2
02/14/01	**30.0**	11.7	8.5	2.7	3.0	<0.5	2.7
11/30/00	**32.5**	11.8	10.3	3.0	2.8	<0.5	2.4
08/23/00	**30.1**	12.3	10.4	3.1	3.3	<0.5	3.2
02/15/00	**24.8**	9.3	8.8	2.1	2.2	<0.5	4.6
02/15/00	**25.2**	9.5	8.9	2.3	2.5	<0.5	5.0
10/28/99	**30.2**	11.4	10.3	2.2	1.8	<0.5	5.0
10/28/99	**31.8**	11.8	10.4	2.3	1.8	<0.5	6.0
08/09/99	**38.9**	13.9	10.4	2.4	1.9	<0.5	7.0
05/12/99	**31.1**	11.5	8.9	2.0	2.0	<0.5	7.0
02/01/99	**35.0**	12.9	10.6	2.3	2.0	<0.5	7.0
11/23/98	**27.5**	11.5	10.2	2.4	1.0	<0.5	8.0
11/23/98	**35.1**	15.8	13.2	3.1	1.2	<0.5	9.0
08/27/98	**26.0**	15.0	19.0	4.3	1.5	<0.5	<30
05/21/98	**24.0**	13.0	10.0	0.8	<0.8	<0.8	<30
05/21/98	**24.0**	13.0	9.9	2.0	<0.8	<0.8	30.0
02/13/98	**29.0**	16.0	12.0	2.4	2.8	<1	<30
11/18/97	**56.4**	26.0	18.9	4.2	7.4	<0.5	12.0
08/04/97	**60.9**	24.0	20.4	5.1	9.6	<0.5	16.0
05/12/97	**34.8**	18.4	14.0	<0.5	11.8	<0.5	34.0
05/12/97	**46.0**	21.0	18.6	4.2	6.3	0.5	NA
04/17/97	**43.3**	20.6	17.8	3.9	8.7	<0.5	32.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-285A							
05/14/12	0.8	<0.5	0.8	<0.5	<0.5	<0.5	NA
02/15/12	0.8	<0.5	0.8	<0.5	<0.5	<0.5	NA
2/15/12*	0.68	<0.5	0.72	<0.5	<0.5	<0.5	NA
11/14/11	0.8	<0.5	0.8	<0.5	<0.5	<0.5	NA
08/22/11	1.1	<0.5	0.8	<0.5	<0.5	<0.5	NA
05/16/11	1.3	<0.5	0.8	<0.5	<0.5	<0.5	NA
05/16/11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	NA
02/22/11	1.4	<0.5	0.9	<0.5	<0.5	<0.5	NA
02/22/11	1.4	<0.5	0.9	<0.5	<0.5	<0.5	NA
11/08/10	2.2	<0.5	0.9	<0.5	<0.5	<0.5	NA
08/24/10	2.4	<0.5	0.8	<0.5	<0.5	<0.5	NA
05/17/10	2.7	<0.5	0.9	<0.5	<0.5	<0.5	NA
02/22/10	2.7	<0.5	0.8	<0.5	<0.5	<0.5	NA
11/03/09	3.4	<0.5	0.9	<0.5	<0.5	<0.5	NA
05/18/09	3.6	<0.5	0.6	<0.5	<0.5	<0.5	NA
02/24/09	4.6	0.6	0.8	<0.5	<0.5	<0.5	NA
11/04/08	3.9	0.6	1	<0.5	<0.5	<0.5	NA
08/18/08	4.2	0.5	1	<0.5	<0.5	<0.5	NA
05/20/08	4	0.6	1	<0.5	<0.5	<0.5	NA
05/20/08	4.2	0.6	1	<0.5	<0.5	<0.5	NA
02/25/08	4.2	0.8	1.2	<0.5	<0.5	<0.5	NA
11/07/07	3.3	0.7	1.4	<0.5	<0.5	<0.5	NA
11/07/07	3.4	0.7	1.4	<0.5	<0.5	<0.5	NA
08/09/07	2.4	0.6	1.1	<0.5	<0.5	<0.5	NA
05/17/07	2.2	0.5	1.2	<0.5	<0.5	<0.5	NA
02/21/07	2.6	0.6	1.2	<0.5	<0.5	<0.5	NA
11/09/06	2.5	0.8	1.4	<0.5	<0.5	<0.5	NA
08/21/06	2.9	0.8	1.3	<0.5	<0.5	<0.5	NA
05/24/06	3.4	1.0	1.3	<0.5	<0.5	<0.5	NA
02/21/06	4.6	1.4	1.7	<0.5	<0.5	<0.5	<2
11/16/05	**5.4**	1.4	1.6	<0.5	<0.5	<0.5	NA
08/22/05	**5.3**	1.7	1.4	<0.5	<0.5	<0.5	NA
08/22/05	**5.3**	1.6	1.4	<0.5	<0.5	<0.5	NA
06/09/05	**6.9**	2.0	1.7	<0.5	<0.5	<0.5	3.6
02/22/05	**9.1**	2.9	2.1	0.6	<0.5	<0.5	NA
11/01/04	**20.2**	6.2	4.2	1.4	<0.5	<0.5	4.7
11/01/04	**19.4**	**5.9**	4.3	1.4	<0.5	<0.5	2.6
05/12/04	**18.7**	**5.9**	4.3	1.2	<0.5	<0.5	2.6
05/12/04	**19.4**	**6.1**	4.5	1.3	<0.5	<0.5	2.7
11/19/03	**16.7**	**5.0**	3.5	1.0	<0.5	<0.5	2.9
11/19/03	**17.0**	4.9	3.5	1.0	<0.5	<0.5	2.9
08/19/03	**15.5**	4.9	3.2	0.9	<0.5	<0.5	3.2
05/19/03	**17.3**	**5.6**	3.4	1.0	<0.5	<0.5	2.8
11/25/02	**16.4**	**5.8**	3.3	1.0	<0.5	<0.5	3.2
08/14/02	**12.0**	4.2	2.0	0.5	0.6	<0.5	4.5
08/14/02	**12.4**	4.4	2.2	0.6	0.7	<0.5	4.6
05/20/02	**5.6**	1.6	0.6	<0.5	<0.5	<0.5	3.6
02/12/02	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	4.3
02/12/02	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
11/14/01	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	4.5
08/14/01	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	4.8
05/08/01	2.6	<0.5	<0.5	<0.5	<0.5	<0.5	4.9
02/15/01	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	5.1
11/29/00	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	5.2
08/22/00	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	7.4
02/15/00	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	7.8
10/26/99	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
08/09/99	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	11.0
05/12/99	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	13.0
02/01/99	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	8.0
11/24/98	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
11/24/98	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
08/27/98	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<30
05/22/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	39.0
02/11/98	<1	<0.5	<0.5	<0.5	<1	<1	<30
11/20/97	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	7.0
07/28/97	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	13.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-286A							
05/15/12	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	7.8
12/01/11	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	4.2
05/17/11	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	11
11/09/10	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	3
11/05/09	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	6.0
11/05/08	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	7.8
12/06/07	0.7	<0.5	0.6	<0.5	<0.5	<0.5	NA
11/14/06	2.1	0.5	1.3	<0.5	<0.5	<0.5	4.1
05/30/06	3.8	0.9	1.4	<0.5	<0.5	<0.5	NA
11/29/05	**6.4**	1.4	2.0	<0.5	<0.5	<0.5	7.3
06/07/05	**7.2**	1.8	2.7	<0.5	0.7	<0.5	4.6
06/07/05	**6.8**	1.8	2.6	<0.5	0.7	<0.5	5.7
11/22/04	**7.4**	2.2	3.5	<0.5	1.8	<0.5	4.0
05/20/04	**8.3**	2.4	3.7	<0.5	0.6	<0.5	3.8
05/20/04	**8.3**	2.3	3.5	<0.5	0.6	<0.5	4.8
11/25/03	**9.6**	3.0	2.7	<0.5	<0.5	<0.5	4.0
05/15/03	**8.6**	2.8	1.9	<0.5	<0.5	<0.5	3.4
11/25/02	**6.7**	1.9	1.8	<0.5	<0.5	<0.5	4.4
08/14/02	**8.2**	2.3	2.2	<0.5	<0.5	<0.5	3.2
05/20/02	**10.4**	3.1	2.7	<0.5	<0.5	<0.5	2.8
02/12/02	**11.2**	3.3	3.4	0.5	<0.5	<0.5	2.3
11/14/01	**15.4**	4.9	4.8	0.8	<0.5	<0.5	3.0
08/14/01	**16.0**	**6.2**	6.5	1.0	<0.5	<0.5	3.0
08/14/01	**17.0**	**6.3**	6.7	1.1	<0.5	<0.5	3.0
05/08/01	**23.4**	**7.8**	7.0	1.4	<0.5	<0.5	4.0
05/08/01	**23.9**	**8.2**	7.2	1.5	<0.5	<0.5	4.0
02/15/01	**28.2**	**10.0**	8.8	1.8	<0.5	<0.5	4.4
11/29/00	**29.0**	**10.1**	10.2	1.8	<0.5	<0.5	4.3
08/22/00	**33.8**	**12.6**	11.6	2.1	<0.5	<0.5	4.4
02/15/00	**34.0**	**13.1**	12.0	2.1	<0.5	<0.5	5.0
10/27/99	**31.7**	**14.7**	11.1	1.6	1.0	<0.5	6.0
10/27/99	**32.8**	**14.9**	11.7	1.6	1.1	<0.5	6.0
08/09/99	**37.5**	**13.9**	10.3	1.6	3.0	<0.5	6.0
05/18/99	**34.8**	**11.3**	9.0	1.3	3.4	<0.5	7.0
02/01/99	**26.7**	**11.4**	8.1	1.1	4.0	<0.5	6.0
12/01/98	**24.5**	**11.2**	9.5	1.3	3.7	<0.5	7.0
12/01/98	**27.7**	**12**	9.7	1.3	3.8	<0.5	8.0
08/27/98	**18.0**	**8.9**	11.0	1.3	4.6	<0.5	<30
08/27/98	**18.0**	**9**	11.0	1.3	4.7	<0.5	37.0
05/22/98	**12.0**	**6.0**	5.0	<0.5	<0.5	<0.5	34.0
05/22/98	**12.0**	**6.0**	5.3	<0.5	<0.5	<0.5	43.0
02/11/98	**13.0**	**5.4**	4.8	<0.5	2.0	<1	<30
11/20/97	**16.7**	**6.4**	5.7	<0.5	2.0	<0.5	10.0
07/28/97	**17.7**	**5.7**	6.7	<0.5	2.3	<0.5	18.0

