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RACER Trust

Closed Hazardous Waste Surface Impoundment, RACER Trust– INR000021436

February 28, 2012

ARCADIS

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Annual Report

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ARCADIS

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Appendices

1. Introduction

ARCADIS respectfully submits this annual report for the year 2011 regarding the post-closure care activities conducted at the Closed Hazardous Waste Surface Impoundment Area (SIA) at 2701 West Raymond Avenue, Indianapolis, Indiana.

On or about December 1, 1993, the then General Motors Corporation (GMC) sold Plant 5 (i.e., the Rolls-Royce Plant), including the surface impoundment, to AEC Acquisitions Corporation. Pursuant to terms of the sales agreement, GMC was to maintain responsibility for post-closure care of the surface impoundment.

AEC Acquisitions Corporation has since sold Plant 5 (including the former surface impoundment) to Rolls-Royce Corporation. To more effectively fulfill its obligation for post-closure care of the closed surface impoundment, GMC purchased the property encompassing the former surface impoundment area from Rolls-Royce. As a result of the General Motors Corporation (GMC) Chapter 11 bankruptcy filing in 2009, the Trust and Settlement Agreements of 2010, and approval by the Bankruptcy Court in March of 2011, on March 31, 2011 the former AGT Surface Impoundment property, and remedial funding were transferred to RACER Trust. RACER Trust is the current land owner of the Site and now has responsibility for performing the activities identified in the Post Closure Permit for the former AGT Surface Impoundment.

The Site is limited to the approximately ten acre parcel as illustrated and described in Drawing 1. The Site address is 2701 West Raymond Street, and the ID number is INR000021436.

IDEM approved the Closure Certification for the SIA (officially granting closure as required by 40 CFR 265 Subpart G) in a March 4, 1997, correspondence. In a letter dated September 16, 1997, IDEM stated that the beginning of the post-closure care period for the SIA was June 4, 1996. Subsequently, GMC and MLC submitted several Permit Applications and Permit Modifications which are tabulated in a table provided in Appendix A. RACER Trust will submit a Permit Modification during the first quarter 2012.

2. Slurry Wall and Monitoring Well System Installation

In 1994, a bentonite cutoff wall, nine dewatering walls, and 16 hydraulic monitoring wells were installed at the SIA. A final cover system, settlement monuments, and security control devices were also installed as part of the closure of the SIA. In 1999,

three double-cased monitoring wells were installed outside of the cutoff wall around the SIA and screened in the lower sand and gravel aquifer. Locations of the cutoff wall, hydraulic monitoring wells, three double-cased monitoring wells and dewatering wells are shown in Figure 1. The bentonite cutoff wall functions as a hydraulic no-flow barrier and the dewatering wells provide control of the groundwater level within the cutoff wall. The system is designed to transfer water pumped from the dewatering wells to the sanitary sewer. The 16 hydraulic monitoring wells were installed in pairs, eight inside the cutoff wall with a corresponding well outside the cutoff wall. The wells allow for measurement of groundwater elevations inside the barrier relative to the aquifer outside the barrier. The three double-cased monitoring wells are monitored to ensure that an inward hydraulic gradient is being maintained from the lower sand and gravel aquifer into the contained area.

3. Summary of 2011 Activities

The following activities were completed in 2011:

- In May and November, the static head and total depth in the hydraulic monitoring well pairs and the lower aquifer monitoring wells were gauged. The data was tabulated and used to calculate a water budget and ensure that an inward hydraulic gradient is being maintained;

- In October, a monument survey was performed to determine if any settlement had occurred;

- In March, May, August and October, field inspections of the cover system and the groundwater extraction system were performed;

- In October, the groundwater extraction system was tested to ensure it was running properly. Testing of the extraction wells indicated problems with extraction wells EW-202, EW-207 and EW-210. In February 2012, the gasket was replaced in the well vault of extraction well EW-202 and transformers were replaced in extractions wells EW-207 and EW-210. The repairs were completed after the three month time period stated in the Post-Closure Permit. The budget for the repairs was allocated in the 2012 budget which was approved by IDEM on December 14, 2011. The materials for the extraction well repair were on backorder when placed at the beginning of 2012. It should be noted that pumping from the extraction wells was not needed to lower the groundwater elevation inside the slurry wall. Based on

the average rise rate, the anticipated date to operate the extraction pumps is estimated to be in 3.42 years (4/6/2015) (see Section 6).

- Mowing was completed three times from May through September. Mowing events were limited in 2011, due to the lack of rainfall.

- Throughout the year, rodenticide was placed in areas of rodent activity to remove rodents from the cap and maintain the integrity of the cover system.

- In May and October, groundwater samples were collected from monitoring wells MW-201B, MW-202B, MW-203B and MW-206B to complete the groundwater statistical analysis as required in the approved Permit; and

- Throughout 2011, light bulbs indicating hand/off/automatic were replaced in the controls building and new labels and locks were installed on the monitoring wells, as necessary.

Details regarding these activities are presented in the following sections.

4. Inward Hydraulic Gradient

In May and October 2011, groundwater monitoring and sampling events were completed according to the updated Appendix H of the Permit (Sampling and Analysis Plan). On May 31, and November 4, 2011, depth to groundwater and total depth was measured in 19 monitoring wells at the Facility to obtain site-specific groundwater flow patterns in both the upper and lower sand and gravel units. The data collected is summarized in Table 1 of this report and were used to calculate groundwater elevations at each of the monitoring wells. The monitoring wells do not show evidence of siltation greater than one foot (criteria stated in Appendix H of the Permit to indicate when monitoring wells should be redeveloped). Groundwater elevations for each monitoring well nest during the May and November sampling events are presented in Drawings 2a and 2b. The groundwater elevation contours in the upper sand and gravel units for May and November 2011 are provided as Drawings 3 and 4, respectively. The groundwater elevation contours in the lower sand and gravel units for May and November 2011 are provided as Drawings 5 and 6, respectively.

During the May 31, 2011 and November 4, 2011 gauging events, the groundwater flow direction in the upper sand and gravel unit beneath the Facility was generally toward the east (Drawings 3 and 4). During the May 31, and November 4, 2011 gauging

events, the groundwater flow direction in the lower sand and gravel unit was generally to the northeast (Drawings 5 and 6).

Table 2 provides a summary of groundwater elevations with head differences between exterior monitoring wells ("B" wells) and interior monitoring wells ("A" wells) and rise rates for the interior monitoring wells. Rise rates were calculated for each of the interior hydraulic monitoring wells based on the rise of groundwater over time. Groundwater elevations from the October 6, 2010, through the November 4, 2011, monitoring events were used to calculate the rise rates. The rise rates for monitoring wells inside the cutoff wall range from 0.00234 ft/day to 0.00259 ft/day with an average of 0.00247 ft/day. Historical rise rates are provided in Table 3. The observed rise rates for 2011 are within the range of historically observed rates.

Based on the May 2011 data, groundwater elevations within the upper sand and gravel aquifer for the wells outside of the cutoff wall (“B” wells) ranged from 672.90 feet Mean Sea Level (MSL) to 676.06 feet MSL with an average of 675.20 feet MSL. Groundwater elevations within the cutoff wall (“A” wells) ranged from 662.93 feet MSL to 664.98 feet MSL with an average of 664.10 feet MSL. The head differences between monitoring wells inside the cutoff wall compared to its corresponding monitoring well outside the cutoff wall range from 13.02 feet lower in monitoring well MW-205A/B to 8.49 feet lower in monitoring well MW-202A/B with an average of 11.10 feet lower. Therefore, the hydraulic gradient in the upper sand and gravel aquifer in May 2011 was toward the inside of the cutoff wall (i.e. inward hydraulic gradient).

Based on the May 2011 data, groundwater elevations of monitoring wells within the lower sand and gravel unit (“C” wells) ranged from 669.29 feet MSL to 670.02 feet MSL. The head differences between A-series monitoring wells inside the cutoff wall compared to its corresponding monitoring well outside the cutoff wall in the lower sand and gravel unit ranged from 5.81 feet lower in monitoring well MW-203A/C to 4.84 feet lower in monitoring well MW-202A/MW-202C with an average of 5.23 feet lower. Therefore, the vertical hydraulic gradient between the groundwater in the lower sand and gravel unit and the groundwater within the cutoff wall was upward to the groundwater within the cutoff wall in May 2011.

Based on the November 2011 data, groundwater elevations within the upper sand and gravel aquifer for the wells outside of the cutoff wall (“B” wells) ranged from 669.78 feet MSL to 673.27 feet MSL with an average of 672.27 feet MSL. Groundwater elevations within the cutoff wall (“A” wells) ranged from 663.32 feet MSL to 665.32 feet MSL with an average of 664.44 feet MSL. The head differences between monitoring wells inside

the cutoff wall compared to its corresponding monitoring well outside the cutoff wall ranged from 9.95 feet lower in monitoring well MW-205A/B to 5.00 feet lower in monitoring well MW-202A/B with an average of 7.83 feet lower. Therefore, the hydraulic gradient in the upper sand and gravel aquifer in November 2011 was toward the inside of the cutoff wall (i.e. inward hydraulic gradient).

Based on the November 2011 data, groundwater elevations of monitoring wells within the lower sand and gravel unit ("C" wells) ranged from 668.05 feet MSL to 669.26 feet MSL. The head differences between A-series monitoring wells inside the cutoff wall compared to its corresponding monitoring well outside the cutoff wall in the lower sand and gravel unit ranged from 3.94 feet lower in monitoring well MW-206A/200C to 3.47 feet lower in monitoring well MW-202A/MW-202C with an average of 3.70 feet lower. Therefore, the vertical hydraulic gradient between the groundwater in the lower sand and gravel unit and the groundwater within the cutoff wall was upward to the groundwater within the cutoff wall in November 2011.

5. Groundwater Extraction

Nine dewatering wells (EW-201 through EW-210) are located throughout the SIA to extract groundwater. Locations of the wells are shown in Drawing 1. No extraction was performed during 2011 except for during the testing of the extraction wells. When extracted water is pumped from the dewatering wells, it is transmitted to the discharge control building via underground piping. From the discharge building, the water is discharged to the sanitary sewer on the north side of Raymond Street. In 2011, during the testing of the extraction wells, a total of 107 gallons were discharged to the sanitary sewer. See Section 8 for details.

6. Water Budget Calculations

The Water Budget Calculations, based on data from the October 2010 through the November 2011 gauging events, are shown in Appendix C. The Original Water Budget Calculations included in a May 24, 1995 submittal from GZA Environmental, Inc. to IDEM are shown in Appendix D. The observed rise rates from October 2010 to November 2011 ranged from 0.00234 ft/day to 0.00259 ft/day with an average of 0.00247 ft/day as shown in Table 2. Using the specific yield (Sy) of 20% used by GZA in the Closure Certification Report and the observed rise rates; there is an average flow rate of 0.903 gallons/min into the SIA with a minimum of 0.855 gallons/min and a maximum of 0.948 gallons/min. Also included in Appendix C is a calculation of Sy based on amount of water withdrawn, combined inflow within the cutoff wall based on

average rise rates, and average, minimum and maximum flowrates in to the SIA. The calculated Sy based on field data is 13.3%. Using a Sy of 13.3% and the observed rise rates, there is an average flow rate of 0.600 gallons/min into the SIA with a minimum of 0.569 gallons/min and a maximum of 0.631 gallons/min.

The approved Post-Closure Permit specifies that extraction wells will be manually turned on when groundwater elevations in one or more of the "A" series interior wells reach an elevation within one foot of the groundwater elevation observed in either aquifer (B and C series monitoring wells) in order to maintain a hydraulic gradient from outside to the inside of the cutoff wall. Based on the average rise rate, the date to operate the extraction pumps is estimated to be in 3.42 years (4/6/2015).

The volume of groundwater withdrawn from Plant 5 production wells is provided in Table 4. The 2011 data is not yet available.

In summary, the cutoff wall and the cover system are effective and the inward gradient has been maintained from both the upper and lower sand and gravel units toward the interior of the cutoff wall. Based on the observed rise rate of the groundwater within the cutoff wall compared to the closure estimated rise rates, the hydraulic containment system is performing as designed.

7. Groundwater Monitoring and Statistical Evaluation

In accordance with the Permit Modification approved on June 17, 2009, one groundwater sample was collected in both May and October 2011, from monitoring wells MW-201B, MW-202B, MW-203B and up-gradient monitoring well MW-206B in order to compare data to the calculated background screening level. Calculations were conducted in accordance with Section 4.3 of the Permit and Appendix H of the Permit: Sampling and Analysis Plan. The Groundwater Data Statistical Evaluations for May and November 2011 were submitted in September 2011 and January 2012. The results of the statistical evaluation indicate that there is no need for any response action.

In accordance with the Permit, the ASCII Digital Datasets were submitted directly to IDEM via e-mail in September 2011 (May 2011 groundwater sampling event) and January 2012 (October 2011 groundwater sampling event). Although originally submitted in September 2011, the ASCII Digital Dataset for the May 2011 groundwater sampling event was deficient and was therefore re-submitted and finalized in December 2011.

8. Inspections, Mowing and Erosion Control

Routine inspections of the SIA were conducted quarterly in 2011 and during semi-annual groundwater monitoring events to evaluate the performance of the final cover, security control and the groundwater hydraulic control and monitoring system. Inspections were performed by properly trained personnel. Post-Closure Inspection Checklists and maps noting the results of the inspection activities are provided in Appendix E. During the checks, the following items were inspected:

- Security Control Devices - Fencing, gates, locks, and posted signs for storm damage, vandalism, or deterioration;
- Erosion Damage - Final cover and drainage areas;
- Cover Settlement, Subsidence, and Displacement - Unusual settlement of benchmarks, wells, and monuments, and inspect for animal burrows and low spots;
- Vegetative Cover System - Cover system for bare areas or reduced vegetation;
- Integrity of Run-on and Run-off Controls — Inspect culverts and drainage ditch for hindrances to flow;
- Integrity of Cover Drainage and Gas Venting Systems — Inspect discharge points and gas venting systems for blockage;
- Integrity of Cut-off Wall — Review data from semi-annual groundwater monitoring event to ensure integrity of cut-off wall;
- Monitoring Well Conditions - Locks, casings, concrete seals, and settlement of the wells;
- Extraction Well System Functionality - Proper maintenance of the controls; and
- Exterior of each extraction well vault was inspected for deterioration and damage.

In October 2011, testing of the groundwater extraction system was performed. Testing of the extraction wells indicated problems with extraction wells EW-202, EW-207 and EW-210. In February 2012, a gasket was replaced in the well vault of extraction well EW-202 and transformers were replaced in extractions wells EW-207 and EW-210. Detailed documentation of the testing and troubleshooting of the groundwater extraction system is provided in Appendix F.

Mainscape, Inc. mowed the SIA three times from May through September 2011. Mowing events occurred on May 17, July 11 and September 22, 2011. No damage was incurred during any of the mowing events. No erosion control was necessary in 2011.

9. Monument Survey

The settlement monuments were required to be surveyed twice per year for the first five years (1997 through 2001) of the post-closure period and annually thereafter. Monuments M1 through M8 were surveyed on October 24, 2011 to evaluate settlement of the cover. ARCADIS completed the survey of the monuments. Elevations were surveyed using a benchmark elevation of 697.22 feet MSL at the top-of-casing of MW-207A. Monument locations are presented on Figure 1 and historical data and data from the survey conducted in 2011 is provided in Table 5. Monument elevation changes from October 2010 to October 2011 varied from -0.02 to 0.04 feet for all monuments.

10. Additional Tasks Completed in 2011

In addition to the tasks described above, the use of rodenticide was continued throughout 2011 in an effort to remove rodents from the cap and maintain the integrity of the cover system. Throughout 2011, light bulbs indicating hand/off/automatic were replaced in the controls building, and monitoring well labels and locks were replaced, as necessary.

11. Revised Post-Closure Cost Estimate

The RACER Trust is funded using a Property Funding Account identified in the Settlement Agreement. According to the Agreement, the State released the financial assurance instruments listed in Attachment D to MLC/RACER Trust based on the site funding in the Settlement Agreement. The funds included in the Settlement Agreement totaled $1,668,108 as of July 1, 2010. This cost is divided into three management categories as presented in Attachment A of the Settlement Agreement: “Minimum

Estimated Property Funding" and "Reserve Property Funding" which occurs in years 1 through 10 and "Operation, Monitoring and Maintenance Property Funding", which occurs in years 11 through 100. An estimated $68,882 was spent on long term care of the landfill from July 1, 2010 through December 2011. The budgetary forecast included with each year's budget approval package will take into account the previous year's activities, and consistent with the terms of the Settlement Agreement will maintain a completion date of 2109. The IDEM approved budget (also known as the post-closure cost estimate) for 2012, is attached in Appendix G.

12. Post-Closure Tasks for 2012

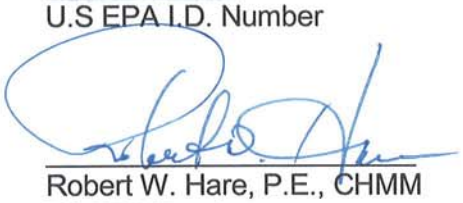
Planned future activities include routine post-closure care activities and routine groundwater sampling. Rodent control from the cover system will continue and additional troubleshooting and repair of the extraction system will be conducted, as necessary. A permit modification is planned to be submitted to IDEM in the first quarter of 2012.

Certification

Certification: I certify, under penalty of law, that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

INR000021436
U.S EPA I.D. Number

RACER Trust
Site Name



Robert W. Hare, P.E., CHMM
RACER Trust
Cleanup Manager (IL, IN, KS, MO, NJ, WI)

2-28-12
Date

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
MW-201A	6/28/1994	NA	NA	NA	NA	NA	NA
	7/7/1994	NA	NA	NA	NA	NA	NA
	7/20/1994	NA	NA	NA	NA	NA	NA
Top of Casing Elev.	7/27/1994	37.35	655.86	NA	NA	NA	NA
693.21' MSL	8/10/1994	37.21	656.00	0.14	NA	NA	NA
	8/22/1994	37.05	656.16	0.16	NA	NA	NA
	9/1/1994	36.94	656.27	0.11	NA	NA	NA
As-Built Total Depth	9/8/1994	36.86	656.35	0.08	NA	NA	NA
from Top of Casing	9/15/1994	36.80	656.41	0.06	NA	NA	NA
39.31'	9/20/1994	36.75	656.46	0.05	NA	NA	NA
	9/29/1994	36.67	656.54	0.08	NA	NA	NA
	10/7/1994	36.57	656.64	0.10	NA	NA	NA
	10/13/1994	36.55	656.66	0.02	NA	NA	NA
	10/26/1994	36.45	656.76	0.10	NA	NA	NA
	11/2/1994	36.37	656.84	0.08	NA	NA	NA
	6/29/1995	35.87	657.34	0.50	NA	NA	NA
	1/31/1996	36.07	657.14	-0.20	NA	NA	NA
	6/26/1996	34.52	658.69	1.55	NA	NA	NA
Reestablished Top of	12/18/1996	34.83	658.38	-0.31	39.31	653.90	0.00
Casing Elevation on	5/28/1997	34.00	659.21	0.83	39.26	653.95	-0.05
March 17, 1998	11/19/1997	33.68	659.93	0.72	39.29	653.92	-0.02
693.89' MSL	5/12/1998	33.03	660.86	NA	39.31	654.58	0.00
	11/3/1998	36.64	657.25	-3.61	39.31	654.58	0.00
	6/28/1999	36.57	657.32	0.07	39.31	654.58	0.00
	11/30/1999	35.07	658.82	1.50	39.31	654.58	0.00
	5/16/2000	34.80	659.09	0.27	39.31	654.58	0.00
	11/13/2000	36.19	657.70	-1.39	39.31	654.58	0.00
	5/30/2001	37.01	656.88	-0.82	39.29	654.60	-0.02
	11/23/2001	36.44	657.45	0.57	39.31	654.58	0.00
	5/29/2002	39.31	658.27	0.82	39.31	654.58	0.00
	11/21/2002	35.17	658.72	0.45	39.31	654.58	0.00
	5/20/2003	34.69	659.20	0.48	39.30	654.59	-0.01
	11/18/2003	36.06	657.83	-1.37	39.30	654.59	-0.01
	5/24/2004	36.68	657.21	-0.62	39.31	654.58	0.00
	11/11/2004	34.82	659.07	1.86	39.31	654.58	0.00
	5/10/2005	34.73	659.16	0.09	39.30	654.59	-0.01
	11/9/2005	35.17	658.72	-0.44	39.31	654.58	0.00
	5/17/2006	34.35	659.54	0.82	39.30	654.59	-0.01
	11/8/2006	33.89	660.00	0.46	39.31	654.58	0.00
	5/16/2007	33.17	660.72	0.72	39.08	654.81	-0.23
	11/15/2007	32.85	661.04	0.32	39.30	654.59	-0.01
	5/13/2008	32.10	661.79	0.65	39.05	654.84	-0.26
	11/6/2008	32.70	661.19	-0.60	39.30	654.59	-0.01
	5/13/2009	31.99	661.90	0.71	39.31	654.58	0.00
	11/23/2009	31.47	662.42	0.52	39.29	654.60	-0.02
	6/3/2010	30.83	663.06	0.64	39.34	654.55	-0.05
	10/6/2010	30.50	663.39	0.33	39.23	654.66	0.11
	5/31/2011	29.91	663.98	0.59	39.15	654.74	0.08
	11/4/2011	29.58	664.31	0.33	39.19	654.70	-0.04
MW-201B	6/28/1994	25.42	668.02	NA	NA	NA	NA
	7/7/1994	25.15	668.29	0.27	NA	NA	NA
	7/20/1994	25.22	668.22	-0.07	NA	NA	NA
	7/27/1994	25.22	668.22	0.00	NA	NA	NA
Top of Casing Elev.	8/10/1994	25.86	667.58	-0.64	NA	NA	NA
693.44' MSL	8/22/1994	25.94	667.50	-0.08	NA	NA	NA

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	9/1/1994	26.00	667.44	-0.06	NA	NA	NA
	9/8/1994	25.75	667.69	0.25	NA	NA	NA
As-Built Total Depth	9/15/1994	24.16	669.28	1.59	NA	NA	NA
from Top of Casing	9/20/1994	24.16	669.28	0.00	NA	NA	NA
38.51'	9/29/1994	26.44	667.00	-2.28	NA	NA	NA
	10/7/1994	26.62	666.82	-0.18	NA	NA	NA
	10/13/1994	26.46	666.98	0.16	NA	NA	NA
	10/26/1994	26.97	666.47	-0.51	NA	NA	NA
	11/2/1994	26.92	666.52	0.05	NA	NA	NA
	6/29/1995	26.36	667.08	0.56	NA	NA	NA
	1/31/1996	27.49	665.95	-1.13	NA	NA	NA
Reestablished Top of	6/26/1996	24.30	669.14	3.19	NA	NA	NA
Casing Elevation on	12/18/1996	24.13	669.31	0.17	38.42	655.02	-0.09
March 17, 1998	5/28/1997	23.42	670.02	0.71	38.40	655.04	-0.11
693.06' MSL	11/19/1997	27.70	665.74	-4.28	38.45	654.99	-0.06
	5/12/1998	25.46	667.60	NA	38.47	654.59	-0.04
	11/3/1998	26.05	667.01	-0.59	38.45	654.61	-0.06
	6/28/1999	26.14	666.92	-0.09	38.44	654.62	-0.07
	11/30/1999	27.60	665.46	-1.46	38.35	654.71	-0.16
	5/16/2000	27.51	665.55	0.09	38.33	654.73	-0.18
	11/13/2000	27.72	665.34	-0.21	38.50	654.56	-0.01
	5/30/2001	27.07	665.99	0.65	38.31	654.75	-0.20
	11/23/2001	24.97	668.09	2.10	38.45	654.61	-0.06
	5/29/2002	20.72	672.34	4.25	38.44	654.62	-0.07
	11/21/2002	25.54	667.52	-4.82	38.46	654.60	-0.05
	5/20/2003	23.19	669.87	2.35	38.27	654.79	-0.24
	11/18/2003	22.74	670.32	0.45	38.25	654.81	-0.26
	5/24/2004	22.73	670.33	0.01	38.42	654.64	-0.08
	11/11/2004	23.44	669.62	-0.71	38.42	654.64	-0.08
	5/10/2005	21.51	671.55	1.93	38.52	654.54	0.01
	11/9/2005	23.77	669.29	-2.26	38.42	654.64	-0.09
	5/17/2006	21.40	671.66	2.37	38.43	654.63	-0.08
	11/8/2006	22.40	670.66	-1.00	38.44	654.62	-0.07
	5/16/2007	20.34	672.72	2.06	38.36	654.70	-0.15
	11/15/2007	23.51	669.55	-3.17	38.34	654.72	-0.17
	5/13/2008	20.63	672.43	2.88	38.36	654.70	-0.15
	11/6/2008	22.86	670.20	-2.23	38.45	654.61	-0.06
	5/13/2009	20.09	672.97	2.77	38.45	654.61	-0.06
	11/23/2009	22.08	670.98	-1.99	38.46	654.60	-0.05
	6/3/2010	21.75	671.31	0.33	38.20	654.86	0.26
	10/6/2010	22.37	670.69	-0.62	37.81	655.25	0.39
	5/31/2011	18.81	674.25	3.56	37.62	655.44	0.19
	11/4/2011	22.15	670.91	-3.34	37.65	655.41	-0.03
MW-202A	6/28/1994	41.89	655.53	NA	NA	NA	NA
	7/7/1994	41.86	655.56	0.03	NA	NA	NA
	7/20/1994	42.62	654.80	-0.76	NA	NA	NA
	7/27/1994	NA	NA	NA	NA	NA	NA
Top of Casing Elev.	8/10/1994	NA	NA	NA	NA	NA	NA
697.42' MSL	8/22/1994	NA	NA	NA	NA	NA	NA
	9/1/1994	NA	NA	NA	NA	NA	NA
	9/8/1994	41.04	656.38	NA	NA	NA	NA
As-Built Total Depth	9/15/1994	40.99	656.43	0.05	NA	NA	NA
from Top of Casing	9/20/1994	40.92	656.50	0.07	NA	NA	NA
44.50'	9/29/1994	40.83	656.59	0.09	NA	NA	NA
	10/7/1994	40.76	656.66	0.07	NA	NA	NA
	10/13/1994	40.74	656.68	0.02	NA	NA	NA
	10/26/1994	40.61	656.81	0.13	NA	NA	NA
	11/2/1994	40.57	656.85	0.04	NA	NA	NA
	6/29/1995	39.11	658.31	1.46	NA	NA	NA
	1/31/1996	38.34	659.08	0.77	NA	NA	NA
Reestablished Top of	6/26/1996	37.77	659.65	0.57	NA	NA	NA
Casing Elevation on	12/18/1996	38.07	659.35	-0.30	44.50	652.92	0.00

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
March 17, 1998	5/28/1997	37.30	660.12	0.77	44.09	653.33	-0.41
697.58' MSL	11/19/1997	36.91	660.51	0.39	44.05	653.37	-0.45
	5/12/1998	36.47	661.11	NA	44.06	653.52	-0.44
	11/3/1998	38.90	658.68	-2.43	44.08	653.50	-0.42
	6/28/1999	38.58	659.00	0.32	44.05	653.53	-0.45
	11/30/1999	38.32	659.26	0.26	44.06	653.52	-0.44
	5/16/2000	37.89	659.69	0.43	44.10	653.48	-0.40
	11/13/2000	39.44	658.14	-1.55	44.07	653.51	-0.43
	5/30/2001	40.27	657.31	-0.83	44.07	653.51	-0.43
	11/23/2001	39.68	657.90	0.59	44.08	653.50	-0.42
	5/29/2002	38.88	658.70	0.80	44.07	653.51	-0.43
	11/21/2002	38.37	659.21	0.51	44.07	653.51	-0.43
	5/20/2003	37.77	659.81	0.60	43.97	653.61	-0.53
	11/18/2003	39.32	658.26	-1.55	43.98	653.60	-0.52
	5/24/2004	36.41	659.17	0.91	43.96	653.62	-0.54
	11/11/2004	38.06	659.52	0.35	43.96	653.62	-0.54
	5/10/2005	37.98	659.60	0.08	44.02	653.56	-0.48
	11/9/2005	38.41	659.17	-0.43	44.03	653.55	-0.47
	5/17/2006	37.56	660.02	0.85	44.01	653.57	-0.49
	11/8/2006	37.12	660.46	0.44	44.01	653.57	-0.49
	5/16/2007	36.43	661.15	0.69	43.70	653.88	-0.80
	11/15/2007	36.10	661.48	0.33	44.02	653.56	-0.48
	5/13/2008	35.31	662.27	0.79	43.77	653.81	-0.73
	11/6/2008	35.94	661.64	-0.63	44.01	653.57	-0.49
	5/13/2009	35.20	662.38	0.74	44.00	653.58	-0.50
	11/23/2009	34.71	662.87	0.49	44.01	653.57	-0.49
	6/3/2010	34.10	663.48	0.61	44.02	653.56	-0.01
	10/6/2010	33.81	663.77	0.29	43.96	653.62	0.06
	5/31/2011	33.17	664.41	0.64	43.90	653.68	0.06
	11/4/2011	32.80	664.78	0.37	43.85	653.73	0.05
MW-202B	6/28/1994	25.27	666.32	NA	NA	NA	NA
	7/7/1994	24.73	666.86	0.54	NA	NA	NA
	7/20/1994	24.91	666.68	-0.18	NA	NA	NA
	7/27/1994	25.29	666.30	-0.38	NA	NA	NA
Top of Casing Elev.	8/10/1994	25.53	666.06	-0.24	NA	NA	NA
691.59' MSL	8/22/1994	25.63	665.96	-0.10	NA	NA	NA
	9/1/1994	25.82	665.77	-0.19	NA	NA	NA
	9/8/1994	25.57	666.02	0.25	NA	NA	NA
As-Built Total Depth	9/15/1994	25.97	665.62	-0.40	NA	NA	NA
from Top of Casing	9/20/1994	26.13	665.46	-0.16	NA	NA	NA
37.71'	9/29/1994	26.11	665.48	0.02	NA	NA	NA
	10/7/1994	26.33	665.26	-0.22	NA	NA	NA
	10/13/1994	26.43	665.16	-0.10	NA	NA	NA
	10/26/1994	26.69	664.90	-0.26	NA	NA	NA
	11/2/1994	26.63	664.96	0.06	NA	NA	NA
	6/29/1995	26.00	665.59	0.63	NA	NA	NA
	1/31/1996	26.75	664.84	-0.75	NA	NA	NA
	6/26/1996	24.09	667.50	2.66	NA	NA	NA
Reestablished Top of	12/18/1996	23.75	667.84	0.34	37.62	653.97	-0.09
Casing Elevation on	5/28/1997	23.18	668.41	0.57	37.62	653.97	-0.09
March 17, 1998	11/19/1997	27.80	663.79	-4.62	37.68	653.91	-0.03
691.43' MSL	5/12/1998	24.88	666.55	NA	37.68	653.75	-0.03
	11/3/1998	25.76	665.67	-0.88	37.67	653.76	-0.04
	6/28/1999	25.72	665.71	0.04	37.69	653.74	-0.02
	11/30/1999	27.32	664.11	-1.60	37.58	653.85	-0.13
	5/16/2000	27.80	663.63	-0.48	37.65	653.78	-0.06
	11/13/2000	27.89	663.54	-0.09	37.71	653.72	0.00
	5/30/2001	26.90	664.53	0.99	37.51	653.92	-0.20
	11/23/2001	24.73	666.70	2.17	37.67	653.76	-0.04
	5/29/2002	20.73	670.70	4.00	37.67	653.76	-0.04
	11/21/2002	25.42	666.01	-4.69	37.70	653.73	-0.01
	5/20/2003	23.21	668.22	2.21	37.69	653.74	-0.02

