



**CW-20 AND WEST PARKING LOT COLLECTION SYSTEM  
PUMPING TEST REPORT  
HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.  
SPRINGGETTSBURY TOWNSHIP, YORK COUNTY,  
PENNSYLVANIA**

**SAIC Project 01-1633-00-9574-600**

**Prepared for:**

**Harley-Davidson Motor Company Operations, Inc.  
York, PA**

**June 2008**



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York, PA

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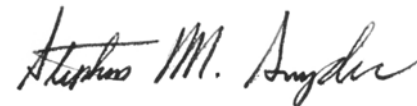
June 2008

Respectfully submitted,



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Scott L. McFeaters, P.G.  
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## EXECUTIVE SUMMARY

This report presents the results of two groundwater pumping tests: one performed on new well CW-20 and a second on the existing West Parking Lot (WPL) groundwater collection system at the Harley-Davidson Motor Company Operations, Inc., (Harley-Davidson) facility in York, Pennsylvania (refer to Figure 1). The purpose of the testing was to determine the impact of the new and existing extraction wells on the surrounding aquifer and to gather data to use in the design of a modified well pumping network for the southwest corner of the WPL.

Harley-Davidson operates an active groundwater treatment system (GWTS) that extracts and treats water from a total of 15 wells. In 2006, Harley-Davidson installed a new groundwater collection well (CW-20) near the southwest corner of the WPL. The intended purpose of this well was for recovery of volatile organic compound (VOC)-impacted groundwater in the vicinity of several monitoring wells (MW-75S/D and MW-37S/D) that contain elevated VOC concentrations. If the results of hydraulic testing in the southwest corner of the WPL confirmed the need for additional VOC recovery (from CW-20), Harley-Davidson intended to connect the new groundwater collection well to an existing underground conveyance line for treatment using the GWTS.

During the CW-20 groundwater pumping test, 1.59 feet of drawdown was measured at a location 280 feet to the northeast of CW-20 (at MW-8). Only 0.48 feet of drawdown was measured at approximately the same distance to the north-northwest (at MW-38D). These data suggest that a preferential flow direction is marked by maximum groundwater drawdown that was recorded during the CW-20 pumping test in a northeast to southwest orientation from the CW-20 wellhead. This direction is consistent with the location of a mapped fracture trace (refer to Figure 2). The northeast-to-northwest-drawdown ratio is approximately 2:1, which is equivalent to the directional transmissivity contrast.

A second groundwater pumping test (referred to as the WPL pumping test) was subsequently conducted in May 2007. The intent of this test was to evaluate if the existing WPL collection wells (CW-9, CW-13, CW-15A, and CW-17) are effective at capturing VOC-impacted groundwater in the southwest corner of the WPL (near CW-20). To complete this test, the four

WPL collection wells (plus CW-8) were shut down, and the groundwater table was allowed to equilibrate. Then, the WPL extraction wells were started (CW-8 did not operate for the majority of the test), and groundwater levels were monitored in approximately 41 wells on-site for a period of approximately 92 hours.

During the WPL pumping test (at 72 hours), between 2.9 feet (at CW-20) and 2.94 feet (MW-37D) of groundwater drawdown was measured in deep wells proximal to CW-20. These values exceed the maximum drawdown recorded at 72 hours for the same locations (2.22 feet at MW-75D) during the CW-20 pumping test. These results suggest that groundwater capture in the southwest corner of the WPL is being maintained by active recovery well CW-9.

As a result of these activities, it is recommended that well CW-9 continue to be operated to control potential migration of groundwater containing VOCs in the southwest corner of the WPL. The benefit and utility of pumping well CW-20 will not likely be known until data collected during supplemental remedial investigation (RI) activities (currently being completed) are evaluated. The status of well CW-20 should be reevaluated after additional off-site wells are installed and geophysical information is collected west of CW-20 as part of the supplemental RI process. Data collected during the pumping tests detailed in this report should be used during the feasibility analysis for the final groundwater remedy selection for the Harley-Davidson site.

## **1.0 INTRODUCTION**

### **1.1 Purpose and Work Scope**

This report presents the results of two groundwater pumping tests: one performed on new well CW-20 and a second on the West Parking Lot (WPL) groundwater collection system at the Harley-Davidson Motor Company Operations, Inc., (Harley-Davidson), facility in York, Pennsylvania (refer to Figure 1). The purpose of the testing was to determine the impact of new extraction well CW-20 on the surrounding aquifer, to design a potential permanent well pump setting, and to prepare the results for use in an application for a groundwater allocation permit modification to the Susquehanna River Basin Commission (SRBC). This report includes a summary of site history, details regarding pumping test setup, a discussion of test procedures, a presentation of hydrologic data, water quality data, a summary of findings, and conclusions and recommendations related to incorporating well CW-20 as part of the active groundwater remediation system.

This report is based on implementing the CW-20 pumping test plan that was approved by the SRBC. Harley-Davidson submitted the pumping test plan to the SRBC for review in September 2006. In general, this plan contained the following components:

- Step-drawdown test on well CW-20
- 72-hour constant-rate pumping test
- Recovery monitoring test

The step-drawdown test and the 72-hour constant-rate pumping test were performed using a temporary submersible pump installed in well CW-20. During the constant-rate test, water levels were monitored in surrounding on-site monitoring wells. Upon the completion of the constant-rate pumping test, a recovery monitoring test was conducted for a minimum of 24 hours.

Following completion of the CW-20 pumping test, additional pumping test activities were conducted to gather information to determine the effect of the existing extraction system on

CW-20 and the adjacent monitoring wells beneath the WPL. The additional activities involved turning off the active WPL collection wells and allowing the water table to equilibrate. After collecting a round of static groundwater levels, the WPL collection wells were reactivated, and groundwater levels were then monitored in approximately 41 wells over the next 92-hour period.

## **1.2 Site Background and History**

Harley-Davidson operates a motorcycle manufacturing facility in York, Pennsylvania, that was the site of the former York Naval Ordnance Plant (YNOP). The site was initially developed in the 1940s. Soil and groundwater quality studies have been conducted since 1986, and the site is currently in the Pennsylvania Department of Environmental Protection (PADEP)/United States Environmental Protection Agency (USEPA) One Cleanup Program. The acknowledgement of the Notice of Intent to Remediate under Act 2 of 1995 was published in the *Pennsylvania Bulletin* on March 19, 2005. The work is subject to review by the USEPA and PADEP.

Harley-Davidson operates an existing groundwater treatment system (GWTS) at its York facility. The groundwater extraction and packed tower aerator (PTA) treatment system was designed and installed pursuant to an order from the PADEP dated September 11, 1990. The GWTS is operating and extracting groundwater under two existing SRBC water allocation permits (numbers 19900715 and 19980901). Discharge from the treatment system is authorized by National Pollutant Discharge Elimination System (NPDES) permit no. PA0085677. The most current NPDES permit renewal was issued by the PADEP on February 1, 2006, and contains interim and final discharge limits based on relocating the treated groundwater discharge from Johnson Run, a tributary of Codorus Creek, to the Codorus Creek. All discharges discussed in this report were to Johnson Run. Use of the new discharge location (Codorus Creek) via a 1,600-foot-long force main began on June 4, 2007.

The GWTS has been in operation since November 1990. The GWTS is designed to accomplish the following:

1. Prevent off-site groundwater migration in the Northeast Property Boundary area (NPBA);

2. Remove volatile organic compound (VOC)-impacted groundwater in the 1,1,1-trichloroethane (TCA) Tank area near Building 2;
3. Prevent off-site migration of groundwater in the WPL area;
4. Remove VOC-impacted groundwater at the former degreaser location in the North Building 4 (NB4) area; and,
5. Collect groundwater from a groundwater depression system east of the newly constructed Softail plant, which prevents VOC-impacted groundwater from discharging to the surface or into the building.

The active GWTS currently treats water from a total of 15 sources. In November 1990, the first 10 extraction wells in the NPBA and the TCA Tank area were brought on-line (SRBC docket 19900715). An additional four groundwater collection wells were brought on-line in the WPL area in May 1994 (SRBC docket 19980901). Finally, the Softail dewatering system was brought on-line in January 2004. The Softail dewatering system consists of a shallow interceptor trench (or toe drain), a deep interceptor trench and drain, and a capture well (CW-19).

In 2006, Harley-Davidson installed a new potential groundwater collection well (CW-20) near the southwest corner of the WPL. The intended purpose of this well was to be considered for recovery of VOC-impacted groundwater in the vicinity of several monitoring wells (MW-75S/D and MW-37S/D) that contain elevated VOC concentrations.

## **2.0 HYDROGEOLOGIC DESCRIPTION**

### **2.1 Lithology**

Four Cambrian-aged geologic formations have been identified in the area surrounding well CW-20 (Figure 2). In the immediate area, a solution-prone gray limestone (carbonate-rich) has been identified by the Pennsylvania Geologic Survey as the Vintage dolomite. Existing monitoring wells MW-75S/D and MW-37S/D are all located within 20 feet of CW-20, and the available well logs contain descriptions that are consistent with the Vintage dolomite. To the west is the Kinzers Formation, which has been described as a medium to dark gray microcrystalline to very fine crystalline limestone with some quartz veins. Bordering the Vintage along the east and northwest is the Antietam Formation, which, in York County, is a massive grayish-green, argillaceous, fine- to medium-grained, quartzitic sandstone. Bordering the Vintage to the north of CW-20 is the Chickies Formation, described as quartzite and slate overlying a basal conglomerate.

### **2.2 Structure**

Well CW-20 is located in an area north of the Martic Overthrust Block, which covers most of York County. Mountain-building forces were responsible for the thrusting of this block, as well as the folding and faulting of bedrock in the area. The closest faults surrounding the Harley-Davidson property create an oblong diamond shape (see Figure 2). These faults are between 2,000 and 6,000 feet from CW-20.