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-321A							
05/17/12	**6.7**	1.9	1.8	<0.5	<0.5	<0.5	6.3
02/16/12	**7.2**	1.9	1.7	<0.5	<0.5	<0.5	NA
11/17/11	**6.7**	1.9	1.8	<0.5	<0.5	<0.5	8.8
08/23/11	**8.5**	2.0	1.8	<0.5	<0.5	<0.5	NA
05/19/11	**9.7**	2.7	2.2	<0.5	<0.5	<0.5	6.1
02/23/11	**9**	2.3	2	<0.5	<0.5	<0.5	10
11/15/10	**10**	2.8	2.1	<0.5	<0.5	<0.5	10
08/24/10	**9.4**	2.7	1.9	<0.5	<0.5	<0.5	NA
06/02/10	**8.9**	2.6	1.7	<0.5	<0.5	<0.5	15
02/23/10	**9**	2.6	1.8	<0.5	<0.5	<0.5	NA
11/09/09	**8.6**	2.6	1.8	<0.5	<0.5	<0.5	5
05/21/09	4.5	1.4	0.8	<0.5	<0.5	<0.5	8.3
11/06/08	2.7	0.8	0.5	<0.5	<0.5	<0.5	33
05/22/08	2.6	0.8	0.6	<0.5	<0.5	<0.5	7.6
11/08/07	2.8	0.9	0.7	<0.5	<0.5	<0.5	4.8
05/22/07	3.0	1.0	0.8	<0.5	<0.5	<0.5	5.9
11/14/06	3.0	1.1	0.9	<0.5	<0.5	<0.5	2.1
05/30/06	3.4	1.2	0.9	<0.5	<0.5	<0.5	NA
11/29/05	4.4	1.5	1.0	<0.5	<0.5	<0.5	4.8
11/29/05	4.1	1.4	1.0	<0.5	<0.5	<0.5	5.5
06/07/05	3.9	1.4	1.0	<0.5	<0.5	<0.5	6.7
11/18/04	4.1	1.6	1.2	<0.5	<0.5	<0.5	5.0
11/18/04	4.0	1.4	1.1	<0.5	<0.5	<0.5	7.3
05/13/04	4.3	1.6	1.1	<0.5	<0.5	<0.5	25.0
11/24/03	**5.1**	1.8	1.1	<0.5	<0.5	<0.5	19.0
05/15/03	**5.1**	1.8	1.3	<0.5	<0.5	<0.5	4.6
05/15/03	**5.4**	1.9	1.3	<0.5	<0.5	<0.5	4.4
11/25/02	**5.3**	1.9	1.4	<0.5	<0.5	<0.5	7.3
08/15/02	**6.4**	2.2	1.6	<0.5	0.6	<0.5	5.5
05/21/02	**6.0**	2.1	1.5	<0.5	0.7	<0.5	6.7
02/12/02	**5.6**	1.8	1.4	<0.5	0.7	<0.5	6.9
11/14/01	**5.9**	2.0	1.6	<0.5	0.8	<0.5	7.7
11/14/01	**6.0**	2.1	1.6	<0.5	0.8	<0.5	7.8
09/27/01	**6.3**	1.8	1.3	<0.5	0.6	<0.5	NA
08/14/01	**5.0**	1.9	1.7	<0.5	<0.5	<0.5	14.0
07/30/01	**6.2**	2.2	1.6	<0.5	0.8	<0.5	NA
05/09/01	**5.4**	1.8	1.5	<0.5	0.8	<0.5	8.8
02/15/01	**5.2**	1.7	1.3	<0.5	1.0	<0.5	8.9
02/15/01	**5.3**	1.8	1.4	<0.5	1.1	<0.5	9.3
11/29/00	4.5	1.4	1.3	<0.5	1.0	<0.5	8.1
11/29/00	4.6	1.4	1.3	<0.5	1.0	<0.5	16.0
08/22/00	4.7	1.5	1.2	<0.5	1.2	<0.5	10.0
08/22/00	4.9	1.6	1.3	<0.5	1.2	<0.5	11.0
02/17/00	2.6	0.8	0.7	<0.5	1.0	<0.5	11.0
10/26/99	2.1	0.6	<0.5	<0.5	0.7	<0.5	12.0
08/09/99	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
08/09/99	2.2	0.5	<0.5	<0.5	0.5	<0.5	14.0
05/18/99	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	14.0
05/18/99	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	19.0
02/01/99	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	15.0
02/01/99	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	16.0
11/24/98	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	20.0
08/11/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30
05/22/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**76.0**
01/22/98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-371A							
05/14/12	1.5	<0.5	0.8	<0.5	<0.5	<0.5	NA
02/15/12	1.2	<0.5	0.7	<0.5	<0.5	<0.5	NA
11/14/11	1.4	<0.5	0.8	<0.5	<0.5	<0.5	NA
08/22/11	1.2	<0.5	0.7	<0.5	<0.5	<0.5	NA
05/16/11	1.5	<0.5	0.8	<0.5	<0.5	<0.5	NA
02/22/11	1.5	<0.5	0.9	<0.5	<0.5	<0.5	NA
11/08/10	1.8	<0.5	0.8	<0.5	<0.5	<0.5	NA
11/08/10	1.8	<0.5	0.8	<0.5	<0.5	<0.5	NA
08/24/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA
05/17/10	1.4	<0.5	0.7	<0.5	<0.5	<0.5	NA
02/22/10	1.4	<0.5	0.6	<0.5	<0.5	<0.5	NA
11/03/09	1.2	<0.5	0.6	<0.5	<0.5	<0.5	NA
11/03/09	1.2	<0.5	0.6	<0.5	<0.5	<0.5	NA
05/18/09	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	NA
02/24/09	1.7	<0.5	0.7	<0.5	<0.5	<0.5	NA
11/04/08	0.9	<0.5	0.9	<0.5	<0.5	<0.5	NA
11/04/08	0.9	<0.5	0.9	<0.5	<0.5	<0.5	NA
08/18/08	2.1	0.6	0.9	<0.5	<0.5	<0.5	NA
08/18/08	1.9	0.6	0.9	<0.5	<0.5	<0.5	NA
05/20/08	1.9	0.6	0.9	<0.5	<0.5	<0.5	NA
02/25/08	2.4	0.7	1.0	<0.5	<0.5	<0.5	NA
11/07/07	2.7	0.8	1.2	<0.5	<0.5	<0.5	NA
08/09/07	1.4	<0.5	0.6	<0.5	<0.5	<0.5	NA
05/17/07	3.4	1.1	1.3	<0.5	<0.5	<0.5	NA
02/21/07	3.3	1.0	1.2	<0.5	<0.5	<0.5	NA
02/21/07	3.2	1.0	1.2	<0.5	<0.5	<0.5	NA
11/09/06	4.2	1.4	1.7	<0.5	<0.5	<0.5	NA
08/21/06	4.1	1.3	1.4	<0.5	<0.5	<0.5	NA
05/24/06	4.7	1.5	1.6	<0.5	<0.5	<0.5	NA
02/21/06	4.4	1.4	1.5	<0.5	<0.5	<0.5	<2
02/21/06	4.4	1.5	1.6	<0.5	<0.5	<0.5	<2
11/16/05	4.8	1.6	1.6	<0.5	<0.5	<0.5	NA
08/22/05	5.8	1.8	1.6	<0.5	<0.5	<0.5	NA
05/12/05	7.4	2.4	1.8	<0.5	<0.5	<0.5	NA
02/22/05	8.3	2.8	2.1	<0.5	<0.5	<0.5	NA
02/22/05	8.2	2.7	2.1	<0.5	<0.5	<0.5	NA
11/18/04	8.8	3.0	2.3	<0.5	<0.5	<0.5	NA
08/24/04	8.6	2.8	2.1	<0.5	<0.5	<0.5	NA
05/13/04	7.4	2.6	1.9	<0.5	<0.5	<0.5	NA
02/17/04	8.0	2.7	2.0	<0.5	<0.5	<0.5	NA
02/17/04	8.0	2.5	1.9	<0.5	<0.5	<0.5	NA
11/24/03	9.4	3.3	2.1	0.5	<0.5	<0.5	<2
08/19/03	8.6	2.8	1.9	<0.5	<0.5	<0.5	12.0
05/19/03	8.0	2.8	1.9	<0.5	<3	<0.5	<2
11/25/02	7.3	2.4	NA	<0.5	<3	<0.5	NA
10/17/02	9.6	3.3	NA	<0.5	<3	<0.5	NA
08/14/02	8.1	3.0	NA	<0.5	<3	<0.5	NA
05/13/02	6.2	2.3	NA	<0.5	<3	<0.5	NA
02/11/02	9.1	3.1	NA	0.62	<3	<0.5	NA
11/15/01	9.5	3.6	NA	0.93	<3	<0.5	NA
08/23/01	13.0	4.7	NA	1.1	<3	<0.5	NA
07/13/01	15.0	6.0	NA	0.79	<3	<0.5	NA
06/12/01	16.0	7.7	NA	0.8	<1	<0.5	NA