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Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	11/18/2003	22.80	668.83	0.61	37.67	653.76	-0.04
	5/24/2004	22.55	668.88	0.05	37.64	653.79	-0.07
	11/11/2004	23.17	668.26	-0.62	37.64	653.79	-0.07
	5/10/2005	21.11	670.32	2.06	37.66	653.77	-0.05
	11/9/2005	23.56	667.87	-2.45	37.66	653.77	-0.05
	5/17/2006	21.14	670.29	2.42	37.61	653.82	-0.10
	11/8/2006	21.88	669.55	-0.74	37.67	653.76	-0.04
	5/16/2007	20.15	671.28	1.73	37.42	654.01	-0.29
	11/15/2007	22.89	668.54	-2.74	37.50	653.93	-0.21
	5/13/2008	20.07	671.36	2.82	37.31	654.12	-0.40
	11/6/2008	22.33	669.10	-2.26	37.62	653.81	-0.09
	5/13/2009	19.55	671.88	2.78	37.51	653.92	-0.20
	11/23/2009	21.73	669.70	-2.18	37.52	653.91	-0.19
	6/3/2010	21.30	670.13	0.43	37.60	653.83	-0.08
	10/6/2010	21.72	669.71	-0.42	37.53	653.90	0.07
	5/31/2011	18.53	672.90	3.19	37.45	653.98	0.08
	11/4/2011	21.65	669.78	-3.12	37.43	654.00	0.02
MW-203A	6/28/1994	37.30	657.50	NA	NA	NA	NA
	7/7/1994	37.44	657.36	-0.14	NA	NA	NA
	7/20/1994	37.78	657.02	-0.34	NA	NA	NA
	7/27/1994	NA	NA	NA	NA	NA	NA
Top of Casing Elev.	8/10/1994	NA	NA	NA	NA	NA	NA
694.80' MSL	8/22/1994	37.94	656.86	NA	NA	NA	NA
	9/1/1994	37.94	656.86	0.00	NA	NA	NA
	9/8/1994	37.94	656.86	0.00	NA	NA	NA
As-Built Total Depth	9/15/1994	NA	NA	NA	NA	NA	NA
from Top of Casing	9/20/1994	NA	NA	NA	NA	NA	NA
40.06'	9/29/1994	NA	NA	NA	NA	NA	NA
	10/7/1994	NA	NA	NA	NA	NA	NA
	10/13/1994	NA	NA	NA	NA	NA	NA
	10/26/1994	NA	NA	NA	NA	NA	NA
	11/2/1994	NA	NA	NA	NA	NA	NA
	6/29/1995	36.47	658.33	NA	NA	NA	NA
	1/31/1996	35.66	659.14	0.81	NA	NA	NA
Reestablished Top of	6/26/1996	35.10	659.70	0.56	NA	NA	NA
Casing Elevation on	12/18/1996	35.40	659.40	-0.30	40.04	654.76	-0.02
March 17, 1998	5/28/1997	34.60	660.20	0.80	40.03	654.77	-0.03
694.46' MSL	11/19/1997	34.23	660.57	0.37	40.02	654.78	-0.04
	5/12/1998	33.80	660.66	NA	40.04	654.42	-0.02
	11/3/1998	36.25	658.21	-2.45	40.05	654.41	-0.01
	6/28/1999	35.96	658.50	0.29	40.04	656.42	-0.02
	11/30/1999	35.64	658.82	0.32	40.04	656.42	-0.02
	5/16/2000	35.25	659.21	0.39	40.05	654.41	-0.01
	11/13/2000	36.75	657.71	-1.50	40.05	654.41	-0.01
	5/30/2001	37.60	656.86	-0.85	40.04	654.42	-0.02
	11/23/2001	37.02	657.44	0.58	40.05	654.41	-0.01
	5/29/2002	36.21	658.25	0.81	40.01	654.45	-0.05
	11/21/2002	35.71	658.75	0.50	40.01	654.45	-0.05
	5/20/2003	35.20	659.26	0.51	40.06	654.40	0.00
	11/18/2003	36.68	657.78	-1.48	40.04	654.42	-0.02
	5/24/2004	35.84	658.62	0.84	40.04	654.42	-0.02
	11/11/2004	35.37	659.09	0.47	40.04	654.42	-0.02
	5/10/2005	34.60	659.86	0.77	40.03	654.43	-0.03
	11/9/2005	35.72	658.74	-1.12	40.04	654.42	-0.02
	5/17/2006	34.50	659.96	1.22	40.04	654.42	-0.02
	11/8/2006	34.45	660.01	0.05	40.04	654.42	-0.02
	5/16/2007	33.73	660.73	0.72	39.81	654.67	-0.25
	11/15/2007	33.39	661.07	0.34	40.04	654.42	-0.02
	5/13/2008	32.23	662.23	1.16	39.81	654.67	-0.25
	11/6/2008	33.27	661.19	-1.04	40.03	654.43	-0.03
	5/13/2009	32.53	661.93	0.74	40.04	654.42	-0.02
	11/23/2009	32.03	662.43	0.50	40.04	654.42	-0.02

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WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	6/3/2010	31.40	663.06	0.63	40.08	654.38	-0.04
	10/6/2010	31.13	663.33	0.27	39.92	654.54	0.16
	5/31/2011	30.46	664.00	0.67	39.90	654.46	-0.08
	11/4/2011	30.11	664.35	0.35	39.91	654.55	0.09
MW-203B	6/28/1994	21.96	668.24	NA	NA	NA	NA
	7/7/1994	21.92	668.28	0.04	NA	NA	NA
	7/20/1994	22.04	668.16	-0.12	NA	NA	NA
	7/27/1994	21.32	668.88	0.72	NA	NA	NA
Top of Casing Elev.	8/10/1994	22.61	667.59	-1.29	NA	NA	NA
690.20' MSL	8/22/1994	22.80	667.40	-0.19	NA	NA	NA
	9/1/1994	22.90	667.30	-0.10	NA	NA	NA
	9/8/1994	22.83	667.33	0.07	NA	NA	NA
As-Built Total Depth	9/15/1994	23.12	667.08	-0.29	NA	NA	NA
from Top of Casing	9/20/1994	23.26	666.94	-0.14	NA	NA	NA
34.30'	9/29/1994	23.42	666.78	-0.16	NA	NA	NA
	10/7/1994	23.42	666.78	0.00	NA	NA	NA
	10/13/1994	23.46	666.74	-0.04	NA	NA	NA
	10/26/1994	23.56	666.64	-0.10	NA	NA	NA
	11/2/1994	23.56	666.64	0.00	NA	NA	NA
	6/29/1995	23.04	667.16	0.52	NA	NA	NA
	1/31/1996	23.56	666.64	-0.52	NA	NA	NA
Reestablished Top of	6/26/1996	21.12	669.08	2.44	NA	NA	NA
Casing Elevation on	12/18/1996	21.30	668.90	-0.18	34.30	657.35	0.00
March 17, 1998	5/28/1997	20.88	669.32	0.42	34.25	657.40	-0.05
691.65' MSL	11/19/1997	24.88	665.32	-4.00	34.40	657.25	0.10
	5/12/1998	22.81	668.77	NA	34.48	657.17	0.18
	11/3/1998	23.34	668.31	-0.46	34.29	657.36	-0.01
	6/28/1999	22.72	668.93	0.62	34.26	657.39	-0.04
	11/30/1999	24.39	667.26	-1.67	34.27	657.38	-0.03
	5/16/2000	24.53	667.12	-0.14	34.28	657.37	-0.02
	11/13/2000	24.43	667.22	0.10	34.30	657.35	0.00
	5/30/2001	23.73	667.92	0.70	34.29	657.36	-0.01
	11/23/2001	21.81	669.64	1.82	34.30	657.35	0.00
	5/29/2002	17.95	673.70	3.86	34.28	657.37	-0.02
	11/21/2002	22.49	669.16	-4.54	34.27	657.38	-0.03
	5/20/2003	20.67	670.98	1.82	34.30	657.35	0.00
	11/18/2003	20.68	670.97	-0.01	34.30	657.35	0.00
	5/24/2004	20.13	671.52	0.55	34.30	657.35	0.00
	11/11/2004	20.85	670.80	-0.72	34.30	657.35	0.00
	5/10/2005	20.62	671.03	0.23	34.30	657.35	0.00
	11/9/2005	21.43	670.22	-0.81	34.30	657.35	0.00
	5/17/2006	22.02	669.63	-0.59	34.32	657.33	0.02
	11/8/2006	19.62	672.03	2.40	34.28	657.37	-0.02
	5/16/2007	18.12	673.53	1.50	34.11	657.54	-0.19
	11/15/2007	20.67	670.98	-2.55	34.29	657.36	-0.01
	5/13/2008	18.12	673.53	2.55	33.92	657.73	-0.38
	11/6/2008	19.90	671.75	-1.78	34.27	657.38	-0.03
	5/13/2009	17.86	673.79	2.04	34.30	657.35	0.00
	11/23/2009	19.78	671.87	-1.92	34.30	657.35	0.00
	6/3/2010	19.17	672.48	0.61	34.15	657.50	0.15
	10/6/2010	19.81	671.84	-0.64	34.15	657.50	0.00
	5/31/2011	16.71	674.94	3.10	34.10	657.55	0.05
	11/4/2011	19.61	672.04	-2.90	34.13	657.52	-0.03
MW-204A	6/28/1994	28.79	665.09	NA	NA	NA	NA
	7/7/1994	38.41	655.47	-9.62	NA	NA	NA
	7/20/1994	38.41	655.47	0.00	NA	NA	NA
	7/27/1994	39.63	654.25	-1.22	NA	NA	NA
Top of Casing Elev.	8/10/1994	37.89	655.99	1.74	NA	NA	NA
693.88' MSL	8/22/1994	37.70	656.18	0.19	NA	NA	NA
	9/1/1994	37.63	656.25	0.07	NA	NA	NA
	9/8/1994	37.53	656.35	0.10	NA	NA	NA

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WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
As-Built Total Depth	9/15/1994	37.47	656.41	0.06	NA	NA	NA
from Top of Casing	9/20/1994	37.43	656.45	0.04	NA	NA	NA
38.80'	9/29/1994	37.34	656.54	0.09	NA	NA	NA
	10/7/1994	37.34	656.54	0.00	NA	NA	NA
	10/13/1994	37.19	656.69	0.14	NA	NA	NA
	10/26/1994	37.11	656.77	0.08	NA	NA	NA
	11/2/1994	37.05	656.83	0.06	NA	NA	NA
	6/29/1995	35.57	658.31	1.48	NA	NA	NA
Reestablished Top of	1/31/1996	34.79	659.09	0.78	NA	NA	NA
Casing Elevation on	6/26/1996	34.21	659.67	0.58	NA	NA	NA
March 17, 1998	12/18/1996	34.52	659.36	-0.31	38.71	655.17	-0.09
693.89' MSL	5/28/1997	33.71	660.17	0.81	38.68	655.20	-0.12
	11/19/1997	33.36	660.52	0.35	38.71	655.17	-0.09
	5/12/1998	32.46	661.43	NA	38.74	655.15	-0.06
	11/3/1998	35.67	658.22	-3.21	38.78	655.11	-0.02
	6/28/1999	35.05	658.84	0.62	38.75	655.14	-0.05
	11/30/1999	34.56	659.33	0.49	38.75	655.14	-0.05
	5/16/2000	34.40	659.49	0.16	38.77	655.12	-0.03
	11/13/2000	35.90	657.99	-1.50	38.78	655.11	-0.02
	5/30/2001	36.72	657.17	-0.72	38.76	655.13	-0.04
	11/23/2001	36.12	657.77	0.60	38.75	655.14	-0.05
	5/29/2002	35.33	658.56	0.79	38.75	655.14	-0.05
	11/21/2002	34.83	659.06	0.50	38.74	655.15	-0.06
	5/20/2003	34.38	659.51	0.45	38.73	655.16	-0.07
	11/18/2003	35.79	658.10	-1.41	38.72	655.17	-0.08
	5/24/2004	34.96	658.93	0.83	38.74	655.15	-0.06
	11/11/2004	34.51	659.38	0.45	38.74	655.15	-0.06
	5/10/2005	34.44	659.45	0.07	38.75	655.14	-0.05
	11/9/2005	34.84	659.05	-0.40	38.74	655.15	-0.06
	5/17/2006	34.05	659.84	0.79	38.72	655.17	-0.08
	11/8/2006	33.60	660.29	0.45	38.74	655.15	-0.06
	5/16/2007	32.87	661.02	0.73	38.50	655.40	-0.30
	11/15/2007	32.52	661.37	0.35	38.74	655.15	-0.06
	5/13/2008	31.78	662.11	0.74	38.50	655.40	-0.30
	11/6/2008	32.39	661.50	-0.61	38.75	655.14	-0.05
	5/13/2009	31.66	662.23	0.73	38.75	655.14	-0.05
	11/23/2009	31.17	662.72	0.49	38.75	655.14	-0.05
	6/3/2010	30.55	663.34	0.62	37.50	656.39	1.25
	10/6/2010	30.22	663.67	0.33	38.70	655.19	-1.20
	5/31/2011	26.90	664.29	0.62	38.61	655.28	0.09
	11/4/2011	30.33	663.56	-0.73	38.61	655.28	0.00
MW-204B	6/28/1994	22.13	670.47	NA	NA	NA	NA
	7/7/1994	22.21	670.39	-0.08	NA	NA	NA
	7/20/1994	22.23	670.37	-0.02	NA	NA	NA
	7/27/1994	22.50	670.10	-0.27	NA	NA	NA
Top of Casing Elev.	8/10/1994	22.80	669.80	-0.30	NA	NA	NA
692.60' MSL	8/22/1994	23.02	669.58	-0.22	NA	NA	NA
	9/1/1994	24.08	668.52	-0.06	NA	NA	NA
	9/8/1994	23.14	669.46	0.94	NA	NA	NA
As-Built Total Depth	9/15/1994	23.24	669.36	-0.10	NA	NA	NA
from Top of Casing	9/20/1994	23.41	669.19	-0.17	NA	NA	NA
37.82'	9/29/1994	23.46	669.14	-0.05	NA	NA	NA
	10/7/1994	23.58	669.02	-0.12	NA	NA	NA
	10/13/1994	23.62	668.98	-0.04	NA	NA	NA
	10/26/1994	22.84	669.76	-0.78	NA	NA	NA
	11/2/1994	23.94	668.66	-1.10	NA	NA	NA
	6/29/1995	23.41	669.19	0.53	NA	NA	NA
	1/31/1996	24.26	668.34	0.85	NA	NA	NA
Reestablished Top of	6/26/1996	21.39	671.21	2.87	NA	NA	NA
Casing Elevation on	12/18/1996	21.68	670.92	-0.29	37.78	654.82	-0.04
March 17, 1998	5/28/1997	21.29	671.31	0.39	37.72	654.88	-0.10
693.23' MSL	11/19/1997	26.65	665.95	-5.36	37.80	654.80	-0.02

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	5/12/1998	23.22	670.01	NA	37.81	655.42	-0.01
	11/3/1998	23.46	669.77	-0.24	37.81	655.42	-0.01
	6/28/1999	22.84	670.39	0.62	37.82	655.41	0.00
	11/30/1999	24.55	668.68	-1.71	37.81	655.42	-0.01
	5/16/2000	24.41	668.82	0.14	37.80	655.43	-0.02
	11/13/2000	24.01	669.22	0.40	37.81	655.42	-0.01
	5/30/2001	23.77	669.46	0.24	37.79	655.44	-0.03
	11/23/2001	22.02	671.21	1.75	37.80	655.43	-0.02
	5/29/2002	18.46	674.77	3.56	37.79	655.44	-0.03
	11/21/2002	22.24	670.99	-3.78	37.78	655.45	-0.04
	5/20/2003	20.46	672.77	1.78	37.78	655.45	-0.04
	11/18/2003	20.84	672.39	-0.38	37.78	655.45	-0.04
	5/24/2004	20.39	672.84	0.45	37.80	655.43	-0.02
	11/11/2004	21.13	672.10	-0.74	37.80	655.43	-0.02
	5/10/2005	19.10	674.13	2.03	37.79	655.44	-0.03
	11/9/2005	21.89	671.34	-2.79	37.80	655.43	-0.02
	5/17/2006	22.51	670.72	-0.62	37.76	655.47	-0.06
	11/8/2006	20.53	672.70	1.98	37.80	655.43	-0.02
	5/16/2007	18.51	674.72	2.02	37.51	655.72	-0.31
	11/15/2007	21.24	671.99	2.73	37.79	655.44	-0.03
	5/13/2008	18.89	674.34	2.35	37.58	655.65	-0.24
	11/6/2008	20.37	672.86	-1.48	37.81	655.42	-0.01
	5/13/2009	18.80	674.43	1.57	37.79	655.44	-0.03
	11/23/2009	20.27	672.96	-1.47	37.79	655.44	-0.03
	6/3/2010	19.53	673.70	0.74	37.83	655.40	-0.04
	10/20/2010	20.59	672.64	-1.06	37.70	655.53	0.13
	5/31/2011	17.38	675.85	3.21	37.61	655.62	0.09
	11/4/2011	21.10	672.13	-3.72	37.65	655.58	-0.04
MW-205A	6/28/1994	40.27	654.81	NA	NA	NA	NA
	7/7/1994	39.61	655.47	0.31	NA	NA	NA
	7/20/1994	NA	NA	NA	NA	NA	NA
Top of Casing Elev.	7/27/1994	39.30	655.78	NA	NA	NA	NA
695.08' MSL	8/10/1994	39.22	655.86	0.08	NA	NA	NA
	8/22/1994	39.02	656.06	0.20	NA	NA	NA
	9/1/1994	38.92	656.16	0.10	NA	NA	NA
As-Built Total Depth	9/8/1994	38.84	656.24	0.09	NA	NA	NA
from Top of Casing	9/15/1994	38.77	656.31	0.07	NA	NA	NA
39.61'	9/20/1994	38.72	656.36	0.05	NA	NA	NA
	9/29/1994	38.63	656.45	0.09	NA	NA	NA
	10/7/1994	38.55	656.53	0.08	NA	NA	NA
	10/13/1994	38.51	656.57	0.04	NA	NA	NA
	10/26/1994	38.40	656.68	0.11	NA	NA	NA
	11/2/1994	38.32	656.76	0.09	NA	NA	NA
	6/29/1995	36.80	658.28	1.52	NA	NA	NA
	1/31/1996	36.00	659.08	0.80	NA	NA	NA
Reestablished Top of	6/26/1996	35.44	659.64	0.56	NA	NA	NA
Casing Elevation on	12/18/1996	35.74	659.34	-0.30	39.52	655.56	-0.09
March 17, 1998	5/28/1997	34.93	660.15	0.81	39.61	655.47	0.00
693.74' MSL	11/19/1997	34.56	660.52	0.37	39.61	655.47	0.00
	5/12/1998	34.46	659.28	NA	39.63	654.11	0.02
	11/3/1998	37.03	656.71	-2.57	39.60	654.14	-0.01
	6/28/1999	36.25	657.49	1.78	39.63	654.11	0.02
	11/30/1999	35.97	657.77	-0.72	39.64	654.10	0.03
	5/16/2000	35.59	658.15	0.38	39.65	654.09	0.04
	11/13/2000	37.10	656.64	-1.51	39.64	654.10	0.03
	5/30/2001	37.92	655.82	-0.82	39.62	654.12	0.01
	11/23/2001	37.34	656.40	0.58	39.63	654.11	0.02
	5/29/2002	36.53	657.21	0.81	39.63	654.11	0.02
	11/21/2002	36.04	657.70	0.49	39.62	654.12	0.01
	5/20/2003	35.58	658.16	0.46	39.62	654.12	0.01
	11/18/2003	36.99	656.75	-1.41	39.63	654.11	0.02
	5/24/2004	36.17	657.57	0.82	39.61	654.13	0.00

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	11/11/2004	34.72	659.02	1.45	39.61	654.13	0.00
	5/10/2005	34.92	658.82	-0.20	39.61	654.13	0.00
	11/9/2005	36.05	657.69	-1.13	39.63	654.11	0.02
	5/17/2006	34.73	659.01	1.32	39.61	654.13	0.00
	11/8/2006	34.62	659.12	0.11	39.61	654.13	0.00
	5/16/2007	34.08	659.66	0.54	39.37	654.37	-0.24
	11/15/2007	33.75	659.99	0.33	39.61	654.13	0.00
	5/13/2008	32.98	660.76	0.77	39.40	654.34	-0.21
	11/6/2008	33.61	660.13	-0.63	39.60	654.14	-0.01
	5/13/2009	32.87	660.87	0.74	39.61	654.13	0.00
	11/23/2009	32.38	661.36	0.49	39.61	654.13	0.00
	6/3/2010	31.75	661.99	0.63	39.65	654.09	-0.04
	10/6/2010	31.40	662.34	0.35	39.56	654.18	0.09
	5/31/2011	30.81	662.93	0.59	39.50	654.24	0.06
	11/4/2011	31.55	662.19	-0.74	39.51	654.23	-0.01
MW-205B	6/28/1994	23.14	670.99	NA	NA	NA	NA
	7/7/1994	23.13	671.00	0.01	NA	NA	NA
	7/20/1994	23.27	670.86	-0.14	NA	NA	NA
Top of Casing Elev.	7/27/1994	23.39	670.74	-0.12	NA	NA	NA
694.13' MSL	8/10/1994	23.68	670.45	-0.29	NA	NA	NA
	8/22/1994	23.88	670.25	-0.20	NA	NA	NA
	9/1/1994	23.93	670.20	-0.05	NA	NA	NA
	9/8/1994	24.05	670.08	-0.12	NA	NA	NA
As-Built Total Depth	9/15/1994	24.13	670.00	-0.08	NA	NA	NA
from Top of Casing	9/20/1994	24.07	669.90	-0.10	NA	NA	NA
39.29'	9/29/1994	24.34	669.79	-0.11	NA	NA	NA
	10/7/1994	24.46	669.67	-0.12	NA	NA	NA
	10/13/1994	24.53	669.60	-0.07	NA	NA	NA
	10/26/1994	24.72	669.41	-0.19	NA	NA	NA
	11/2/1994	24.86	669.27	-0.14	NA	NA	NA
	6/29/1995	24.49	669.64	0.37	NA	NA	NA
	1/31/1996	25.48	668.65	-0.99	NA	NA	NA
Reestablished Top of	6/26/1996	22.32	671.81	3.16	NA	NA	NA
Casing Elevation on	12/18/1996	22.55	671.58	-0.23	38.87	655.26	-0.42
March 17, 1998	5/28/1997	22.05	672.08	0.50	39.02	655.11	-0.27
693.97' MSL	11/19/1997	25.45	668.68	-3.40	39.05	655.08	-0.24
	5/12/1998	24.21	669.76	NA	39.13	654.84	-0.16
	11/3/1998	24.25	669.72	-0.04	39.17	654.80	-0.12
	6/28/1999	23.68	670.29	0.57	38.79	655.18	-0.50
	11/30/1999	25.27	668.70	-1.59	38.75	655.22	-0.54
	5/16/2000	25.17	668.80	0.10	38.80	655.17	-0.49
	11/13/2000	24.75	669.22	0.42	38.80	655.17	-0.49
	5/30/2001	24.57	669.40	0.18	38.76	655.21	-0.53
	11/23/2001	22.78	671.19	1.79	38.78	655.19	-0.51
	5/29/2002	17.87	676.10	4.91	38.77	655.20	-0.52
	11/21/2002	23.06	670.91	-5.19	38.78	655.19	-0.51
	5/20/2003	21.79	672.18	1.27	38.81	655.16	-0.48
	11/18/2003	21.36	672.61	0.43	38.79	655.18	-0.50
	5/24/2004	20.99	672.98	0.37	38.81	655.16	-0.48
	11/11/2004	21.74	672.23	-0.75	38.81	655.16	-0.48
	5/10/2005	20.44	673.53	1.30	38.80	655.17	-0.49
	11/9/2005	22.53	671.44	-2.09	38.94	655.03	-0.35
	5/17/2006	23.07	670.90	-0.54	38.75	655.22	-0.54
	11/8/2006	21.20	672.77	1.87	38.81	655.16	-0.48
	5/16/2007	19.06	674.91	2.14	38.60	655.37	-0.69
	11/15/2007	21.96	672.01	-2.90	38.72	655.25	-0.57
	5/13/2008	19.55	674.42	2.41	38.50	655.47	-0.79
	11/6/2008	21.02	672.95	-1.47	38.71	655.26	-0.58
	5/13/2009	19.50	674.47	1.52	38.75	655.22	-0.54
	11/23/2009	20.84	673.13	-1.34	38.71	655.26	-0.58
	6/3/2010	20.10	673.87	0.74	38.78	655.19	-0.07
	10/6/2010	20.88	673.09	-0.78	38.66	655.31	0.12

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	5/31/2011	18.02	675.95	2.86	38.53	655.44	0.13
	11/4/2011	21.70	672.27	-3.68	38.55	655.42	-0.02
MW-206A	6/28/1994	38.82	659.02	NA	NA	NA	NA
	7/7/1994	NA	NA	NA	NA	NA	NA
	7/20/1994	NA	NA	NA	NA	NA	NA
Top of Casing Elev.	7/27/1994	NA	NA	NA	NA	NA	NA
697.84' MSL	8/10/1994	NA	NA	NA	NA	NA	NA
	8/22/1994	NA	NA	NA	NA	NA	NA
	9/1/1994	NA	NA	NA	NA	NA	NA
	9/8/1994	41.49	656.35	NA	NA	NA	NA
As-Built Total Depth	9/15/1994	41.42	656.42	0.07	NA	NA	NA
from Top of Casing	9/20/1994	NA	NA	NA	NA	NA	NA
43.25'	9/29/1994	41.29	656.55	NA	NA	NA	NA
	10/7/1994	41.21	656.63	0.08	NA	NA	NA
	10/13/1994	41.20	656.64	0.01	NA	NA	NA
	10/26/1994	41.04	656.80	0.16	NA	NA	NA
	11/2/1994	40.96	656.88	0.08	NA	NA	NA
	6/29/1995	39.50	658.34	1.46	NA	NA	NA
	1/31/1996	38.70	659.14	0.80	NA	NA	NA
Reestablished Top of	6/26/1996	38.14	659.70	0.56	NA	NA	NA
Casing Elevation on	12/18/1996	38.46	659.38	-0.32	43.28	654.56	0.03
March 17, 1998	5/28/1997	37.65	660.19	0.81	43.26	654.58	0.01
698.52' MSL	11/19/1997	37.27	660.57	0.38	43.23	654.61	-0.02
	5/12/1998	36.00	662.52	NA	43.26	655.26	0.01
	11/3/1998	39.75	658.77	-3.75	43.25	655.27	0.00
	6/28/1999	39.01	659.51	0.74	43.25	655.27	0.00
	11/30/1999	38.70	659.82	0.31	43.26	655.26	0.01
	5/16/2000	38.52	660.00	0.18	43.23	655.29	-0.02
	11/13/2000	38.83	659.69	-0.31	43.27	655.25	0.02
	5/30/2001	40.64	657.88	-1.81	43.25	655.27	0.00
	11/23/2001	40.06	658.46	0.58	43.26	655.26	0.02
	5/29/2002	39.25	659.27	0.81	43.25	655.27	0.00
	11/21/2002	38.76	659.76	0.49	43.25	655.27	0.00
	5/20/2003	38.07	660.45	0.69	43.18	655.34	-0.07
	11/18/2003	39.67	658.85	-1.60	43.19	655.33	-0.06
	5/24/2004	38.72	659.80	0.95	43.20	655.32	-0.05
	11/11/2004	38.44	660.08	0.28	43.20	655.32	-0.05
	5/10/2005	37.71	660.81	0.73	43.18	655.34	-0.07
	11/9/2005	39.78	658.74	-2.07	43.20	655.32	-0.05
	5/17/2006	37.96	660.56	1.82	43.17	655.35	-0.08
	11/8/2006	38.48	660.04	-0.52	43.14	655.38	-0.11
	5/16/2007	36.80	661.72	1.68	42.96	655.56	-0.29
	11/15/2007	36.48	662.04	0.32	43.20	655.32	-0.05
	5/13/2008	35.72	662.80	0.76	42.95	655.57	-0.30
	11/6/2008	36.32	662.60	-0.60	43.20	655.32	-0.05
	5/13/2009	35.59	662.93	0.33	43.24	655.28	-0.01
	11/23/2009	35.10	663.42	0.49	43.15	655.37	-0.10
	6/3/2010	34.47	664.05	0.63	43.20	655.32	-0.05
	10/6/2010	34.20	664.32	0.27	43.15	655.37	0.05
	5/31/2011	33.54	664.98	0.66	43.13	655.39	0.02
	11/4/2011	34.28	664.24	-0.74	43.15	655.37	-0.02
MW-206B	6/28/1994	22.69	670.95	NA	NA	NA	NA
	7/7/1994	22.69	670.95	0.00	NA	NA	NA
	7/20/1994	22.78	670.86	-0.09	NA	NA	NA
Top of Casing Elev.	7/27/1994	22.92	670.72	-0.14	NA	NA	NA
693.64' MSL	8/10/1994	23.21	670.43	-0.29	NA	NA	NA
	8/22/1994	23.39	670.25	-0.18	NA	NA	NA
	9/1/1994	23.47	670.17	-0.08	NA	NA	NA
	9/8/1994	23.53	670.11	-0.06	NA	NA	NA
As-Built Total Depth	9/15/1994	23.63	670.01	-0.10	NA	NA	NA
from Top of Casing	9/20/1994	23.75	669.89	-0.12	NA	NA	NA