Sixteen fracture traces have been mapped in the Vintage Formation throughout the Harley-Davidson property. Fracture traces are natural linear features consisting of topographic (including straight stream segments), vegetal, or soil tonal alignments. They are visible primarily on aerial photographs and expressed continuously for less than one mile. These fracture traces appear to strike in one of two dominant directions at the site: 10 in the general direction of north 45 degrees east and 6 in the general direction north 45 degrees west (Figure 2).

The fracture traces were mapped on aerial photography taken in 1938, prior to the development of the site as a naval ordnance plant.

Weathering has taken place within the limestone bedrock in the form of dissolution of carbonate minerals. This dissolution was evidenced by numerous water- and sediment-filled voids encountered during the drilling of borings and monitoring wells within the limestone bedrock. This is especially prevalent in the monitoring wells in closest proximity to CW-20, including MW-75S/D, MW-37S/D, and MW-93S/D.

In addition, unstable subsurface conditions have been observed by the opening of sinkholes on the Harley-Davidson property. This is a typical occurrence in soluble carbonate rock, and several sinkholes have collapsed and been repaired near the area in which CW-20 was installed. Unconsolidated overburden materials of residual soils and saprolite have developed from the underlying bedrock and range in thicknesses from 15 feet to greater than 60 feet.

### **2.3 Hydrogeology**

Groundwater beneath the Harley-Davidson property flows from the upland area in the eastern portion of the site westward toward Codorus Creek. Flow directions are locally modified by the subsurface geologic conditions, man-made influences such as the pond located in the central portion of the site, and the active groundwater extraction wells.

The configuration of the groundwater table at the site shows a gradient toward the west-southwest (Figure 3). The groundwater table gradient is relatively steep (6 to 10 percent) beneath the eastern portion of the site, which is underlain by sandstone bedrock. The groundwater table gradient is relatively flat (one percent or less) beneath the western portion of the site, which is underlain by limestone bedrock. Areas of groundwater depression are generally depicted surrounding the active collection (pumping) wells at the site. Groundwater in the upland area flows mainly through the interconnected network of fractures, joints, and bedding planes. Once the groundwater encounters the limestone, groundwater flow is directed along fractures, dissolution cavities, interconnected conduits, and weathered zones in the rock.



Plate 1 is a cross-section from east to west and extends through MW-93S/D, which are located approximately 200 feet to the north of CW-20, and illustrates the overburden thickness, geology, and structure as determined to be present from the available well and boring information.

## **2.4 Surface Water and Wetlands**

The Codorus Creek is located approximately 700 feet to the west of CW-20, flowing in a northward direction. At this location, the creek has an average width and depth of 120 feet and 1 foot, respectively. The 74-year record average for flow at the United States Geological Survey (USGS) stream gauge (01575500) is 306 cubic feet per second (ft<sup>3</sup>/sec). The purpose of pumping from the active and the proposed groundwater extraction wells is to divert the natural flow of impacted groundwater from migrating off of Harley-Davidson property and from discharging into the creek. At the time of the pump test activities, treated groundwater was discharged to Johnson Run, a small stream that runs along the northern property boundary of the Harley-Davidson site and subsequently discharges to the Codorus Creek approximately 1,500 feet downstream from CW-20. This discharge is approved under an existing NPDES discharge permit. Recently, Harley-Davidson installed a new 1,600-foot, 8-inch-diameter force main to allow for direct discharge of treated groundwater to the Codorus Creek.

The National Wetlands Inventory mapping is depicted on Figure 2. According to the Inventory, within 0.5 miles of the site, mapped surface water areas consist of the Codorus Creek, a water-filled former quarry to the southeast, and two small ponds, one to the north of the Harley-Davidson property and one on the Harley-Davidson facility to the east (fire water pond). In addition, a wetland west of the Harley-Davidson plant has been mapped by Science Applications International Corporation (SAIC). This wetland area is caused by storm water and noncontact cooling water discharge being ponded in an area behind the Codorus Creek flood control structure, which is maintained by the Army Corps of Engineers. Water drains northward to Johnson Run. This wetland area is depicted on Figure 4.

### **3.0 INSTALLATION OF WELL CW-20**

The installation of groundwater collection well (CW-20) was initiated in May 2006. This well was installed at a location proximal to monitoring wells MW-75S/D, which have contained some of the highest levels of VOCs at the site. A review of annual monitoring data could not determine if the VOCs in the vicinity of MW-75S/D are captured by the existing groundwater collection system. In addition, assuming that the high VOC concentrations indicate a “source area,” there would be efficiency in pumping at this location to more quickly remove the VOCs. The following activities were performed in an effort to install a collection well that could be used to enhance groundwater recovery in the vicinity of wells MW-75S/D.

#### **3.1 Drilling Preparations**

##### **3.1.1 Utility Clearance**

A Harley-Davidson subsurface work authorization (SWA) was completed on May 9, 2006. The SWA covered an area encompassing approximately a 50-foot-diameter around the proposed location of CW-20. Additionally, the drilling contractor for this project (Eichelbergers, Inc.) notified the Pennsylvania One Call System, Inc., of the drilling activities.

As an additional precaution, SAIC cleared the CW-20 drilling location using an air knife. The air knife is a “soft dig” technique used to advance a hole below ground surface (bgs). It utilizes compressed air to evacuate unconsolidated materials from the proposed borehole to a desired depth. For this project, the air knife activities cleared the CW-20 drilling location to a depth of 5 feet (which is deeper than most underground utilities) and to a diameter of approximately 15 inches.

##### **3.1.2 Containment of Investigation-Derived Waste**

In order to prevent the spread of contamination during drilling, a plan was developed to capture and contain drill cuttings and drill water. Plastic sheeting and hay bales were used to create an initial

containment area around the wellhead. The drill cuttings were then transferred to a lined 20-cubic-yard roll-off using a skid loader. Drill water was pumped from the containment area to the lined roll-off to allow for sediment settling. The drill water was later transferred from the roll-off for temporary storage in a 21,000-gallon frac tank to allow further settling of sediment. Ultimately, all sediment-free water was transferred from the frac tank to the on-site GWTS for processing and proper treatment (refer to Section 3.6 for additional details).

### **3.1.3 Equipment Decontamination**

A decontamination pad was set up to clean the drilling equipment before and after drilling. The base of the pad consisted of plywood covered entirely with six-mil plastic sheeting while the sides of the pad consisted of hay bales. A shallow sump was dug in one corner of the pad, and a pneumatic pump was used to transfer decontamination fluids to the frac tank. Additionally, an open-top drum was staged in the decontamination area for disposal of personal protective equipment (PPE) that was generated during the field activities. The pad was constructed with the appropriate dimensions to be able to back the drill rig onto it.

## **3.2 Drilling Techniques**

Eichelbergers, Inc., was subcontracted to perform the drilling of well CW-20. Installation activities began on May 30 using air-rotary drilling techniques. An SAIC staff scientist provided field oversight during the drilling activities, maintained a lithologic description and well construction log (refer to Appendix A), managed the handling of investigation-derived wastes (IDW), performed monitoring of soils with a photoionization detector (PID), and monitored for the presence of dense non-aqueous phase liquids (DNAPL).

Eichelbergers, Inc., advanced the initial drill string using a nominal 15-inch-diameter drill bit. The bedrock surface was encountered at 24 feet bgs, and the 15-inch-diameter borehole was advanced approximately 2 feet into the bedrock. Shallow bedrock encountered consisted of a dark gray dolomitic limestone that graded into a dark gray to black limestone with some calcite veins at depth. Subsequently, 12-inch-diameter surface casing was installed to 26 feet bgs in

order to stabilize the unconsolidated surface materials, which consisted of dark gray, silty, clay that contained reddish-yellow mottles that graded into silty gravel for several feet above the bedrock.

From 26 feet bgs, a nominal 12-inch-diameter borehole was advanced to 83 feet bgs using air-rotary techniques. The 12-inch drilling encountered a void from 56 to 59 feet bgs that originally produced a groundwater yield of approximately 30 gallons per minute (gpm). Drilling from 59 to 83 feet bgs resulted in the development of the void, which subsequently was noted to yield approximately 100 gpm.

The requirement to contain and manage the drill water resulted in a need to modify the drilling methods. In order to reduce the volume of water generated during drilling, it was decided to discontinue the air-rotary drilling techniques and to proceed with mud-rotary techniques. A 12-inch-diameter mud-rotary borehole was advanced from 83 to 125 feet bgs. A second void was encountered from approximately 116 to 125 feet bgs. The initial attempt to drill past this void was unsuccessful; therefore, Eichelbergers, Inc., was directed to attempt to seal both voids and then advance the borehole using 12-inch-diameter mud-rotary techniques. Benseal was introduced to the boring, and the voids were sealed so the drill cuttings could be returned to the surface. However, once mud-rotary drilling was resumed, drilling circulation was lost and the drill tools could not be advanced.

After further discussion among team members, a decision was made to construct a larger top hole. The 12-inch-diameter surface casing was removed from the boring, and a 19-inch-diameter drill bit was used to ream the boring to a depth of approximately 24 feet bgs. A total of 26 feet of 16-inch-diameter steel casing was then installed (3 feet stick-up above grade). From this point, 15-inch-diameter mud-rotary drilling techniques were used to advance the borehole to a depth of 125 feet bgs. The two voids encountered during the previous drilling were then sealed off by installing 12-inch-diameter steel casing to a depth of 125 feet bgs.

The borehole was advanced from this point using mud-rotary techniques and a nominal 12-inch-diameter bit. From 131 to 154 feet bgs, drill cuttings and the drill mud were lost into a

third void. This void was believed to be sediment filled, so the drill string was removed from the borehole with the intent to collect sediment samples for DNAPL testing (refer to Section 3.3 for more details).