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-443A							
05/17/12	2.6	1	<0.5	<0.5	<0.5	<0.5	3.8
11/17/11	2.8	1.1	1.3	<0.5	<0.5	<0.5	4.1
05/19/11	3.2	1.2	1.7	<0.5	<0.5	<0.5	4.6
11/15/10	3.8	1.4	1.8	<0.5	<0.5	<0.5	2.2
06/02/10	3.7	1.6	1.8	<0.5	<0.5	<0.5	4.0
11/09/09	4.4	2.0	2.5	<0.5	<0.5	<0.5	6.8
05/21/09	4.0	1.7	1.9	<0.5	<0.5	<0.5	7.6
11/06/08	4.1	1.9	1.8	<0.5	<0.5	<0.5	3.0
05/22/08	**5.0**	2.1	2.0	<0.5	<0.5	<0.5	<2
12/06/07	4.4	2.4	2.4	<0.5	<0.5	<0.5	NA
12/06/07	**5.3**	2.0	2.2	<0.5	<0.5	<0.5	NA
05/22/07	5.8	2.5	2.4	<0.5	<0.5	<0.5	4.3
11/14/06	**6.0**	3.0	3.0	<0.5	<0.5	<0.5	<2
05/30/06	**5.0**	2.4	2.2	<0.5	<0.5	<0.5	NA
11/29/05	4.7	2.3	2.2	<0.5	<0.5	<0.5	4.1
06/09/05	3.4	1.9	1.6	<0.5	<0.5	<0.5	3.4
06/09/05	5.1	2.7	2.2	<0.5	<0.5	<0.5	5.4
11/18/04	4.1	2.4	2.0	<0.5	<0.5	<0.5	3.3
05/13/04	4.9	2.8	2.7	<0.5	<0.5	<0.5	4.4
05/13/04	4.6	2.5	2.4	<0.5	<0.5	<0.5	8.1
11/24/03	4.8	2.6	2.5	<0.5	<0.5	<0.5	4.4
11/24/03	5.2	2.8	2.6	<0.5	<0.5	<0.5	4.3
05/15/03	**6.4**	3.6	2.8	<0.5	<0.5	<0.5	3.6
11/25/02	**6.7**	4.1	2.7	<0.5	<0.5	<0.5	2.6
08/14/02	**7.0**	4.2	2.4	<0.5	<0.5	<0.5	2.6
06/13/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2