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37.73'	9/29/1994	23.84	669.80	-0.09	NA	NA	NA
	10/7/1994	23.97	669.67	-0.13	NA	NA	NA
	10/13/1994	24.07	669.57	-0.10	NA	NA	NA
	10/26/1994	24.27	669.37	-0.20	NA	NA	NA
	11/2/1994	24.43	669.21	-0.16	NA	NA	NA
	6/29/1995	24.08	669.56	0.35	NA	NA	NA
	1/31/1996	25.15	668.49	-1.07	NA	NA	NA
Reestablished Top of	6/26/1996	21.91	671.73	3.24	NA	NA	NA
Casing Elevation on	12/18/1996	22.07	671.57	-0.16	37.64	656.00	-0.09
March 17, 1998	5/28/1997	21.51	672.13	0.56	37.63	656.01	-0.10
693.46' MSL	11/19/1997	25.05	668.59	-3.54	37.70	655.94	-0.03
	5/12/1998	23.80	669.66	NA	37.69	655.77	-0.04
	11/3/1998	23.79	669.67	0.01	37.70	655.76	-0.03
	6/28/1999	23.27	670.19	0.52	37.64	655.82	-0.09
	11/30/1999	25.04	668.42	-1.77	37.64	655.82	-0.09
	5/16/2000	25.00	668.46	0.04	37.63	655.83	-0.10
	11/13/2000	24.39	669.07	0.61	37.72	655.74	-0.01
	5/30/2001	24.22	669.24	0.17	37.65	655.81	-0.08
	11/23/2001	22.33	671.13	1.89	37.72	655 74	-0.01
	5/29/2002	18.53	674.93	3.80	37.69	655.77	-0.04
	11/21/2002	22.60	670.86	-4.07	37.70	655.76	-0.03
	5/20/2003	21.18	672.28	1.42	37.66	655.80	-0.07
	11/18/2003	20.73	672.73	0.45	37.66	655.80	-0.07
	5/24/2004	20.45	673.01	0.24	37.69	655.70	-0.04
	11/11/2004	21.20	672.26	-0.75	37.69	655.70	-0.04
	5/10/2005	19.71	673.75	1.49	37.70	655.76	-0.03
	11/9/2005	21.97	671.49	-2.26	37.63	655.83	-0.10
	5/17/2006	22.51	670.95	-0.54	37.67	655.79	-0.06
	11/8/2006	20.67	672.79	1.84	37.67	655.79	-0.06
	5/16/2007	18.47	674.99	2.20	37.48	655.98	-0.25
	11/15/2007	21.48	671.98	-3.01	37.67	655.79	-0.06
	5/13/2008	19.42	674.04	2.06	37.42	656.04	-0.31
	11/6/2008	20.53	672.93	-1.11	37.68	655.78	-0.05
	5/13/2009	18.93	674.53	1.60	37.66	655.80	-0.07
	11/23/2009	20.30	673.16	-1.37	37.69	655.77	-0.04
	6/3/2010	19.60	673.86	0.70	37.70	655.76	-0.01
	10/20/2010	20.73	672.73	-1.13	37.62	655.84	0.08
	5/31/2011	17.44	676.02	3.29	37.54	655.92	0.08
	11/4/2011	21.15	672.31	-3.71	37.59	655.87	-0.05
MW-207A	6/28/1994	42.44	655.00	NA	NA	NA	NA
	7/7/1994	NA	NA	NA	NA	NA	NA
	7/20/1994	41.74	655.70	NA	NA	NA	NA
Top of Casing Elev.	7/27/1994	41.61	655.83	0.13	NA	NA	NA
697.44' MSL	8/10/1994	41.47	655.97	0.14	NA	NA	NA
	8/22/1994	41.32	656.12	0.15	NA	NA	NA
	9/1/1994	41.21	656.23	0.11	NA	NA	NA
	9/8/1994	41.12	656.32	0.09	NA	NA	NA
As-Built Total Depth	9/15/1994	41.07	656.37	0.05	NA	NA	NA
from Top of Casing	9/20/1994	41.00	656.44	0.07	NA	NA	NA
43.58'	9/29/1994	40.64	656.80	0.36	NA	NA	NA
	10/7/1994	40.84	656.60	-0.20	NA	NA	NA
	10/13/1994	40.82	656.62	0.02	NA	NA	NA
	10/26/1994	40.71	656.73	0.11	NA	NA	NA
	11/2/1994	40.64	656.80	0.07	NA	NA	NA
	6/29/1995	39.13	658.31	1.51	NA	NA	NA
	1/31/1996	38.34	659.10	0.79	NA	NA	NA
	6/26/1996	37.80	659.64	0.54	NA	NA	NA
Reestablished Top of	12/18/1996	38.09	659.35	-0.29	43.57	653.87	-0.01
Casing Elevation on	5/28/1997	37.28	660.16	0.81	43.58	653.86	0.00
March 17, 1998	11/19/1997	36.92	660.52	0.36	43.54	653.90	-0.04
697.22' MSL	5/12/1998	36.68	660.54	NA	43.57	653.65	-0.01
	11/3/1998	39.33	657.89	-2.65	43.58	653.64	0.00

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	6/28/1999	38.92	658.30	0.41	43.56	653.66	-0.02
	11/30/1999	38.32	658.90	0.60	43.57	653.65	-0.01
	5/16/2000	37.95	659.27	0.37	43.55	653.67	-0.03
	11/13/2000	39.49	657.73	-1.54	43.58	653.64	0.00
	5/30/2001	40.29	656.93	-0.80	43.58	653.64	0.00
	11/23/2001	39.71	657.51	0.58	43.58	653.64	0.00
	5/29/2002	38.89	658.33	0.82	43.57	653.65	-0.01
	11/21/2002	38.41	658.81	0.48	43.57	653.65	-0.01
	5/20/2003	37.94	659.28	0.47	43.58	653.64	0.00
	11/18/2003	39.35	657.87	-1.41	43.57	653.65	-0.01
	5/24/2004	38.53	658.69	0.82	43.56	653.66	-0.02
	11/11/2004	38.08	659.14	0.45	43.56	653.66	-0.02
	5/10/2005	37.34	659.88	0.74	43.56	653.66	-0.02
	11/9/2005	38.44	658.78	-1.10	43.56	653.66	-0.02
	5/17/2006	37.61	659.61	0.83	43.57	653.65	-0.01
	11/8/2006	37.15	660.07	0.46	43.55	653.67	-0.03
	5/16/2007	36.45	660.77	0.70	43.33	653.89	-0.25
	11/15/2007	36.12	661.10	0.33	43.57	653.65	-0.01
	5/13/2008	35.34	661.88	0.78	43.31	653.91	-0.27
	11/6/2008	35.97	661.25	-0.63	43.58	653.64	0.00
	5/13/2009	35.23	661.99	0.74	43.56	653.66	-0.02
	11/23/2009	34.73	662.49	0.50	43.53	653.69	-0.05
	6/3/2010	34.18	663.04	0.55	43.60	653.62	-0.07
	10/21/2010	33.80	663.42	0.38	40.67	656.55	2.93
	2/24/2011	33.53	663.69	0.27	43.45	653.77	0.15
	5/31/2011	33.17	664.05	0.36	43.43	653.79	0.02
	11/4/2011	33.90	663.32	-0.73	43.46	653.76	-0.03
MW-207B	6/28/1994	23.10	670.80	NA	NA	NA	NA
	7/7/1994	23.09	670.81	0.01	NA	NA	NA
	7/20/1994	23.21	670.69	-0.12	NA	NA	NA
Top of Casing Elev.	7/27/1994	23.35	670.55	-0.14	NA	NA	NA
693.90' MSL	8/10/1994	23.65	670.25	-0.30	NA	NA	NA
	8/22/1994	23.82	670.08	-0.17	NA	NA	NA
	9/1/1994	23.91	669.99	-0.09	NA	NA	NA
As-Built Total Depth	9/8/1994	23.94	669.96	-0.03	NA	NA	NA
from Top of Casing	9/15/1994	24.07	669.83	-0.13	NA	NA	NA
38.87'	9/20/1994	24.18	669.72	-0.11	NA	NA	NA
	9/29/1994	24.27	669.63	-0.09	NA	NA	NA
	10/7/1994	24.41	669.49	-0.14	NA	NA	NA
	10/13/1994	24.54	669.36	-0.13	NA	NA	NA
	10/26/1994	24.79	669.11	-0.25	NA	NA	NA
	11/2/1994	24.88	669.02	-0.09	NA	NA	NA
	6/29/1995	24.52	669.38	0.36	NA	NA	NA
	1/31/1996	25.71	668.19	-1.19	NA	NA	NA
	6/26/1996	22.41	671.49	3.30	NA	NA	NA
Reestablished Top of	12/18/1996	22.51	671.39	-0.10	38.90	655.00	0.03
Casing Elevation on	5/28/1997	21.87	672.03	0.64	38.86	655.04	-0.01
March 17, 1998	11/19/1997	25.57	668.33	-3.70	38.92	654.98	0.05
693.72' MSL	5/12/1998	24.23	669.49	NA	38.90	654.82	0.03
	11/3/1998	24.26	669.46	-0.03	38.81	654.91	-0.06
	6/28/1999	23.75	669.97	0.31	38.84	654.88	-0.03
	11/30/1999	25.54	668.18	-1.79	38.82	654.90	-0.05
	5/16/2000	25.35	668.37	0.19	38.80	654.92	-0.07
	11/13/2000	24.79	668.93	0.56	38.87	654.85	0.00
	5/30/2001	24.71	669.01	0.08	38.87	654.85	0.00
	11/23/2001	22.67	671.05	2.04	38.85	654.87	-0.02
	5/29/2002	18.88	674.84	3.79	38.87	654.85	0.00
	11/21/2002	22.03	670.69	-4.15	38.87	654.85	0.00
	5/20/2003	21.62	672.10	1.41	38.74	654.98	-0.13
	11/18/2003	21.04	672.68	0.58	38.72	655.00	-0.15
	5/24/2004	20.02	673.70	1.02	38.84	654.88	-0.03
	11/11/2004	21.55	672.17	-1.53	38.84	654.88	-0.03

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WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	5/10/2005	20.73	672.99	0.82	38.81	654.91	-0.06
	11/9/2005	20.02	673.70	0.71	38.81	654.91	-0.06
	5/17/2006	21.80	671.92	-1.78	38.80	654.92	-0.07
	11/8/2006	21.06	672.66	0.74	38.82	654.90	-0.05
	5/16/2007	18.77	674.95	2.29	38.58	655.14	-0.29
	11/15/2007	21.86	671.86	-3.09	38.81	654.91	-0.06
	5/13/2008	19.31	674.41	2.55	38.57	655.15	-0.30
	11/6/2008	20.93	672.79	-1.62	38.83	654.89	-0.04
	5/13/2009	19.18	674.54	1.75	38.80	654.92	-0.07
	11/23/2009	20.61	673.11	-1.43	38.75	654.97	-0.12
	6/3/2010	19.95	673.77	0.66	38.85	654.87	-0.10
	10/6/2010	20.73	672.99	-0.78	38.73	654.99	0.12
	5/31/2011	17.66	676.06	3.07	38.65	655.07	0.08
	11/4/2011	21.38	672.34	-3.72	38.65	655.07	0.00
MW-208A	6/28/1994	38.98	655.27	NA	NA	NA	NA
	7/7/1994	38.77	655.48	0.21	NA	NA	NA
	7/20/1994	38.51	655.74	0.26	NA	NA	NA
Top of Casing Elev.	7/27/1994	38.41	655.84	0.10	NA	NA	NA
694.25' MSL	8/10/1994	38.23	656.02	0.18	NA	NA	NA
	8/22/1994	38.10	656.15	0.13	NA	NA	NA
	9/1/1994	38.04	656.21	0.06	NA	NA	NA
	9/8/1994	37.91	656.34	0.13	NA	NA	NA
As-Built Total Depth	9/15/1994	37.83	656.42	0.08	NA	NA	NA
from Top of Casing	9/20/1994	37.78	656.47	0.05	NA	NA	NA
40.76'	9/29/1994	37.68	656.57	0.10	NA	NA	NA
	10/7/1994	37.65	656.60	0.03	NA	NA	NA
	10/13/1994	37.56	656.69	0.09	NA	NA	NA
	10/26/1994	37.47	656.78	0.09	NA	NA	NA
	11/2/1994	37.43	656.82	0.04	NA	NA	NA
	6/29/1995	36.42	657.83	1.01	NA	NA	NA
	1/31/1996	35.63	658.62	0.79	NA	NA	NA
Reestablished Top of	6/26/1996	35.08	659.17	0.55	NA	NA	NA
Casing Elevation on	12/18/1996	35.38	658.87	-0.30	40.76	653.49	-0.01
March 17, 1998	5/28/1997	34.59	659.66	0.79	40.75	653.50	-0.02
694.50' MSL	11/19/1997	34.20	660.05	0.39	40.75	653.50	-0.02
	5/12/1998	32.47	662.03	NA	40.77	653.73	0.01
	11/3/1998	36.39	658.11	-3.92	40.47	654.03	-0.29
	6/28/1999	35.87	658.63	0.52	40.77	653.73	0.01
	11/30/1999	35.60	658.90	0.27	40.75	653.75	-0.01
	5/16/2000	35.28	659.22	0.32	40.75	653.75	-0.01
	11/13/2000	36.72	657.78	-1.44	40.75	653.75	-0.01
	5/30/2001	37.54	656.96	-0.82	40.75	653.75	-0.01
	11/23/2001	36.95	657.55	0.59	40.75	653.75	-0.01
	5/29/2002	36.15	658.35	0.80	40.76	653.74	0.00
	11/21/2002	35.65	658.85	0.50	40.76	653.74	0.00
	5/20/2003	35.21	659.29	0.44	40.76	653.74	0.00
	11/18/2003	36.59	657.91	-1.38	40.76	653.74	0.00
	5/24/2004	36.44	658.06	0.15	40.75	653.75	-0.01
	11/11/2004	35.43	659.07	1.01	40.75	653.75	-0.01
	5/10/2005	35.34	659.88	0.81	40.72	653.78	-0.04
	11/9/2005	34.89	659.61	-0.27	40.71	653.79	-0.05

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WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
	5/17/2006	34.91	659.59	-0.02	40.75	653.75	-0.01
	11/8/2006	34.36	660.14	0.55	40.72	653.78	-0.04
	5/16/2007	33.69	660.81	0.67	40.50	654.00	-0.26
	11/15/2007	33.36	661.14	0.33	40.73	653.77	-0.03
	5/13/2008	32.57	661.93	0.79	40.51	653.99	-0.25
	11/6/2008	33.20	661.30	-0.63	40.73	653.77	-0.03
	5/13/2009	32.43	662.07	0.77	40.72	653.78	-0.04
	11/23/2009	31.96	662.54	0.47	40.72	653.78	-0.04
	6/3/2010	31.35	663.15	0.61	40.75	653.75	-0.03
	10/6/2010	31.00	663.50	0.35	40.67	653.83	0.08
	5/31/2011	30.38	664.12	0.62	40.56	653.94	0.11
	11/4/2011	31.12	663.38	-0.74	40.60	653.90	-0.04
MW-208B	6/28/1994	25.18	669.76	NA	NA	NA	NA
	7/7/1994	25.12	669.82	0.06	NA	NA	NA
	7/20/1994	25.19	669.75	-0.07	NA	NA	NA
Top of Casing Elev.	7/27/1994	25.42	669.52	-0.23	NA	NA	NA
694.94' MSL	8/10/1994	25.78	669.16	-0.36	NA	NA	NA
	8/22/1994	25.76	669.18	0.02	NA	NA	NA
	9/1/1994	25.88	669.06	-0.12	NA	NA	NA
	9/8/1994	25.88	669.06	0.00	NA	NA	NA
As-Built Total Depth	9/15/1994	25.02	669.92	0.86	NA	NA	NA
from Top of Casing	9/20/1994	26.17	668.77	-1.15	NA	NA	NA
39.28'	9/29/1994	25.72	669.22	0.45	NA	NA	NA
	10/7/1994	26.50	668.44	-0.78	NA	NA	NA
	10/13/1994	26.52	668.42	-0.02	NA	NA	NA
	10/26/1994	26.85	668.09	-0.33	NA	NA	NA
	11/2/1994	28.06	666.88	-1.21	NA	NA	NA
	6/29/1995	26.39	668.55	1.67	NA	NA	NA
	1/31/1996	27.62	667.32	-1.23	NA	NA	NA
Reestablished Top of	6/26/1996	24.33	670.61	3.29	NA	NA	NA
Casing Elevation on	12/18/1996	24.30	670.64	0.03	39.25	655.69	-0.03
March 17, 1998	5/28/1997	23.60	671.34	0.70	39.28	655.66	0.00
694.72' MSL	11/19/1997	28.56	666.38	-4.96	39.38	655.56	0.10
	5/12/1998	23.62	671.10	NA	39.26	655.46	-0.02
	11/3/1998	26.50	668.22	-2.88	39.26	655.46	-0.02
	6/28/1999	25.83	668.89	0.67	39.24	655.48	-0.04
	11/30/1999	27.53	667.19	-1.70	39.20	655.52	-0.08
	5/16/2000	27.65	667.07	-0.12	39.27	655.45	-0.01
	11/13/2000	27.13	667.59	0.52	39.24	655.48	-0.04
	5/30/2001	26.74	667.98	0.39	39.25	655.47	-0.03
	11/23/2001	23.75	670.97	2.99	39.25	655.47	-0.03
	5/29/2002	20.57	674.15	3.18	39.27	655.45	-0.01
	11/21/2002	25.16	669.56	-4.59	39.25	655.47	-0.03
	5/20/2003	23.32	671.40	1.84	39.24	655.48	-0.04
	11/18/2003	22.59	672.13	0.73	39.24	655.48	-0.04
	5/24/2004	22.35	672.37	0.24	39.24	655.48	-0.04
	11/11/2004	23.39	671.32	-1.05	39.25	655.47	-0.03
	5/10/2005	21.73	672.99	1.67	39.27	655.45	-0.01
	11/9/2005	23.98	670.74	-2.25	39.23	655.49	-0.05
	5/17/2006	21.52	673.20	2.46	39.25	655.47	-0.03
	11/8/2006	22.54	672.18	-1.02	39.25	655.47	-0.03
	5/16/2007	20.47	674.25	2.07	38.98	655.74	-0.30
	11/15/2007	23.65	671.07	-3.18	39.22	655.50	-0.06
	5/13/2008	20.86	673.86	2.79	38.88	655.84	-0.30
	11/6/2008	22.84	671.88	-1.98	39.24	655.48	-0.04
	5/13/2009	20.52	674.20	2.32	39.24	655.48	-0.04
	11/23/2009	22.31	672.41	-1.79	39.25	655.47	-0.03
	6/3/2010	21.72	673.00	0.59	39.23	655.49	0.02
	10/6/2010	22.56	672.16	-0.84	39.19	655.53	0.04
	5/31/2011	19.11	675.61	3.45	39.51	655.21	-0.32
	11/4/2011	22.65	672.07	-3.54	39.10	655.62	0.41

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WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
MW-200C	2/3/1999	30.58	666.23	NA	88.38	608.43	AS-BUILT
	11/30/1999	36.39	660.42	-3.92	88.38	608.43	0.00
	5/16/2000	36.29	660.52	0.10	88.37	608.44	-0.01
	11/13/2000	35.39	661.42	0.90	88.41	608.40	0.03
Top of Casing Elev.	5/30/2001	34.14	662.67	1.25	88.30	608.51	-0.08
696.81' MSL	11/23/2001	32.49	664.32	1.65	88.38	608.43	0.00
	5/29/2002	28.81	668.00	3.68	88.35	608.46	-0.03
	11/21/2002	32.46	664.35	-3.65	88.36	608.45	-0.02
As-Built Total Depth	5/20/2003	30.54	666.27	1.92	88.29	608.52	-0.09
from Top of Casing	11/18/2003	28.98	667.83	1.56	88.30	608.51	-0.08
88.38'	5/24/2004	30.11	666.70	-1.13	88.38	608.43	0.00
	11/11/2004	29.76	667.05	0.35	88.38	608.43	0.00
	5/10/2005	31.98	664.83	-2.22	88.28	608.53	-0.10
	11/9/2005	30.26	666.55	1.72	88.36	608.45	-0.02
	5/17/2006	29.41	667.40	0.85	88.30	608.51	-0.08
	11/8/2006	27.27	669.54	2.14	88.27	608.54	-0.11
	5/16/2007	27.53	669.28	-0.26	88.12	608.69	-0.26
	11/15/2007	30.13	666.68	-2.60	88.13	608.68	-0.25
	5/13/2008	27.43	669.38	2.70	88.02	608.79	-0.36
	11/6/2008	29.83	666.98	-2.40	88.15	608.66	-0.23
	5/13/2009	26.45	670.36	3.38	88.30	608.51	-0.08
	11/23/2009	27.85	668.96	-1.40	88.29	608.52	-0.09
	6/3/2010	27.18	669.63	0.67	88.28	608.53	0.01
	10/6/2010	28.57	668.24	-1.39	82.80	614.01	5.48
	2/24/2011	29.11	667.70	-0.54	88.33	608.48	-0.05
	5/31/2011	26.79	670.02	2.32	NM	NM	NM
	11/4/2011	28.66	668.15	-1.87	88.40	608.41	-0.07
MW-202C	2/3/1999	25.34	666.66	NA	77.01	615.13	AS-BUILT
	6/28/1999	27.10	664.90	-1.76	77.00	615.14	0.01
	11/30/1999	31.04	660.96	-3.94	76.91	615.23	-0.10
	5/16/2000	31.32	660.82	-0.28	77.01	615.13	0.00
Top of Casing Elev.	11/13/2000	31.82	660.32	0.50	77.01	615.13	0.00
692.14' MSL	5/30/2001	30.28	661.86	1.54	76.99	615.15	-0.02
	11/23/2001	28.43	663.71	1.85	77.01	615.13	0.00
	5/29/2002	24.84	667.30	3.59	77.02	615.12	0.01
As-Built Total Depth	11/21/2002	28.60	663.54	-3.76	77.00	615.14	-0.01
from Top of Casing	5/20/2003	26.65	665.49	1.95	77.00	615.14	-0.01
77.01'	11/18/2003	24.22	667.92	2.43	76.99	615.15	-0.02
	5/24/2004	26.33	665.81	-2.11	76.99	615.15	-0.02
	11/11/2004	25.85	666.29	0.48	76.99	615.15	-0.02
	5/10/2005	24.19	667.95	1.66	77.00	615.14	-0.01
	11/9/2005	26.29	665.85	-2.30	76.98	615.16	-0.03
	5/17/2006	23.73	668.41	2.56	77.00	615.14	-0.01
	11/8/2006	22.69	669.55	1.04	76.98	615.16	-0.03
	5/16/2007	23.67	668.47	-1.08	76.62	615.52	-0.39
	11/15/2007	26.10	666.04	-2.43	76.64	615.50	-0.37
	5/13/2008	23.42	668.72	2.68	76.76	615.38	-0.25
	11/6/2008	25.62	666.52	-2.20	76.65	615.49	-0.36
	5/13/2009	22.31	669.83	3.31	76.99	615.15	-0.02
	11/23/2009	23.50	668.64	-1.19	76.98	615.15	-0.03
	6/3/2010	22.61	669.53	0.89	77.00	615.14	-0.01
	10/6/2010	23.64	668.50	-1.03	77.08	615.06	-0.08
	5/31/2011	22.89	669.25	0.75	77.40	614.74	-0.32
	11/4/2011	24.27	667.87	-1.38	76.65	615.49	0.75

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 1. Monitoring Well and Groundwater Data, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

WELL NO	DATE	DEPTH TO GROUNDWATER (FEET)	GROUNDWATER ELEVATION (FEET MSL)	GROUNDWATER ELEVATION CHANGE[1] (FEET)	TOTAL DEPTH (FEET)	BOTTOM OF WELL ELEVATION (FEET MSL)	DIFFERENCE FROM AS-BUILT TOTAL DEPTH (FEET)
MW-203C	2/3/1999	24.18	666.22	NA	80.91	609.49	AS-BUILT
	6/28/1999	26.48	663.92	-2.30	80.90	609.50	-0.01
	11/30/1999	30.42	659.98	-3.94	80.91	609.49	0.00
	5/16/2000	30.49	659.91	-0.07	80.91	609.49	0.00
Top of Casing Elev.	11/13/2000	29.21	661.19	1.28	80.91	609.49	0.00
690.40' MSL	5/30/2001	27.33	663.07	1.88	80.91	609.49	0.00
	11/23/2001	26.03	664.37	1.30	80.90	609.50	-0.01
	5/29/2002	22.87	667.53	3.16	80.90	609.50	-0.01
As-Built Total Depth	11/21/2002	26.31	664.09	-3.44	80.89	609.51	-0.02
from Top of Casing	5/20/2003	24.39	666.01	1.92	80.90	609.50	-0.01
80.91'	11/18/2003	22.66	667.74	1.73	80.90	609.50	-0.01
	5/24/2004	24.13	666.27	-1.47	80.90	609.50	-0.01
	11/11/2004	23.66	666.74	0.47	80.90	609.50	-0.01
	5/10/2005	23.56 .	666.84	0.10	80.90	609.50	-0.01
	11/9/2005	24.15	666.25	-0.59	80.90	609.50	-0.01
	5/17/2006	22.67	667.73	1.48	80.91	609.49	0.00
	11/8/2006	21.11	669.29	1.56	80.90	609.50	-0.01
	5/16/2007	21.38	669.02	-0.27	80.68	609.72	-0.23
	11/15/2007	23.88	666.52	-2.50	80.67	609.73	-0.24
	5/13/2008	21.19	669.21	2.69	80.67	609.73	-0.24
	11/6/2008	23.41	666.99	-2.22	80.65	609.75	-0.26
	5/13/2009	20.56	669.84	2.85	80.90	609.50	-0.01
	11/23/2009	21.91	668.49	-1.35	80.91	609.49	0.00
	6/3/2010	21.11	669.29	0.80	80.95	609.45	-0.04
	10/6/2010	22.02	668.38	-0.91	81.01	609.39	-0.06
	5/31/2011	20.59	669.81	1.43	71.68	618.72	9.33
	11/4/2011	22.58	667.82	-1.99	80.85	609.55	-9.17

NOTES:

MSL- Mean Sea Level

Elev. - Elevation

Transcription error in field or data entry.

Incorrect calculated value due to transcription error.

[1] Groundwater Elevation change is calculated from the current events groundwater elevation subtracting the previous event's groundwater elevation (for example November 4, - May 31, 2011).

Note: Groundwater and bottom of well elevations after 5/12/98 are calculated with reference to the reestablished top of casing elevation

Table 2. Summary of Groundwater Elevations, Head Differences and Rise Rates, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

DATE	MW 201A	MW 201B	MW 202A	MW 202B	MW 202C	MW 203A	MW 203B	MW 203C	MW 204A	MW 204B	MW 205A	MW 205B	MW 206A	MW 206B	MW 200C	MW 207A	MW 207B	MW 200C	MW 208A	MW 208B
6/28/1994	NA	668.02	655.53	666.32		657.50	668.24		665.09	670.47	654.81	670.99	659.02	670.95		655.00	670.80		655.27	669.76
7/7/1994	NA	668.29	655.56	666.86		657.36	668.28		655.47	670.39	655.47	671.00	NA	670.95		NA	670.81		655.48	669.82
7/20/1994	NA	668.22	654.80	666.68		657.02	668.16		655.47	670.37	NA	670.86	NA	670.86		655.70	670.69		655.74	669.75
7/27/1994	655.86	668.22	NA	666.30		NA	668.88		654.25	670.10	655.78	670.74	NA	670.72		655.83	670.55		655.84	669.52
8/10/1994	656.00	667.58	NA	666.06		NA	667.59		655.99	669.80	655.86	670.45	NA	670.43		655.97	670.25		656.02	669.16
8/22/1994	656.16	667.50	NA	665.96		656.86	667.40		656.18	669.58	656.06	670.25	NA	670.25		656.12	670.08		656.15	669.18
9/1/1994	656.27	667.44	NA	665.77		656.86	667.30		656.25	668.52	656.16	670.20	NA	670.17		656.23	669.99		656.21	669.06
9/8/1994	656.35	667.69	656.38	666.02		656.86	667.37		656.35	669.46	656.24	670.08	656.35	670.11		656.32	669.96		656.34	669.06
9/15/1994	656.41	669.28	656.43	665.62		NA	667.08		656.41	669.36	656.31	670.00	656.42	670.01		656.37	669.83		656.42	669.92
9/20/1994	656.46	669.28	656.50	665.46		NA	666.94		656.45	669.19	656.36	669.90	NA	669.89		656.44	669.72		656.47	668.77
9/29/1994	656.54	667.00	656.59	665.48		NA	666.78		656.54	669.14	656.45	669.79	656.55	669.80		656.80	669.63		656.57	669.22
10/7/1994	656.64	666.82	656.66	665.26		NA	666.78		656.54	669.02	656.53	669.67	656.63	669.67		656.60	669.49		656.60	668.44
10/13/1994	656.66	666.98	656.68	665.16		NA	666.74		656.69	668.98	656.57	669.60	656.64	669.57		656.62	669.36		656.69	668.42
10/26/1994	656.76	666.47	656.81	664.90		NA	666.64		656.77	669.76	656.68	669.41	656.80	669.37		656.73	669.11		656.78	668.09
11/2/1994	656.84	666.52	656.85	664.96		NA	666.64		656.83	668.66	656.76	669.27	656.88	669.21		656.80	669.02		656.82	666.88
6/29/1995	657.34	667.08	658.31	665.59		658.33	667.16		658.31	669.19	658.28	669.64	658.34	669.56		658.31	669.38		657.83	668.55
1/31/1996	657.14	665.95	659.08	664.84		659.14	666.64		659.09	668.34	659.08	668.65	659.14	668.49		659.10	668.19		658.62	667.32
6/26/1996	658.69	669.14	659.65	667.50		659.70	669.08		659.67	671.21	659.64	671.81	659.70	671.73		659.64	671.49		659.17	670.61
12/18/1996	658.38	669.31	659.35	667.84		659.40	668.90		659.36	670.92	659.34	671.58	659.38	671.57		659.35	671.39		658.87	670.64
5/28/1997	659.21	670.02	660.12	668.41		660.20	669.32		660.17	671.31	660.15	672.08	660.19	672.13		660.16	672.03		659.66	671.34
11/19/1997	659.93	665.74	660.51	663.79		660.57	665.32		660.52	665.95	660.52	668.68	660.57	668.59		660.52	668.33		660.05	666.38
5/12/1998	660.86	667.60	661.11	666.55		660.66	668.77		661.43	670.01	659.28	669.76	662.52	669.66		660.54	669.49		662.03	671.10
11/3/1998	657.25	667.01	658.68	665.67		658.21	668.31		658.22	669.77	656.71	669.72	658.77	669.67		657.89	669.46		658.11	668.22
6/28/1999	657.32	666.92	659.00	665.71	664.90	658.50	668.93	663.92	658.84	670.39	657.49	670.29	659.51	670.19		658.30	669.97		658.63	668.89
11/30/1999	658.82	665.46	659.26	664.11	660.96	658.82	667.26	659.98	659.33	668.68	657.77	668.70	659.82	668.42	660.42	658.90	668.18	660.42	658.90	667.19
5/16/2000	659.09	665.55	659.69	663.63	660.82	659.21	667.12	659.91	659.49	668.82	658.15	668.80	660.00	668.46	660.52	659.27	668.37	660.52	659.22	667.07
11/13/2000	657.70	665.34	658.14	663.54	660.32	657.71	667.22	661.19	657.99	669.22	656.64	669.22	659.69	669.07	661.42	657.73	668.93	661.42	657.78	667.59
5/30/2001	656.88	665.99	657.31	664.53	661.86	656.86	667.92	663.07	657.17	669.46	655.82	669.40	657.88	669.24	662.67	656.93	669.01	662.67	656.96	667.98
11/23/2001	657.45	668.09	657.90	666.70	663.71	657.44	669.84	664.37	657.77	671.21	656.40	671.19	658.46	671.13	664.32	657.51	671.05	664.32	657.55	670.97
5/29/2002	658.27	672.34	658.70	670.70	667.30	658.25	673.70	667.53	658.56	674.77	657.21	676.10	659.27	674.93	668.00	658.33	674.84	668.00	658.35	674.15
11/21/2002	658.72	667.52	659.21	666.01	663.54	658.75	669.16	664.09	659.06	670.99	657.70	670.91	659.76	670.86	664.35	658.81	670.69	664.35	658.85	669.56
5/20/2003	659.20	669.87	659.81	668.22	665.49	659.26	670.98	666.01	659.51	672.77	658.16	672.18	660.45	672.28	666.27	659.28	672.10	666.27	659.29	671.40
11/18/2003	657.83	670.32	658.26	668.63	667.92	657.78	670.97	667.74	658.10	672.39	656.75	672.61	658.85	672.73	667.83	657.87	672.68	667.83	657.91	672.13
5/24/2004	657.21	670.33	659.17	668.88	665.81	658.62	671.52	666.27	658.93	672.84	657.57	672.98	659.80	673.01	666.70	658.69	673.70	666.70	658.06	672.37
11/11/2004	659.07	669.62	659.52	668.26	666.29	659.09	670.80	666.74	659.38	672.10	659.02	672.23	660.08	672.26	667.05	659.14	672.17	667.05	659.07	671.32
5/10/2005	659.16	672.55	659.60	670.32	667.95	659.86	671.03	666.84	659.45	674.13	658.82	673.53	660.81	673.75	664.83	659.88	672.99	664.83	659.81	672.99
11/9/2005	658.72	669.29	659.17	667.87	665.85	658.74	670.22	666.25	659.05	671.34	657.69	671.44	658.74	671.49	666.55	658.78	673.70	666.55	659.61	670.74
5/17/2006	659.54	671.66	660.02	670.29	668.41	659.96	669.63	667.73	659.84	670.72	659.01	670.90	660.56	670.95	667.40	659.61	671.92	667.40	659.59	673.20
11/8/2006	660.00	670.66	660.46	669.55	669.55	660.01	672.03	669.29	660.29	672.70	659.12	672.77	660.04	672.79	669.54	660.07	672.66	669.54	660.14	672.18
5/16/2007	660.72	672.72	661.15	671.28	668.47	660.73	673.53	669.02	661.02	674.72	659.66	674.91	661.72	674.99	669.28	660.77	674.95	669.28	660.81	674.25
11/15/2007	661.14	669.55	661.48	668.54	666.04	661.07	670.98	666.52	661.37	671.99	659.99	672.01	662.04	671.98	666.68	661.10	671.86	666.68	661.14	671.07
5/13/2008	661.79	672.43	662.27	671.36	668.72	662.23	673.53	669.21	662.11	674.34	660.76	674.42	662.80	674.04	669.38	661.88	674.41	669.38	661.93	673.86
11/6/2008	661.19	670.20	661.64	669.10	666.52	661.19	671.75	666.99	661.50	672.86	660.13	672.95	662.20	672.93	666.98	661.25	672.79	666.98	661.30	671.88
5/13/2009	661.90	672.97	662.38	671.88	669.83	661.93	673.79	669.84	662.23	674.43	660.87	674.47	662.93	674.53	670.36	661.99	674.54	670.36	662.07	674.20
11/23/2009	662.42	670.98	662.87	669.70	668.64	662.43	671.87	668.49	662.72	672.96	661.36	673.13	663.42	673.16	668.96	662.49	673.11	668.96	662.54	672.41
6/3/2010	663.06	671.31	663.48	670.13	669.53	663.06	672.48	669.29	663.34	673.70	661.99	673.87	664.05	673.86	669.63	663.04	673.77	669.63	663.15	673.00
10/6/2010	663.39	670.69	663.77	669.71	668.50	663.33	671.84	668.38	663.67	672.64	662.34	673.09	664.32	672.73	668.24	663.42	672.99	668.24	663.50	672.16
5/31/2011	663.98	674.25	664.41	672.90	669.25	664.00	674.94	669.81	664.29	675.85	662.93	675.95	664.98	676.02	670.02	664.05	676.06	670.02	664.12	675.61
11/4/2011	664.31	670.91	664.78	669.78	668.25	664.35	672.04	668.05	664.64	673.16	663.32	673.27	665.32	673.26	669.26	664.37	673.20	669.26	664.42	672.52