After sampling the void, 10-inch-diameter STRADEX casing was advanced from 154 to 169 feet bgs, where a fourth void was encountered. The drill tools were advanced into the void; however, the tools became locked with gravel/silt that prevented proper operation for further advancement. Additionally, the gravel/silt prevented the drill tools from being retracted through the casing. As a result, the entire string of casing and drill tools had to be removed from the borehole.

With the borehole advanced to 169 feet bgs, drilling was suspended on June 15 due to the development of a sinkhole proximal to the rear of the drill rig. Stewart & Tate, Inc., was retained to repair the sinkhole on June 16. Repairs were made by installing a reverse-graded filter consisting of shot rock, #6 stone, and #4 stone in the sinkhole. A final cover of compacted crusher stone was installed at the surface.

After a 1.5 workday delay due to the sinkhole, drilling resumed on June 19. After pulling all casing and drill tools to clear the gravel/silt, the 10-inch-diameter STRADEX casing and the drilling tools were reinserted to a depth of 167 feet bgs. During an attempt to collect sediment samples from the underlying void, the 10-inch casing could no longer be advanced by hammering. Therefore, 6-inch-diameter temporary steel casing was installed inside the 10-inch STRADEX casing. Three samples of sediment were collected from the void using a 5-foot spoon. The bottom of the void was eventually tagged at 190.5 feet bgs (a total of 21.5 feet total void) and the 6-inch-diameter casing removed from the borehole. This void is believed to be the same sediment-filled void screened by well MW-75S.

The 10-inch-diameter STRADEX bit with casing was then advanced from approximately 169 feet to a depth of 214.5 feet bgs. A fifth smaller void was encountered from 213 to 214 feet bgs, which is believed to be the same void screened in well MW-75D. An attempt was made to collect a sediment sample from this void, but only a few rock fragments could be

retrieved. After reaching this depth, Eichelbergers, Inc., demobilized its equipment from the site on July 6.

A cable tool rig was requested to finish the boring by installing a five-foot sump into the bedrock. Eichelbergers, Inc., returned to the site with a cable tool rig on July 27. A total boring depth of 219 feet was reached on July 27.

### **3.3 DNAPL Investigation**

As noted in Section 3.2, soil cuttings were screened in the field using a PID. As part of this investigation, representative portions of soil cuttings from each 5- to 10-foot drilling interval (and from each void sediment sample) were placed into resealable plastic bags and agitated. The field scientist visually examined the soil cuttings and screened them with the PID approximately five minutes following the agitation. If a PID headspace screening indicated a concentration greater than 50 parts per million (ppm), soil was further evaluated in the field for the presence of DNAPL using a dye (Sudan IV) and ultraviolet (UV) radiation screening methodologies. The plan for additional field screening included the following:

- Samples with VOC concentrations greater than 50 ppm were to be tested using a hydrophobic dye. Approximately 500 milliliters (ml) of distilled water were added to the sample bag, along with approximately 2 milligrams (mg) of Sudan IV dye. Sudan IV is an organic oleophilic dye that imparts a bright red staining to materials such as a petroleum product or organic solvent, allowing the DNAPL to be visually identified. When introduced into a container with water and DNAPL, any DNAPL present will be dyed red, allowing it to be visually identified. After adding water and dye, the soil sample inside the bag was thoroughly agitated by hand and then visually examined for red globules indicative of the presence of DNAPL.
- A portion of the bagged sample was removed prior to the introduction of the dye and reserved for UV radiation screening. A totally enclosed trailer was on-site to be used to examine for evidence of UV fluorescence, which can also be indicative of DNAPL. The

sample bag was placed inside the trailer and exposed to a UV lamp that emitted shortwave (254 nanometer) and longwave (330 to 400 nanometers) UV radiation. When exposed to UV light under “black box” conditions, DNAPL is expected to respond by displaying a noticeable fluorescence.

As part of the air-rotary drilling process, two soil samples (0 to 10 feet bgs and 10 to 19 feet bgs) were collected and screened with the PID. Neither of these samples displayed a PID reading above 0 ppm; therefore, no further DNAPL screening was performed.

Table 1 includes a summary of the eight void sediment samples that were attempted to be collected. The void sediment samples were collected by advancing a 5-foot sampling spoon through the interior of the 10-inch-diameter casing. The highest PID reading recorded for a sediment sample with significant recovery was 7.9 ppm. Therefore, no further DNAPL testing was required. However, the UV light test was performed on five samples, and the Sudan IV dye test was performed on three samples. All additional testing was negative for the presence of DNAPL.

Between the time the air-rotary rig left the site (July 5) and the time the cable tool rig mobilized on-site (July 27), no disturbance of well CW-20 occurred. Therefore, on July 27, a discrete bottom-filling sampling device was lowered into the well at the beginning of site activities. A sample of water was retrieved and inspected for the presence of DNAPL, which would be expected to accumulate during this time if it were present. No visible DNAPL was noted in the water sample collected on this date.

### **3.4 Well Construction and Development**

Under the supervision of SAIC, Eichelbergers, Inc., began well construction activities on July 28. The well construction was designed to screen only the lowest void encountered from 213 to 214 feet bgs, which is believed to be the same void screened in well MW-75D. The remaining voids would be sealed off by grouting the annular space to the surface.

Well installation activities began by lowering the well screen and sump into the borehole. The well screen consisted of six-inch-diameter Type 304 stainless steel. The screen was continuously wound and had a slot size opening of 0.04 inches (40 slot). These dimensions equate to a total open screen area of approximately 650 square inches. The well was equipped with 10 feet of screen and contained a 4-foot sump at its bottom. The stainless steel screen was connected to carbon steel solid riser pipe via a dielectric coupler.

The transmitting capacity of the well screen was estimated using data supplied by the manufacturer. Assuming a safety factor of two, and using the total open screen area calculated above, a transmitting capacity of 100.8 gpm is calculated for the CW-20 well screen. This value indicates that if no other limiting factors are realized, the CW-20 well screen can be expected to efficiently pass a maximum of 100.8 gpm.

Additional 20-foot sections of steel casing were welded together as the screen was lowered into the borehole. With approximately 190 total feet of well screen and casing in the hole, the casing lifting device separated from the pipe and the entire string dropped into the well. On July 31, an inspection of the well screen using a borehole video camera confirmed that the screen was damaged. Therefore, the entire string of screen and riser was removed from the borehole on July 31.

A replacement section of stainless steel well screen was ordered and Eichelbergers, Inc., remobilized to the site on August 17. The sump, screen, and riser were successfully lowered to a depth of 219 feet bgs. Backfilling of the annular space between the borehole and the six-inch-diameter stainless steel screen with no. 2 Filpro sand began on August 18. Due to the presence of a void from 213 to 214 feet bgs, the well screen was surged after approximately every three to five bags of sand. After numerous bags of sand settled into the void, three-eighth-inch-diameter pea gravel was mixed with the sand to assist in bridging the void. A total of 66 bags of sand/gravel were used to bring the sand level in the annular space to a depth of approximately 198 feet bgs (a total of 21 lineal feet).



Once the level of the sand was determined to be stable, the well was developed. A portable submersible pump was installed in the well on August 23. Pumping of this well was started around 9:00 a.m. at a rate of approximately 100 gpm. All development water was pumped directly to two on-site frac tanks. Turbidity readings were monitored with a Horiba U-10 water quality instrument. At the start of the development process, the turbidity of the water was greater than 999 nephelometric turbidity units (NTU). CW-20 was pumped for approximately 5 hours at 100 gpm until the storage capacity of the frac tanks was reached. The last turbidity reading that was taken before turning the pump off measured 38 NTU.

On August 24, well construction activities continued by installing two bags of three-eighth-inch bentonite pellets as a seal at the top of the sand pack. A tremie pipe was then inserted into the annular space of the borehole, and a Portland cement and bentonite mixture was used to seal the space above the bentonite seal. As the grout was introduced, the cable tool rig was used to jack out the 10-inch-diameter temporary casing. Grouting of the annular space between the 6-inch-diameter well casing and the borehole, and between the 12-inch-diameter casing and the 16-inch-diameter casing was completed on August 28.

Well construction details are shown on the log in Appendix A. Details regarding the CW-20 surface completion are outlined in Section 3.5 of this report.

### **3.5 CW-20 Plumbing Connections**

Between August 30 and September 1, 2006, Stewart & Tate, Inc., installed a trench and piping between CW-20 and an existing termination vault near MW-37S/D. Within the trench, a section of new groundwater conveyance pipe was tied into a spare groundwater conveyance line that connects into the GWTS in Building 41. Additionally, electrical conduits were routed in the trench to an existing above grade mounted electrical junction box located adjacent to the termination vault.

Prior to excavating the trench, Stewart & Tate, Inc., installed a new pitless bury unit at the CW-20 wellhead. The unit is a Duplex pitless manufactured by Whitewater Manufacturing

Company and consisted of specially welded connections to allow for a higher load support rating. The higher load rating was determined to be necessary to support a submersible pump and associated steel piping that would be needed to pump CW-20 in the future.

For the groundwater conveyance piping, approximately 20 lineal feet of three-inch-diameter high density polyethylene (HDPE) SDR11 pipe was installed. Connections to the existing spare three-inch HDPE pipe and all joints were butt-fusion welded. The HDPE piping was tied into the new pitless bury unit at the wellhead. The trench was backfilled by placing four inches of 2RC stone below the new three-inch HDPE pipe. An additional 12 inches of 2RC stone was placed above the HDPE pipe in 4-inch compacted lifts.