Table 3
Summary of Selected Groundwater Analytical Results
Harrison Road Landfill

Sample Date	PCE	TCE	1-1 DCA	cDCE	Methylene Chloride	Vinyl Chloride	Lead
WR-444A							
05/14/12	2.1	0.7	1.1	<0.5	<0.5	<0.5	NA
02/15/12	1.9	0.6	1	<0.5	<0.5	<0.5	NA
11/14/11	2.3	0.7	1.1	<0.5	<0.5	<0.5	NA
11/14/11*	1.96	0.68	1.22	<0.5	<0.5	<0.5	NA
08/22/11	2.3	0.7	1.1	<0.5	<0.5	<0.5	NA
8/22/11*	2.07	0.82	1.26	<0.5	<0.5	<0.5	NA
05/16/11	2	0.6	0.9	<0.5	<0.5	<0.5	NA
02/22/11	2.5	0.8	1.2	<0.5	<0.5	<0.5	NA
11/08/10	2.7	0.8	1.3	<0.5	<0.5	<0.5	NA
08/24/10	2.6	0.9	1.2	<0.5	<0.5	<0.5	NA
06/02/10	2.6	0.9	1.2	<0.5	<0.5	<0.5	NA
02/22/10	2.7	1.0	1.1	<0.5	<0.5	<0.5	NA
02/22/10	2.8	0.9	1.2	<0.5	<0.5	<0.5	NA
11/03/09	3.0	1.0	1.2	<0.5	<0.5	<0.5	NA
05/18/09	2.7	0.9	1.0	<0.5	<0.5	<0.5	NA
02/24/09	3.4	1.1	1.2	<0.5	<0.5	<0.5	NA
02/24/09	3.3	1.1	1.2	<0.5	<0.5	<0.5	NA
11/04/08	3.2	1.2	1.4	<0.5	<0.5	<0.5	NA
08/18/08	3.7	1.4	1.4	<0.5	<0.5	<0.5	NA
05/20/08	3.4	1.3	1.4	<0.5	<0.5	<0.5	NA
02/25/08	3.8	1.3	1.4	<0.5	<0.5	<0.5	NA
11/07/07	3.9	1.5	1.6	<0.5	<0.5	<0.5	NA
08/09/07	4.1	1.5	1.4	<0.5	<0.5	<0.5	NA
08/09/07	3.5	1.4	1.4	<0.5	<0.5	<0.5	NA
05/17/07	3.8	1.4	1.5	<0.5	<0.5	<0.5	NA
02/21/07	3.6	1.4	1.6	<0.5	<0.5	<0.5	NA
11/09/06	3.7	1.6	1.6	<0.5	<0.5	<0.5	NA
11/09/06	3.6	1.5	1.6	<0.5	<0.5	<0.5	NA
08/21/06	3.1	1.4	1.4	<0.5	<0.5	<0.5	NA
08/21/06	3.3	1.4	1.4	<0.5	<0.5	<0.5	NA
05/24/06	1.9	1.0	1.1	<0.5	<0.5	<0.5	NA
02/21/06	3.1	1.3	1.3	<0.5	<0.5	<0.5	<2
11/16/05	3.2	1.3	1.4	<0.5	<0.5	<0.5	NA
08/22/05	2.9	1.2	1.1	<0.5	<0.5	<0.5	NA
05/11/05	2.8	1.1	1.0	<0.5	<0.5	<0.5	<2
02/22/05	3.1	1.3	1.2	<0.5	<0.5	<0.5	NA
11/17/04	3.1	1.3	1.4	<0.5	<0.5	<0.5	<2
08/24/04	3.1	1.2	1.2	<0.5	<0.5	<0.5	NA
08/24/04	3.0	1.2	1.2	<0.5	<0.5	<0.5	NA
05/12/04	3.1	1.3	1.4	<0.5	<0.5	<0.5	<2
02/17/04	3.6	1.5	1.3	<0.5	<0.5	<0.5	NA
11/24/03	4.0	1.7	1.3	<0.5	<0.5	<0.5	<2
08/19/03	3.5	1.6	1.1	<0.5	<0.5	<0.5	<2
08/19/03	3.6	1.6	1.1	<0.5	<0.5	<0.5	<2
05/19/03	3.3	1.6	1.0	<0.5	<0.5	<0.5	<2
05/19/03	3.3	1.4	1.0	<0.5	<0.5	<0.5	<2
11/25/02	1.7	0.9	<0.5	<0.5	<0.5	<0.5	<2
08/13/02	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<2
06/13/02	4.6	2.9	1.7	<0.5	<0.5	<0.5	7.2

Notes:

All results are reported in micrograms per liter (ug/L)

<0.5 = Not Detected above limit shown.

* - Duplicate sample analyzed by Xenco Laboratories.

Bold Numbers exceed the associated Aquifer Water Quality Standard

cDCE = cis 1,2-Dichloroethene

PCE = Tetrachloroethene

TCE = Trichloroethene

1-1 DCA = 1-1 Dichloroethane

TABLE 4
Relative Percent Differences
Duplicate Samples
Harrison Road Landfill

R-119A

Parameter and Units Sample Date	PCE ug/L	DCFA ug/L	Barium mg/L	Calcium mg/L	Total Iron mg/L	Lead mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	Zinc mg/L	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	Nitrate mg/L	TDS mg/L
05/16/12	<0.5	2.8	0.088	40.0	0.036	<0.001	5.5	1.3	17.0	0.026	124	8.4	0.25	8.3	2.5	211
5/16/12*	<0.5	<2	0.0795	37.5	<0.2	<0.002	5.11	1.11	15.2	<0.03	131	9.09	0.205	8.6	2.21	176
Relative Percent Difference	NA	33%(1)	10%	6%	NA	NA	7%	16%	11%	NA	5%	8%	20%	4%	12%	18%

WR-121A

Parameter and Units Sample Date	PCE ug/L	DCFA ug/L	Barium mg/L	Calcium mg/L	Total Iron mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Potassium mg/L	Sodium mg/L	Zinc mg/L	Alkalinity Total mg/L	Chloride mg/L	Fluoride mg/L	Sulfate mg/L	Nitrate mg/L	TDS mg/L
05/14/12	<0.5	1.2	0.066	35.0	0.8	0.0056	4.4	0.02	1.3	17.0	0.140	121	4.9	0.27	6.8	1.5	180
5/14/2012*	<0.5	<2	0.0654	34.8	1.17	0.00664	4.23	0.0338	1.14	16.7	0.127	129	4.5	<0.2	6.42	1.4	158
Relative Percent Difference	NA	NA	1%	1%	33%	17%	4%	34%	13%	2%	10%	6%	9%	30%(1)	6%	7%	13%