Table 2. Summary of Groundwater Elevations, Head Differences and Rise Rates, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

DATE	MW 201A	MW 201B	MW 202A	MW 202B	MW 202C	MW 203A	MW 203B	MW 203C	MW 204A	MW 204B	MW 205A	MW 205B	MW 206A	MW 206B	MW 200C	MW 207A	MW 207B	MW 200C	MW 208A	MW 208B
Head Difference Between Outside and Inside Cutoff Wall, (5/31/11)	-10.27		-8.49			-10.94			-11.56		-13.02		-11.04			-12.01			-11.49	
Head Difference Between Outside and Inside Cutoff Wall, (11/4/11)	-6.60		-5.00			-7.69			-8.52		-9.95		-7.94			-8.83			-8.10	
Head Difference Between Lower Sand and Gravel and Inside Cutoff Wall (5/31/11)					-4.84			-5.81							-5.04			-5.97		
Head Difference Lower Sand and Gravel and Inside Cutoff Wall (11/4/11)					-3.47			-3.70							-3.94			-4.89		
Rise Rate* (ft/day)	0.00234		0.00256			0.00259			0.00246		0.00249		0.00254			0.00241			0.00234	

Average GW Elevation Inside Cap on 5/31/11 (ft)	664.10	Average Groundwater Elevation Inside Cap on 11/4/11 (ft)	664.44
Average GW Elevation Outside Cap (Shallow Unit) on 5/31/11 (ft)	675.20	Average GW Elev. Outside Cap (Shallow Unit) on 11/4/11 (ft)	672.27
Average GW Elevation Outside Cap (Lower S&G) on 5/31/11 (ft)	669.69	Average GW Elev. Outside Cap (Lower S&G) on 11/4/11 (ft)	668.52
Average Head Diff. Across the Cutoff Wall (Shallow Unit) on 5/31/11 (ft)	-11.10	Average Head Diff. Across Cutoff Wall (Shallow Unit) on 11/4/11 (ft)	-7.83
Average Vertical Hydraulic Gradient on 5/31/11 (ft)	-5.23	Average Vertical Hydraulic Gradient on11/4/11 (ft)	-3.70
Average Rise Rate (ft/day)	0.00247		

* Rise Rate calculation based on 'A' series elevation differences between November 4, 2011 and October 6, 2010.

Table 3. Rise Rate Versus Time, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

DATE	MW 201A	MW 201B	MW 202A	MW 202B	MW 203A	MW 203B	MW 204A	MW 204B	MW 205A	MW 205B	MW 206A	MW 206B	MW 207A	MW 207B	MW 208A	MW 208B
6/28/1994	NA	668.02	655.53	666.32	657.50	668.24	665.09	670.47	654.81	670.99	659.02	670.95	655.00	670.80	655.27	669.76
7/7/1994	NA	668.29	655.56	666.86	657.36	668.28	655.47	670.39	655.47	671.00	NA	670.95	NA	670.81	655.48	669.82
7/20/1994	NA	668.22	654.80	666.68	657.02	668.16	655.47	670.37	NA	670.86	NA	670.86	655.70	670.69	655.74	669.75
7/27/1994	655.86	668.22	NA	666.30	NA	668.88	654.25	670.10	655.78	670.74	NA	670.72	655.83	670.55	655.84	669.52
8/10/1994	656.00	667.58	NA	666.06	NA	667.59	655.99	669.80	655.86	670.45	NA	670.43	655.97	670.25	656.02	669.16
8/22/1994	656.16	667.50	NA	665.96	656.86	667.40	656.18	669.58	656.06	670.25	NA	670.25	656.12	670.08	656.15	669.18
9/1/1994	656.27	667.44	NA	665.77	656.86	667.30	656.25	668.52	656.16	670.20	NA	670.17	656.23	669.99	656.21	669.06
9/8/1994	656.35	667.69	656.38	666.02	656.86	667.37	656.35	669.46	656.24	670.08	656.35	670.11	656.32	669.96	656.34	669.06
9/15/1994	656.41	669.28	656.43	665.62	NA	667.08	656.41	669.36	656.31	670.00	656.42	670.01	656.37	669.83	656.42	669.92
9/20/1994	656.46	669.28	656.50	665.46	NA	666.94	656.45	669.19	656.36	669.90	NA	669.89	656.44	669.72	656.47	668.77
9/29/1994	656.54	667.00	656.59	665.48	NA	666.78	656.54	669.14	656.45	669.79	656.55	669.80	656.80	669.63	656.57	669.22
10/7/1994	656.64	666.82	656.66	665.26	NA	666.78	656.54	669.02	656.53	669.67	656.63	669.67	656.60	669.49	656.60	668.44
10/13/1994	656.66	666.98	656.68	665.16	NA	666.74	656.69	668.98	656.57	669.60	656.64	669.57	656.62	669.36	656.69	668.42
10/26/1994	656.76	666.47	656.81	664.90	NA	666.64	656.77	669.76	656.68	669.41	656.80	669.37	656.73	669.11	656.78	668.09
11/2/1994	656.84	666.52	656.85	664.96	NA	666.64	656.83	668.66	656.76	669.27	656.88	669.21	656.80	669.02	656.82	666.88
6/29/1995	657.34	667.08	658.31	665.59	658.33	667.16	658.31	669.19	658.28	669.64	658.34	669.56	658.31	669.38	657.83	668.55
1/31/1996	657.14	665.95	659.08	664.84	659.14	666.64	659.09	668.34	659.08	668.65	659.14	668.49	659.10	668.19	658.62	667.32
6/26/1996	658.69	669.14	659.65	667.50	659.70	669.08	659.67	671.21	659.64	671.81	659.70	671.73	659.64	671.49	659.17	670.61
12/18/1996	658.38	669.31	659.35	667.84	659.40	668.90	659.36	670.92	659.34	671.58	659.38	671.57	659.35	671.39	658.87	670.64
5/28/1997	659.21	670.02	660.12	668.41	660.20	669.32	660.17	671.31	660.15	672.08	660.19	672.13	660.16	672.03	659.66	671.34
11/19/1997	659.93	665.74	660.51	663.79	660.57	665.32	660.52	665.95	660.52	668.68	660.57	668.59	660.52	668.33	660.05	666.38
5/12/1998	660.86	667.60	661.11	666.55	660.66	668.77	661.43	670.01	659.28	669.76	662.52	669.66	660.54	669.49	662.03	671.10
11/3/1998	657.25	667.01	658.68	665.67	658.21	668.31	658.22	669.77	656.71	669.72	658.77	669.67	657.89	669.46	658.11	668.22
6/28/1999	657.32	666.92	659.00	665.71	658.50	668.93	658.84	670.39	657.49	670.29	659.51	670.19	658.30	669.97	-658.63	668.89
11/30/1999	658.82	665.46	659.26	664.11	658.82	667.26	659.33	668.68	657.77	668.70	659.82	668.42	658.90	668.18	658.90	667.19
5/16/2000	659.09	665.55	659.69	663.63	659.21	667.12	659.49	668.82	658.15	668.80	660.00	668.46	659.27	668.37	659.22	667.07
11/13/2000	657.70	665.34	658.14	663.54	657.71	667.22	657.99	669.22	656.64	669.22	659.69	669.07	657.73	668.93	657.78	667.59
5/30/2001	656.88	665.99	657.31	664.53	656.86	667.92	657.17	669.46	655.82	669.40	657.88	669.24	656.93	669.01	656.96	667.98
11/23/2001	657.45	668.09	657.90	666.70	657.44	669.84	657.77	671.21	656.40	671.19	658.46	671.13	657.51	671.05	657.55	670.97

Table 3. Rise Rate Versus Time, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

DATE	MW 201A	MW 201B	MW 202A	MW 202B	MW 203A	MW 203B	MW 204A	MW 204B	MW 205A	MW 205B	MW 206A	MW 206B	MW 207A	MW 207B	MW 208A	MW 208B
5/29/2002	658.27	672.34	658.70	670.70	658.25	673.70	658.56	674.77	657.21	676.10	659.27	674.93	658.33	674.84	658.35	674.15
11/21/2002	658.72	667.52	659.21	666.01	658.75	669.16	659.06	670.99	657.70	670.91	659.76	670.86	658.81	670.69	658.85	669.56
5/20/2003	659.20	669.87	659.81	668.22	659.26	670.98	659.51	672.77	658.16	672.18	660.45	672.28	659.28	672.10	659.29	671.40
11/18/2003	657.83	670.32	658.26	668.63	657.78	670.97	658.10	672.39	656.75	672.61	658.85	672.73	657.87	672.68	657.91	672.13
5/24/2004	657.21	670.33	659.17	668.88	658.62	671.52	658.93	672.84	657.57	672.98	659.80	673.01	658.69	673.70	658.06	672.37
11/11/2004	659.07	669.62	659.52	668.26	659.09	670.80	659.38	672.10	659.02	672.23	660.08	672.26	659.14	672.17	659.07	671.32
5/10/2005	659.16	672.55	659.60	670.32	659.86	671.03	659.45	674.13	658.82	673.53	660.81	673.75	659.88	672.99	659.81	672.99
11/9/2005	658.72	669.29	659.17	667.87	658.74	670.22	659.05	671.34	657.69	671.44	658.74	671.49	658.78	673.70	659.61	670.74
5/17/2006	659.54	671.66	660.02	670.29	659.96	669.63	659.84	670.72	659.01	670.90	660.56	670.95	659.61	671.92	659.59	673.20
11/8/2006	660.00	670.66	660.46	669.55	660.01	672.03	660.29	672.70	659.12	672.77	660.04	672.79	660.07	672.66	660.14	672.18
5/16/2007	660.72	672.72	661.15	671.28	660.73	673.53	661.02	674.72	659.66	674.91	661.72	674.99	660.77	674.95	660.81	674.25
11/15/2007	661.14	669.55	661.48	668.54	661.07	670.98	661.37	671.99	659.99	672.01	662.04	671.98	661.1	671.86	661.14	671.07
5/13/2008	661.79	672.43	662.27	671.36	662.23	673.53	662.11	674.34	660.76	674.42	662.80	674.04	661.88	674.41	661.93	673.86
11/6/2008	661.19	670.20	661.64	669.10	661.19	671.75	661.50	672.86	660.13	672.95	662.20	672.93	661.25	672.79	661.30	671.88
5/13/2009	661.90	672.97	662.38	671.88	661.93	673.79	662.23	674.43	660.87	674.47	662.93	674.53	661.99	674.54	662.07	674.20
11/23/2009	662.42	670.98	662.87	669.70	662.43	671.87	662.72	672.96	661.36	673.13	663.42	673.16	662.49	673.11	662.54	672.41
6/3/2010	663.06	671.31	663.48	670.13	663.06	672.48	663.34	673.70	661.99	673.87	664.05	673.86	663.04	673.77	663.15	673.00
10/6/2010	663.39	670.69	663.77	669.71	663.33	671.84	663.67	672.64	662.34	673.09	664.32	672.73	663.42	672.99	663.50	672.16
5/31/2011	663.98	674.25	664.41	672.90	664.00	674.94	664.29	675.85	662.93	675.95	664.98	676.02	664.05	676.06	664.12	675.61
11/4/2011	664.31	670.91	664.78	669.78	664.35	672.04	664.64	673.16	663.32	673.27	665.32	673.26	664.37	673.20	664.42	672.52

Table 3. Rise Rate Versus Time, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

DATE	MW 201A	MW 201B	MW 202A	MW 202B	MW 203A	MW 203B	MW 204A	MW 204B	MW 205A	MW 205B	MW 206A	MW 206B	MW 207A	MW 207B	MW 208A	MW 208B
Rise Rate (ft/day)																
11/2/94 - 6/26/96	0.00307		0.00465		0.00377		0.00472		0.00478		0.00468		0.00472		0.00390	
12/18/96 - 5/12/98	0.00486		0.00345		0.00247		0.00406		0.00351		0.00616		0.00233		0.00620	
11/3/98 - 5/16/00	0.00329		0.00180		0.00179		0.00227		0.00257		0.00220		0.00246		0.00198	
5/30/01 - 5/20/03	0.00322		0.00347		0.00333		0.00325		0.00325		0.00357		0.00326		0.00324	
11/18/03 - 5/10/05	0.00247		0.00249		0.00386		0.00250		0.00384		0.00364		0.00373		0.00353	
11/9/05 - 5/13/08	0.00335		0.00338		0.00381		0.00334		0.00335		0.00443		0.00338		0.00253	
11/6/08 - 11/23/09	0.00322		0.00322		0.00325		0.00319		0.00322		0.00319		0.00325		0.00325	
11/23/09 - 10/6/10	0.00306		0.00284		0.00284		0.00300		0.00309		0.00284		0.00293		0.00303	
10/6/10 - 11/4/11	0.00234		0.00256		0.00259		0.00246		0.00249		0.00254		0.00241		0.00234	

Average Rise Rate	(ft/day)
11/2/94 - 6/26/96	0.00429
12/18/96 - 5/12/98	0.00413
11/3/98 - 5/16/00	0.00229
5/30/01 - 5/20/03	0.00332
11/18/03 - 5/10/05	0.00326
11/9/05 - 5/13/08	0.00345
11/6/08 - 11/23/09	0.00322
11/23/09 - 10/6/10	0.00295
10/6/10 - 11/4/11	0.00247

Table 4. Summary of Groundwater Withdrawals from Rolls-Royce Corporation Production Wells, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana.

YEAR	WELL NO. 1	WELL NO. 2	WELL NO. 4	TOTAL
1995	373.3	327.1	258.3	958.7
1996	501.4	501.8	167.4	1170.6
1997	34.0	451.8	280.1	765.9
1998	97.4	515.4	288.5	901.3
1999	498.0	495.5	69.1	1062.6
2000	665.0	165.0	303.0	1133.0
2001	513.0	493.0	42.0	1048.0
2002	479.0	322.5	156.3	957.8
2003	334.7	310.0	156.5	801.2
2004	207.6	291.9	68.4	567.9
2005	144.6	140.2	253.5	538.3
2006	144.7	270.6	217.6	632.9
2007	237.4	237.4	0.0	474.8
2008	193.7	193.7	18.9	406.3
2009	120.0	294.3	15.6	429.9
2010	57.9	412.9	0.3	471.1
2011	NA	NA	NA	NA

Volumes in millions of gallons

NA - Not Available

Table 5. Settlement Monument Survey, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana

SETTLEMENT NUMBER	NORTHING	EASTING	ELEVATION	DATE OF SURVEY
1	1999.85	2700.00	699.05	10/20/1994
1	1999.85	2700.00	699.04	2/16/1996
1	-	-	699.08	5/27/1997
1	-	-	699.06	11/19/1997
1	-	-	699.01	5/11/1998
1	-	-	699.02	11/4/1998
1	-	-	698.99	6/28/1999
1	-	-	698.99	11/30/1999
1	-	-	698.99	5/16/2000
1	-	-	698.99	11/13/2000
1	-	-	698.98	5/30/2001
1	-	-	698.98	11/21/2001
1	-	-	698.97	5/30/2002
1	-	-	698.96	5/21/2003
1	-	-	698.95	5/25/2004
1	-	-	698.93	5/11/2005
1	-	-	698.94	5/31/2006
1	-	-	698.93	5/16/2007
1	-	-	698.91	5/13/2008
1	-	-	698.89	5/13/2009
1	1999.85	2700.00	698.80	10/18/2010
1			698.79	10/24/2011
2	2400.14	2899.91	699.01	10/20/1994
2	2400.14	2899.91	698.88	2/16/1996
2	-	-	698.88	5/27/1997
2	-	-	698.85	11/19/1997
2	-	-	698.81	5/11/1998
2		-	698.78	11/4/1998
2	-	-	698.77	6/28/1999
2	-	-	698.77	11/30/1999
2	-	-	698.74	5/16/2000
2	-	-	698.73	11/13/2000
2	-	-	698.71	5/30/2001
2	-	-	698.70	11/21/2001
2	-	-	698.68	5/30/2002
2	-	-	698.67	5/21/2003
2	-	-	698.65	5/25/2004
2	-	-	698.66	5/11/2005
2	-	-	698.66	5/31/2006
2	-	-	698.65	5/16/2007
2	-	-	698.64	5/13/2008
2	-	-	698.62	5/13/2009
2	2200.23	2700.16	698.62	10/18/2010
2			698.62	10/24/2011
3	2200.23	2700.16	700.41	10/20/1994
3	2200.23	2700.16	700.29	2/16/1996
3	-	-	700.27	5/27/1997
3	-	-	700.24	11/19/1997
3	-	-	700.18	5/11/1998
3	-		700.14	11/4/1998
3	-		700.14	6/28/1999
3	-	-	700.11	11/30/1999
3	-	-	700.10	5/16/2000
3	-	-	700.07	11/13/2000
3	-	-	700.05	5/30/2001
3	-	-	700.04	11/21/2001
3	-	-	700.01	5/30/2002
3	-	-	699.98	5/21/2003
3	-		699.98	5/25/2004
3		-	699.98	5/11/2005
3	-	-	699.98	5/31/2006
3	-	-	699.97	5/16/2007
3	-	-	699.97	5/13/2008
3	-	-	699.94	5/13/2009
3	2200.23	2700.16	699.89	10/18/2010
3			699.89	10/24/2011

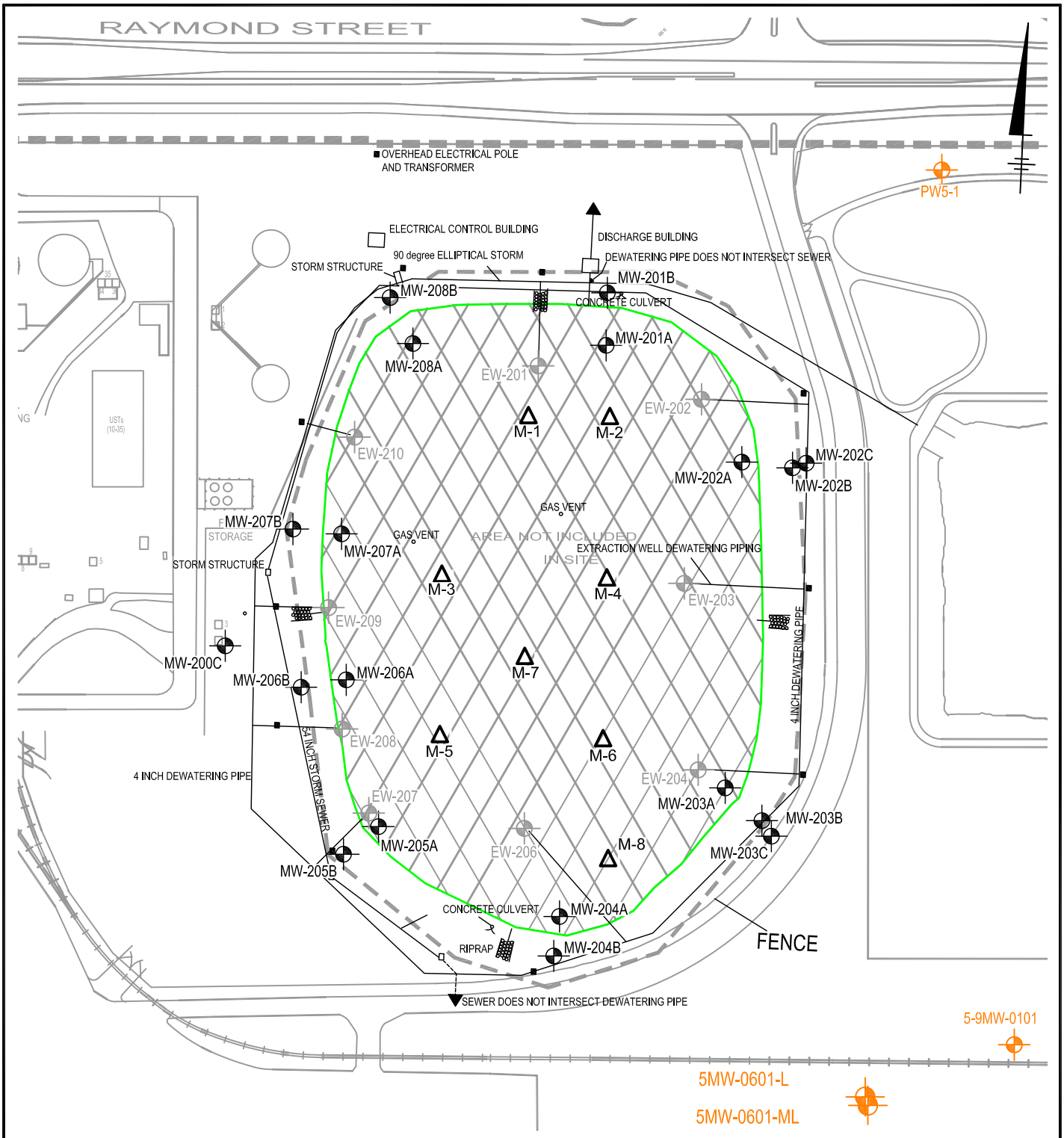
Table 5. Settlement Monument Survey, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana

SETTLEMENT NUMBER	NORTHING	EASTING	ELEVATION	DATE OF SURVEY
4	2200.41	2900.54	700.81	10/20/1994
4	2200.41	2900.54	700.73	2/16/1996
4	-	-	700.69	5/27/1997
4	-	-	700.67	11/19/1997
4	-	-	700.62	5/11/1998
4	-		700.57	11/4/1998
4	-		700.59	6/28/1999
4	-	-	700.55	11/30/1999
4	-	-	700.55	5/16/2000
4	-	-	700.52	11/13/2000
4	-	-	700.51	5/30/2001
4	-	-	700.50	11/21/2001
4	-	-	700.48	5/30/2002
4	-	-	700.45	5/21/2003
4	-	-	700.44	5/25/2004
4	-	-	700.42	5/11/2005
4	-	-	700.46	5/31/2006
4	-	-	700.44	5/16/2007
4	-	-	700.40	5/13/2008
4	-	-	700.37	5/13/2009
4	2200.41	2900.54	700.47	10/18/2010
4			700.50	10/24/2011
5	1999.86	2700.00	698.47	10/20/1994
5	1999.86	2700.00	698.31	2/16/1996
5	-	-	698.02	5/27/1997
5	-	-	697.94	11/19/1997
5		-	697.92	5/11/1998
5	-	-	697.86	11/4/1998
5	-	-	697.86	6/28/1999
5	-	-	697.79	11/30/1999
5	-	-	697.79	5/16/2000
5	-	-	697.76	11/13/2000
5	-	-	697.75	5/30/2001
5	-	-	697.75	11/21/2001
5	-	-	697.72	5/30/2002
5	-	-	697.70	5/21/2003
5	-	-	697.68	5/25/2004
5	-	-	697.64	5/11/2005
5	-	-	697.61	5/31/2006
5	-	-	697.59	5/16/2007
5	-	-	697.55	5/13/2008
5	-	-	697.53	5/13/2009
5	1999.86	2700.00	697.62	10/18/2010
5			697.60	10/24/2011
6	2000.01	2900.44	698.83	10/20/1994
6	2000.01	2900.44	698.78	2/16/1996
6	-	-	698.62	5/27/1997
6	-	-	698.58	11/19/1997
6	-	-	698.57	5/11/1998
6	-	-	698.49	11/4/1998
6	-	-	698.54	6/28/1999
6	-	-	698.48	11/30/1999
6	-	-	698.48	5/16/2000
6	-	-	698.45	11/13/2000
6	-	-	698.43	5/30/2001
6	-	-	698.41	11/21/2001
6	-	-	698.39	5/30/2002
6	-	-	698.36	5/21/2003
6	-	-	698.34	5/25/2004
6	-	-	698.34	5/11/2005
6	-	-	698.36	5/31/2006
6	-	-	698.34	5/16/2007
6	-	-	698.31	5/13/2008
6	-	-	698.30	5/13/2009
6	2000.01	2900.44	698.57	10/18/2010
6			698.60	10/24/2011

Table 5. Settlement Monument Survey, Surface Impoundment Area, RACER Trust, Indianapolis, Indiana

SETTLEMENT NUMBER	NORTHING	EASTING	ELEVATION	DATE OF SURVEY
7	2101.97	2803.42	699.87	10/20/1994
7	2101.97	2803.42	699.82	2/16/1996
7	-	-	699.76	5/27/1997
7	-	-	699.74	11/19/1997
7	-	-	699.71	5/11/1998
7	-	-	699.65	11/4/1998
7	-	-	699.68	6/28/1999
7	-	-	699.64	11/30/1999
7	-	-	699.63	5/16/2000
7	-	-	699.64	11/13/2000
7	-	-	699.63	5/30/2001
7		-	699.62	11/21/2001
7			699.60	5/30/2002
7		-	699.57	5/21/2003
7		-	699.55	5/25/2004
7	-		699.54	5/11/2005
7	-	-	699.54	5/31/2006
7	-		699.53	5/16/2007
7	-	-	699.52	5/13/2008
7	-	-	699.52	5/13/2009
7	2101.97	2803.42	699.60	10/18/2010
7			699.62	10/24/2011
8	1861.15	2900.48	696.38	10/20/1994
8	1861.15	2900.48	696.36	2/16/1996
8	-	-	696.06	5/27/1997
8	-	-	696.07	11/19/1997
8	-	-	696.06	5/11/1998
8	-	-	695.98	11/4/1998
8	-	-	696.02	6/28/1999
8	-	-	695.96	11/30/1999
8	-	-	695.97	5/16/2000
8	-		695.95	11/13/2000
8	-	-	695.95	5/30/2001
8	-	-	695.94	11/21/2001
8	-	-	695.92	5/30/2002
8	-	-	695.89	5/21/2003
8	-	-	695.87	5/25/2004
8	-	-	695.87	5/11/2005
8	-	-	695.88	5/31/2006
8	-	-	695.86	5/16/2007
8	-	-	695.84	5/13/2008
8	-	-	695.82	5/13/2009
8	1861.15	2900.48	696.20	10/18/2010
8			696.24	10/24/2011

NOTES:
Nova completed survey prior to 2010. Cripe completed survey in 2010
ARCADIS completed survey in 2011.