Approximately 50 lineal feet of 1.5-inch-diameter rigid galvanized steel conduit was supplied and installed for the installation of control wiring from CW-20 to the termination vault (two 25-foot conduit runs, one serving as a spare). Also, approximately 50 lineal feet of 1.5-inch-diameter rigid galvanized steel conduit was supplied and installed for housing the power wiring from CW-20 to the termination vault (two 25-foot conduit runs, one serving as a spare). All four 1.5-inch-diameter conduits were left empty, except for the presence of a nylon pull rope for future use.

The trench was backfilled above the groundwater conveyance line (and its fill) with three inches of clean stone screenings below and above the newly installed conduits. Yellow caution tape was supplied and installed above the stone screenings.

Stewart & Tate, Inc., returned to the site in late September to perform some additional wellhead modifications. A four-foot by four-foot by one-foot thick concrete surface pad was formed around the steel casing stick-up. Additionally, concrete bollards were installed around the CW-20 wellhead, in addition to several monitoring wells and the electrical junction box at the CW-20 piping termination vault. Stewart & Tate, Inc., also raised the termination vault lid by approximately 18 inches due to its presence in a surface depression. This situation had resulted in the vault regularly filling with surface water runoff, which was directed over the vault lid.

Finally, Stewart & Tate, Inc., regraded the area to divert surface water runoff away from CW-20 and the termination vault.

### **3.6 Handling of Investigation Derived Wastes**

As mentioned in Section 3.1.2 of this report, drill cuttings and drill water were containerized to prevent the potential spread of contamination. During this project, a total of seven 20-cubic-yard roll-off containers were utilized to manage soil cuttings, and two 21,000-gallon frac tanks were used to manage drill water. Table 2 includes a summary of the rental containers, their contents, and their ultimate disposition.

In order to arrange for the proper disposal of the IDW, one composite sample of the seven roll-offs was collected on July 24. This sample was submitted to Severn Trent Laboratories, Inc. (STL), in Pittsburgh, Pennsylvania, for analysis of the following compounds:

- Priority pollutant VOCs by USEPA Method 8260B
- Priority pollutant metals by USEPA Methods 6010B and 7470A
- Total petroleum hydrocarbons via Method 9071
- Polychlorinated biphenyls (PCB) by USEPA Method 8082
- Toxicity Characteristic Leaching Procedure (TCLP) VOCs
- TCLP metals

The results of the laboratory analyses are presented on Table 3. During the construction of CW-20, a total of approximately 99 tons of drill cuttings were disposed at Modern Landfill as a nonhazardous waste under profile number 10176.

Throughout the drilling project, drill water was transferred from the frac tanks to Building 41 for treatment via the active GWTS. A submersible pump was installed in the frac tanks and piped to the spare groundwater conveyance line located in the CW-20 termination vault. An in-line bag filter unit was connected to limit the sediment that was transferred to the GWTS. For the entire

project, a total of approximately 67,600 gallons of drill water were processed through the groundwater treatment plant.

As a result of pumping turbid water into the frac tanks, water-laden sediment accumulated and remained in the bottom of the frac tanks after the drill water was pumped to the treatment plant. Clean Harbors was subcontracted to perform confined space entry procedures and clean out the two frac tanks. This task was completed on October 2 and 3, 2006. As a result, approximately 6,228 gallons of sediment-laden water were transported to Envirite for dewatering and, ultimately, disposal at Modern Landfill. This material was processed under the same profile number as the drill cuttings.

At the end of the project, one drum containing PPE and residual Sudan IV dye testing materials was present at the site. Additionally, decontamination pad materials had to be removed from the site. Modern Landfill approved the incorporation of these items into the roll-off containers. Therefore, these materials were also disposed of as non-hazardous at Modern Landfill under profile number 10176.

### **3.7 Initial Sampling of CW-20**

Following the installation and development of CW-20, this well was sampled on October 12. The goal of this sampling was to establish the baseline groundwater quality conditions for this well. This sampling event was performed using a modified low flow purging technique. Details regarding the purging techniques used during the sampling event are included in Appendix B. The groundwater sample from this well was submitted to STL for analysis of the following parameters:

- VOCs by USEPA Method 8260B
- Dissolved metals by USEPA Methods 6010B (total chromium, lead, nickel, and zinc) and 7196A (hexavalent chromium)
- Total metals by USEPA Methods 6010B (total chromium, lead, nickel, and zinc) and 7196A (hexavalent chromium)

- Total cyanide by USEPA Method 9012A
- Available cyanide by Method 1677

Table 4 presents the results of the initial groundwater sampling at CW-20. The initial sampling indicates a total VOC concentration of 1,920 micrograms per liter ( $\mu\text{g/L}$ ). The VOC total at this location is due to the presence of tetrachloroethene (PCE) (1,300  $\mu\text{g/L}$ ) and trichloroethene (TCE) (620  $\mu\text{g/L}$ ), with PCE being dominant (68 percent of the total). The only other detections reported for analyzed compounds (that are not estimated concentrations) were for total cyanide (95.3  $\mu\text{g/L}$ ) and total chromium (10.4  $\mu\text{g/L}$ ).

Because well CW-20 is believed to be constructed within the same void as well MW-75D, the sampling results were compared to the most recent data for this well. The total VOC concentration reported for MW-75D in June 2006 (25,400  $\mu\text{g/L}$ ) is approximately 13 times greater than the CW-20 total VOC concentration. Of the remaining two detections reported for CW-20 (total cyanide and total chromium), total cyanide had not previously been detected in four historical groundwater samples analyzed from well MW-75D. Total chromium was not detected during the 2006 sampling event at MW-75D but has been detected at similar levels noted in CW-20 during previous sampling events.

### 3.8 Well Surveying

The horizontal and vertical coordinates for well CW-20 were surveyed by Rettew Associates, Inc. This well was surveyed on March 21, 2007. The horizontal well location was established relative to the Pennsylvania State Plane, North American Datum of 1983 (NAD 83) coordinate system, to the nearest one foot. The vertical measurement was made in North American Vertical Datum of 1988 (NAVD 88) to the nearest 0.01 foot. A summary of the northing, easting, and vertical datum for this well is listed below:

- Northing – 239717.574
- Easting – 2257017.401
- Elevation – 361.49

## **4.0 CW-20 PUMPING TEST**

Groundwater pumping test activities for well CW-20 began during the week of December 11, 2006. The following sections of this report include details on the test setup, pretest monitoring, the step-drawdown test, the procedures for implementing the constant-rate time-drawdown test, the recording of groundwater recovery data, and an interpretation of the results.

### **4.1 Pretest Setup**

The goal of the CW-20 groundwater pumping test was to predict the influence that pumping this well will have on the aquifer and to collect design data for pumping groundwater from CW-20 to the groundwater treatment plant. The extraction wells in the WPL have been pumping since 1994; therefore, the shape of the water table beneath the WPL is artificially influenced by active groundwater extraction. In order to get an accurate estimate of the aquifer influence from pumping well CW-20, the existing groundwater extraction wells (CW-9, CW-13, CW-15A, and CW-8) closest to CW-20 were turned off on December 13. This action was designed to allow the water table to equilibrate prior to implementing the pumping test.

On December 14, setup for the pumping test began. The size of the pump was determined based on the need to overcome head loss and friction loss that would be realized as a result of the following circumstances:

- Groundwater was to be pumped through approximately 230 feet of 3-inch-diameter discharge pipe from CW-20 to a point near CW-9.
- Groundwater was to be pumped through approximately 1,350 feet of 2-inch-diameter discharge pipe from the area of CW-9 to Building 41.
- The depth of the pump intake was approximately 120 feet below the surface, with a starting water level of approximately 20 feet below the surface.

- The elevation rise of the discharge pipe was approximately 12 feet inside Building 41.
- A 10-foot section of 1.5-inch-diameter piping exists in the piping manifold at Building 41
- The maximum desired flow rate was approximately 100 gpm.

Based on the total estimated head loss, a 15-horsepower (hp) submersible pump was selected and installed for the testing process. A two-inch-diameter totalizing mechanical flow meter was installed in the piping manifold at Building 41 for use during the pumping test. All groundwater conveyance piping to be used during the test was connected to an existing equalization (EQ) tank located in Building 41. This EQ tank supplies water to an active GWTS, which ultimately discharges treated groundwater to the Codorus Creek under NPDES permit number PA0085677.

In order to monitor the effects of pumping on the groundwater table proximal to well CW-20, SAIC installed electronic recording devices in four monitoring wells. The criteria used for selecting these wells are listed below:

- CW-9 – This well was selected to provide data on how the two collection wells will potentially affect each other.
- MW-37D – This well was selected to monitor the effects of pumping on shallower groundwater proximal to CW-20 (well MW-37D is 141 feet deep).
- MW-75D – This well was selected because it is believed to be screened within the same void as CW-20 a short distance away.
- MW-93D – This well was selected to monitor the effects of pumping in a deeper zone at a distance from CW-20.

Each of these four wells was equipped with a minitroll data logger (manufactured by Insitu, Inc.). The data loggers were placed in the wells on December 14. Additionally, a

transducer connected to an air line was installed as part of the pump setting for CW-20. The transducer was connected at the surface to a Hermit data logger.

Power for operating the submersible pump was supplied using a portable 20-kilowatt generator.

## **4.2 Pretest Monitoring**

### **4.2.1 Precipitation Data**

Precipitation data were monitored in order to document any potential groundwater recharge that occurred during the pumping test. These data were collected by Harley-Davidson's on-site weather station and are summarized on Table 5. In general, December's precipitation was below normal amounts (2.16 inches versus 3.24 inches). During the period of the pumping test (December 18 to December 21), minimal precipitation was recorded (0.05 inches). During the first 24 hours of recovery monitoring (December 21 at 6:05 p.m. to December 22), a total of 1.19 inches of precipitation was recorded.