WR-285A

Parameter and Units Sample Date	PCE ug/L	TCE ug/L	DCFA ug/L	TCFA ug/L	1,1-DCA ug/L
02/15/12	0.8	<0.5	11.7	0.6	0.8
2/15/12*	0.68	<0.5	11.7	<2	0.72
Relative Percent Difference	16%	NA	0%	NA	11%

Only detected compounds are shown
<2 - Not Detected above the limit shown.
* Duplicate Sample analyzed by Xenco Laboratories
NA - Not applicable, one result was a not detect.
(1) Using the detection limit as the second value for the RPD calculation. This is performed when the detection limit is lower than the value detected by the other lab.
DCFA = Dichlorodifluoromethane
TCFA = Trichlorofluoromethane
PCE = Tetrachloroethene
1,1-DCA = 1,1-Dichloroethane

Table 5
Ground Water Extraction and Injection Data
Harrison Road Landfill

Well ID	Starting Date	Ending Date	No. Days Well Off	Initial Flow Meter reading (gallons)	Final Flow Meter Reading (gallons)	Gallons Treated	Average Flow Rate (gpm)	Comments
					January 2012			
SYSTEM INLET	12/30/2011	1/30/2012	0	176521700	178302500	1780800	39.9	
WR-371A	12/30/2011	1/30/2012	0	116631300	117363400	732100	16.4	
WR-285A	12/30/2011	1/30/2012	0	35853900	35999000	145100	3.3	
WR-444A	12/30/2011	1/30/2012	0	N/A	NA	903600	20.2	
WR-119A	12/30/2011	1/30/2012	0	20467750	21421350	953600	21.4	
WR-245A	12/30/2011	1/30/2012	0	7577470	7784470	207000	4.6	
WR-120A	12/30/2011	1/30/2012	30	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	12/30/2011	1/30/2012	30	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	12/30/2011	1/30/2012	30	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	12/30/2011	1/30/2012	0	26997120	27645100	647980	14.5	
					February 2012			
SYSTEM INLET	1/30/2012	3/1/2012	0	178302500	180045000	1742500	39.0	
WR-371A	1/30/2012	3/1/2012	1	117363400	118086000	722600	16.5	
WR-285A	1/30/2012	3/1/2012	1	35999000	36137100	138100	3.2	
WR-444A	1/30/2012	3/1/2012	0	NA	NA	881800	19.8	
WR-119A	1/30/2012	3/1/2012	0	21421350	22256570	835220	18.7	
WR-245A	1/30/2012	3/1/2012	0	7784470	8017970	233500	5.2	
WR-120A	1/30/2012	3/1/2012	30	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	1/30/2012	3/1/2012	30	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	1/30/2012	3/1/2012	30	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	1/30/2012	3/1/2012	0	27645100	28343360	698260	15.6	
					March 2012			
SYSTEM INLET	3/1/2012	4/2/2012	0	180045000	181854700	1809700	39.3	
WR-371A	3/1/2012	4/2/2012	0	118086000	118827300	741300	16.1	
WR-285A	3/1/2012	4/2/2012	0	36137100	36286200	149100	3.2	
WR-444A	3/1/2012	4/2/2012	0	NA	NA	919300	20.0	
WR-119A	3/1/2012	4/2/2012	0	22256570	23149500	892930	19.4	
WR-245A	3/1/2012	4/2/2012	0	8017970	8248200	230230	5.0	
WR-120A	3/1/2012	4/2/2012	33	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	3/1/2012	4/2/2012	33	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	3/1/2012	4/2/2012	33	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	3/1/2012	4/2/2012	0	28343360	29048180	704820	15.3	

Table 5
Ground Water Extraction and Injection Data
Harrison Road Landfill

Well ID	Starting Date	Ending Date	No. Days Well Off	Initial Flow Meter reading (gallons)	Final Flow Meter Reading (gallons)	Gallons Treated	Average Flow Rate (gpm)	Comments
						April 2012		
SYSTEM INLET	4/2/2012	4/30/2012	0	181854700	183387400	1532700	38.0	
WR-371A	4/2/2012	4/30/2012	0	118827300	119452300	625000	15.5	
WR-285A	4/2/2012	4/30/2012	0	36286200	36411200	125000	3.1	
WR-444A	4/2/2012	4/30/2012	0	NA	NA	782700	19.4	
WR-119A	4/2/2012	4/30/2012	0	23149500	23851590	702090	17.4	
WR-245A	4/2/2012	4/30/2012	0	8248200	8451040	202840	5.0	
WR-120A	4/2/2012	4/30/2012	28	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	4/2/2012	4/30/2012	28	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	4/2/2012	4/30/2012	28	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	4/2/2012	4/30/2012	0	29048180	29433500	627770	15.6	Meter face malfunction, added 242,450 gallons as breakdown estimate
						May 2012		
SYSTEM INLET	4/30/2012	5/31/2012	0	183387400	184954600	1567200	35.1	
WR-371A	4/30/2012	5/31/2012	0	119452300	120039400	587100	13.2	
WR-285A	4/30/2012	5/31/2012	0	36411200	36546600	135400	3.0	
WR-444A	4/30/2012	5/31/2012	0	NA	NA	844700	18.9	
WR-119A	4/30/2012	5/31/2012	0	23851590	24544830	693240	15.5	
WR-245A	4/30/2012	5/31/2012	0	8451040	8619540	168500	3.8	
WR-120A	4/30/2012	5/31/2012	31	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	4/30/2012	5/31/2012	31	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	4/30/2012	5/31/2012	31	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	4/30/2012	5/31/2012	0	29433500	30136300	702800	15.7	Meter face malfunction, added 425,000 gallons as breakdown estimate
						June 2012		
SYSTEM INLET	5/31/2012	6/29/2012	0	184954600	186461400	1506800	36.1	
WR-371A	5/31/2012	6/29/2012	0	120039400	120615800	576400	13.8	
WR-285A	5/31/2012	6/29/2012	0	36546600	36668700	122100	2.9	
WR-444A	5/31/2012	6/29/2012	0	NA	NA	808300	19.4	
WR-119A	5/31/2012	6/29/2012	0	24544830	25355760	810930	19.4	
WR-245A	5/31/2012	6/29/2012	0	8619540	8854020	234480	5.6	
WR-120A	5/31/2012	6/29/2012	29	58476900	58476900	0	0.0	Injection Well Shut off for Rebound Testing
R-097A	5/31/2012	6/29/2012	29	1912440	1912440	0	0.0	Injection Well Shut off for Rebound Testing
R-095A	5/31/2012	6/29/2012	29	24360220	24360220	0	0.0	Injection Well Shut off for Rebound Testing
WR-276A	5/31/2012	6/29/2012	0	10	392950	460940	11.0	Meter face replaced 6/4, added 68,000 gallons as breakdown estimate