LEGEND:

- EXISTING HYDRAULIC MONITORING WELL
- EXISTING EXTRACTION WELL
- ROLLS-ROYCE CORPORATION WELL
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY

0 180' 360'

GRAPHIC SCALE

NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

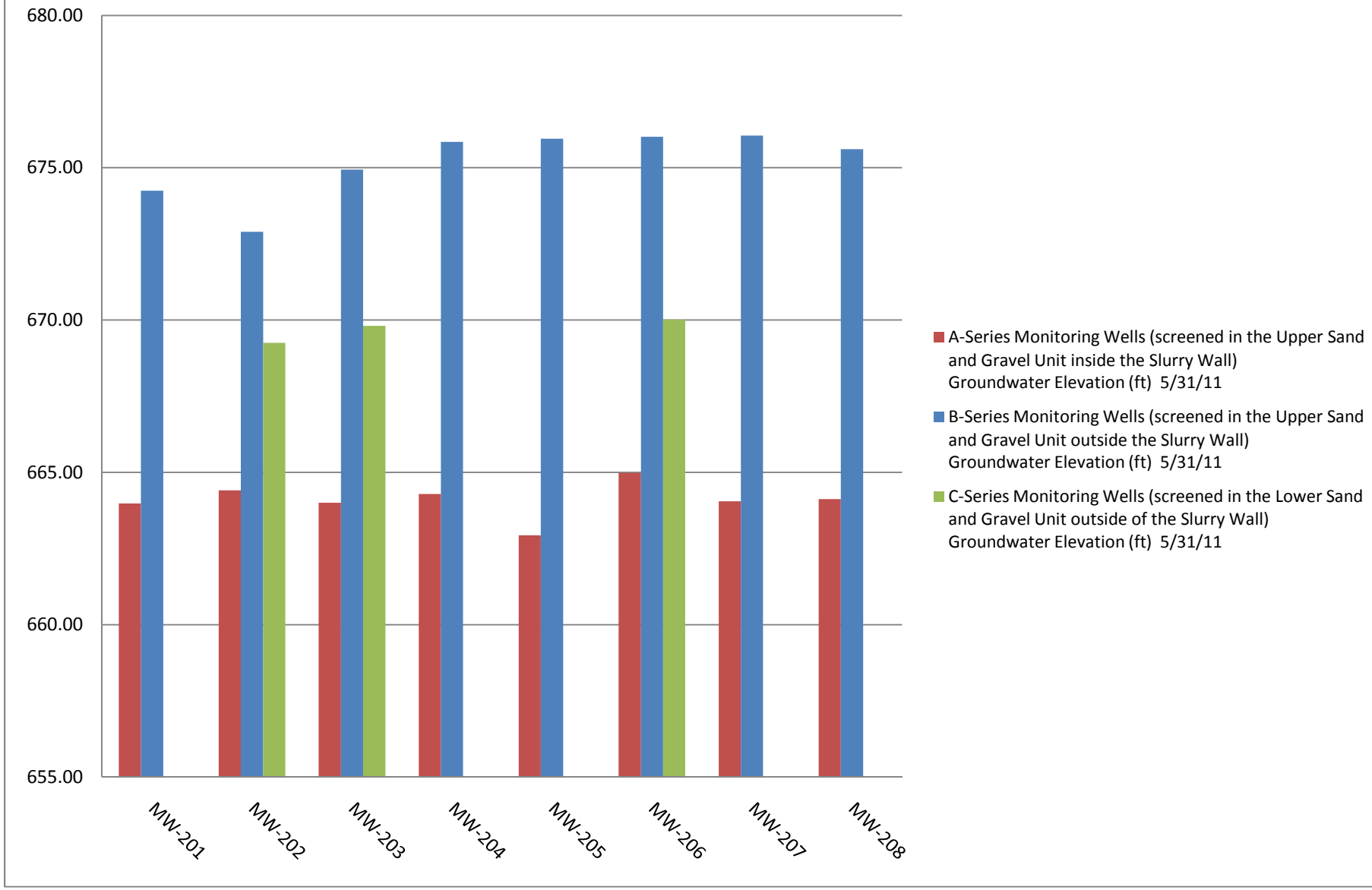
RACER TRUST
INDIANAPOLIS, INDIANA

SITE MAP

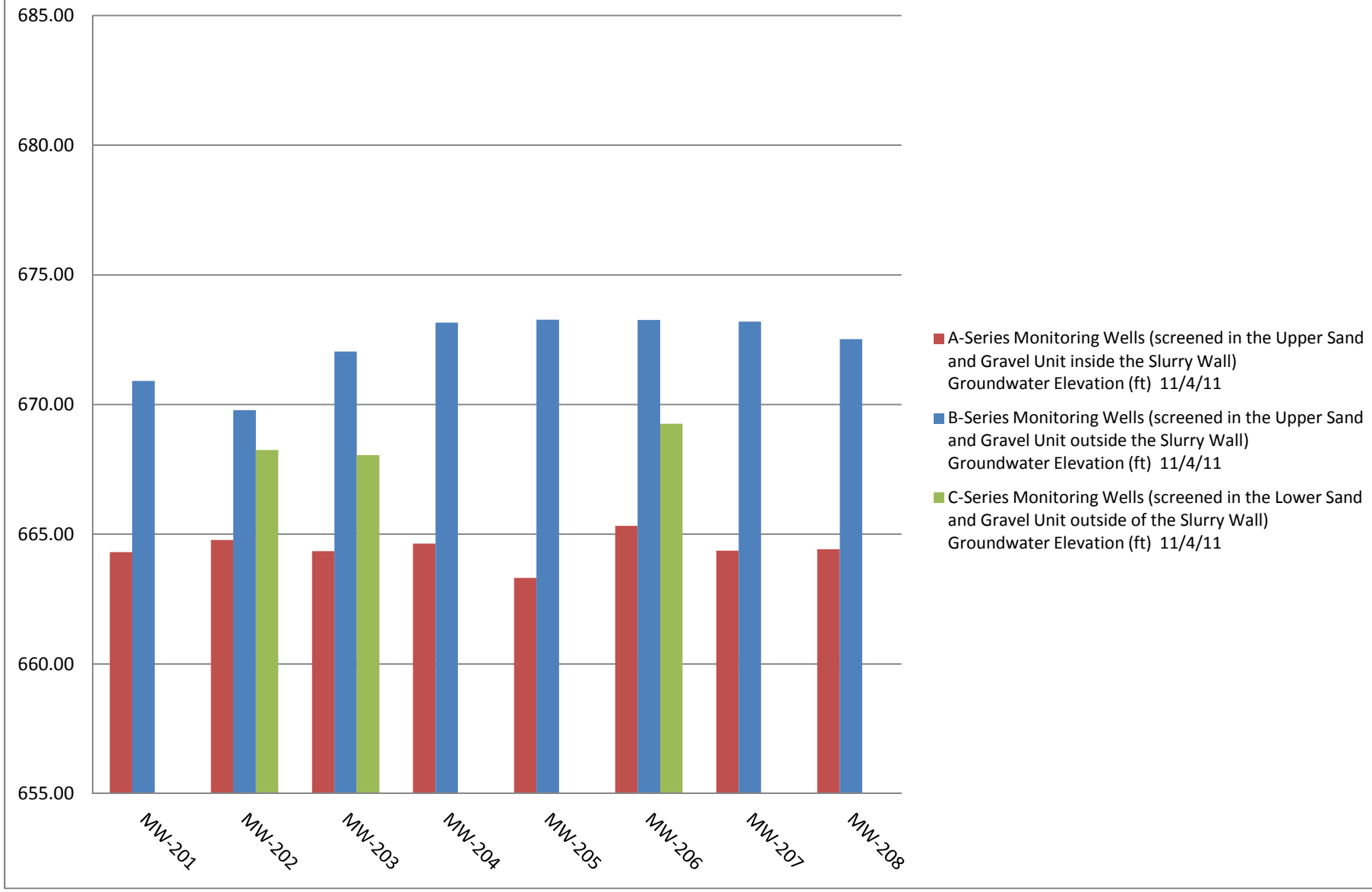
ARCADIS

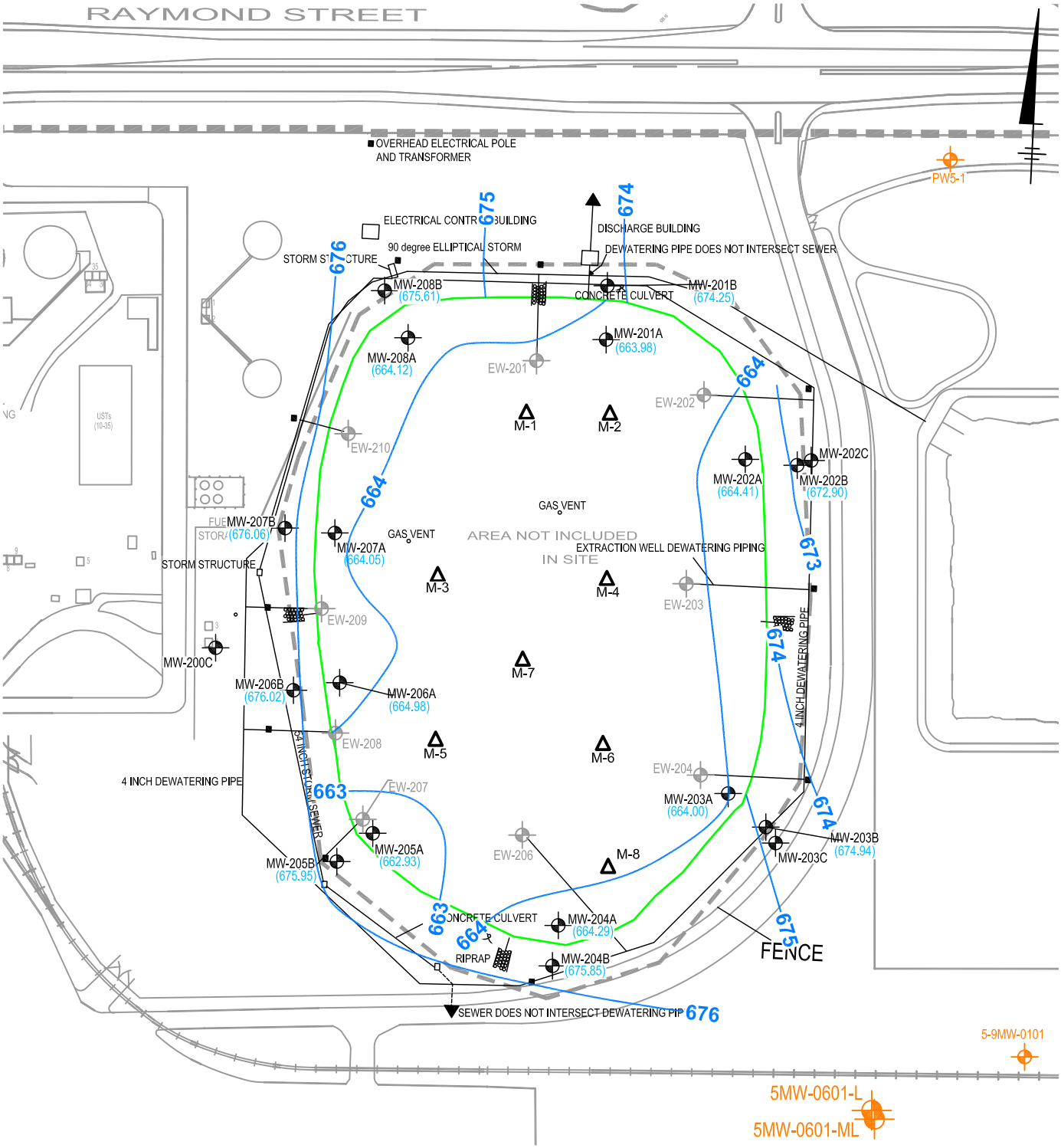
DRAWING 1

Drawing 2a Surface Impoundment
May 31, 2011 Groundwater Elevations



Drawing 2b Surface Impoundment
November 4, 2011 Groundwater Elevations





LEGEND:

- EXISTING HYDRAULIC MONITORING WELL
- EXISTING EXTRACTION WELL
- ROLLS–ROYCE CORPORATION WELL
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY
- (675.85) GROUNDWATER ELEVATION (FT MSL)
- 676 GROUNDWATER ELEVATION CONTOUR (FT MSL)

NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

0 180' 360'

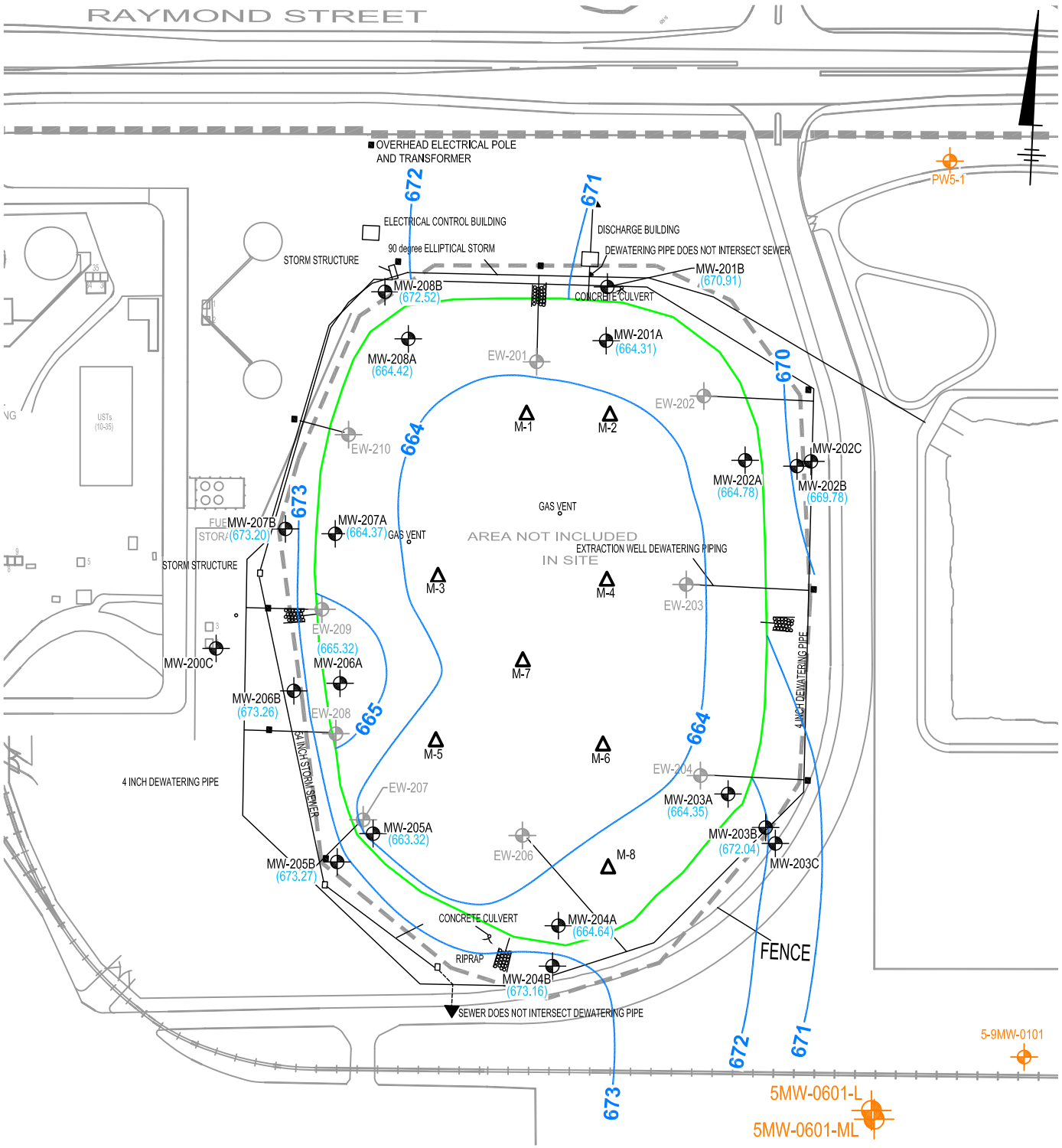
GRAPHIC SCALE

RACER TRUST
INDIANAPOLIS, INDIANA

POTENTIOMETRIC SURFACE-SHALLOW SAND AND GRAVEL UNIT - MAY 2011

ARCADIS

DRAWING 3



LEGEND:

- EXISTING HYDRAULIC MONITORING WELL
- EXISTING EXTRACTION WELL
- ROLLS–ROYCE CORPORATION WELL
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY
- (673.27) GROUNDWATER ELEVATION (FT MSL)
- 673 GROUNDWATER ELEVATION CONTOUR (FT MSL)

NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

0 180' 360'

GRAPHIC SCALE

RACER TRUST
INDIANAPOLIS, INDIANA

POTENTIOMETRIC SURFACE- UPPER SAND AND GRAVEL UNIT - NOVEMBER 2011

ARCADIS

DRAWING 4

CITY:Syracuse DIV/GROUP:EnvCAD DB:A.Schilling LD:(Opt) PIC:(Opt) PM:(Reqd) TM:H.Gastineau-Lyons LYR:(Opt)ON=*;OFF=*REF*
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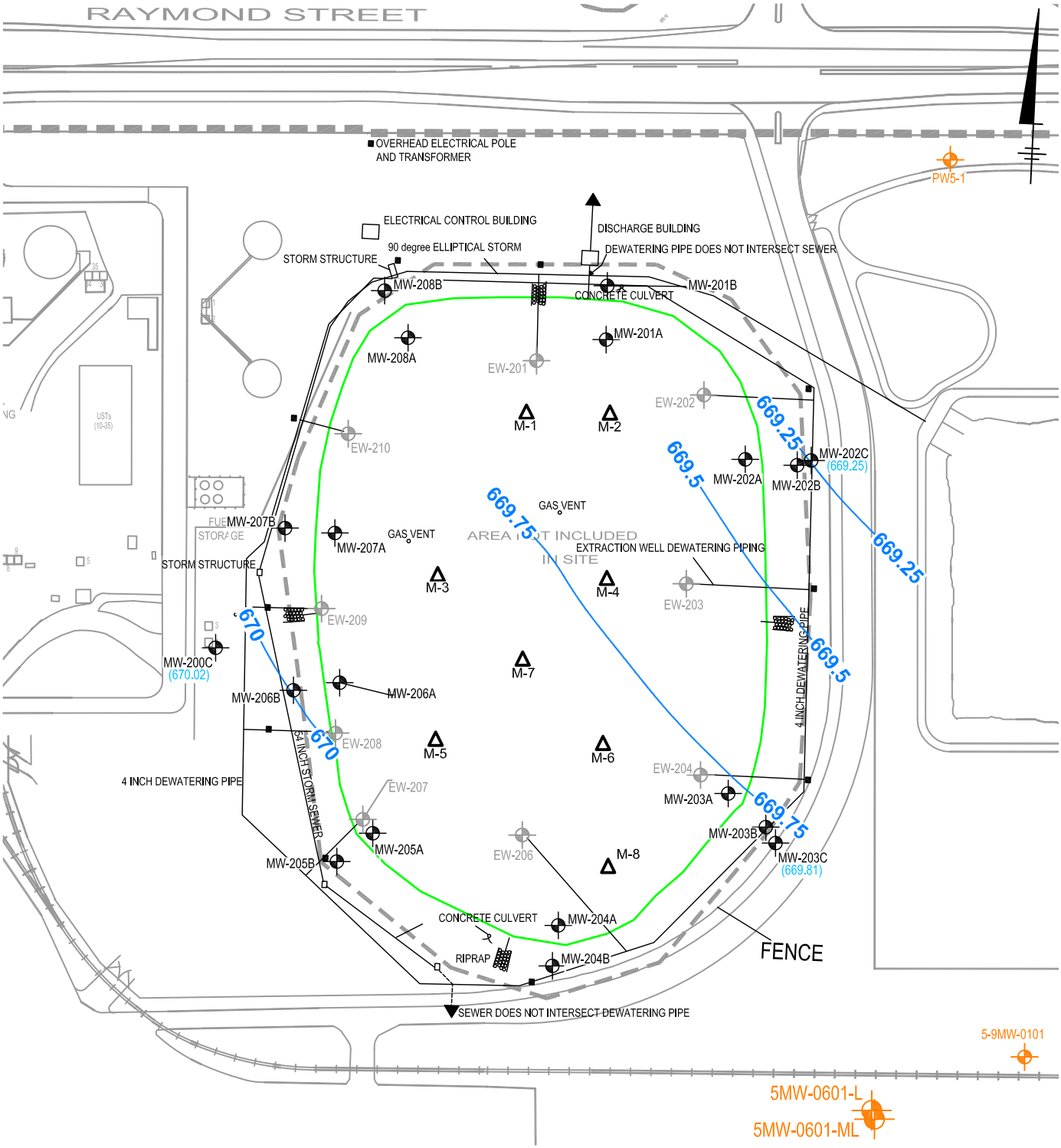

LEGEND:

- EXISTING HYDRAULIC MONITORING WELL
- EXISTING EXTRACTION WELL
- ROLLS–ROYCE CORPORATION WELL
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY
- (670.02) GROUNDWATER ELEVATION (FT MSL)
- 670 GROUNDWATER ELEVATION CONTOUR (FT MSL)

NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

0 180' 360'

GRAPHIC SCALE

RACER TRUST
INDIANAPOLIS, INDIANA

POTENTIOMETRIC SURFACE- LOWER SAND AND GRAVEL UNIT - MAY 2011

ARCADIS

DRAWING 5

CITY:Syracuse DIV/GROUP:EnvCAD DB:A.Schilling LD:(Opt) PIC:(Opt) PM:(Reqd) TM:H.Gastineau-Lyons LYR:(Opt)ON=* OFF=*REF*
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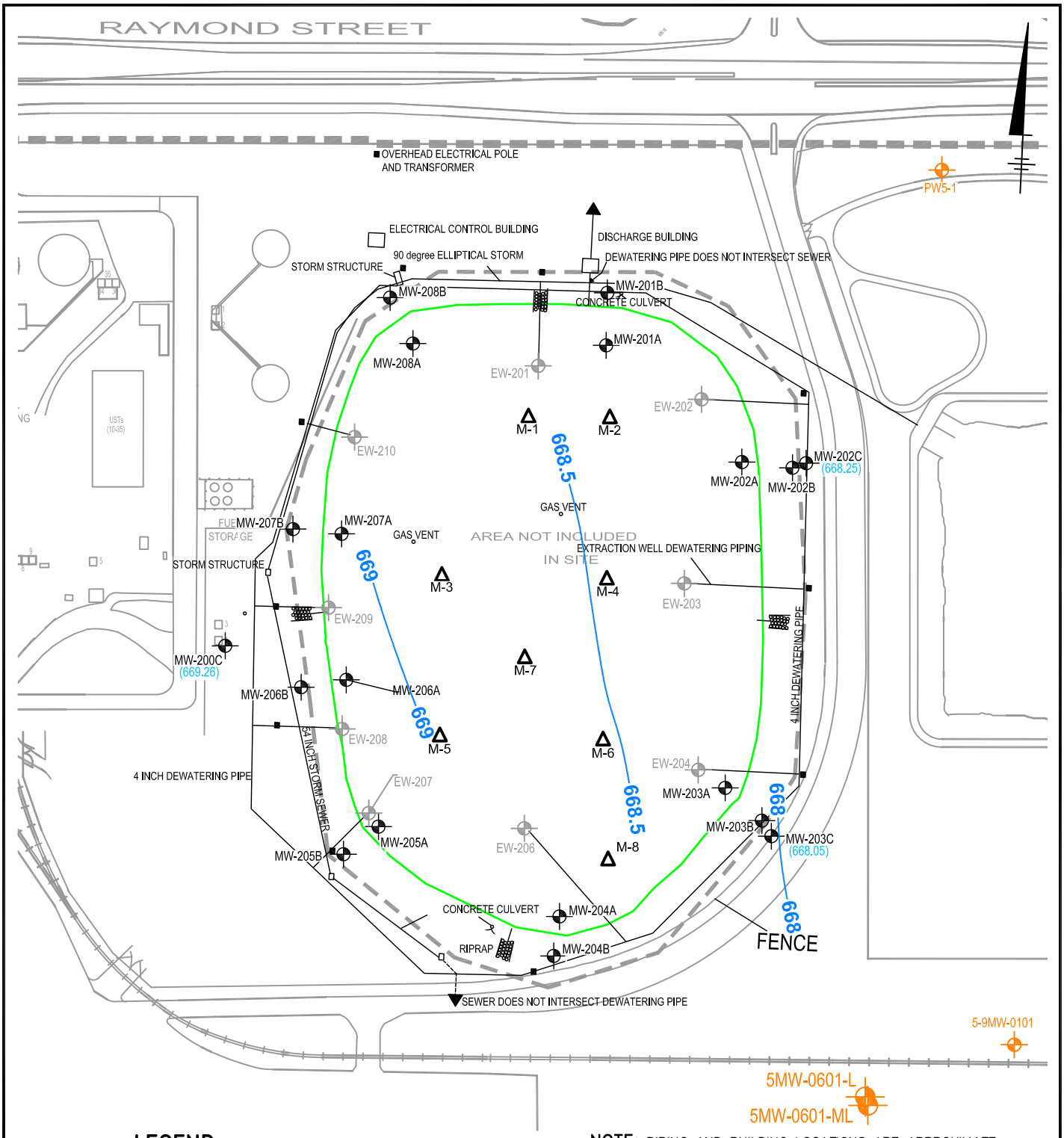
XREFS: 00848X01 IMAGES: PROJECTNAME: --



NOTE: PIPING AND BUILDING LOCATIONS ARE APPROXIMATE.

0 180' 360'

GRAPHIC SCALE

LEGEND:

- EXISTING HYDRAULIC MONITORING WELL
- EXISTING EXTRACTION WELL
- ROLLS–ROYCE CORPORATION WELL
- SURVEY MONUMENT
- SLURRY WALL
- PROPERTY BOUNDARY
- (668.25) GROUNDWATER ELEVATION (FT MSL)
- 668 GROUNDWATER ELEVATION CONTOUR (FT MSL)

RACER TRUST
INDIANAPOLIS, INDIANA

POTENTIOMETRIC SURFACE- LOWER SAND AND GRAVEL UNIT - NOVEMBER 2011

ARCADIS

DRAWING 6

CITY:Syracuse DIV/GROUP:EnvCAD DB:A.Schilling LD:(Opt) PIC:(Opt) PM:(Reqd) TM:H.Gastineau-Lyons LYR:(Opt)ON=*;OFF=*REF*
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XREFS: 00848X01 IMAGES: PROJECTNAME: --

ARCADIS

Appendix A

Permit Modification Summary

Table A-1. Permit Application and Modification Summary.

Permit Type	Date Permit Application Submitted	Date of IDEM Notification of Deficiency (NOD)	Date of IDEM Approval	Date Notification letter Submitted to Distribution List	Description of Submittal
Post-Closure Permit Application	11/17/1997	9/23/1998	NA	NA	Required Post-Closure Permit Application as required in IDEM's closure approval.
Revised Post-Closure Permit Application	4/26/1999	10/7/1999	NA	NA	Response to NOD dated 9/23/98.
Revised Post-Closure Permit Application	12/20/1999	3/6/2000	NA	NA	Respose to NOD dated 10/7/99.
Revised Post-Closure Permit Application	3/1/2000	NA	6/29/2001	NA	Response to NOD dated 3/6/00.
Class 1 Permit Modificaiton	NA	NA	9/2/2001	NA	Modification of the groundwater sampling procedure.
Renewal Permit Application	1/23/2006	3/21/2006	NA	NA	The Permit Application Renewal submitted.
Renewal Permit Application	5/5/2006	6/22/2006	NA	NA	The Permit Application Renewal re-submitted based on IDEMs NOD provided on 3/21/2006.

Table A-1. Permit Application and Modification Summary.

Permit Type	Date Permit Application Submitted	Date of IDEM Notification of Deficiency (NOD)	Date of IDEM Approval	Date Notification letter Submitted to Distribution List	Description of Submittal
Renewal Permit Application	8/3/2006	NA	1/26/2007	NA	The Permit Application Renewal re-submitted based on IDEMs NOD provided on 6/22/2006.
Class 1 Permit Modificaiton	8/8/2007	NA	9/26/2007	10/9/2007	The permit modification letter requested to update the financial assurance from a 'surety bond' to a 'certificate of insurance' (Attachments C-5, C-6 and Appendix B of the Post Closure Permit Renewal).
Class 1 Permit Modificaiton	8/8/2007	NA	9/26/2007	10/9/2007	The permit modificaiton letter requested to update minor issues concerning the table of contents and scheduled maintenance activities (Table 5a).
Class 1 Permit Modificaiton	7/29/2008	NA	8/22/2008	8/27/2008	This permit modification letter requested to update the financial assurance from a 'certificate of insurance' to a 'performance bond' (Attachments C-5, C-6 and Appendix B of the Post Closure Permit Renewal).
Class 1 Permit Modificaiton	4/23/2009	NA	6/17/2009	7/22/2009	The permit modification letter requested to amend Appendix H, Sampling and Analysis Plan, Section 4.3 (Data Analysis).
Class 1 Permit Modificaiton	1/27/2010	NA	2/18/2010	5/3/2010	The permit modification letter requested to change the responsible party from General Motors Corporation to Motors Liquidation Compnay (MLC).

NOTES:
NA - Not Applicable

ARCADIS

Appendix B

Monitoring Well and Groundwater Monitoring Data Sheets

MW-20IB

WELL PURGING FIELD INFORMATION FORM

JOB# 1N297-2011

SITE/PROJECT NAME: Racer Trust - AGT SI

WELL# MW-20IB

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
5/31/11	5/31/11	3015	2614

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE [ ] A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP (C) BLADDER PUMP D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE G - BAILER H - WATERRA®

SAMPLING DEVICE [ ] X- PURGING OTHER (SPECIFY) X- SAMPLING OTHER (SPECIFY)

PURGING DEVICE [ ] A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE D - PVC (E) POLYETHYLENE

SAMPLING DEVICE [ ] X- PURGING OTHER (SPECIFY) X- SAMPLING OTHER (SPECIFY)

PURGING DEVICE [ ] A - TEFLON B - TYGON C - ROPE D - POLYPROPYLENE (E) POLYETHYLENE F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE X- (SPECIFY)

SAMPLING DEVICE [ ] X- PURGING OTHER (SPECIFY) X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] (A) IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	693016 (m/ft)	GROUNDWATER ELEVATION	671414 (m/ft)
DEPTH TO WATER	1882 (m/ft)	WELL DEPTH	3762 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
8.1 (std)	20 (ntu)	0.6816 (µm/cm) AT 25°C	124 (mV)	4.37 (mg/L)	23.1 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: clear ODOR: N/A COLOR: clear TURBIDITY: clear

WEATHER CONDITIONS: WIND SPEED DIRECTION PRECIPITATION Y/N OUTLOOK

SPECIFIC COMMENTS Sampled @ 1545

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

5/31/11 DATE — Tim Porter PRINT — SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AGT SI
Ref. No.: IN000297.2011

Date: 5/31/11
Personnel: TP

Monitoring Well Data:

Well No.: MW-201B
Measurement Point: TOC - 693.06
Constructed Well Depth (ft): 38.51
Measured Well Depth (ft): 37.62
Depth of Sediment (ft): 0.89

Sampled @ 1545 5/31/11

Screen Length (ft): 10
Depth to Pump Intake (ft)[1]: 33'
Well Diameter, D (in): 2in.
Well Screen Volume, V_s (mL)[2]: 1.63 gal
Initial Depth to Water (ft): 18.82

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	★ Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1514	400	18.89	0.07	8.08	29.38	0.6506	114	4.98	33.29	0.53	0.32
1519	400	18.89	0.07	8.14	28.90	0.6646	117	4.64	-3.954 ★	0.53	0.32
1524	400	18.89	0.07	8.14	22.62	0.6665	120	4.46	-16.4	0.53	0.32
1529	400	18.89	0.07	8.13	22.63	0.6702	122	4.41	-20.39	0.53	0.32
1534	400	18.89	0.07	8.13	23.06	0.6719	123	4.38	-19.89	0.53	0.32
1539	400	18.89	0.07	8.12	23.13	0.6807	124	4.37	-20.70	0.53	0.32

★ Turbidity will be re-calibrated prior to purging next well per discussion w/ Office.