### **4.2.2 Groundwater Level Monitoring**

Prior to the constant-rate groundwater pumping test, water level measurements were taken to establish prestart-up groundwater levels for comparison to levels measured during the test. The following groundwater level data were collected at the site:

- A site-wide round of groundwater levels was measured on December 7. These water levels were collected while the WPL groundwater extraction wells were active. Figure 5 shows the groundwater contours developed from these data.
- Approximately three days of background water level data were collected electronically for the four monitoring wells equipped with a data logger. The water level data were collected from approximately 10:00 a.m. on December 15 until approximately 4:00 p.m. on December 18. These data are graphically displayed on the figures in Appendix C.



- On December 18, manual water level measurements were collected from seven primary observation wells (MW-75S, MW-75D, MW37S, MW-37D, MW-93S, MW-93D, and CW-9) and 16 secondary observation wells (MW-8, MW-29, MW-38S, MW-45, MW-46, MW-47, CW-13, MW-7, MW-39S/D, MW-74S/D, MW-34S/D, and MW-35S/D) using a water level indicator. The initial water levels are summarized on Table 6 and are contoured on Figure 6.

Figure 6 indicates the groundwater level conditions prior to starting the CW-20 groundwater pumping test on December 18. These data were collected after the active groundwater extraction wells had been shut down for five days. The overall groundwater gradient beneath the WPL and in the vicinity of CW-20 appears to be toward the north-northwest. This direction appears to be influenced by the one active groundwater extraction well (CW-17).

#### **4.2.3 Groundwater Quality**

One round of groundwater sampling was performed on the eight primary observation wells on December 14. The goal of this sampling was to establish the groundwater quality conditions prior to initiating pumping at CW-20, with the potential that pumping of CW-20 may move pockets of groundwater with unique chemistry toward the well during the test. This sampling event was performed using a modified low-flow purging technique. Details regarding the purging techniques used during the sampling event are included in Appendix B. Groundwater samples from the eight primary observation wells were submitted to STL for analysis of the following parameters:

- VOCs by USEPA Method 8260B
- Dissolved metals by USEPA Methods 6010B (total chromium, lead, nickel, and zinc) and 7196A (hexavalent chromium)
- Total metals by USEPA Methods 6010B (total chromium, lead, nickel, and zinc) and 7196A (hexavalent chromium)

- Total cyanide by USEPA Method 9012A
  
- Available cyanide by Method 1677

The analytical results for the pre-pumping test sampling are discussed in Section 4.6.4 of this report.

### 4.3 Step-Drawdown Test

#### 4.3.1 Step-Drawdown Test Procedures

A step-drawdown test was performed at CW-20 on December 15, 2006, to determine the appropriate groundwater pumping rate for the constant-rate test and to evaluate the hydraulic capacity of CW-20. The step-test was designed to pump CW-20 at successively higher flow rates (starting at 25 gpm and continuing through 50 gpm, 75 gpm, and 100 gpm) during one-hour time intervals, or until stabilization of groundwater drawdown occurred. The groundwater level in CW-20 and the flow rate were monitored at approximately the following frequencies:

Time since step started in minutes	Time interval between measurements in minutes
0 – 10	0.5
10 – 15	1
16 – 60	5

Several difficulties were encountered during the step-test that resulted in modifying the test design. These included the following:

- The start of the step-test was delayed due to communication problems between the CW-20 transducer and the Hermit data logger. A new transducer was delivered to the site, connected to the data logger, and determined to be functional. At the completion of the test, the data were downloaded; however, a review of the data indicated that the

logger responses were not accurate. As a result, manual water level measurements taken at CW-20 during the test were used to evaluate the step-drawdown test.

- The step-test was started three times and stopped due to pumping system problems. The initial test start had to be discontinued due to a blown fuse in the electrical box that controlled operation of the well pump. The second step-test start had to be stopped due to a clogged flow meter. The third start had to be discontinued after a rubber gasket blew out from a flanged connection to a clean-out in the CW-20 piping vault, resulting in a water leak. All water was contained within the piping vault and subsequently transferred to the groundwater treatment plant for processing.
- The maximum flow rate generated by the submersible pump through the plumbing system was 71 gpm.

The third try at starting the first step of the test (prior to the blown gasket) resulted in pumping CW-20 for 37 minutes at 25 gpm. The data collected during this time indicated that groundwater drawdown had stabilized. Therefore, after repairs were made to the leak at the flanged piping connection, the second step of the test was started at a flow rate of 50 gpm. After 40 minutes of pumping the second step at 50 gpm, groundwater drawdown again stabilized and the third step was initiated. The in-line flow control valve was put in the fully opened position; however, the maximum flow rate that could be attained was 71 gpm. The third and final step of this test was run for one hour.

The drawdown data collected during the step-test were plotted versus time on Figure 7, and the raw data collected during the step-test are included in Appendix D. The drawdown data were used to confirm that a groundwater pumping rate of 60 gpm would not dewater the well during the constant-rate test.

#### **4.3.2 Step-Drawdown Test Confirmation**

The step-test was completed late on Friday afternoon, December 15, and the constant-rate test was scheduled to begin early on Monday, December 18. Since the submersible pump set in CW-20 had not attained the desired maximum flow rate (100 gpm), a concern was raised regarding the integrity of the pumping system. Prior to implementing the constant-rate test on December 18, SAIC performed two tests to confirm the integrity of the pumping system:

- **Confirmation of Flow Meter Accuracy** – Because the flow meter had stopped working during the initial stages of the step-test, SAIC was concerned that the measured maximum flow rate of 71 gpm was the result of an inaccurate meter. In order to confirm the accuracy of the meter, a volumetric comparison of the water pumped through the meter was performed. In order to do this, SAIC stopped all wells (CW-17 and the NPBA wells) from processing water into the EQ tank and recorded the water level in the tank (22 inches). The flow meter totalizer reading was also recorded, and the CW-20 well pump was then operated at an approximate rate of 71 gpm for 20 minutes. At the completion of the pumping period, the flow meter totalizer indicated 1,377 gallons had been pumped. Considering a tank radius of 3 feet, and a total gain in head of 80 inches (6.6 feet), the volumetric calculation of water pumped was determined to be 1,401 gallons. These two values are within two percent of each other, which confirms that the flow meter was accurately recording flow.
- **Confirmation of Submersible Pump Capacity** – The pump curve for the temporary submersible pump suggested that the pump in use would achieve approximately 100 gpm under existing conditions. Because a maximum flow rate of only 71 gpm was attained, SAIC theorized that either the pump end/motor was bad or there was greater restriction in flow realized by the two-inch-diameter conveyance pipe. As a test, SAIC rerouted piping at the wellhead to discharge groundwater directly to a portable tank. The submersible pump was then activated and the yield measured while pumping with minimal flow resistance. During this test, the submersible pump attained a flow rate of approximately

200 gpm. This information confirmed that there appears to be additional factors that are part of the existing plumbing system that limit the yield that can be realized from CW-20.

As a result of a review of the step-drawdown test data, a constant flow rate of 60 gpm was selected for the long-term test.

#### 4.4 Constant-Rate Time-Drawdown Pumping Test

##### 4.4.1 Constant-Rate Test Procedures

A constant-rate pumping test was conducted at CW-20 over a 72-hour pumping period beginning on December 18. Groundwater level responses beneath the WPL were monitored utilizing a combination of the pumping well and the existing shallow and deep groundwater monitoring wells present on-site. Monitoring was accomplished using a combination of manual measurements and electronic data loggers with pressure transducers. The groundwater level measurements were periodically downloaded from the electronic data loggers to a computer for storage and field checked with an electronic water level indicator during the test.

The groundwater level measurements were collected in CW-20 at approximately the following frequency:

<b>Time since pumping started in minutes</b>	<b>Approximate time interval between measurements in minutes</b>
0 – 15	1
15 – 60	5
60 – termination of test	60

The water level measurements were manually recorded for the primary observation wells at a frequency of once per hour. Water levels in the secondary observation wells were recorded once every four hours. All water levels recorded during the CW-20 constant-rate test are tabulated in

Appendix E. Groundwater contours were developed for the WPL area using a round of water levels measured prior to discontinuing pumping at CW-20 (refer to Figure 8).

In addition to the water level measurements, the pumping rate and cumulative flow were checked and recorded at a minimum of once per hour and adjusted as necessary to remain within +/-5 percent of the determined pumping rate. During the first 2 hours, the pumping rate was checked every 15 minutes. The flow was measured by reading an in-line rotary flow meter. All flow rate data recorded during the CW-20 constant-rate test are tabulated in Appendix F.

#### **4.4.2 Groundwater Quality Monitoring**

Two rounds of groundwater sampling were performed on the eight primary observation wells during the CW-20 constant-rate pumping test. One round was completed on December 19 after approximately 24 hours of pumping. The final round of sampling was performed just prior to ending the constant-rate pumping test on December 21. The goal of these sampling events was to monitor the effects (if any) that pumping well CW-20 has on groundwater quality conditions. The sampling events were performed using a modified low-flow purging technique as detailed in Appendix B. The groundwater samples were submitted to STL for the analysis of the same list of parameters analyzed during the pre-step-test sampling (refer to Section 4.2.3).

The analytical results for the two rounds of sampling conducted during the CW-20 constant-rate pumping test are discussed in Section 4.6.4 of this report.

#### **4.5 Recovery Monitoring**

Groundwater recovery monitoring was performed at the completion of the constant-rate test at well CW-20, the primary observation wells, and the secondary observation wells. Manual groundwater recovery monitoring was conducted for approximately 22 hours following the stoppage of the submersible pump in groundwater extraction well CW-20. At this time, the CW-20 water level had recovered to at least 90 percent of the pretest level. Raw recovery data are included in Appendix E.

It should be noted that three of the four observation wells equipped with electronic data loggers (excluding MW-93D) continued to record recovery data until January 3, 2007. The recording of recovery data for MW-93D was inadvertently stopped at approximately 21 hours on December 22. Plots of the recovery data recorded for the wells with data loggers are included in Appendix G.