Table 6
Summary of Well Extraction and Injection Volumes
Harrison Road Landfill

First Half 2012							
COT ID	ADWR ID	January	February	March	April	May	June
Extraction Wells							
WR-371A	55-584020	732100	722600	741300	625000	587100	576400
WR-285A	55-563006	145100	138100	149100	125000	135400	122100
WR-444A	55-591332	903600	881800	919300	782700	844700	808300
Total Gallons Extracted		1780800	1742500	1809700	1532700	1567200	1506800
Acre-Feet Extracted		5.47	5.35	5.55	4.70	4.81	4.62
Injection Wells							
R-095A	55-583809	0	0	0	0	0	0
R-097A	55-587885	0	0	0	0	0	0
WR-120A	55-518659	0	0	0	0	0	0
WR-119A	55-518658	953600	835220	892930	702090	693240	810930
WR-245A	55-551804	207000	233500	230230	202840	168500	234480
WR-276A	55-561733	647980	698260	704820	627770	702800	460940
Total Gallons Injected		1808580	1766980	1827980	1532700	1564540	1506350
Acre-Feet Injected		5.55	5.42	5.61	4.70	4.80	4.62

Semiannual Total Extracted (Gal)	9,939,700
Semiannual Total Extracted (AF)	30.50

Totals from WR-371A and WR-285A are reported to the Arizona State Land Department monthly
The meter face at WR-276A malfunctioned and was repaired in April and May. The face was replaced in June.

Table 7
Mass Removed
Extraction Well WR-285A
Harrison Road Landfill

	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A	WR-285A
Period	12/02/08	2/29/09	05/29/09	09/01/09	11/30/09	03/01/10	06/01/10	08/31/10	12/1/2010	3/2/2011	5/31/2011	9/1/2011	12/1/2011	3/1/2012
	to 2/29/09	to 5/29/09	to 9/1/09	to 11/30/09	3/1/2010	to 6/1/10	to 8/31/10	to 12/1/10	to 3/2/2011	to 5/31/2011	to 9/1/2011	to 12/1/2011	to 3/1/2012	to 5/31/12
Sample Date	2/24/09	5/18/09	8/11/09	11/3/09	2/22/10	5/17/10	8/24/10	11/8/10	2/22/11	5/16/11	8/22/11	11/14/11	2/15/12	5/14/12
Analytical Result (ug/L)														
1,1-Dichloroethane (1-1,DCA)	0.8	0.6	0.8	0.9	0.8	0.9	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8
1,1-Dichloroethene (1-1,DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene (c-DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	15.9	15.6	14.5	15	15.6	14.8	18.4	15.8	11.7	12.2	16.8	11.2	11.7	11
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	4.6	3.6	3.8	3.4	2.7	2.7	2.4	2.2	1.4	1.3	1.1	0.8	0.8	0.8
Trichloroethylene (TCE)	0.6	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	1.1	0.8	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.6	0.8	<0.5	0.6	0.6
Total VOCs (ug/L)	23	20.6	20.6	20.3	20.1	19.4	22.5	19.7	14.6	14.9	19.5	12.8	13.9	13.2
Total Non-Freons (ug/L)	6	4.2	5.1	4.3	3.5	3.6	3.2	3.1	2.3	2.1	1.9	1.6	1.6	1.6
Total Freons (ug/L)	17	16.4	15.5	16	16.6	15.8	19.3	16.6	12.3	12.8	17.6	11.2	12.3	11.6
Flow Conditions														
Volume Extracted *(gallons)*:	1336400	1202800	1081800	811200	1226800	1126900	977200	885800	342600	518000	452400	382400	420300	409500
Mass Removed During Period														
TOTAL VOCS (pounds):	0.26	0.21	0.19	0.14	0.21	0.18	0.18	0.15	0.04	0.06	0.07	0.04	0.05	0.05
TOTAL NON-FREONS (pounds):	0.07	0.04	0.05	0.03	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
TOTAL FREONS (pounds):	0.19	0.16	0.14	0.11	0.17	0.15	0.16	0.12	0.04	0.06	0.07	0.04	0.04	0.04
1,1-DCA (pounds):	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,2 DCE (pounds):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCE (pounds):	0.05	0.04	0.03	0.02	0.03	0.03	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.00
TCE (pounds):	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Mass Removed														
TOTAL VOCS (pounds):	5.89	6.09	6.28	6.41	6.62	6.80	6.98	7.13	7.17	7.24	7.31	7.35	7.40	7.44
TOTAL NON-FREONS (pounds):	1.47	1.51	1.56	1.59	1.62	1.66	1.68	1.71	1.71	1.72	1.73	1.73	1.74	1.75
TOTAL FREONS (pounds):	4.41	4.58	4.72	4.83	5.00	5.14	5.30	5.42	5.46	5.51	5.58	5.62	5.66	5.70
1,1-DCA (pounds):	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.35	0.36	0.36
cis-1,2 DCE (pounds):	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PCE (pounds):	0.94	0.98	1.01	1.03	1.06	1.09	1.11	1.12	1.13	1.13	1.14	1.14	1.14	1.14
TCE (pounds):	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

WR-285A went on-line in January 2005

Data prior to 2009 has been previously submitted and is not included here

Bold numbers exceed the aquifer water quality standard
ug/L = micrograms per liter
<0.5 = Not detected