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

MW-202B

WELL PURGING FIELD INFORMATION FORM

JOB# 1N2971.2V11

SITE/PROJECT NAME: RACER TRUST - AGT Surface Impoundment

WELL# MW-202B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
5/31/11	5/31/11	2.9	3.7

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	[ ]	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	[C]	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	[ ]	A - TEFLON B - STAINLESS STEEL	D - PVC (E) - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	[ ]	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	[ ]	A - TEFLON B - TYGON	D - POLYPROPYLENE (E) - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	[ ]	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [A] (A) - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION (TOC)	691.43 (m/ft)		GROUNDWATER ELEVATION	671.01 (m/ft)	
DEPTH TO WATER	19.61 (m/ft)		WELL DEPTH	31.45 (m/ft)	

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
8.0 (std)	1 (ntu)	0.371 (µm/cm) AT 25°C	102 (mV)	7.98 (mg/L)	18.97 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: NA COLOR: clear TURBIDITY: clear 1.596 NTU

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1430

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
5/31/11	Tim Parker	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3: October 29, 2002

Figure 2: Well Purging Field Information Form.
Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Fixer Trust - AGT Surface Impoundment
Ref. No.: IN 000299.2011

Date: 5/31/11
Personnel: TB

Sampled @ 1430 5/31/11

Monitoring Well Data:

Well No.: MW-202B
Measurement Point: TOC - 691.43
Constructed Well Depth (ft): 37.71 ft
Measured Well Depth (ft): 37.45 ft
Depth of Sediment (ft): 0.26 ft

Screen Length (ft): 10ft
Depth to Pump Intake (ft)[1]: 32 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 1,631 gal
Initial Depth to Water (ft): 19.61 ft

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1352	400	19.61	0.00	8.03	20.74	0.3834	95	8.37	72.33	0.53	0.32
1357	400	19.61	0.00	8.04	19.73	0.3722	109	8.29	51.91	0.53	0.32
1402	400	19.61	0.00	8.05	20.75	0.3803	106	8.17	50.95	0.53	0.32
1407	400	19.61	0.00	8.04	20.70	0.3789	104	8.21	20.92	0.53	0.32
1412	400	19.61	0.00	8.03	19.63	0.3738	102	8.14	15.95	0.53	0.32
1417	400	19.61	0.00	8.03	19.10	0.3610	101	8.16	8.89	0.53	0.32
1423	400	19.61	0.00	8.03	19.05	0.3692	104	8.05	7.64	0.53	0.32
1427	400	19.61	0.00	8.02	18.97	0.3711	102	7.98	1.596	0.53	0.32

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Figure 3: Monitoring Well Record for Low-Flow Purging.
Resubmitted August 2006

WELL PURGING FIELD INFORMATION FORM

JOB# 1N2971-2011

SITE/PROJECT NAME: RACER TRUST- AGT SI

WELL# MW203B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
5/31/11	5/31/11	2.83	15.15

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE [ ] A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; G - BAILER; H - WATERRA®

SAMPLING DEVICE [C] C - BLADDER PUMP; F - DIPPER BOTTLE

X- _____ PURGING OTHER (SPECIFY)

X- _____ SAMPLING OTHER (SPECIFY)

PURGING DEVICE [ ] A - TEFLON; B - STAINLESS STEEL; D - PVC; (E) - POLYETHYLENE

SAMPLING DEVICE [ ] C - POLYPROPYLENE

X- _____ PURGING OTHER (SPECIFY)

X- _____ SAMPLING OTHER (SPECIFY)

PURGING DEVICE [ ] A - TEFLON; B - TYGON; D - POLYPROPYLENE; (E) - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE

SAMPLING DEVICE [ ] C - ROPE X- _____ (SPECIFY)

X- _____ PURGING OTHER (SPECIFY)

X- _____ SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [A] A - IN-LINE DISPOSABLE; B - PRESSURE; C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	691.65 (m/ft)	GROUNDWATER ELEVATION	674.92 (m/ft)
DEPTH TO WATER	16.73 (m/ft)	WELL DEPTH	34.10 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.2 (std)	1.8 (ntu)	0.610 AT 25°C (µm/cm)	174 (mV)	5.32 (mg/L)	19.36 (°C)
( ) (std)	( ) (ntu)	( ) AT 25°C (µm/cm)	( ) (mV)	( ) (mg/L)	( ) (°C)
( ) (std)	( ) (ntu)	( ) AT 25°C (µm/cm)	( ) (mV)	( ) (mg/L)	( ) (°C)
( ) (std)	( ) (ntu)	( ) AT 25°C (µm/cm)	( ) (mV)	( ) (mg/L)	( ) (°C)
( ) (std)	( ) (ntu)	( ) AT 25°C (µm/cm)	( ) (mV)	( ) (mg/L)	( ) (°C)

FIELD COMMENTS

SAMPLE APPEARANCE: clear ODOR: NA COLOR: clear TURBIDITY: clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1300

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

5/31/11 DATE — T.M Porter PRINT — SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-08-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AGT SI
Ref. No.: IN000297.2011

Date: 5/31/11
Personnel: [illegible]

Monitoring Well Data:

Well No.: MW-7053B
Measurement Point: TOC - 691.65 ft,
Constructed Well Depth (ft): 34.30
Measured Well Depth (ft): 34.10
Depth of Sediment (ft): 0.20 ft

Screen Length (ft): 10 ft
Depth to Pump Intake (ft)[3]: 29 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 1.63 gal
Initial Depth to Water (ft): 16.73 ft

Pump @ ~29.00'

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1152	300	16.73	0.00	7.22	16.70	0.5357	223	7.44	2.52	0.40	0.24
1157	300	16.73	0.00	7.26	17.07	0.5548	221	6.76	-13.73 ★	0.40	0.24
1202	300	16.73	0.00	7.26	17.28	0.5455	217	6.27	-28.51	0.40	0.24
					Re-Calibrate						
1208	300	16.73	0.00	7.25	17.44	0.5496	211	5.70	21.20	0.40	0.24
1213	300	16.73	0.00	7.26	17.62	0.5961	205	5.41	22.04	0.40	0.24
1218	300	16.73	0.00	7.25	18.01	0.5997	200	5.33	15.49	0.40	0.24
1223	300	16.73	0.00	7.26	18.26	0.6018	195	5.28	16.54	0.40	0.24
1228	300	16.73	0.00	7.26	18.41	0.6017	191	5.27	14.92	0.40	0.24
1233	300	16.73	0.00	7.26	18.66	0.6034	188	5.27	14.48	0.40	0.24
1238	300	16.73	0.00	7.26	18.80	0.6014	185	5.23	15.37	0.40	0.24
1243	300	16.73	0.00	7.26	18.87	0.6036	182	5.35	15.15	0.40	0.24
1248	300	16.73	0.00	7.26	18.90	0.6018	179	5.31	17.07	0.40	0.24
1253	300	16.73	0.00	7.26	19.04	0.6016	176 ★	5.33	16.84		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$ ★ Talk to Aftheed (Equipment Rental) & recalibrate for Turbidity ★

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Figure 3: Monitoring Well Record for Low-Flow Purging.
Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AGT SI
Ref. No.: 1N000297.2011

Date: 5/31/11
Personnel: TP

Sampled @ 1300 5/31/11

Monitoring Well Data:

Well No.: MW-203B (continued)
Measurement Point: 691.65 ft
Constructed Well Depth (ft): 34.30 ft
Measured Well Depth (ft): 34.10 ft
Depth of Sediment (ft): 0.20 ft

Screen Length (ft): 10 ft
Depth to Pump Intake (ft)[1]: 29 ft
Well Diameter, D (in): 2 in.
Well Screen Volume, V_s (mL)[2]: 1.63 gal
Initial Depth to Water (ft): 16.73

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1258	300	16.73	0.00	7.26	19.36	0.6642	174	5.32	18.78	0.40	0.24

& Turbidity stabilizing above 5 NTU. Sample taken per instructions

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Figure 3: Monitoring Well Record for Low-Flow Purging.
Resubmitted August 2006

MW-206B

WELL PURGING FIELD INFORMATION FORM

JOB# 1N2971-2011

SITE/PROJECT NAME: Racer Trust - AGT-SI

WELL# MW-206B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
5/31/11	5/31/11	3.27	2.64

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	(C) - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	(E) - POLYETHYLENE		
SAMPLING DEVICE		C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	(E) POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	(A) IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	693.46 (m/ft)	GROUNDWATER ELEVATION	676.03 (m/ft)
DEPTH TO WATER	17.43 (m/ft)	WELL DEPTH	37.49 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.1 (std)	2.2 (ntu)	0.964 (µm/cm) AT 25°C	86 (mV)	0.15 (mg/L)	18.4 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: N/A COLOR: clear TURBIDITY: clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1700

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
5/31/11	Tim Porter	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form.
Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: ~~Rolls Royce~~ Racer Trust - AGT SI
Ref. No.: IN000297.2011

Date: 5/31/11
Personnel: TP

Monitoring Well Data:

Well No.: MW-206B ☆MS/MSD
Measurement Point: TOC- 693.46
Constructed Well Depth (ft): 37.73
Measured Well Depth (ft): 37.54
Depth of Sediment (ft): 0.19

Sample 1700 5/31/11

Screen Length (ft): 10' ft
Depth to Pump Intake (ft)[1]: 32 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 1.63 gal
Initial Depth to Water (ft): 17.43 ft

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	☆Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1629	400	17.43	0.00	7.20	19.22	0.9775	95	0.60	5.426	0.53	0.32
1634	400	17.43	0.00	7.20	18.72	0.9664	87	0.30	-9.195	0.53	0.32
1639	400	17.43	0.00	7.18	18.64	0.9687	85	0.23	-14.76	0.53	0.32
1644	400	17.43	0.00	7.18	18.51	0.9634	84	0.19	-10.65	0.53	0.32
1649	400	17.43	0.00	7.17	18.56	0.9631	85	0.17	-21.04	0.53	0.32
1654	400	17.43	0.00	7.17	18.48	0.9646	82	0.15	-22.65	0.53	0.32

Notes:

☆ Re-calibrated turbidity prior to sampling this well; still having issues. Will sample after remaining parameters stabilize for discussion w/ office

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

5/31/11

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

MW-20B

WELL PURGING FIELD INFORMATION FORM

JOB# 1M297-211

SITE/PROJECT NAME: AGT Surface Impoundment

WELL# MW-20B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
10/20/11	10/20/11	9.31	26.4

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	H	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	B	A - TEFLON B - STAINLESS STEEL	D - PVC (E) POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	G	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE (E) POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE		C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		(A) IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	693.06 (m/ft)	GROUNDWATER ELEVATION	669.62 (m/ft)
DEPTH TO WATER	23.49 (m/ft)	WELL DEPTH	37.62 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.19 (std)	0 (ntu)	793 (µm/cm) AT 25°C	-21 (mV)	2.02 (mg/L)	18.5 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: NA COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1610

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
10/20/11	Tim Porter	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AGT SI
Ref. No.: 1N300237.2011

Date: 10/20/11
Personnel: TP

Monitoring Well Data:

Well No.: MW-20B
Measurement Point: TOC - 693.01
Constructed Well Depth (ft): 38.51
Measured Well Depth (ft): 37.65
Depth of Sediment (ft): 0.50

Screen Length (ft): 10ft
Depth to Pump Intake (ft)[1]: 32ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 1.62 gal
Initial Depth to Water (ft): 23.44

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity ~~(mS/cm)~~ µS/cm	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p ~~(mL)~~ gal	No. of Well Screen Volumes Purged[4]
1342	400	22.21*	0.00	7.95	18.44	781.0	-9	2.19	14.73	0.53	0.32
1347	400	22.21	0.00	7.94	18.59	790.0	-12	2.31	6.70	0.53	0.32
1352	400	22.21	0.00	7.95	18.39	789.2	-24	2.08	6.39	0.53	0.32
1357	400	22.21	0.00	7.95	18.44	791.8	-25	2.01	2.648	0.53	0.32
1402	400	22.21	0.00	7.94	18.52	793.6	-17	2.00	1.30	0.53	0.32
1407	400	22.21	0.00	7.96	18.50	793.9	-21	2.02	0.533	0.53	0.32

Notes: Sampled @ 1410

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

* Note - Once bladder pump and tubing deployed, the water level was collected (recorded). The water level recorded was different from the initial depth to water collected.

MW-202B

WELL PURGING FIELD INFORMATION FORM

JOB# 1M297-20 11

SITE/PROJECT NAME: AGT Surface Impoundment

WELL# MW-202B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
10/20/11	10/20/11	2.30	4.54

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	(C) BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	B	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	(E) - POLYETHYLENE		
SAMPLING DEVICE	F	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	(E) - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 | (A) IN-LINE DISPOSABLE | B - PRESSURE | C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	691.43	(m/ft)	GROUNDWATER ELEVATION	668.09	(m/ft)
DEPTH TO WATER	23.34	(m/ft)	WELL DEPTH	317.45	(m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.8 (std)	4 (ntu)	637 (µm/cm) AT 25°C	+76 (mV)	2.13 (mg/L)	16.6 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: NM COLOR: Clear TURBIDITY: clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1510

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
10/20/11	J.M. Parker	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AOT SI
Ref. No.: Incoc 292. 2011

Date: 10/20/11
Personnel: TP

Monitoring Well Data:

Sampled 1510

Well No.: MW-202B
Measurement Point: TOC - 691.43
Constructed Well Depth (ft): 37.71 ft
Measured Well Depth (ft): 37.43
Depth of Sediment (ft): 0.28

Screen Length (ft): 10 ft
Depth to Pump Intake (ft)[1]: 32 ft
Well Diameter, D (in): 2 in.
Well Screen Volume, V_s ~~(mL)~~ (gal)[2]: 4.54
Initial Depth to Water (ft): 23.34

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity ~~(mS/cm)~~ (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL) Gallons	No. of Well Screen Volumes Purged[4]
1400	400	22.25*	0.00	7.82	17.11	632.4	54	3.41	313.6	0.53	0.32
1405	400	22.25	0.00	7.80	17.03	637.4	49	2.85	164.2	0.53	0.32
1410	400	22.25	0.00	7.82	17.14	638.1	-2	2.65	85.39	0.53	0.32
1415	400	22.25	0.00	7.82	17.18	640.9	-16	2.55	57.20	0.53	0.32
1420	400	22.25	0.00	7.82	17.14	642.1	-32	2.68	29.44	0.53	0.32
1425	400	22.25	0.00	7.83	17.02	640.5	-43	2.63	25.51	0.53	0.32
1430	400	22.25	0.00	7.83	17.02	641.2	-50	2.24	17.20	0.53	0.32
1435	400	22.25	0.00	7.80	17.10	642.5	-54	2.23	14.92	0.53	0.32
1440	400	22.25	0.00	7.83	17.16	642.7	-62	2.19	13.25	0.53	0.32
1445	400	22.25	0.00	7.83	17.03	641.4	-64	2.16	8.468	0.53	0.32
1450	400	22.25	0.00	7.82	17.00	640.6	-68	2.14	10.08	0.53	0.32
1455	400	22.25	0.00	7.83	16.84	639.0	-69	2.12	12.65	0.53	0.32
1500	400	22.25	0.00	7.83	16.72	636.6	-71	2.12	6.617	0.53	0.32
1505	400	22.25	0.00	7.82	16.74	636.2	-69	2.11	5.802	0.53	0.32
1510	400	22.25	0.00	7.83	16.82	637.3	-76	2.13	4.210	0.53	0.32

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

* Note - once bladder pump and tubing deployed the water level was collected/recorded. The water level recorded was different than the initial depth to water collected.

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

MW-203B

WELL PURGING FIELD INFORMATION FORM

JOB# 11297-20 11

SITE/PROJECT NAME: AGT Surface Impoundment

WELL# MW-203B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
10/20/11	10/20/11	2.09	2.38

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	B	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	(E) POLYETHYLENE		
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	(E) POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 (A) IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	691.65 (m/ft)	GROUNDWATER ELEVATION	670.07 (m/ft)
DEPTH TO WATER	21.58 (m/ft)	WELL DEPTH	34.10 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.12 (std)	2 (ntu)	4903 (µm/cm) AT 25°C	56 (mV)	1.34 (mg/L)	13.6 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: N/A COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1320, #MS/MSD

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
10/20/11	T.M Porter	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Racer Trust - AOT S1
Ref. No.: IN000297.2011

Date: 10/20/11
Personnel:

Monitoring Well Data:

Well No.: MW-203B
Measurement Point: TOC - 691.65 ft.
Constructed Well Depth (ft): 34.30 ft
Measured Well Depth (ft): 34.13 ft
Depth of Sediment (ft): 0.17 ft

Sampled @ 1320
MS/MSD

Screen Length (ft): 10
Depth to Pump Intake (ft)[1]: 29.10
Well Diameter, D (in): 2 in
Well Screen Volume, V_s ~~(mL)~~ gal[2]: +63 1.94
Initial Depth to Water (ft): 21.56

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity ~~(mS/cm)~~ (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p ~~(mL)~~ (gal)	No. of Well Screen Volumes Purged[4]
1245	400	20.63*	0.00	7.22	14.08	895.0	90	2.55	93.27	0.53	0.32
1250	400	20.63	0.00	7.22	13.71	891.5	91	2.05	6390	0.53	0.32
1255	400	20.63	0.00	7.21	13.67	897.7	75	1.50	3749	0.53	0.32
1300	400	20.63	0.00	7.21	13.64	901.5	64	1.77	16.38	0.53	0.32
1305	400	20.63	0.00	7.21	13.65	901.4	57	1.66	7830	0.53	0.32
1310	400	20.63	0.00	7.20	13.66	902.4	59	1.43	3.897	0.53	0.32
1315	400	20.63	0.00	7.21	13.64	903.3	46	1.34	2950	0.53	0.32
						10/20/11					

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

* Note - once the bladder pump and tubing deployed, the water level was collected/recorded. The water level recorded was different than the initial depth to water collected.

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

MW-206B

WELL PURGING FIELD INFORMATION FORM

JOB# 1W2917-2011

SITE/PROJECT NAME: AGT Surface Impoundment

WELL# MW-206B

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
10/20/11	10/20/11	2.68	4.23

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	A	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	C	(C) BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	B	A - TEFLON B - STAINLESS STEEL	D - PVC (E) POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE (E) POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE		C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	(A) IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	693.46 (m/ft)	GROUNDWATER ELEVATION	672.31 (m/ft)
DEPTH TO WATER	21.16 (m/ft)	WELL DEPTH	37.59 (m/ft)

PH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
7.6 (std)	4 (ntu)	9.44 (µm/cm) AT 25°C	28 (mV)	0.40 (mg/L)	14.5 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear ODOR: NA COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Sampled @ 1200 EB-1, FD-1

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
10/20/11	T. McPorter	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

Figure 2: Well Purging Field Information Form. Resubmitted August 2006

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: AGT-S1 / Racer Trust
Ref. No.: IN 000292.2011

Date: 10/20/11
Personnel:

Monitoring Well Data:

Well No.: MW-206B
Measurement Point: TOC - 643.46
Constructed Well Depth (ft): 37.43
Measured Well Depth (ft): 37.59 ft
Depth of Sediment (ft): 0.14

Sampled @ 1200

Screen Length (ft): 10 ft
Depth to Pump Intake (ft)[1]: 32 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s ~~(mL)~~ (gal)[2]: ~~1.63 gal~~ 2.59 gal
Initial Depth to Water (ft): 21.15 ft

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (~~mS/cm~~ µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL) gallons	No. of Well Screen Volumes Purged[4]
1115	400	21.14	-0.01	7.08	14.64	949.6	88	0.62	51.43	0.53	0.32
1120	400	21.14	-0.01	7.10	14.53	941.9	61	0.70	30.47	0.53	0.32
1125	400	21.14	-0.01	7.12	14.48	938.5	52	0.68	22.12	0.53	0.32
1130	400	21.14	-0.01	7.12	14.48	939.3	41	0.76	13.61	0.53	0.32
1135	400	21.14	-0.01	7.12	14.43	940.0	37	0.62	9.05	0.53	0.32
1140	400	21.14	-0.01	7.11	14.54	942.5	35	0.54	7.20	0.53	0.32
1145	400	21.14	-0.01	7.13	14.64	945.8	31	0.46	6.457	0.53	0.32
1150	400	21.14	-0.01	7.12	14.56	945.8	33	0.44	6.105	0.53	0.32
1155	400	21.14	-0.01	7.12	14.52	944.5	28	0.40	4.801	0.53	0.32

10/20/11

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 3 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Figure 3: Monitoring Well Record for Low-Flow Purging.

Resubmitted August 2006

ARCADIS

Appendix C

Water Budget Calculations

FORMER ALLISON GAS TURBINE DIVISION - PLANT 5
INDIANAPOLIS, INDIANA

WATER BUDGET CALCULATIONS FROM FIELD DATA
CLOSED HAZARDOUS WASTE SURFACE IMPOUNDMENT AREA

- Surface Area (A) of Surface Impoundment = 8.1 Acres

  8.1 Acres * 43,560 ft^2/Acre = 352,836 ft^2

- The Average Rise Rate represents the combined inflow to the Surface Impoundment due to (1) infiltration through the cover system, (2) leakage through the cutoff wall, and (3) seepage through the lower confining layer.
- Average Rise Rate in interior hydraulic monitoring wells from field data is 0.00247 ft/day. The minimum Rise Rate is 0.00234 ft/day in monitoring wells MW 201A and MW 208Aand the maximum Rise Rate is 0.00259 ft/day in monitoring well MW-203A.
- Assumed average specific yields (S_y) for natural sand/gravel and sediment in impoundment is 10-20 %.
- Rise Rates are based on data from November 4, 2011, through October 6, 2010.

Case 1: S_y = 10%

Average flow rate (Q) into Surface Impoundment: Q = A*R* Sy

Q = 352,836 ft^2 * 0.00247 ft/day * 10%

Q = 86.98 ft^3/day = 0.451gal/min

Minimum flow rate (Q) into Surface Impoundment: Q = A*R* Sy

Q = 352,836 ft^2 * 0.00234 ft/day * 10%

Q = 82.39 ft^3/day = 0.428 gal/min

Maximum flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00259\ ft/day * 10\%$

$Q = 91.34\ ft^3/day = 0.474\ gal/min$

Case 2: $S_y = 20\%$

Average flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00247\ ft/day * 20\%$

$Q = 173.96\ ft^3/day = 0.903\ gal/min$

Minimum flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00234\ ft/day * 20\%$

$Q = 164.78\ ft^3/day = 0.855\ gal/min$

Maximum flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00259\ ft/day * 20\%$

$Q = 182.69\ ft^3/day = 0.948\ gal/min$

Calculation of Specific Yield

- Calculation based on average rise rate from October 6, 2010 through November 4, 2011.
- Minimal (Negligible) pumping from the extraction wells occurred during this period.
- During the period of May 12, 1998, through November 3, 1998, 1,274,237 gallons were pumped from within the cutoff wall. The average change in elevation within the cutoff wall during this period was —3.07 feet including combined inflow. The decrease in elevation would have been greater except for the combined inflow within the cutoff wall. The rise in elevation was 0.56 feet. Therefore, the change in elevation within the cutoff wall is 3.63 feet.

The average increase in groundwater elevation is:

Rise rate * number of days

= 0.00229 ft/day * 560 days

= 1.2824 feet

Calculating the number of gallons that would infiltrate the impoundment using a ratio comparing the amount of gallons pumped with the total change in elevation to the amount of gallons infiltrated (X) to the average rise over the period of pumping.

$$\frac{1{,}274{,}237 \text{ gallons}}{3.63 \text{ feet}} \qquad \frac{(X) \text{ gallons}}{1.2824 \text{ feet}}$$

X = 450,160 gallons would seep into the contained area of the impoundment over 560 days at 0.00229 ft/day

Q = Combined inflow within the cutoff wall

Q = 450,160 gallons / 560 days

Q = 803.86 gallons/day = 107.48 ft^3/day

$$Sy = Q/AR$$

$$S_y = (107.48 \text{ ft}^3/\text{day}) / (352{,}836 \text{ ft}^2)\ (0.00229 \text{ ft/day})$$

$$Sy = .133 = 13.3\%$$

Case 3: $S_y = 13.3\%$

Average flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836 \text{ ft}^2 * 0.00247 \text{ ft/day} * 13.3\%$

$Q = 115.68 \text{ ft}^3/\text{day} = 0.600 \text{ gal/min}$

Minimum flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00234\ ft/day * 13.3\%$

$Q = 109.58\ ft^3/day = 0.569\ gal/min$

Maximum flow rate (Q) into Surface Impoundment: $Q = A*R*S_y$

$Q = 352{,}836\ ft^2 * 0.00259\ ft/day * 13.3\%$

$Q = 121.49\ ft^3/day = 0.631\ gal/min$

Estimated Date To Turn Pumps On

- Average groundwater elevation for the interior wells on November 4, 2011, is 664.44 ft. Groundwater elevations in monitoring wells that have the minimum and maximum Rise Rates are 663.32 ft (MW-205A) and 665.32 ft (MW-206A), respectively.

- The Closure Plan states the pumps should turn on when the level inside the cutoff wall is within one foot of the lower or upper sand and gravel unit. The estimated dates for the pumps to turn on based on the rise rates are:

Average R: = ((668.52-1)-664.44)ft / 0.00247 ft/day
= 1250 days

11/4/11 + 1250 days = 4/6/2015

Minimum R: = ((668.52-1)-663.32)ft / 0.00234 ft/day
= 1798 days

11/4/11 + 1798 days = 10/6/2016

Maximum R: = ((668.52-1)-665.32)ft / 0.00259 ft/day
= 849 days

11/4/11 + 849 days = 3/2/2014

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Appendix D

Original Water Budget Calculations

I-1 DEWATERING ASSUMPTIONS

Closure will require dewatering within the intragradient cutoff wall to maintain an inward hydraulic gradient during post-closure. For the purposes of completing calculations for dewatering, the following assumptions have been made. These assumptions pertain to the previously measured and current in-situ Site conditions to estimate the amount of groundwater that will require removal during post-closure.

- The intragradient cutoff wall surrounds an area of approximately 8.1 acres. The average hydraulic conductivity ("K") of the cutoff wall is 2×10^{-5} cm/s. (GZA, 1993).

- The cutoff wall is keyed into the underlying clay layer at a depth of approximately 55 feet below ground surface. The linear distance of the wall is 2219 ft. (Paul I. Cripe, Inc., 1992). The thickness of the cutoff wall is 3 feet (GZA, 1993).

- The underlying clay layer displays a "K" value of approximately 6.1×10^{-7} cm/s. The elevations of the top of the clay layer vary from 638 ft MSL to 646 ft MSL with an average of 641 ft MSL. This clay unit is averagely 15 feet thick (Geraghty & Miller, 1991).

- Below the clay unit is the lower sand/gravel unit, which extends to the top of bedrock shale layer and has an average thickness of 35 feet. The static groundwater levels in this unit were measured in 1991 at approximately 660 ft MSL (Geraghty & Miller, 1991). Recent data from Reilly Industries, Inc. suggests the groundwater elevation in the lower sand and gravel may range from about 665 ft., MSL to 670 ft., MSL.

- Based on 1985-1990 groundwater elevations in RCRA wells (see Attachment 1), static groundwater elevations outside the cutoff wall are approximately 670 ft MSL and 20 feet below ground surface. Static groundwater elevations within the cutoff wall will be maintained between approximately 663 and 659 ft MSL.

- Calculations include:

  (1) Infiltration calculation.
  (2) Horizontal leakage through the cutoff wall; and,
  (3) Vertical leakage through the underlying clay layer.

- The average daily precipitation and infiltration through the final cover are unchanged from the averages used in the development of the Closure Plan.

I-2 INFILTRATION CALCULATIONS

Infiltration calculations are made for the average daily precipitation after final cover installation:

- Calculations are based on an average annual precipitation equally distributed over 365 days (0.1 inches per day). Evaporation, transpiration, and surface runoff were considered. The calculations will give the average expected daily infiltration over a one-year period. Infiltration through the final cover system is considered to be 0.1 percent.

Surface area of cap	=	8.1 acres
Precipitation	=	0.1 inches per day
Infiltration	=	0.001
Average daily infiltration after final cover installation	=	22 gallons per day

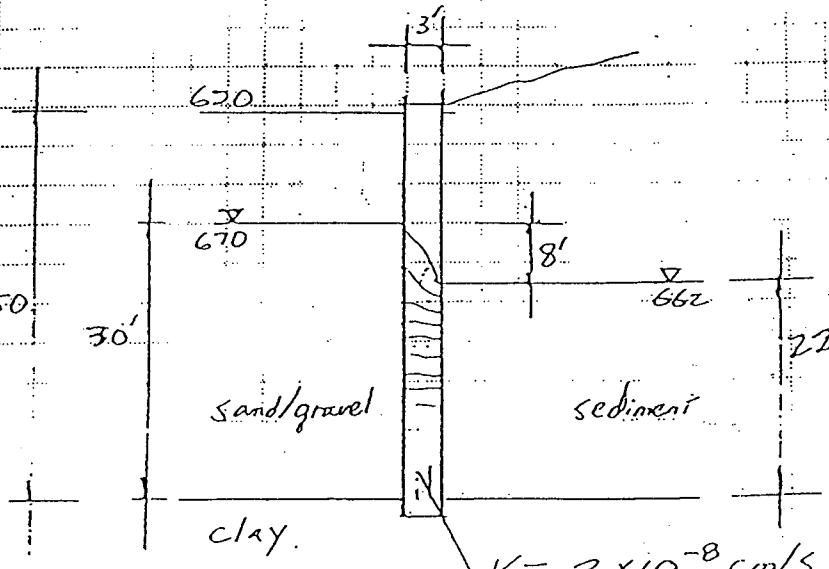
/60500/6051200/CORRES/CUTOFF/POST_DW.CAL

Project ALLISON ENGINE COMPANY — File No. 60512.00
Location INDIANAPOLIS, IN — Date — By J.CAI
Subject DEWATERING CALCULATION — Checked — By
Based on — Revised — By

I-3 HORIZONTAL LEAKAGE VIA CUT-OFF WALL

HEAD ELEVATION OUTSIDE THE WALL 670 FEET
HEAD ELEVATION INSIDE THE WALL 662 FEET

THICKNESS OF THE WALL = 3 FEET



$K = 2 \times 10^{-8}$ cm/s
$= 5.67 \times 10^{-5}$ ft/day

Assume: cut-off wall is isotropic
Homogeneous
Flow is steady-state

Using flow net (See NEXT PAGE)

$Q/ft = K \cdot H \frac{n_f}{n_d}$

K = hydraulic conductivity
H = Total Head difference
n_f = No. of flow channels
n_d = No. of Head drops

$n_f = 4.0$, $n_d = 5$ (from flow net)

$Q/ft = 5.67 \times 10^{-5}$ ft/day $\cdot 8$ ft $\cdot \frac{4.0}{5} = 3629 \times 10^{-5}$ ft^3/day-ft

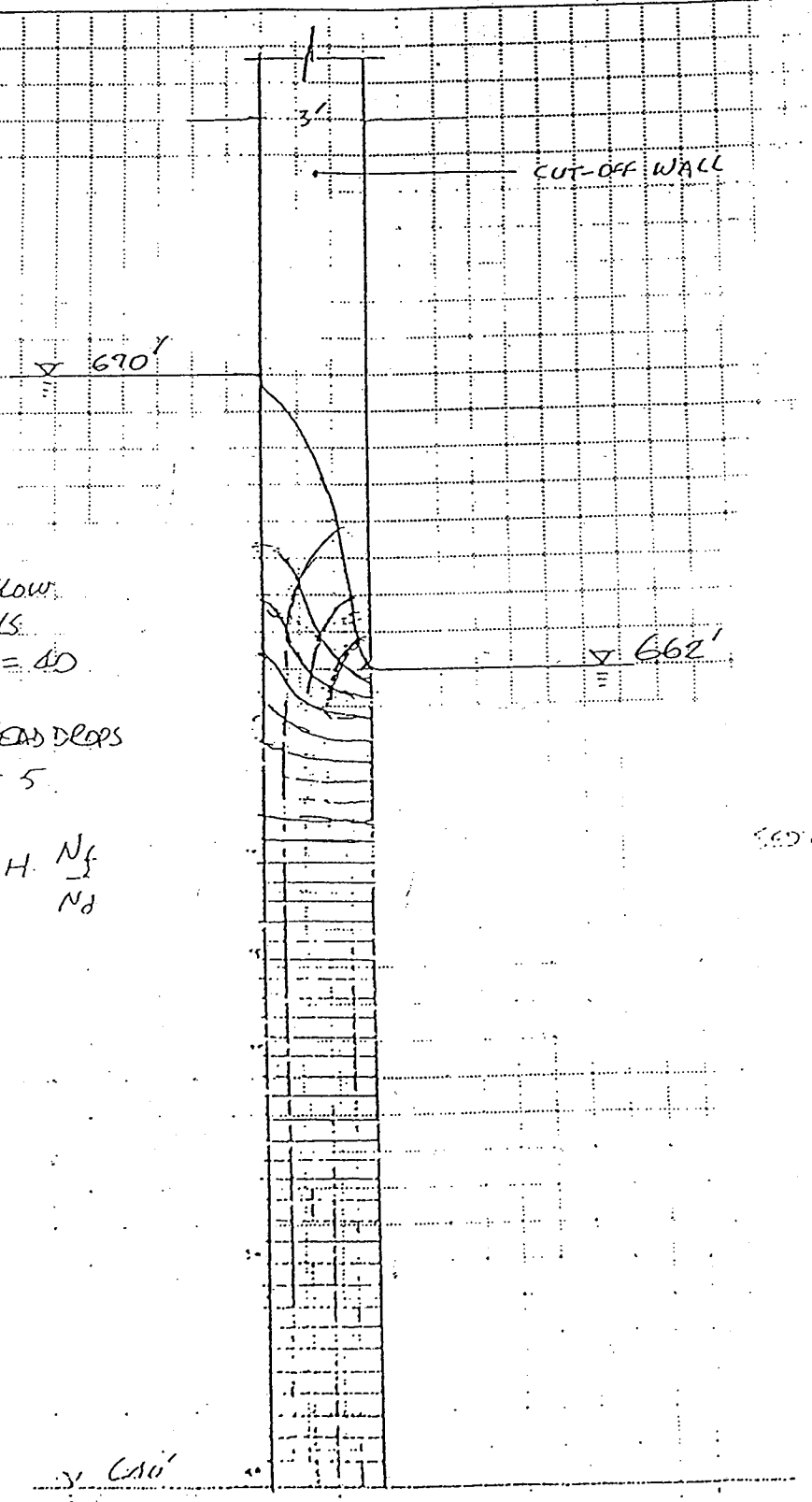
Total length of the wall = 2210 ft

∴ Total leakage across the wall

$Q = Q/ft \times 2210$ ft $= 3629 \times 10^{-5} \times 2210 = 8.05$ ft^3/day $= 0.042$ gallons/min

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Project ALLISON PLANT #5 File No. 60512.00
Location INDIANAPOLIS, IN Date By JC
Subject FLOW NET FOR HORIZONTAL FLOW VIA CUT-OFF WALL Checked By JWK
Based on Revised By



TOTAL FLOW CHANNELS
$N_f = 4.0$

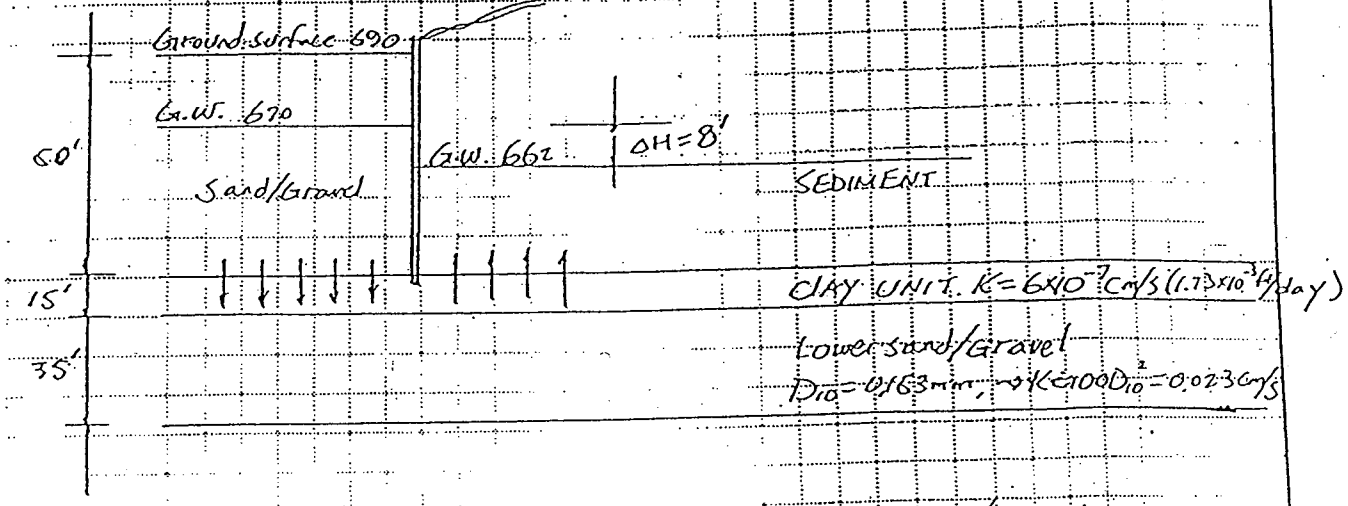
TOTAL HEAD DROPS
$N_d = 5$

$$\frac{Q}{\text{l.f.}} = K \cdot H \frac{N_f}{N_d}$$

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Project ALLISON ENGINE COMPANY #PLANTS 5 File No. 6a512.00
Location INDIANAPOLIS, IN. Date By J.C.
Subject DEWATERING CALCULATION Checked By
Based on Revised By

I-4 Vertical Leakage Via Underlying Clay Unit



Assume: ① No Head loss in the upper Sand/Gravel unit outside the cut-off wall.
② No head loss in the sediment inside the cut-off wall.
③ No head loss in the lower sand/Gravel unit therefore, the head elevation in the lower Sand/Gravel unit is 670-4' = 666'

The water elevation in the lower Sand/Gravel unit is 660 ft (USGS Datum), from 1991 Monitoring Well data.