After the recovery period, the WPL collection wells (with the exception of CW-20) and CW-8 were restarted at approximately 10:00 a.m. on December 24.

## **4.6 CW-20 Test Results**

The step-drawdown test, the constant-rate test, and the recovery data have been evaluated, both by hand and utilizing commercially available software, to determine the flow characteristics of the tested aquifer. Details regarding the observed hydraulic characteristics (including pumping well efficiency, aquifer anisotropy, transmissivity, and the specific yield of the aquifer) are presented in the following sections. Additionally, an evaluation of water quality data is discussed.

### **4.6.1 CW-20 Well Efficiency**

The step-drawdown test data were used to determine the pumping characteristics for well CW-20. Table 7 presents a summary of the calculated well characteristics. This table includes a formation loss component, which takes into consideration the groundwater drawdown in the aquifer (i.e., outside of the pumping well) at a given flow rate. Additionally, the well loss component, which is the difference in the groundwater drawdown from what is measured in the pumping well compared to the aquifer, is also included on Table 7. The sum of the well loss and formation loss is the total drawdown of the pumping well at a given pumping rate. The ratio of the formation loss to the total drawdown is the well efficiency. Typically, the well efficiency declines with an increase in the pumping rate.

Using Bierschank's approach, the pumping rate (Q) for each step was plotted versus the ratio of the drawdown to the pumping rates (s/Q) (refer to Figure 9). A linear regression curve fit was

then applied to the resulting plot. The specific capacity of the well was determined to be 7 gallons per minute per foot (gpm/ft), and the well efficiency was determined to be 23 percent at 71 gpm. During the CW-20 step-test, the greatest efficiency was calculated for step one (47 percent), which was performed at a groundwater flow rate of approximately 25 gpm.

#### **4.6.2 Transmissivity and Specific Yield**

Drawdown measurements of the pumping well and four primary observation wells (CW-9, MW-37D, MW-75D, and MW-93D) were plotted on semilog graphs versus elapsed time (time-drawdown plot) to analyze the effect of pumping on the aquifer during the test and to calculate the aquifer parameters transmissivity and specific yield (Appendix H). Transmissivity is defined as the amount of groundwater (in gallons per day [gpd]) that can flow through a one-foot wide section of the aquifer under a unit (1:1) gradient. The specific yield is the ratio of the volume of water a water table aquifer will yield to the volume of the aquifer. The drawdown curve for each well (at approximately 4,320 minutes) was analyzed to determine the transmissivity of aquifer in accordance with the Cooper-Jacob Method (or Theis method using Aqtesolv).

Data from the CW-20 pumping test were evaluated using both manual methods and a commercially available software package (Aqtesolv, version 3.5). A summary of the transmissivity and specific yield values calculated using the test data is presented on Table 8. Graphical plots of the test data, including data calculations, are included in Appendix H.

During the test, the pumping water level in CW-20 was drawn down by 15.97 feet over an elapsed time interval of approximately 4,320 minutes (refer to Appendix H, Figure H-1). A review of Figure H-1 indicates that the early portion of the drawdown curve (from 0 to approximately 200 minutes) does not match the appearance of a typical drawdown curve. The drawdown curve during this time period exhibits a fluctuating trend. A portion (i.e., the first 15 minutes) of this atypical curve is likely due to difficulties establishing a steady groundwater pumping rate at the beginning of the test.



During the CW-20 pumping test, groundwater levels declined in the primary monitoring wells between 1.12 feet (MW-93S) to 2.22 feet (MW-75D). Drawdown in the secondary monitoring wells ranged from an increase of 0.21 feet (MW-29) to a drawdown of 1.59 feet (MW-8) (refer to Table 9).

A review of the test data indicates that an average aquifer transmissivity of 5,200 gallons per day per foot (gpd/ft) was calculated for well CW-20. This value is slightly lower than the transmissivity calculated for well CW-9 (9,300 gpd/ft) during a study conducted in 1991 (R. E. Wright Associates, Inc., 1991). The transmissivity values calculated from data for four nearby monitoring wells (CW-9, MW-37D, MW-75D, and MW-93D) were higher, ranging from 19,000 to 23,000 gpd/ft. These higher values are generally caused by connectivity limitations caused by anisotropy and inhomogeneity of the fractured rock (karst) aquifer. Another reason for the higher values may be due to partial penetration of the aquifer by the pumping well and the observation wells. As a result, the higher values are not considered to be appropriate values for this aquifer.

Using data from monitoring wells proximal to CW-20 (less than 15 feet away), an average specific yield of 0.09 (at MW-75D) to 0.37 (at MW-37D) was calculated. Using data from wells located further away (greater than 140 feet), lower specific yields of 0.004 (at CW-9) and 0.01 (at MW-93D) were calculated. The higher specific yield values calculated proximal to CW-20 are likely influenced by the presence of voids and fractures that were observed during drilling. Specific yield can also be impacted by the partial penetration of the aquifer by all of the wells used as pumping wells and observation wells. The construction of these wells to allow discrete sampling at depths in the aquifer above a very limited penetration of the pumping wells makes these calculations not reflective of general aquifer specific yield.

Following completion of the CW-20 pumping test, the pump was turned off, and the recovery of the groundwater levels was monitored and recorded. These data (residual drawdown) were plotted on a semilog graph in accordance with the Cooper-Jacob Method and were analyzed to estimate the transmissivity (refer to Appendix I). The transmissivity value calculated using this method is 21,100 gpd/ft. This value also appears to be influenced by partial penetration of the aquifer by well CW-20.

### **4.6.3 Aquifer Anisotropy and Heterogeneity**

During the CW-20 groundwater pumping test, 1.59 feet of drawdown was measured at a location 280 feet to the northeast of CW-20 (at MW-8). Only 0.48 feet of drawdown was measured at approximately the same distance to the north-northwest (at MW-38D). A review of Figure 10 suggests that a preferential flow direction is marked by maximum groundwater drawdown that was recorded during the CW-20 pumping test in a northeast to southwest orientation from the CW-20 wellhead. This direction is consistent with the location of a mapped fracture trace (refer to Figure 2). The northeast to northwest drawdown ratio is approximately 2:1.

A review of the CW-20 time-drawdown plot (shown in Appendix H) indicates the effects of partial penetration of the pumping well. The constant-rate pumping test graph shows three different straight-line segments. The first is from zero to one minute, which is very steep as a result of well loss. From one minute to approximately 200 minutes represents the effects of vertical leakage and groundwater storage close to the well (consistent with the presence of voids). The steeper slope segment, from 200 minutes through the end of the test, indicates the conditions in the larger portion of the aquifer. This later section was used to calculate the transmissivity of the aquifer.

### **4.6.4 Groundwater Quality**

Well CW-20 was installed in an area believed to contain elevated VOC concentrations (near well cluster MW-75S/D). This well was initially sampled in October 2006, and a review of the analytical results indicated a total VOC concentration of 1,920 µg/L (refer to Table 4). The dominant VOCs detected at CW-20 were PCE (1,300 µg/l) and TCE (620 µg/L). Low concentrations of dissolved chromium (5.9 µg/L) and total cyanide (95.3 µg/L) were the only wet chemistry parameters detected.

The analytical results for CW-20 were compared to historical groundwater quality data for wells previously installed in the southwest corner of the WPL. The results of this evaluation are presented below.

#### **4.6.4.1 Groundwater Quality – Pre CW-20 Installation**

- Well CW-20 was installed approximately 11 to 16 feet from wells MW-75D and MW-75S, respectively. Well CW-20 is expected to better represent groundwater quality conditions at MW-75D compared to MW-75S since it was installed to screen the same void that well MW-75D is screened across. There appears to be a significant difference in the voids screened by MW-75S and MW-75D/CW-20. The MW-75S well log indicates that groundwater sampled from this well is coming from a sediment-filled void (clay, silt, and sand). This is confirmed by a low purge rate (less than one gpm) and purge water that is sediment laden (turbidity approximately 400 to 600 NTUs). The MW-75D/CW-20 well logs indicate these wells are screened in a void containing coarse-grained sediment (sand and rock fragments). Groundwater samples were collected at a purge rate of two to five gpm; however, both wells could have been sampled at a higher purge rate. These wells also showed low turbidity values (0 to 20 NTUs).
- The most recent analytical results for groundwater sampled at MW-75D prior to completing installation of CW-20 (i.e., prior to July 2006) were obtained in June 2006. These analytical results indicated that the total VOC concentration was 25,400 µg/L. The dominant VOCs detected were TCE (14,000 µg/L) and PCE (10,000 µg/L). This location was also sampled for metals (chromium, lead, nickel, and zinc), with no detections reported above the practical quantitation limit (PQL).
- During sampling performed in June 2006, six additional primary observation wells were sampled. The total VOC concentrations for these locations are displayed on Plate 2 and are as follows: 206 µg/L (CW-9), 228 µg/L (MW-37S), 100.3 µg/L (MW-37D), 29,100 µg/L (MW-75S), not detected (MW-93S), and 440 µg/L (MW-93D). The only non-qualified metal detection reported for these samples was a low detection (6.7 µg/L) of dissolved chromium at MW-93S. Total and available cyanide were not detected above applicable PQLs in the two samples for which they were analyzed (at MW-93S and MW-93D).