Table 7
Mass Removed
Extraction Well WR-371A
Harrison Road Landfill

	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A	WR-371A
Period	12/02/08	02/28/09	05/29/09	09/01/09	11/30/09	03/01/10	06/01/10	08/31/10	12/01/10	03/02/11	05/31/11	09/01/11	12/01/11	03/01/12
	to 2/28/09	to 5/29/09	to 9/1/09	to 11/30/09	to 3/1/10	to 6/1/10	to 8/31/10	to 12/1/10	to 3/2/2011	to 5/31/2011	to 9/01/11	to 12/01/11	to 3/1/12	to 5/31/12
Sample Date	02/23/09	05/18/09	8/11/2009	11/3/2009	2/22/2010	5/17/2010	8/24/2010	11/8/2010	2/22/2011	5/16/2011	8/22/2011	11/14/2011	2/15/2012	5/14/2012
Analytical Result (ug/L)														
1,1-Dichloroethane (1-1,DCA)	0.7	<0.5	0.7	0.6	0.6	0.7	<0.5	0.8	0.9	0.8	0.7	0.8	0.7	0.8
1,1-Dichloroethene (1-1,DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene (c-DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	7	4.7	5.8	6.4	6.4	6.3	2.3	11.2	11	10.9	16.2	11.4	10.5	14.4
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1.7	1.1	1.7	1.2	1.4	1.4	<0.5	1.8	1.5	1.5	1.5	1.4	1.2	1.5
Trichloroethylene (TCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5	<0.5	0.8	<0.5	0.6	0.8
Total VOCs (ug/L)	9.4	5.8	8.2	8.2	8.4	8.4	2.3	14.3	13.9	13.2	19.2	13.6	13	17.5
Total Non-Freons (ug/L)	2.4	1.1	2.4	1.8	2	2.1	0	2.6	2.4	2.3	2.2	2.2	1.9	2.3
Total Freons (ug/L)	7	4.7	5.8	6.4	6.4	6.3	2.3	11.7	11.5	10.9	17	11.4	11.1	15.2
Flow Conditions														
Volume Extracted *(gallons)*:	2802300	2733300	2526600	1747400	2756600	2600800	2491300	2348600	1757980	2201900	2090500	2001000	2147500	1953400
Mass Removed During Period														
TOTAL VOCS (pounds):	0.22	0.13	0.17	0.12	0.19	0.18	0.05	0.28	0.20	0.24	0.33	0.23	0.23	0.28
TOTAL NON-FREONS (pounds):	0.06	0.03	0.05	0.03	0.05	0.05	0.00	0.05	0.04	0.04	0.04	0.04	0.03	0.04
TOTAL FREONS (pounds):	0.16	0.11	0.12	0.09	0.15	0.14	0.05	0.23	0.17	0.20	0.30	0.19	0.20	0.25
1,1-DCA (pounds):	0.02	0.00	0.01	0.01	0.01	0.02	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01
cis-1,2 DCE (pounds):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCE (pounds):	0.04	0.03	0.04	0.02	0.03	0.03	0.00	0.04	0.02	0.03	0.03	0.02	0.02	0.02
TCE (pounds):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cumulative Mass Removed														
TOTAL VOCS (pounds):	38.49	38.62	38.80	38.92	39.11	39.29	39.34	39.62	39.82	40.06	40.40	40.62	40.86	41.14
TOTAL NON-FREONS (pounds):	10.47	10.50	10.55	10.57	10.62	10.66	10.66	10.72	10.75	10.79	10.83	10.87	10.90	10.94
TOTAL FREONS (pounds):	28.02	28.13	28.25	28.34	28.49	28.63	28.67	28.90	29.07	29.27	29.57	29.76	29.96	30.20
1,1-DCA (pounds):	1.76	1.76	1.77	1.78	1.80	1.81	1.81	1.83	1.84	1.85	1.87	1.88	1.89	1.91
cis-1,2 DCE (pounds):	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
PCE (pounds):	6.35	6.38	6.41	6.43	6.46	6.49	6.49	6.53	6.55	6.58	6.60	6.63	6.65	6.67
TCE (pounds):	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18	2.18

WR-371A went on-line in June 2001
Data prior to 2009 has been previously submitted and is not included here
Bold numbers exceed the aquifer water quality standard
ug/L = micrograms per liter
<0.5 = Not detected

Table 7
Mass Removed
Extraction Well WR-444A
Harrison Road Landfill

	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A	WR-444A
Period	12/02/08	02/28/09	05/29/09	09/01/09	11/30/10	03/01/10	06/01/10	08/31/10	12/1/2010	3/2/11	5/31/11	9/1/11	12/1/11	3/1/12
	to 2/28/2009	to 5/59/09	to 9/1/09	to 11/30/09	to 3/1/2010	to 6/1/10	to 8/31/10	to 12/1/10	to 3/2/11	to 5/31/11	to 9/1/11	to 12/1/11	to 3/1/12	5/31/2012
Sample Date	2/24/2009	5/18/2009	8/11/2009	11/3/2009	2/22/2010	6/2/2010	8/24/2010	11/8/2010	2/22/2011	5/16/2011	8/22/2011	11/14/2011	2/15/2012	5/14/2012
Analytical Result (ug/L)														
1,1-Dichloroethane (1-1,DCA)	1.2	1	1.2	1.2	1.2	1.2	1.2	1.3	1.2	0.9	1.1	1.1	1	1.1
1,1-Dichloroethene (1-1,DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene (c-DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	20.8	17.4	15.1	19.6	20.6	19.6	20.8	17.3	15.1	14.1	21.9	14.6	13.8	15.9
Tetrachloroethylene (PCE)	3.3	2.7	2.8	3	2.8	2.6	2.6	2.7	2.5	2	2.3	2.3	1.9	2.1
Trichloroethylene (TCE)	1.1	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.6	0.7	0.7	0.6	0.7
Trichlorofluoromethane (Freon 11)	0.8	0.6	0.7	0.8	0.9	0.8	0.8	0.8	0.7	0.7	1.1	0.6	0.8	0.6
Total VOCs (ug/L)	27.2	22.6	20.8	25.6	26.5	25.1	26.3	23	20.3	18.3	27.1	19.3	18.1	20.4
Total Non-Freons (ug/L)	5.6	4.6	5.0	5.2	5.0	4.7	4.7	4.9	4.5	3.5	4.1	4.1	3.5	3.9
Total Freons (ug/L)	21.6	18	15.8	20.4	21.5	20.4	21.6	18.1	15.8	14.8	23	15.2	14.6	16.5
Flow Conditions														
Volume Extracted *(gallons)*:	4022000	3976900	3724800	2877500	3925800	3640200	3184300	3370000	2825420	3318200	3025900	2754700	2645700	2546700
Mass Removed During Period														
TOTAL VOCS (pounds):	0.91	0.75	0.65	0.61	0.87	0.76	0.70	0.65	0.48	0.51	0.68	0.44	0.40	0.43
TOTAL NON-FREONS (pounds):	0.19	0.15	0.16	0.12	0.16	0.14	0.12	0.14	0.11	0.10	0.10	0.09	0.08	0.08
TOTAL FREONS (pounds):	0.72	0.60	0.49	0.49	0.70	0.62	0.57	0.51	0.37	0.41	0.58	0.35	0.32	0.35
1,1-DCA (pounds):	0.04	0.03	0.04	0.03	0.04	0.04	0.03	0.04	0.03	0.02	0.03	0.03	0.02	0.02
PCE (pounds):	0.11	0.09	0.09	0.07	0.09	0.08	0.07	0.08	0.06	0.06	0.06	0.05	0.04	0.04
TCE (pounds):	0.04	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.01
Cumulative Mass Removed														
TOTAL VOCS (pounds):	28.80	29.55	30.19	30.80	31.67	32.43	33.13	33.77	34.25	34.76	35.44	35.88	36.28	36.72
TOTAL NON-FREONS (pounds):	5.97	6.12	6.27	6.40	6.56	6.70	6.83	6.97	7.07	7.17	7.27	7.37	7.44	7.52
TOTAL FREONS (pounds):	22.83	23.43	23.92	24.41	25.11	25.73	26.30	26.81	27.18	27.59	28.17	28.52	28.84	29.19
1,1-DCA (pounds):	1.22	1.26	1.29	1.32	1.36	1.40	1.43	1.47	1.49	1.52	1.55	1.57	1.59	1.62
PCE (pounds):	3.35	3.44	3.53	3.60	3.69	3.77	3.84	3.91	3.97	4.03	4.09	4.14	4.18	4.22
TCE (pounds):	1.39	1.42	1.45	1.48	1.51	1.54	1.56	1.59	1.61	1.62	1.64	1.66	1.67	1.68

WR-444A went on-line in March 2002
Data prior to 2008 has been
previously submitted and is not
included here
Bold numbers exceed the aquifer
water quality standard
ug/L = micrograms per liter
<0.5 = Not detected