When the water level outside the wall is 670, water will flow downward to the lower aquifer, recharging the lower aquifer. And, water in lower aquifer flow upward to the inside of the cap. The lower aquifer serves a conduit for water flowing from outside to inside vertically.

Neglecting the head loss in the lower aquifer, the flow path

$L = 15' + 15' = 30'$

$i = \frac{8'}{30'}$

$\Delta H = 8'$

Flow into the cap:

$$Q = KAi = 1.73 \times 10^{-3}\ ft/day \times 8\ acre \times 43560\ ft^2/acre \times \frac{1}{30'}$$

$$= 16.8\ ft^3/day = 1.2 \times 10^{2}\ gallons/day$$

$$= 0.083\ gallons/min$$

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Project ALLISON ENGINE COMPANY #PLANT 5 File No. 60512.00
Location INDIANAPOLIS, IN Date By J.S.
Subject DEWATERING CALCULATIONS Checked By WK
Based on Revised By

I-5 Post-closure Dewatering Budget

Total Leakage = Infiltration Rate through cap
+ horizontal leakage through cutoff wall
+ Vertical leakage through clay unit

$$Q_{total} = 22 \text{ gallons/day} \times \frac{1 \text{ day}}{24 \times 60 \text{ min}}$$

$$+ 0.042 \text{ gallons/min}$$

$$+ 0.834 \text{ gallons/min}$$

$$= 0.9 \text{ gallons/min}$$

Project GM - ALLISON File No. 60512
Location INDIANAPOLIS, IN Date 1-30-95 By WJTW
Subject WATER Budget ESTIMATIONS Checked By MML
Based on Revised By

I-6 Dewatering Estimation From Field Data

- SURFACE AREA OF CAP ≅ 8 ACRES

$$8 \text{ ACRES} \times 43{,}560 \frac{\text{ft}^2}{\text{ACRE}} \cong 350{,}000 \text{ ft}^2$$

- Average Recovery Rate in Interior Hydraulic Head Monitoring Wells after removal of Temporary Groundwater Extraction System ≅ 0.01 ft/day (Based on 90% Groundwater Elevation in MW-20A through MW-20F, See Attachment 3)

- Assumed average porosity of natural sand/gravel and sediment in impoundment: n = 30% - 40%

- Assumed average specific yields for natural sand/gravel and sediment in impoundment: S_y = 10% - 20%

CASE 1 S_y = 10%

Estimated flow rate into cap area =

$350{,}000 \text{ ft}^2 \times 0.01 \frac{\text{ft}}{\text{day}} \times 0.10 = 350 \text{ ft}^3/\text{day}$

$350 \text{ ft}^3/\text{day} \times 7.48 \text{ gal/ft}^3 = 2600 \text{ gal/day}$

$2{,}600 \text{ gal/day} \times 1 \text{ day/1440 min} = 1 \text{ hour/60 min} = 1.8 \text{ gal/minute}$

GZA Remediation, Inc.
Integrated Environmental Services

Project	GM- ALLISON	File No.	60512
Location	INDIANAPOLIS, IN	Date	1-30-95 By [illegible]
Subject	WATER BUDGET ESTIMATIONS	Checked	By [illegible]
Based on		Revised	By

CASE 2: $S_y = 15\%$

$350{,}000 \text{ ft}^2 \times 0.01 \text{ ft/day} \times 0.15 = 525 \text{ ft}^3/\text{DAY}$

$525 \text{ ft}^3/\text{day} \times 7.48 \frac{\text{gal}}{\text{ft}^3} = 3{,}900 \text{ gal/DAY}$

$3{,}900 \text{ gal/DAY} \times 1 \text{ DAY}/24 \text{ h} \times 1 \text{ hour}/60 \text{ min} = \underline{2.7 \text{ gal/minute}}$

CASE 3: $S_y = 20\%$

$350{,}000 \text{ ft}^2 \times 0.01 \text{ ft/day} \times 0.20 = 700 \text{ ft}^3/\text{DAY}$

$700 \text{ ft}^3/\text{day} \times 7.48 \frac{\text{gal}}{\text{ft}^3} = 5{,}200 \text{ gal/DAY}$

$5{,}200 \text{ gal/day} \times 1 \text{ day}/24 \text{ hour} \times 1 \text{ hour}/60 \text{ min} = \underline{3.6 \text{ gal/minute}}$

- Groundwater extraction wells will pump when elevation inside cap reaches 663.
- Average groundwater elevation inside cap as of 11/1/94: [illegible]
- Estimated date that extraction wells begin pumping:

$(663 - 657 \text{ ft}) / 0.01 \text{ ft/day} = 600 \text{ Days}$

11/1/94 + 600 days = July 1996

Appendix E

Post-Closure Inspection Checklists

POST-CLOSURE INSPECTION CHECKLIST
CLOSED HAZARDOUS WAST SURFACE IMPOUNDMENT
GM FORMER AGT DIVISION
GENERAL MOTORS CORPORATION

This checklist will be used to document the findings of post-closure inspections. Post-closure inspections will be performed according to the frequency and procedures described in the approved post-closure permit application for this unit. When appropriate, the approximate location of notable conditions will be identified on the figure of the surface impoundment area that is included as Page 2 of 2 of this inspection checklist.

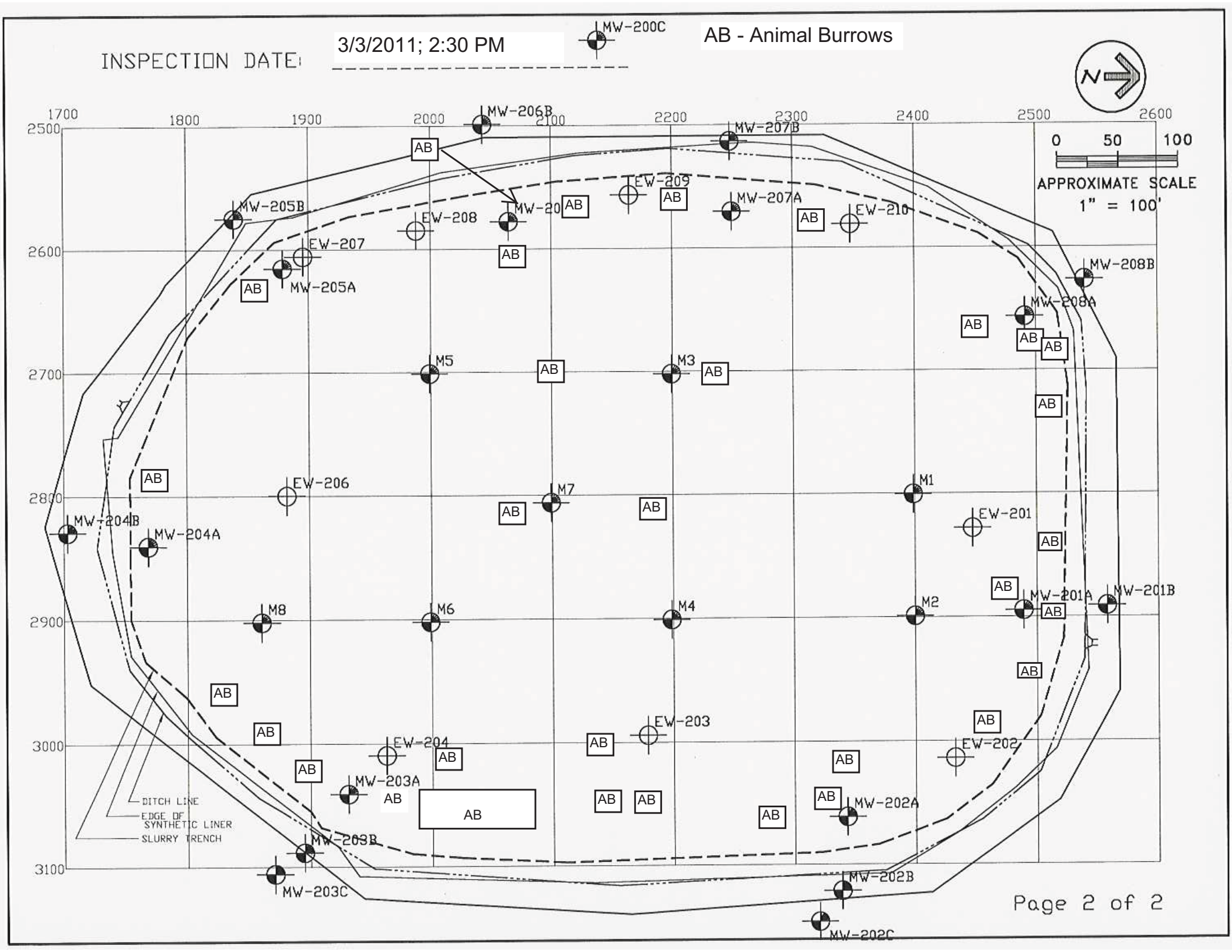
Inspector: Heather Gastineau-Lyons Time: 2:30 PM

Weather: cloudy, 45 degrees F Date: 3/3/11

Inspection Activity	Condition	Action to be Taken
1. Security Control Devices - Inspect fencing around closed unit for damage and "Warning" signs for proper posting.	Ok	None
2. Erosion Damage - Inspect final cover area extending to the centerline of the perimeter ditch for erosion damage. Stake gullies exceeding 3 inches in depth for future repair.	Ok	None
3. Cover Settlement, Subsidence, and Displacement - Inspect benchmarks for unusual settlement or damage, and the final cover system for obvious low spots and animal burrows and mark for repair.	Ok – some burrows See attached Drawing.	Continue rodenticide placement and rodent monitoring program.
4. Vegetative Cover Condition - Inspect final cover system for bare areas and quality of vegetation. Mark bare areas for reseeding.	Ok	None
5. Integrity of Run-on and Run-off Controls - Inspect culverts and perimeter drainage ditch for hindrances to flow. Mark any areas needing maintenance.	Ok	None
6. Integrity of Cover Drainage and Gas Venting Systems - Inspect discharge points of cover drainage and gas venting systems for blockage.	Ok	None
7. Integrity of Cut-off Wall - *Semi-annually* - Measure water levels in all monitoring wells and calculate the rise rate of water within the slurry wall and compare to previous rise rates (completed as part of groundwater sampling).	Not part of inspection.	None
8. Monitoring Well Condition - Inspect locks for proper operation, protective casings for integrity, and labels for readability. *Semi-annually* - Measure total well depth to check for siltation (completed during groundwater sampling).	Ok Not part of inspection.	None
9. Extraction Well System Functionality - Quarterly - Inspect groundwater extraction system control building for proper functioning. *Annually* – Turn on extraction wells. AB	Ok Not part of inspection.	None

INSPECTION DATE: 3/3/2011; 2:30 PM

AB - Animal Burrows



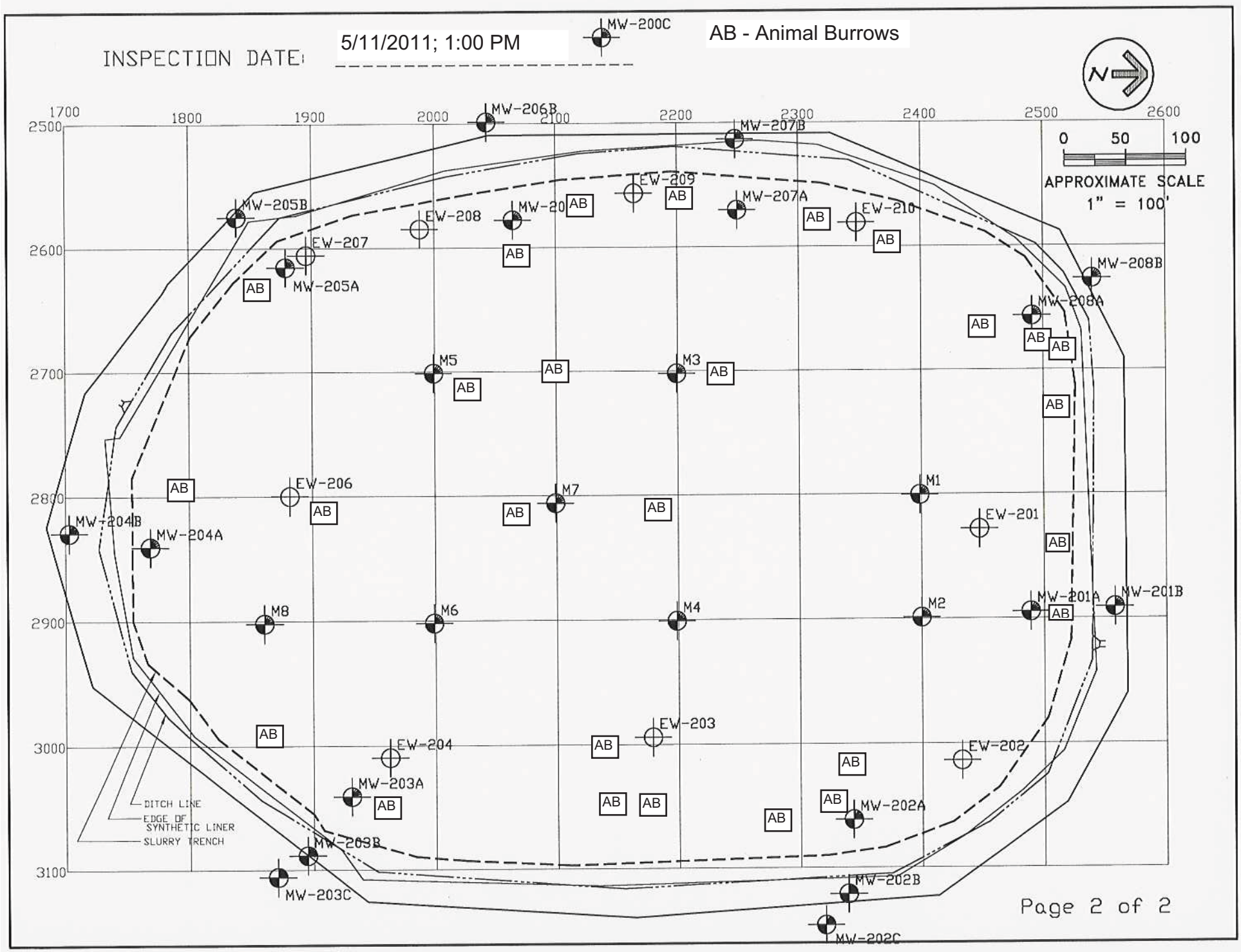
POST-CLOSURE INSPECTION CHECKLIST
CLOSED HAZARDOUS WAST SURFACE IMPOUNDMENT
GM FORMER AGT DIVISION
GENERAL MOTORS CORPORATION

This checklist will be used to document the findings of post-closure inspections. Post-closure inspections will be performed according to the frequency and procedures described in the approved post-closure permit application for this unit. When appropriate, the approximate location of notable conditions will be identified on the figure of the surface impoundment area that is included as Page 2 of 2 of this inspection checklist.

Inspector: Heather Gastineau-Lyons Time: 1:00 PM

Weather: sunny, 85 degrees F Date: 5/11/11

Inspection Activity	Condition	Action to be Taken
1. Security Control Devices - Inspect fencing around closed unit for damage and "Warning" signs for proper posting.	Ok	None
2. Erosion Damage - Inspect final cover area extending to the centerline of the perimeter ditch for erosion damage. Stake gullies exceeding 3 inches in depth for future repair.	Ok	None
3. Cover Settlement, Subsidence, and Displacement - Inspect benchmarks for unusual settlement or damage, and the final cover system for obvious low spots and animal burrows and mark for repair.	Ok – some burrows See attached Drawing.	Continue rodenticide placement and rodent monitoring program.
4. Vegetative Cover Condition - Inspect final cover system for bare areas and quality of vegetation. Mark bare areas for reseeding.	Ok – needs mowing, waiting for Mainscape Certificate of Insurance approval	None
5. Integrity of Run-on and Run-off Controls - Inspect culverts and perimeter drainage ditch for hindrances to flow. Mark any areas needing maintenance.	Ok	None
6. Integrity of Cover Drainage and Gas Venting Systems - Inspect discharge points of cover drainage and gas venting systems for blockage.	Ok	None
7. Integrity of Cut-off Wall - *Semi-annually* - Measure water levels in all monitoring wells and calculate the rise rate of water within the slurry wall and compare to previous rise rates (completed as part of groundwater sampling).	Not part of inspection.	None
8. Monitoring Well Condition - Inspect locks for proper operation, protective casings for integrity, and labels for readability. *Semi-annually* - Measure total well depth to check for siltation (completed during groundwater sampling).	Ok Not part of inspection.	None
9. Extraction Well System Functionality - Quarterly - Inspect groundwater extraction system control building for proper functioning. *Annually* – Turn on extraction wells. AB	Ok Not part of inspection.	None


INSPECTION DATE: 5/11/2011; 1:00 PM
AB - Animal Burrows
MW-200C
N
0 50 100
APPROXIMATE SCALE
1" = 100'
1700 1800 1900 2000 2100 2200 2300 2400 2500 2600
2500 2600 2700 2800 2900 3000 3100
MW-206B
MW-207B
EW-209
MW-207A
EW-210
EW-208
MW-205B
EW-207
MW-205A
MW-208B
MW-208A
M5
M3
M7
M1
EW-206
MW-204B
MW-204A
EW-201
M8
M6
M4
M2
MW-201A
MW-201B
EW-203
EW-204
EW-202
MW-203A
MW-202A
DITCH LINE
EDGE OF SYNTHETIC LINER
SLURRY TRENCH
MW-203B
MW-203C
MW-202B
MW-202C
AB
Page 2 of 2

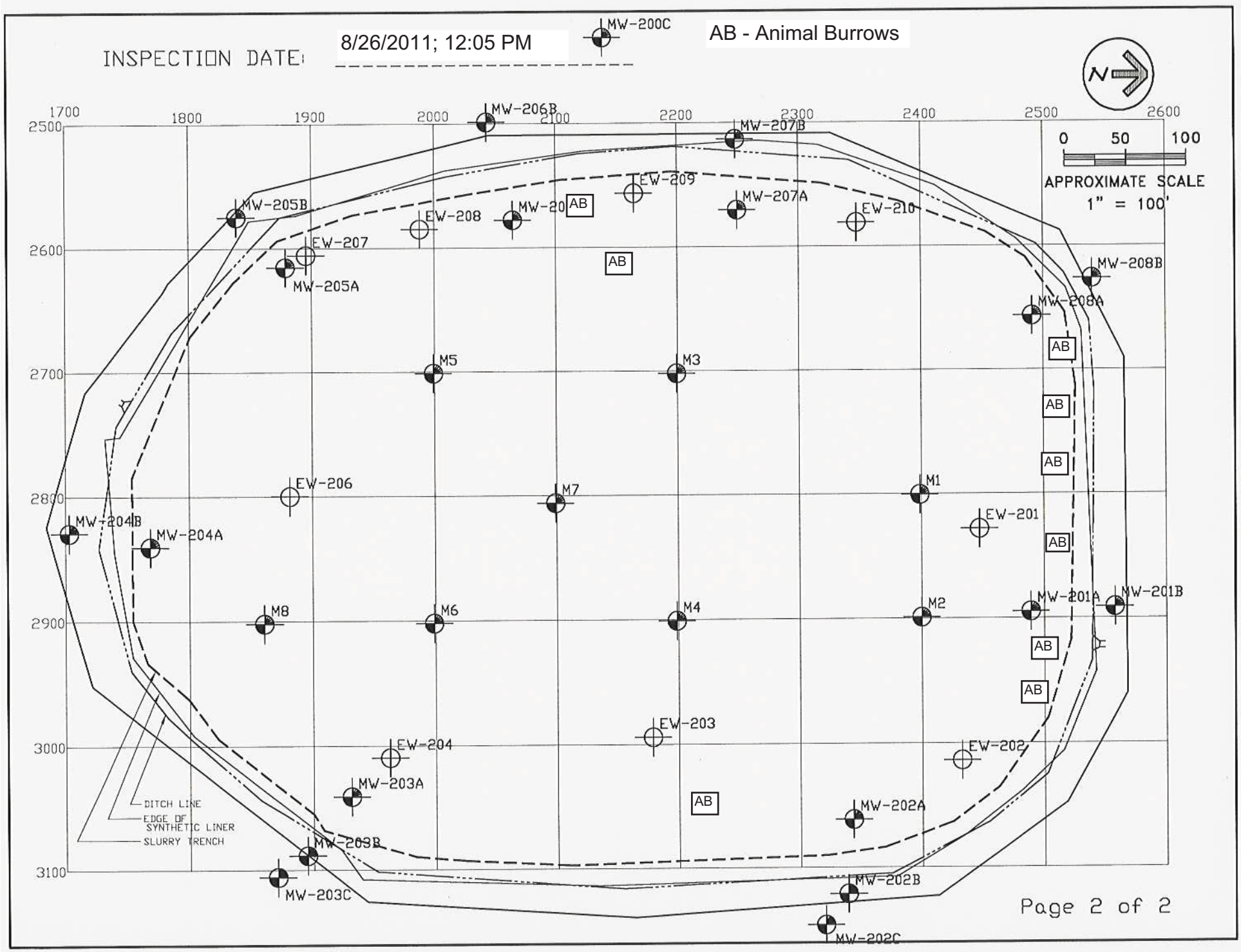
POST-CLOSURE INSPECTION CHECKLIST
CLOSED HAZARDOUS WAST SURFACE IMPOUNDMENT
GM FORMER AGT DIVISION
GENERAL MOTORS CORPORATION

This checklist will be used to document the findings of post-closure inspections. Post-closure inspections will be performed according to the frequency and procedures described in the approved post-closure permit application for this unit. When appropriate, the approximate location of notable conditions will be identified on the figure of the surface impoundment area that is included as Page 2 of 2 of this inspection checklist.

Inspector: Heather Gastineau-Lyons Time: 12:05 PM

Weather: sunny, 85 degrees F Date: 8/26/11

Inspection Activity	Condition	Action to be Taken
1. Security Control Devices - Inspect fencing around closed unit for damage and "Warning" signs for proper posting.	Ok	None
2. Erosion Damage - Inspect final cover area extending to the centerline of the perimeter ditch for erosion damage. Stake gullies exceeding 3 inches in depth for future repair.	Ok	None
3. Cover Settlement, Subsidence, and Displacement - Inspect benchmarks for unusual settlement or damage, and the final cover system for obvious low spots and animal burrows and mark for repair.	Ok – some burrows See attached Drawing.	Continue rodenticide placement and rodent monitoring program.
4. Vegetative Cover Condition - Inspect final cover system for bare areas and quality of vegetation. Mark bare areas for reseeding.	Ok	None
5. Integrity of Run-on and Run-off Controls - Inspect culverts and perimeter drainage ditch for hindrances to flow. Mark any areas needing maintenance.	Ok	None
6. Integrity of Cover Drainage and Gas Venting Systems - Inspect discharge points of cover drainage and gas venting systems for blockage.	Ok	None
7. Integrity of Cut-off Wall - *Semi-annually* - Measure water levels in all monitoring wells and calculate the rise rate of water within the slurry wall and compare to previous rise rates (completed as part of groundwater sampling).	Not part of inspection.	None
8. Monitoring Well Condition - Inspect locks for proper operation, protective casings for integrity, and labels for readability. *Semi-annually* - Measure total well depth to check for siltation (completed during groundwater sampling).	Ok Not part of inspection.	None
9. Extraction Well System Functionality - Quarterly - Inspect groundwater extraction system control building for proper functioning. *Annually* – Turn on extraction wells.	Ok Not part of inspection.	None


INSPECTION DATE: 8/26/2011; 12:05 PM
AB - Animal Burrows
MW-200C
MW-206B
MW-207B
MW-205B
EW-209
MW-207A
EW-208
MW-20
EW-210
EW-207
MW-205A
MW-208B
MW-208A
M5
M3
EW-206
M7
M1
MW-204B
MW-204A
EW-201
M8
M6
M4
M2
MW-201A
MW-201B
EW-203
EW-204
EW-202
MW-203A
MW-202A
MW-203B
MW-203C
MW-202B
MW-202C
AB
N
0 50 100
APPROXIMATE SCALE
1" = 100'
DITCH LINE
EDGE OF SYNTHETIC LINER
SLURRY TRENCH
1700 1800 1900 2000 2100 2200 2300 2400 2500 2600
2500 2600 2700 2800 2900 3000 3100

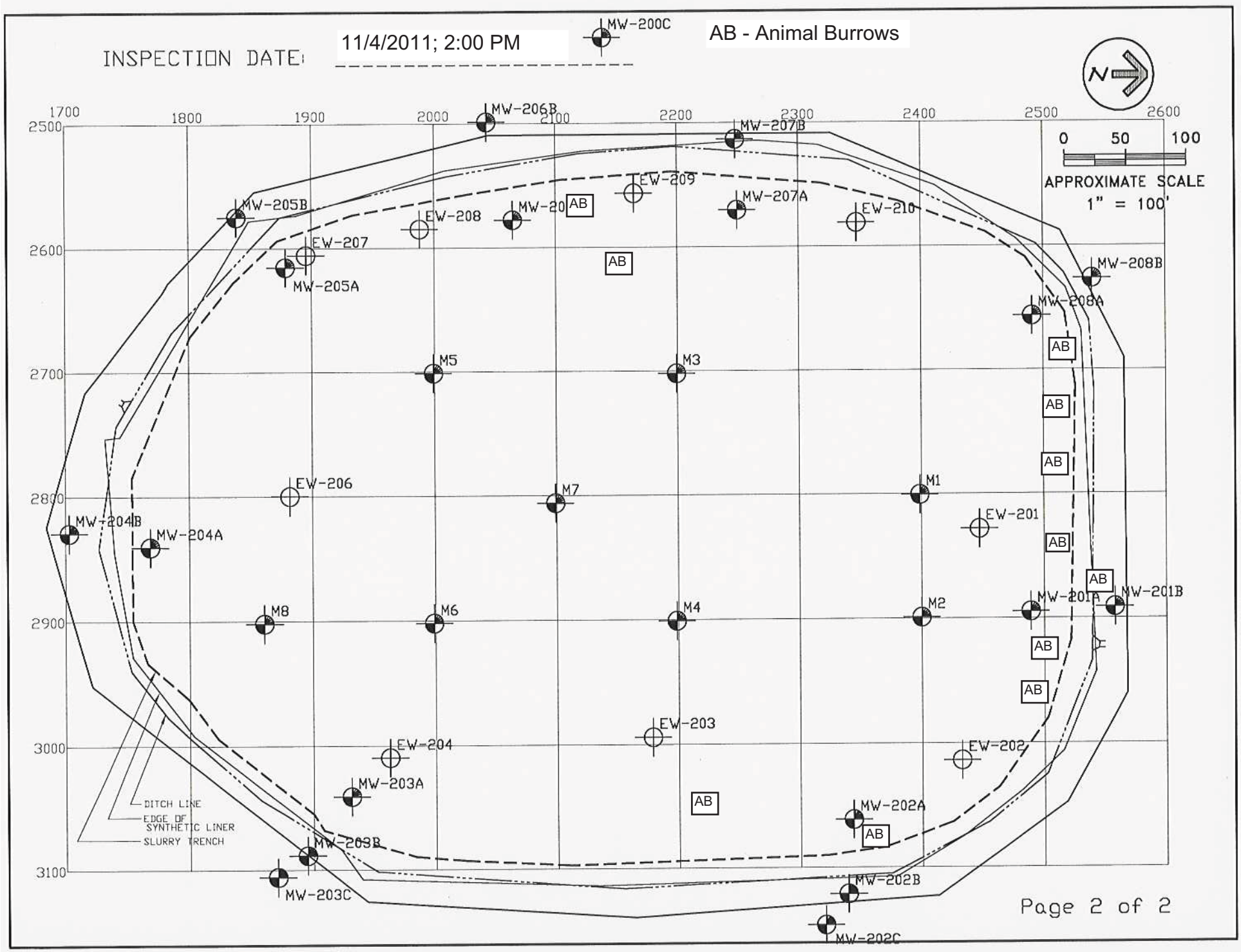
POST-CLOSURE INSPECTION CHECKLIST
CLOSED HAZARDOUS WAST SURFACE IMPOUNDMENT
GM FORMER AGT DIVISION
GENERAL MOTORS CORPORATION

This checklist will be used to document the findings of post-closure inspections. Post-closure inspections will be performed according to the frequency and procedures described in the approved post-closure permit application for this unit. When appropriate, the approximate location of notable conditions will be identified on the figure of the surface impoundment area that is included as Page 2 of 2 of this inspection checklist.