#### **4.6.4.2 Groundwater Quality – CW-20 Pumping Test**

During the CW-20 groundwater pumping test, groundwater was sampled from CW-20 and seven primary observation wells (MW-75S, MW-75D, MW37S, MW-37D, MW-93S, MW-93D, and CW-9). Tables 10 and 11 have been prepared to summarize the results of these sampling events while Figures 11 and 12 display recent historical data trends (Figure 11 note – wells MW-75S and MW-75D are plotted with respect to the secondary Y axis). Additionally, Plate 2 displays groundwater chemistry on a cross-section of the subsurface between CW-20 and MW-93D. These analytical results were evaluated to determine if (and how) pumping at CW-20 influenced migration of VOCs. The following bullets relate how wells in the southwest corner of the WPL reacted during the CW-20 groundwater pumping test:

- **CW-20:** During the pre-pumping test sampling conducted on December 14, 2006, the total VOC concentration at CW-20 was 1,700 µg/L. This value was approximately 11 percent lower than the October 2006 analytical result. Sampling performed 24 hours into the pumping test (on December 19) showed a 58 percent increase to 2,690 µg/L (suggesting VOC mobilization). However, sampling performed 72 hours into the pumping test (on December 21) resulted in a total VOC concentration (1,670 milligrams per liter [mg/L]) that was similar to the pre-pumping test result. Chromium was the only wet chemistry parameter detected during the sampling. The dissolved chromium analytical results remained consistent throughout the test, ranging from 7.5 µg/L (before the test) to 10.4 µg/L (at 24 hours into the test).
- **MW-75D:** The pre-pumping test total VOC concentration at MW-75D (2,640 µg/L) was similar to that reported for CW-20. However, Figure 11 (secondary Y axis) confirms a significant decrease in total VOC concentration at MW-75D beginning during the time period that CW-20 was being installed. The MW-75D pre-pumping test total VOC concentration was approximately 90 percent lower than the June 2006 concentration at this location (25,400 µg/L). This decrease in concentration is believed to be the result of developing the void connecting CW-20 and MW-75D during the installation of well CW-20, with the drilling/development water from this activity being containerized and

processed through the GWTS. Total VOC concentration changes during the pumping test ranged from an increase of 19 percent (at 24 hours) to a decrease of approximately 21 percent (at 72 hours). Chromium was the only wet chemistry parameter detected at MW-75D during the sampling. The dissolved chromium analytical results remained consistent throughout the test, ranging from 9.3 µg/L before the test to 11.6 µg/L at 24 hours into the test.

- **MW-37D:** This well is located 10 feet east of CW-20 and is screened approximately 74 feet shallower than CW-20. Figure 11 indicates that the total VOC concentration at this location initially decreased to low levels during the installation of well CW-20 (in June 2006). However, by December 2006, the total VOC concentration had returned to typical levels. The pre-pumping test total VOC concentration (1,965 µg/L) sampled on December 14, 2007, was similar to the concentration reported for CW-20. An overall increase of approximately 8 percent was noted in the total VOC concentration for this well after 72 hours of pumping. Total chromium and total lead were the only wet chemistry parameters detected during the sampling. The total chromium analytical results showed a decrease in concentration throughout the test from 14.0 µg/L before the test to 5.6 µg/L at 72 hours into the test. Similarly, the total lead analytical results showed a decrease in concentration throughout the test from 22.9 µg/L before the test to less than the PQL at 72 hours into the test.
- **MW-75S:** This well is located 16 feet north of CW-20 and is screened approximately 40 feet shallower than CW-20. Figure 11 (secondary Y axis) indicates that the total VOC concentration at this location remained fairly consistent before and after the drilling of well CW-20 (in June 2006). The pre-pumping test total VOC concentration (37,500 µg/L) represents the highest concentration detected in the vicinity of CW-20. At 24 hours into the test, the total VOC concentration at this location had decreased to 29,500 µg/L (suggesting VOCs may have moved away). However, after 72 hours of pumping, the total VOC concentration had returned to essentially the pre-pumping concentration (37,400 µg/L). Total chromium and total lead were the only wet chemistry parameters detected during the sampling. The total chromium analytical results showed a

decrease in concentration throughout the test from 11.5 µg/L before the test to less than the PQL at 72 hours into the test. Similarly, the total lead analytical results showed a decrease in concentration throughout the test from 9.6 µg/L before the test to less than the PQL at 72 hours into the test.

- **MW-37S:** This well is located 10 feet east of CW-20 and is screened approximately 188 feet shallower than CW-20. Figure 11 indicates that the total VOC concentration at this location has remained fairly consistent before and after the drilling of well CW-20 (in June 2006). The pre-pumping test total VOC concentration (202 µg/L) was lower than the concentration reported for CW-20. The total VOC concentration initially decreased at this location (to 181 µg/L) after 24 hours before ending at a higher level of 239 µg/L after 72 hours of pumping. No wet chemistry parameters were detected above PQLs during the pumping test sampling events.
- **MW-93D:** This well is located 213 feet north of CW-20 and is screened approximately 70 feet shallower than CW-20. Figure 12 indicates that the total VOC concentration at this location showed a slight increase after the drilling of well CW-20 (in December 2006); however, total VOC levels did return to normal by June 2007. The pre-pumping test total VOC concentration was 1,174 µg/L. An increase of approximately 9 percent was noted in the total VOC concentration for this well after 72 hours of pumping. No wet chemistry parameters were detected above PQLs during the pumping test sampling events.
- **MW-93S:** This well is located 194 feet north of CW-20 and is screened approximately 176 feet shallower than CW-20. Figure 12 indicates that the total VOC concentration at this location showed a slight increase after the drilling of well CW-20 (in December 2006); however, total VOC levels did return to normal by June 2007. The pre-pumping test total VOC concentration (130 µg/L) was lower than the concentration reported for CW-20. After 24 hours, the total VOC concentration at this location increased to 187.7 µg/L. However, after 72 hours, a significant decrease in total VOC concentration was noted. Only 5.1 µg/L of total VOCs were detected during the 72-hour

sampling event. This represents an overall concentration decrease of 96 percent from prior to the test. The main decrease in chemistry at this well was due to PCE concentrations going from 130 µg/L to not detected. Chromium was the only wet chemistry parameter detected during the sampling. The total chromium analytical results showed a decrease throughout the test, ranging from 6.9 µg/L before the test to less than the PQL at 24 and 72 hours into the test.

- **CW-9:** This well is located approximately 214 feet east of CW-20 and is screened approximately 162 feet shallower. Figure 12 indicates that the total VOC concentration at this location showed an initial decrease after the drilling of well CW-20 (in June 2006); however, total VOC levels are slowly returning to normal as evidenced by the June 2007 analytical results. The pre-pumping test total VOC concentration (161.5 µg/L) was lower than the concentration reported for CW-20. An overall decrease of approximately 14 percent was noted in the total VOC concentration for this well after 72 hours of pumping. Chromium was the only wet chemistry parameter detected during the pumping test sampling. The dissolved chromium analytical results exhibited a decrease from 7.9 µg/L before the test to less than the PQL (at 24 hours into the test) and 5.0 µg/L (at 72 hours into the test).

In consideration of the above data trends, there appears to have been some minor movement of VOCs during the CW-20 pumping test as summarized below:

- During the first 24 hours of pumping, a concentration increase was noted in CW-20. Similarly, concentration decreases were noted for wells MW-37S and MW-75S. Most notably, the total VOC concentration at MW-75S decreased from 37,500 to 29,500 µg/L. A possible explanation of these observations is that VOCs were mobilized from the area of MW-75S to nearby wells MW-75D and CW-20 as a result of pumping well CW-20.
- At the conclusion of the CW-20 pumping test, the CW-20 total VOC concentration had returned to pre-pumping test levels. However, three locations (MW-75D, MW-93S, and CW-9) showed total VOC concentrations that had decreased by 14 percent or greater.

This information suggests that pumping at CW-20 may have drawn VOCs from these three areas (i.e., drew cleaner water into these wells).

Additionally, Table 12 was prepared to present the ratio of the primary VOCs present at each location. This information was then used to evaluate if wells appear to be interconnected based on the ratio of VOCs that are present. The presence of similar VOC ratios could indicate that the water sampled at different locations is from the same source area. However, different VOC ratios do not necessarily indicate different sources but could represent differing natural degradation rates. As the chlorinated solvents of interest (PCE and TCE) degrade, concentrations of the daughter product (cis-1,2-dichloroethene [cis-1,2-DCE]) should increase. The exception to this situation is in areas close to the source (i.e., those exhibiting high VOC concentrations like MW-75S) where VOCs will not degrade as fast as in lower concentration areas. A review of these data indicates the following observations:

- Wells CW-20, MW-37D, and MW-75D (designated Group A) have similar magnitude total VOC concentrations (between 1,670 and 3,150 mg/L). Each of the Group A wells showed similar ratios of VOCs throughout the CW-20 pumping test, with PCE being the most dominant, followed by TCE and then cis-1,2-DCE.
- Wells MW-37S and MW-75S (designated Group B) are located within a 16-foot radius of CW-20. However, both of these wells are screened at shallower depths (approximately 188 and 40 feet shallower, respectively). The total VOC concentrations in these wells were significantly different than the Group A wells (and compared to each other). MW-37S is at least one order of magnitude lower while the MW-75S total VOC concentration is at least one magnitude greater. The MW-75S sampling location contains similar VOC ratios compared to the Group A wells, with PCE being the most dominant VOC. The MW-37S location also shows PCE as the dominant VOC; however, the PCE percentage of the total VOCs is higher than the Group A wells (average of 85 percent versus approximately 65 percent). This suggests either a different source at MW-37S or less degradation at MW-37S.



- The three remaining primary observation wells (MW-93S, MW-93D, and CW-9) are located within a 214-foot radius of CW-20. These wells have been designated the Group C wells. Two of the Group C wells (MW-93D and CW-9) have similar VOC concentration ratios to the Group A wells. However, well MW-93S went from having primarily PCE present before the pumping test (94.1 percent PCE) to having no PCE and with cis-1,2-DCE as being the dominant VOC at the conclusion of the test.