Table 8
Cumulative Mass Removed
Harrison Road Landfill

Extraction Well ID	WR-371A WR-444A	WR-371A	WR-371A	WR-371A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A
Sample Date	7/13/01	8/23/01	11/15/01	2/11/02	6/13/02	8/13/02	10/17/02	11/25/02	2/17/03	5/19/03	8/19/03	11/24/03	2/17/04
Cumulative Mass Removed													
TOTAL VOCS (pounds):	3.17	5.53	8.53	12.36	15.43	18.13	20.03	21.44	24.09	26.87	28.74	31.89	34.18
TOTAL NON-FREONS (pounds):	0.86	1.40	2.40	3.23	3.84	4.45	4.92	5.26	5.93	6.77	7.22	8.10	8.82
TOTAL FREONS (pounds):	2.31	4.13	6.13	9.12	11.59	13.69	15.10	16.18	18.16	20.10	21.51	23.78	25.37
1,1-Dichloroethane (1-1,DCA) (pounds):	0.14	0.23	0.40	0.51	0.62	0.71	0.78	0.82	0.88	1.01	1.08	1.23	1.35
is-1,2-Dichloroethene (c-DCE) (pounds):	0.03	0.05	0.11	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.16	0.16
Tetrachloroethylene (PCE) (pounds):	0.49	0.81	1.37	1.88	2.23	2.62	2.92	3.13	3.57	4.07	4.33	4.86	5.29
Trichloroethylene (TCE) (pounds):	0.20	0.31	0.53	0.70	0.83	0.97	1.08	1.16	1.34	1.53	1.64	1.84	2.00

Extraction Well ID	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A
Sample Date	5/13/04	8/24/04	11/17/04	2/22/05	5/11/05	8/22/05	11/16/05	2/21/06	5/24/06	8/21/06	11/9/06	2/21/07	5/17/07
Cumulative Mass Removed													
TOTAL VOCS (pounds):	36.87	39.18	41.09	42.55	44.72	46.81	49.61	52.1	53.6	55.5	57.9	59.4	61.0
TOTAL NON-FREONS (pounds):	9.53	10.24	10.68	11.14	11.79	12.32	12.83	13.4	13.8	14.3	14.8	15.1	15.4
TOTAL FREONS (pounds):	27.34	28.95	30.42	31.42	32.93	34.49	36.77	38.7	39.8	41.3	43.1	44.3	45.6
1,1-DCA (pounds):	1.48	1.61	1.71	1.79	1.90	2.00	2.11	2.2	2.3	2.4	2.6	2.6	2.7
cis-1,2 DCE (pounds):	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.2	0.2	0.2	0.2	0.2	0.2
PCE (pounds):	5.71	6.14	6.39	6.66	7.07	7.40	7.70	8.0	8.3	8.5	8.8	9.0	9.1
TCE (pounds):	2.16	2.31	2.40	2.50	2.63	2.74	2.85	3.0	3.1	3.1	3.2	3.3	3.4

Extraction Well ID	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A
Sample Date	8/9/07	11/7/07	2/25/08	5/20/08	8/18/08	11/4/08	2/24/09	5/18/09	8/11/09	11/3/09	2/22/10	5/17/10	8/24/10	11/8/10
Cumulative Mass Removed														
TOTAL VOCS (pounds):	62.5	64.8	66.9	68.9	70.6	71.8	73.2	74.3	75.3	76.1	77.4	78.5	79.5	80.5
TOTAL NON-FREONS (pounds):	15.7	16.2	16.6	16.9	17.3	17.6	17.9	18.1	18.4	18.6	18.8	19.0	19.2	19.4
TOTAL FREONS (pounds):	46.7	48.6	50.3	52.0	53.2	54.2	55.3	56.1	56.9	57.6	58.6	59.5	60.3	61.1
1,1-DCA (pounds):	2.8	2.9	3.0	3.1	3.1	3.2	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.6
cis-1,2 DCE (pounds):	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PCE (pounds):	9.3	9.6	9.8	10.1	10.3	10.4	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.6
TCE (pounds):	3.4	3.5	3.6	3.7	3.7	3.8	3.8	3.8	3.9	3.9	3.9	4.0	4.0	4.0

Extraction Well ID	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A	WR-371A WR-444A WR-285A
Sample Date	2/22/11	5/16/11	8/22/11	11/14/11	2/15/12	5/14/12
Cumulative Mass Removed						
TOTAL VOCS (pounds):	81.2	82.1	83.2	83.9	84.5	85.3
TOTAL NON-FREONS (pounds):	19.5	19.7	19.8	20.0	20.1	20.2
TOTAL FREONS (pounds):	61.7	62.4	63.2	63.9	64.5	65.1
1,1-DCA (pounds):	3.7	3.7	3.8	3.8	3.8	3.9
cis-1,2 DCE (pounds):	0.2	0.2	0.2	0.2	0.2	0.2
PCE (pounds):	11.6	11.7	11.8	11.9	12.0	12.0
TCE (pounds):	4.0	4.0	4.1	4.1	4.1	4.1

Table 9
Carbon Effluent VOC Concentrations
Harrison Road Landfill

Sample ID	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1	CARBON #1
Date	2/25/08	5/20/08	8/18/08	11/4/08	2/24/09	5/18/09	8/11/09	11/3/09	2/22/10	5/17/10	8/24/10	11/8/10	2/22/11	5/16/11	8/22/11	11/14/11	2/15/12	5/14/12
Analytical Result (ug/L)																		
1,1-Dichloroethane (1-1,DCA)	1.4	1.3	1.2	<0.5	1.0	0.9	1.0	<0.5	0.6	1.3	1.1	1	<0.5	<0.5	0.7	1	0.8	1
1,1-Dichloroethene (1-1,DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene (c-DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	17.4	17.4	15.6	8.2	7.9	10.4	9.2	1.6	12.0	15.3	12.2	11.2	<0.5	9.0	16.4	11.7	8.8	12.3
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	1.2	1.2	0.8	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	0.5	0.6
Vinyl chloride (VC)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Sample ID	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2	Carbon #2
Date	2/25/08	5/20/08	8/18/08	11/4/08	2/24/09	5/19/09	8/11/09	11/3/09	2/22/10	5/17/10	8/24/10	11/8/10	2/22/11	5/16/11	8/22/11	11/14/11	2/15/12	5/14/12
Analytical Result (ug/L)																		
1,1-Dichloroethane (1-1,DCA)	<0.5	<0.5	0.7	<0.5	<0.5	0.5	0.7	<0.5	<0.5	<0.5	0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene (1-1,DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene (c-DCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	20.8	18.9	20.6	0.6	14.6	13.6	10.1	<0.5	10.5	13.3	11.8	11.7	<0.5	<0.5	4.2	8.6	9.8	16.8
Methylene chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride (VC)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

All results are reported in micrograms per liter (ug/L).

Data prior to 2008 has been reported previously and is not shown.

Carbon vessels are plumbed in series with Carbon#1 as the lead vessel.

APPENDIX A
Laboratory Analytical Reports and Field Sampling Data Sheets

In NDWR files).

DIL
9/20/12