Inspector: Heather Gastineau-Lyons Time: 2:00 PM

Weather: sunny, 50 degrees F Date: 11/4/11

Inspection Activity	Condition	Action to be Taken
1. Security Control Devices - Inspect fencing around closed unit for damage and "Warning" signs for proper posting.	Ok	None
2. Erosion Damage - Inspect final cover area extending to the centerline of the perimeter ditch for erosion damage. Stake gullies exceeding 3 inches in depth for future repair.	Ok	None
3. Cover Settlement, Subsidence, and Displacement - Inspect benchmarks for unusual settlement or damage, and the final cover system for obvious low spots and animal burrows and mark for repair.	Ok – some burrows See attached Drawing.	Continue rodenticide placement and rodent monitoring program.
4. Vegetative Cover Condition - Inspect final cover system for bare areas and quality of vegetation. Mark bare areas for reseeding.	Ok	None
5. Integrity of Run-on and Run-off Controls - Inspect culverts and perimeter drainage ditch for hindrances to flow. Mark any areas needing maintenance.	Ok	None
6. Integrity of Cover Drainage and Gas Venting Systems - Inspect discharge points of cover drainage and gas venting systems for blockage.	Ok	None
7. Integrity of Cut-off Wall - *Semi-annually* - Measure water levels in all monitoring wells and calculate the rise rate of water within the slurry wall and compare to previous rise rates (completed as part of groundwater sampling).	Not part of inspection.	None
8. Monitoring Well Condition - Inspect locks for proper operation, protective casings for integrity, and labels for readability. *Semi-annually* - Measure total well depth to check for siltation (completed during groundwater sampling).	Ok Not part of inspection.	None
9. Extraction Well System Functionality - Quarterly - Inspect groundwater extraction system control building for proper functioning. *Annually* – Turn on extraction wells.	Ok Not part of inspection.	None


INSPECTION DATE: 11/4/2011; 2:00 PM
AB - Animal Burrows
N
APPROXIMATE SCALE
1" = 100'
0 50 100
1700 1800 1900 2000 2100 2200 2300 2400 2500 2600
2500 2600 2700 2800 2900 3000 3100
MW-200C
MW-206B
MW-207B
MW-205B
EW-209
MW-207A
EW-208
MW-20
EW-210
EW-207
MW-205A
MW-208B
MW-208A
M5
M3
EW-206
M7
M1
MW-204B
MW-204A
EW-201
M8
M6
M4
M2
MW-201A
MW-201B
EW-203
EW-204
EW-202
MW-203A
MW-202A
MW-203B
MW-202B
MW-203C
MW-202C
AB
DITCH LINE
EDGE OF SYNTHETIC LINER
SLURRY TRENCH
Page 2 of 2

ARCADIS

Appendix F

Extraction System Documentation

Table 1. Extraction Well Status. Closed Hazardous Waste Surface Impoundment, GM Former AGT Division, Indianapolis, Indiana.

Extraction Well	Pump Status	Flow Meter Before Turning On	Flow Meter After Turning Off	Gallons Pumped	Flow Rate (GPM)	Comments	Recommendations	Work Completed
EW-201	operational	565483.0	565515.0	32	32			
EW-202	Operational	190827	190857	30	30	slow drip from ball check - flowmeter side	Replace gasket	
EW-203	Operational	964077.5	964115.0	38	38			
EW-204	operational	9222.0	9242.5	22.5	22.5	water in basin	pumped out 10/24	
EW-206	Operational	287113.0	287141.0	28	28			
EW-207	nonoperational	276033.5	same	—	—	electrical humming noise	Replace transformer	
EW-208	operational	608272.0	608302.0	30	30			
EW-209	operational	188.0	224.5	36.5	36.5	water in basin	pumped out 10/24	
EW-210	Nonoperational	26835420	same	—	—	electrical humming noise	Replace transformer	

Flow meter reading in Discharge Building before testing: 631150

Flow meter reading in Discharge Building after testing: 631257

Total Gallons Pumped in Discharge Building flow meter: 107 gal

Date Completed: 10/24/2011

Effluent Sample Collected: 12:07

Notes:

[1] Used good fuses to test extraction well during test. At end of test, changed out to original fuses which are not functional.

Gallons pumped from each individual extraction well flow meter may not equal that of total gallons pumped in Discharge Building flow meter for the following reasons: 1) individual and Discharge Building flow meters may need to be recalibrated and/or 2) water pumped from each individual extraction well may not have drained to the Discharge Building during the testing period.

ARCADIS

Appendix G

2012 Budget Authorization

November 15, 2011

Ms. Jennifer Reno
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, IN 46204

RE: 2012 Budget Authorization
Former AGT Surface Impoundment
USEPA ID No. INR000021436

Dear Ms. Reno:

A Remediation Cost Estimate Summary ("RCES") was prepared for each of the former General Motors sites controlled by Motors Liquidation Company ("MLC"). When the Bankruptcy Court approved the formation of the Revitalizing Auto Communities Environmental Response Trust ("RACER") the budgets adopted by MLC provided the basis for the allocation of funding for each site listed on Attachment A to the Environmental Response Trust Consent Decree and Settlement Agreement ("Settlement Agreement"). The anticipated scope of work and the schedule for each site were also included in each RCES.

Under the Settlement Agreement RACER is obligated annually to prepare and review with the applicable lead agency a proposed budget and schedule. The budget must be approved by the lead agency.

This letter is intended to explain any adjustments to the scope of work or other modifications to the RCES to create an evolving record of the scope of work and budget for each site. Because the original RCES was based by necessity on a range of assumptions, as new and better information is developed for each site the scope of work and budgets must be refined accordingly. This letter highlights and documents those changes and explains how issues have evolved at the site based on new or better information. It is intended that this summary will be prepared for each site each year until the conclusion of the remedial work.

<u>Modifications from 2011 Edition of the RCES</u>

1. To facilitate project management and reduce an unnecessarily complicated task breakdown structure, many tasks in the RCES have been combined.

2. RACER Trust plans to submit a Permit Modification with Prior Approval in 2011 to reduce the groundwater monitoring at the site to an annual basis and reduce the frequency for settlement monument survey to an every three-year basis.

Based on conversations with IDEM, RACER Trust is including annual groundwater monitoring and will not include surveying of the settlement monuments.

3. Budget has been reallocated to years where the task is likely to be completed, whereas the original RCES spread costs out amongst all years.

Project and Schedule Summary

The operation and maintenance for this site has been on-going for 15 years. Pumping from the extraction system occurs approximately every three to five years, depending on rise rate of the groundwater within the slurry wall. Certain tasks are completed on a quarterly or annual basis. Groundwater monitoring is expected to be completed on an annual basis while groundwater gauging inside and outside the slurry wall will be completed on a semi-annual basis. The mowing of the property occurs on a monthly basis between April and September. The rodent baiting/trapping occurs on a monthly basis for the entire year, since voles are not hibernating animals.

2012 Budget Request

The following highlights the primary budget components for 2012. Detailed backup summaries and explanation of work plan details are included in the 2012 budget request – attached.

1	Task 1	Groundwater System O&M		$16,251.55
2	Task 2	Property O&M		$10,862.00
3	Task 3	Project Management		$7,884.00
			Totals	$34,997.55

Please contact me if you have any questions about the above, or attached 2012 budget request. Otherwise, with your signature added to the 2012 budget request, the scope outlined in the attached documents will be initiated per the schedule included with the budget request.

Sincerely,

Robert W. Hare, P.E., CHMM
Cleanup Manager – (IL, IN, KS, MO, NJ, WI)

Attachment – 2012 Annual Environmental Action Budget Authorization Request

Revitalizing Auto Communities
Environmental Response Trust

FORMER AGT SURFACE IMPOUNDMENT (1325)
2012 ANNUAL ENVIRONMENTAL ACTION
BUDGET AUTHORIZATION REQUEST
November 15, 2011

INTRODUCTION

This 2012 Annual Environmental Action (EA) Budget Authorization Request is submitted pursuant to Paragraph 49 of the Settlement Agreement and has been prepared under the supervision of Elliott Laws, Managing Member, EPLET, LLC, Administrative Trustee of the Revitalizing Auto Communities Environmental Response Trust.

OVERVIEW OF 2012 ANNUAL BUDGET AUTHORIZATION REQUEST

This 2012 Annual Budget Authorization Request is being submitted to request approval for activities that are anticipated to be completed in the 2012 calendar year. These activities include:

- **Groundwater System O&M -** Groundwater monitoring (includes data evaluation and reporting), electrical utility, cut-off wall inspection (groundwater level measurements and data evaluation), and groundwater extraction system inspection and maintenance.
- **Property O&M -** Rodent baiting and trapping, fence maintenance, routine inspection (quarterly), survey settlement monuments.
- **Project Management** – project management and RCRA Permit fees.

2012 Annual Budget Authorization Request Amount: $34,997.55

Please see Attachment 1 for a cost breakdown that resulted in the amounts included in the property specific funding for this Site as listed in Attachment A to the Settlement Agreement; Attachment 2 for estimated costs through December 31, 2011 and a comparison to the Minimum Funding; Attachment 3 for more details in support of the proposed 2012 EA budget; Attachment 4 for a projected schedule and milestones; and Attachment 5 for cost reallocation for future years.

MODIFICATION OF REMEDIATION COST ESTIMATE SCOPE OF WORK AND BUDGET

X This Annual Budget Authorization Request includes work and/or budget that varies from the most recent Remediation Cost Estimate Summary (dated May 2010) for the Site.

Brief Description (if checked):

- RACER Trust plans to submit a *Permit Modification with Prior Approval* in 2011 to reduce the groundwater monitoring at the site to an annual basis and reduce the frequency for settlement monument survey to an every three-year basis. Based on conversations with IDEM, RACER Trust is including annual groundwater monitoring and will not include surveying of the settlement monuments.
- Based on existing information, it is not expected that significant groundwater pumping will be required in 2012.
- To facilitate project management and reduce an unnecessarily complicated task breakdown structure, many tasks in the RCES have been combined. The following table summarizes the consolidation:

Groundwater System O&M	**Property O&M**	**Project Management**
Task 1 - Semi-Annual Groundwater Monitoring, data evaluation, semi-annual and annual reporting	**Task 2** - Fence Maintenance	**Task 13** - Administration fees 40 hrs a year
Task 3 - Pump & discharge 1.6 Million gallons of groundwater to sanitary sewer	**Task 4** - Replace soil, seed & fertilize soil (10,000 sqft)	**Task 16** - Agency Oversight
Task 6 - Groundwater monitoring well maintenance (1 event per year)	**Task 5** - Vegetative maintenance; mowing 6 events per year	
Task 7 - Replace groundwater monitoring wells	**Task 8** - Routine Inspection (4 events per year)	
Task 9 - Cut-off wall Inspection (groundwater level measurements and data evaluation - 2 events per year)	**Task 10** - Survey Settlement monuments (1 event per year)	
Task 11 - Redevelop groundwater extraction wells	**Task 14** - Install access Culvert (Allowance)	
Task 12 - Groundwater extraction pump maintenance	**Task 15** - Replace approximately 220 feet of cut off wall	

APPROVALS

Revitalizing ~~Auto~~ Communities Environmental Response Trust

By: _____
Robert Hare, Cleanup Manager (IL, IN, KS, MO, NJ, WI)

By: _____ 11/18/11
Elliott P. Laws, Managing Member of EPLET, LLC
Administrative Trustee for RACER Trust

Indiana Department of Environmental Management

Jeffrey L. Sewell
Name

Branch Chief, Permits Branch
Title

_____
Signature

12-14-11
Date

DETAILED SUPPORT FOR THE 2012 ANNUAL EA BUDGET AUTHORIZATION REQUEST

Attachment 1 – Original Cost Breakdown
Attachment 2 – Cost to Date (since July 2010) and Comparison to Settlement Funding
Attachment 3 - Scope of Work and Detailed Budget Estimate for the 2012 Annual Budget Authorization Request
Attachment 4 – Projected 2012 Schedule and Milestones
Attachment 5 – Future Years Cost Reallocation

ATTACHMENT 1

Original Cost Breakdown

Former AGT Surface Impoundment - 1325
Schedule of Cash Flows Established by MLC

Remediation Cost Estimate - Settlement Agreement

Year	Minimum	Reserve	Long-Term Operation, Monitoring and Maintenance (LTOMM)	Total Costs (NPV) Laddered Rates	Total Cost 2009 Dollars	Contingency Cost	Expected Cost	1. Semi-Annual Groundwater Monitoring, data evaluation, semi-annual and annual reporting	Contingency	2. Fence Maintenance	Contingency	3. Pump & discharge 1.6 Million gallons of groundwater to sanitary sewer	Contingency	4. Replace soil, seed & fertilize soil (10,000 sqft)	Contingency	5. Vegetative maintenance; mowing 6 events per year	Contingency	6. Groundwater monitoring well maintenance (1 event per year)	Contingency	7. Replace groundwater monitoring wells	Contingency	8. Routine Inspection (4 events per year)	Contingency	9. Cut-off wall Inspection (groundwater level measurements and data evaluation - 2 events per year)	Contingency	10. Survey Settlement monuments (1 event per year)	Contingency	11. Redevelop groundwater extraction wells	Contingency	12. Groundwater extraction pump maintenance	Contingency	13. Administration fees 40 hrs a year	Contingency	14. Install access Culvert (Allowance)	Contingency	15. Replace approximately 220 feet of cut off wall	Contingency	Agency Oversight
2009	$ -	$ -		$ -	$ -	$ -	$ -	$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -
2010	$46,460	$ -		$46,460	$45,371	$3,928	$41,443	$16,048	10%	$2,800	10%	$1,900	10%	$5,011	10%	$3,047	10%	$500	10%	$ -	10%	$515	10%	$2,077	10%	$1,029	10%	$500	10%	$800	10%	$5,055	10%	$ -	10%	$ -	10%	$2,161
2011	$59,702	$ -		$59,702	$58,078	$5,028	$53,050	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$4,200	10%	$593	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$400	10%	$7,591	10%	$2,766
2012	$52,075	$ -		$52,075	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2013	$51,178	$ -		$51,178	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2014	$49,932	$ -		$49,932	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2015	$48,697	$ -		$48,697	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2016	$47,244	$ -		$47,244	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2017	$46,113	$ -		$46,113	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2018	$14,834	$30,008		$44,842	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2019	$ -	$43,445		$43,445	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2020			$42,401	$42,401	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2021			$41,319	$41,319	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2022			$40,203	$40,203	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2023			$39,059	$39,059	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2024			$37,890	$37,890	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2025			$36,700	$36,700	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2026			$35,494	$35,494	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2027			$34,276	$34,276	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2028			$33,050	$33,050	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2029			$31,821	$31,821	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2030			$30,973	$30,973	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2031			$30,140	$30,140	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2032			$29,322	$29,322	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2033			$28,519	$28,519	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2034			$27,729	$27,729	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2035			$26,955	$26,955	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2036			$26,195	$26,195	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2037			$25,450	$25,450	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2038			$24,719	$24,719	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2039			$24,003	$24,003	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2040			$23,396	$23,396	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2041			$22,803	$22,803	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2042			$22,226	$22,226	$51,046	$4,420	$46,626	$15,500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$2,431
2043			$14,310	$14,310	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2044			$13,948	$13,948	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2045			$13,595	$13,595	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2046			$13,251	$13,251	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2047			$12,915	$12,915	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2048			$12,588	$12,588	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2049			$12,269	$12,269	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2050			$11,959	$11,959	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2051			$11,656	$11,656	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2052			$11,361	$11,361	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2053			$11,073	$11,073	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2054			$10,793	$10,793	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2055			$10,519	$10,519	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2056			$10,253	$10,253	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2057			$9,993	$9,993	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2058			$9,740	$9,740	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2059			$9,494	$9,494	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2060			$9,253	$9,253	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2061			$9,019	$9,019	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2062			$8,790	$8,790	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2063			$8,568	$8,568	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2064			$8,351	$8,351	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2065			$8,139	$8,139	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2066			$7,933	$7,933	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2067			$7,732	$7,732	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2068			$7,537	$7,537	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2069			$7,346	$7,346	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2070			$7,160	$7,160	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2071			$6,978	$6,978	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2072			$6,802	$6,802	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2073			$6,630	$6,630	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2074			$6,462	$6,462	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2075			$6,298	$6,298	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2076			$6,139	$6,139	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2077			$5,983	$5,983	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2078			$5,832	$5,832	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2079			$5,684	$5,684	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2080			$5,540	$5,540	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2081			$5,400	$5,400	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2082			$5,263	$5,263	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2083			$5,130	$5,130	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2084			$5,000	$5,000	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2085			$4,873	$4,873	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2086			$4,750	$4,750	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2087			$4,630	$4,630	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2088			$4,512	$4,512	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2089			$4,398	$4,398	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2090			$4,287	$4,287	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2091			$4,178	$4,178	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2092			$4,072	$4,072	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2093			$3,969	$3,969	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2094			$3,869	$3,869	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2095			$3,771	$3,771	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2096			$3,675	$3,675	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2097			$3,582	$3,582	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2098			$3,491	$3,491	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2099			$3,403	$3,403	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2100			$3,317	$3,317	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2101			$3,233	$3,233	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2102			$3,151	$3,151	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2103			$3,071	$3,071	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2104			$2,993	$2,993	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2105			$2,918	$2,918	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2106			$2,844	$2,844	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2107			$2,772	$2,772	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2108			$2,702	$2,702	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
2109			$2,633	$2,633	$33,721	$2,920	$30,801	$500	10%	$2,800	10%	$1,900	10%	$5,000	10%	$4,800	10%	$100	10%	$2,100	10%	$600	10%	$1,500	10%	$1,000	10%	$500	10%	$800	10%	$3,600	10%	$200	10%	$3,795	10%	$1,606
	$416,235	$73,453	$1,178,419	$1,668,108	$3,945,157	$341,572	$3,603,585	$545,548		$280,000		$190,000		$500,011		$478,247		$10,400		$210,000		$59,908		$150,577		$100,029		$50,000		$80,000		$361,455		$20,000		$379,545		$187,865
							Consolidation Categories	A		B		A		B		B		A		A		B		A		B		A		A		C		B		B		C

*Amounts Included in Attachment A of the Settlement Agreement

ATTACHMENT 2

Cost to Date (since July 2010) and Comparison to Settlement Funding

Attachment 2 - Cost to Date (since July 1, 2010) and Comparison to Settlement Funding
2012 Annual Budget Authorization Request

Former AGT Surface Impoundment - 1325

Task	Task Description	Consolidation Categories	*Estimated Cost* 2010 (1)	2011 (2)	Cumulative
Task 1	Semi-Annual Groundwater Monitoring, data evaluation, semi-annual and annual reporting	A	$ 11,927	$ 27,239	$ 39,166
Task 2	Fence Maintenance	B	$ -	$ -	$ -
Task 3	Pump & discharge 1.6 Million gallons of groundwater to sanitary sewer	A	$ -	$ 1,002	$ 1,002
Task 4	Replace soil, seed & fertilize soil (10,000 sqft)	B	$ 1,943	$ 3,362	$ 5,306
Task 5	Vegetative maintenance; mowing 6 events per year	B	$ 1,581	$ 3,058	$ 4,639
Task 6	Groundwater monitoring well maintenance (1 event per year)	A	$ -	$ -	$ -
Task 7	Replace groundwater monitoring wells	A	$ -	$ -	$ -
Task 8	Routine Inspection (4 events per year)	B	$ 265	$ 1,076	$ 1,341
Task 9	Cut-off wall Inspection (groundwater level measurements and data evaluation - 2 events per year)	A	$ 1,533	$ -	$ 1,533
Task 10	Survey Settlement monuments (1 event per year)	B	$ 994	$ -	$ 994
Task 11	Redevelop groundwater extraction wells	A	$ 286	$ -	$ 286
Task 12	Groundwater extraction pump maintenance	A	$ 780	$ -	$ 780
Task 13	Administration fees 40 hrs a year	C	$ 2,734	$ 8,352	$ 11,086
Task 14	Install access Culvert (Allowance)	B	$ -	$ -	$ -
Task 15	Replace approximately 220 feet of cut off wall	B	$ -	$ -	$ -
Task 16	Agency Oversight	C	$ -	$ 1,500	$ 1,500
Task 17	Other	B	$ 1,250	$ -	$ 1,250
	Total Cost		**$ 23,293**	**$ 45,589**	**$ 68,882**

Total Estimated Cost $ 68,882

Settlement Funding Minimum $ 416,235

Minimum Remaining $ 347,353

Reserve $ 73,453
OM&M $ 1,178,419

Total Remaining $ 1,599,225

Notes

(1) July 2010 through December 2010
(2) 2011 Estimated reflects actual spent from January through August 2011 and projected spend for September through December.

ATTACHMENT 3

Scope of Work and Detailed Budget Estimate
for the 2012 Annual Budget Authorization Request

Detailed Budget Breakdown

Task 1 – Groundwater System O&M - ($16,251.55)

Groundwater Monitoring - ARCADIS will submit an annual report to IDEM, per the Permit, summarizing activities performed at the site during 2011. Pending IDEMs review and anticipated approval of a draft permit modification to reduce the groundwater monitoring at the site from Semi-Annual to Annual, ARCADIS will collect groundwater samples in the fall of 2012, via low-flow sampling techniques, from monitoring wells MW-201B, MW-202B, MW-203B, and MW-206B plus three quality assurance/quality control samples (field duplicate, equipment blank and matrix spike/matrix spike duplicate). These samples will be analyzed for arsenic, barium, cadmium, chromium, lead, mercury, silver, selenium and cyanide. Within 60 days of receiving the final results from the sampling event, ARCADIS will submit a report to the Indiana Department of Environmental Management (IDEM) evaluating whether a statistically significant increase in concentrations has occurred. ARCADIS will submit an annual report to IDEM, per the Permit, summarizing activities performed at the site during 2012; however, this task will be completed in 2013; therefore the costs for this task are not included in this budget authorization.

ARCADIS will gauge nineteen monitoring wells associated with the Surface Impoundment semi-annually (spring and fall). ARCADIS will evaluate the groundwater level data to determine when it will be necessary to pump water from within the slurry wall. ARCADIS will include the results from the inspection in the annual report to be submitted to IDEM in 2013, as required by the Post-Closure Permit.

Extraction System - ARCADIS will inspect (Fall 2012) and repair the groundwater extraction pumps, as needed and able to be completed within budget. Based on the 2011 inspection, two transformers (EW-207 and EW-210) and one gasket (EW-202) are damaged and require replacement. This replacement is budgeted to be completed in 2012. Budget to cover the utility costs and analysis of groundwater discharged during the annual extraction well maintenance event are also included.

Task 2 – Property O&M ($10,862.00)

ARCADIS will subcontract the trapping of rodents on the cap and mowing of the property within the fence line in 2012. ARCADIS will also provide necessary assistance to the subcontractors in the field, as needed. It is assumed that the trapping will occur once per month throughout the year and mowing will occur once per month for six months (April through September).

ARCADIS will conduct a visual inspection the Surface Impoundment on a quarterly basis as required by the Post-Closure Permit. ARCADIS will fill out the necessary forms to document the inspection and place a copy of the inspection in the file cabinet to be located at the discharge building north of the Surface Impoundment.

Task 3 – Project Management ($7,884.00)

ARCADIS will provide administrative support to RACER Trust during this project. Costs included in this task include, but are not limited to cost tracking, invoicing, communications with RACER Trust and/or IDEM, completion of quarterly certification reports, preparation of change orders and the 2013 budget authorization request. RACER Trust is required to pay an annual RCRA Permit Fee of $1,500, which will be included in this task.

2012 Budget Summary

Attachment 3 - Scope of Work and Detailed Budget Estimate for the 2012 Annual Budget Authorization Request

Former AGT Surface Impoundment - 1325

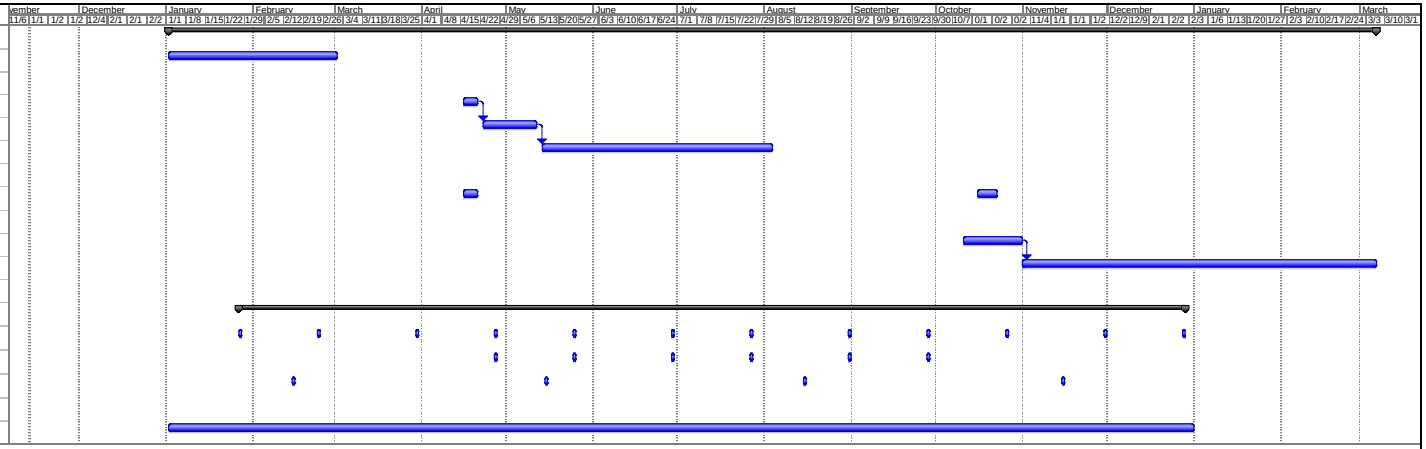
Summary by Task

Task Descriptions		2012 Annual Budget
Task 1	*Groundwater System O&M*	$16,252
Task 2	*Property O&M*	$10,862
Task 3	*Project Management*	$7,884
Totals		$34,998

ATTACHMENT 4

Projected 2012 Schedule and Milestones

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Task 1 - Groundwater System O&M**	**308 days?**	**Mon 1/2/12**	**Wed 3/6/13**	
2	2011 Annual Report	44 days?	Mon 1/2/12	Thu 3/1/12	
3					
4	Groundwater Monitoring	5 days	Mon 4/16/12	Fri 4/20/12	
5	Groundwater Analysis	15 days	Mon 4/23/12	Fri 5/11/12	4
6	Groundwater Statistical Report	60 days	Mon 5/14/12	Fri 8/3/12	5
7					
8	**Groundwater Gauging**	**136 days**	**Mon 4/16/12**	**Mon 10/22/12**	
11					
12	Extraction System Inspection	15 days	Thu 10/11/12	Wed 10/31/12	
13	Repair Extraction System	90 days	Thu 11/1/12	Wed 3/6/13	12
14					
15	**Task 2 - Property O&M**	**241 days**	**Fri 1/27/12**	**Fri 12/28/12**	
16	**Rodent Trapping**	**241 days**	**Fri 1/27/12**	**Fri 12/28/12**	
29	**Mowing Property**	**111 days**	**Fri 4/27/12**	**Fri 9/28/12**	
36	**Quarterly Inspection**	**197 days**	**Wed 2/15/12**	**Thu 11/15/12**	
41					
42	Task 3 - Project Management	261 days?	Mon 1/2/12	Mon 12/31/12	



Project: Former AGT Surface Impound
Date: Sun 11/13/11

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

ATTACHMENT 5

Future Years Cost Reallocation

Former AGT Surface Impoundment - 1325
Future Projections

Year	Expected Cost	Groundwater System O&M (A)	Property O&M (B)	Project Management (C)
2009	$ -	$ -	$ -	$ -
2010(1) - estimated costs	$ 23,293	$ 15,775	$ 4,784	$ 2,734
2011(2) - estimated costs	$ 45,589	$ 28,241	$ 7,496	$ 9,852
2012	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2013	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2014	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2015	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2016	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2017	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2018	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2019	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2020	$ 116,198	$ 27,452	$ 80,862	$ 7,884
2021	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2022	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2023	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2024	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2025	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2026	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2027	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2028	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2029	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2030	$ 114,998	$ 26,252	$ 80,862	$ 7,884
2031	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2032	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2033	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2034	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2035	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2036	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2037	$ 45,550	$ 26,804	$ 10,862	$ 7,884
2038	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2039	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2040	$ 125,550	$ 36,804	$ 80,862	$ 7,884
2041	$ 36,198	$ 17,452	$ 10,862	$ 7,884
2042	$ 34,998	$ 16,252	$ 10,862	$ 7,884
2043	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2044	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2045	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2046	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2047	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2048	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2049	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2050	$ 100,362	$ 15,000	$ 80,862	$ 4,500
2051	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2052	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2053	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2054	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2055	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2056	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2057	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2058	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2059	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2060	$ 100,362	$ 15,000	$ 80,862	$ 4,500
2061	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2062	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2063	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2064	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2065	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2066	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2067	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2068	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2069	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2070	$ 106,414	$ 21,052	$ 80,862	$ 4,500
2071	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2072	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2073	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2074	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2075	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2076	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2077	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2078	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2079	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2080	$ 100,362	$ 15,000	$ 80,862	$ 4,500
2081	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2082	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2083	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2084	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2085	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2086	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2087	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2088	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2089	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2090	$ 100,362	$ 15,000	$ 80,862	$ 4,500
2091	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2092	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2093	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2094	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2095	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2096	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2097	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2098	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2099	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2100	$ 106,414	$ 21,052	$ 80,862	$ 4,500
2101	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2102	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2103	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2104	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2105	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2106	$ 26,414	$ 11,052	$ 10,862	$ 4,500
2107	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2108	$ 20,362	$ 5,000	$ 10,862	$ 4,500
2109	$ 26,414	$ 11,052	$ 10,862	$ 4,500
Totals	$ 3,494,776	$ 1,229,530	$ 1,706,756	$ 558,490
Original Cost Breakdown	$ 3,603,585	$ 1,236,525	$ 1,817,740	$ 549,320
Variance	$ 108,809	$ 6,995	$ 110,984	$ (9,171)

(Value in parenthesis donates cost is greater than in original cost breakdown)

Notes
(1) July 2010 through December 2010
(2) 2011 Estimated reflects actual spent from January through September 2011 and projected spent for October through D
(A) Includes Tasks 1, 3, 6, 7, 9, 11 and 12 from Original RCES
(B) Includes Tasks 2, 4, 5, 8, 10, 14 and 15 from Original RCES
(C) Includes Tasks 13 and 16 (Agency Oversight) from Original RCES
Assumes pumping 3 million gallons every three years starting in 2013
Assumes survey settlement monuments every three years starting in 2014
Distributes $10,000 of budget for well replacement every 10 years starting in 2020
Distributes $70,000 of budget for fence, slurry wall and/or culvert replacement every 10 years starting in 2020