As a result of the groundwater quality data analyses, the following conclusions have been developed:

- The Group A wells (CW-20, MW-37D, and MW-75D) appear to be well connected. This is evidenced by the similar total VOC concentrations and the similar VOC ratios that were detected.
- Early pumping at CW-20 (within the first 24 hours) appeared to influence the mobility of concentrated VOCs from well MW-75S. However, by the end of the CW-20 pumping test (72 hours), analytical data suggest that VOCs were no longer being mobilized from MW-75S to CW-20.
- Sampling data collected at the conclusion of the CW-20 pumping test show a relatively stable total VOC concentration at CW-20 (compared to pretest concentrations). This suggests that local, concentrated VOCs (at MW-75S) were not being mobilized. However, total VOC concentrations from two areas containing lower level VOCs (CW-9 and MW-93S) had decreased by 14 to 96 percent, respectively. Additionally, both locations indicated a decrease in the PCE concentrations and an increase in the ratio of cis-1,2-DCE to other VOCs present. This suggests that VOCs may be mobilizing from these locations toward CW-20.

## **5.0 WEST PARKING LOT PUMPING TEST**

Following the 24-hour recovery period for the CW-20 pumping test, Harley-Davidson GWTS operators re-enabled the WPL collection wells on December 24. A review of these data indicated that pumping at CW-9 resulted in greater groundwater drawdown in wells MW-37D and MW-75D than what was realized in these wells during the CW-20 pumping test. This observation suggested that collection well CW-9 may be effectively capturing VOC-impacted groundwater and that well CW-20 was not necessary. As a result, additional pumping test activities were recommended to further evaluate this situation.

Groundwater pumping test activities for the WPL area began during the week of May 7, 2007. The purpose of this test was to measure the influence of the existing groundwater extraction system on the CW-20 area. This information was then to be used to consider whether pumping of CW-20 would provide sufficient improved performance to the WPL system to justify the expense of bringing it on-line.

During the test, data were collected while controlling the operation of four existing groundwater extraction wells (CW-9, CW-13, CW-15A, and CW-17). The pumps in these four wells were initially turned off on Friday, May 4, 2007. This action was designed to allow the water table to equilibrate prior to implementing the pumping test. As a result, the groundwater table had approximately 71 hours to recover before the test was started on Monday afternoon.

In order to perform the test, the existing extraction system well pumps were utilized. A summary of the pump information is presented below:

- CW-9: 10 hp motor, Grundfos 75S100-16 pump end.
- CW-13: 7.5 hp motor, Grundfos 150S75-4 pump end.
- CW-15A: 0.5 hp motor, Grundfos 10S05-9 pump end.
- CW-17: 7.5 hp motor, Aermotor 75S75-12 pump end.

Each well has a dedicated groundwater conveyance line that transfers water from the wellhead to the groundwater treatment plant. Each conveyance line has its own individual totalizing flow meter installed on the piping manifold at Building 41. All treated groundwater was then discharged to Johnson Run under NPDES permit number PA0085677.

In order to monitor the effects of pumping on the groundwater table beneath the WPL, SAIC installed electronic recording devices in the same five wells that were electronically monitored during the CW-20 pumping test. These wells are listed below:

- CW-9
- CW-20
- MW-37D
- MW-75D
- MW-93D

Each of these five wells was equipped with a minitroll data logger (manufactured by Insitu, Inc.). The data loggers were placed in the wells on May 4. Power for operating the submersible pumps was previously installed as part of the existing remediation system and is controlled from Building 41.

## **5.1 Pretest Monitoring**

### **5.1.1 Precipitation Data**

Precipitation data were monitored in order to document any potential groundwater recharge that occurred during the pumping test. These data were collected by Harley-Davidson's on-site weather station and are summarized on Table 13. In general, May's precipitation was below normal amounts (1.15 inches versus 4.22 inches). During the period of the pumping test (May 4 to May 11), light precipitation was recorded (0.19 inches) on May 10. Most of this precipitation occurred after approximately 72 hours of pumping test had been completed.

### **5.1.2 Groundwater Level Monitoring**

Prior to starting the groundwater pumping test, water level measurements were taken to establish prestart-up groundwater levels for comparison to levels measured during the test. The following groundwater level data were collected at the site:

- A round of groundwater levels was measured from approximately 40 wells on May 4 prior to turning off the groundwater extraction wells.
- Approximately three days of background water level data were collected electronically for the five monitoring wells equipped with a data logger. The water level data were collected from approximately 1:00 p.m. on May 4 until approximately 2:00 p.m. on May 7. These data represent groundwater recovery from the time the WPL wells were turned off until the time they were reactivated. These data are graphically displayed on the figures in Appendix J.
- On May 7, manual water level measurements were collected from 41 wells using a water level indicator. The initial water levels are summarized on Table 14 and contoured on Figure 13.

Figure 13 indicates the groundwater level conditions prior to starting the WPL groundwater pumping test on May 7. These data were collected after the active groundwater extraction wells had been shut down and the aquifer had recovered for three days. The overall groundwater gradient beneath the WPL is toward the west-northwest. An interesting low water elevation occurs at MW-81, located north of Building 91, which is part of a northwest-to-southeast-trending groundwater trough.

## **5.2 Pumping Test Procedures**

A multi-well constant-rate pumping test was conducted in the WPL over an approximate 92-hour pumping period beginning on May 7. Groundwater level responses beneath the WPL were

monitored utilizing a combination of the existing shallow and deep groundwater monitoring wells present on-site. Monitoring was accomplished using a combination of manual measurements and electronic data loggers with pressure transducers. The groundwater level measurements were periodically downloaded from the electronic data loggers to a computer for storage and field checked with an electronic water level indicator during the test.

The groundwater level measurements were collected in the wells at a frequency of once per day. All manual water levels recorded during the WPL constant-rate test are tabulated in Appendix K.

In addition to the water level measurements, the pumping rate and cumulative flow were recorded daily using the existing RSView GWTS monitoring software. Flow data for the four active groundwater collection wells was recorded during the long-term pumping test and is presented below (for May 7 through May 11):

- CW-9: total gallons pumped = 474,115 over 103 hours (average = 76.7 gpm)
- CW-13: total gallons pumped = 296,138 over 103 hours (average = 47.9 gpm)
- CW-15A: total gallons pumped = 32,376 over 98 hours (average = 5.5 gpm)
- CW-17: total gallons pumped = 538,561 over 102.2 hours (average = 87.8 gpm)

The variation in the time each well pumped is the result of two communication errors that caused CW-17 and/or CW-15A to temporarily shut down for short periods of time during the test.

### **5.3 West Parking Lot Pumping Test Results**

Since 1994, an active groundwater collection system has operated in the WPL. In order to perform this WPL pumping test, each active collection well was shut down on May 4, 2007. Electronic water level recorders were deployed in five observation wells (CW-9, CW-20, MW-37D, MW-75D, and MW-93D) on this date. These recorders were used to measure groundwater recovery for approximately 70 hours prior to the restart of the WPL pumping wells on May 7. The groundwater recovery data for all WPL wells are tabulated on Table 15.

Additionally, recovery data are displayed graphically in Appendix J for the five wells equipped with an electronic recorder.

Prior to test start-up on May 7, the groundwater levels in the southwest corner of the WPL were noted to have rebounded between 1.37 feet (at MW-93S) and 2.46 feet (at MW-37D). Similar groundwater recovery values ranging from 2.42 to 2.46 feet were noted for CW-20 and the two wells located adjacent to it (MW-37D and MW-75D). Given that these wells only drew down a maximum of 1.93 feet during the CW-20 pumping test, it appears that the aquifer had fully recovered in this area prior to the restart of the WPL collection wells on May 7.

Groundwater level data measured on May 7 before restart of the WPL pumping wells are presented on Table 14 and contoured on Figure 13. On this date, shallow groundwater flow beneath the northern portion of the WPL was to the west. The groundwater elevation ranged from 348.98 (at MW-30, east of the WPL) to 342.44 (at MW-39S). A low horizontal gradient of 0.001 was calculated between MW-51S and MW-39S.

Prior to restart of the WPL pumping wells, shallow groundwater flow beneath the southern portion of the WPL was to the northwest. The groundwater elevation ranged from 351.95 (at MW-29, southeast of the WPL) to 342.31 (at CW-13). A low horizontal gradient of 0.003 was calculated between CW-9 and CW-13. In the vicinity of well CW-20, the shallow groundwater gradient was toward the northwest (away from the site).

One area of notable groundwater elevation (pretest) was in the vicinity of well cluster MW-81S/D. The shallow groundwater elevation measured at this location before the start of the WPL pumping test was 0.17 feet lower than the nearest well to the west (MW-45). The elevation at MW-81S was also 1.43 feet lower than well MW-27, which is approximately the same distance to the north (compared to MW-45). This information indicates that a northwest-to-southeast-extending trough exists in the shallow groundwater table between wells MW-45 and MW-27.

The WPL pumping test was initiated on Monday, May 7. The groundwater pumps were activated in extraction wells CW-9, CW-13, CW-15A, and CW-17 at approximately 3:15 p.m. The well

pumps were set to run at a constant rate throughout the entire test. The specific groundwater extraction rates are summarized in Section 5.2.

Groundwater level data collected three days into the test and prior to the end of the test (after approximately 72 and 92 hours of pumping) are presented on Table 16. Additionally, groundwater elevations calculated using these data have been contoured as Figures 14 and 15, respectively. Groundwater drawdown maps have also been prepared for both the 72-hour measurements and the 92-hour measurements (Figures 16 and 17, respectively). A review of these data indicates the following:

- During the WPL test, areas of maximum groundwater drawdown were noted around CW-13 (12.02 feet) and CW-15A (15.93 feet) (refer to Figures 16 and 17). The entire WPL and the north half of Building 4 experienced at least one foot of groundwater drawdown. An overall groundwater depression of five feet or greater was observed beneath the majority of the western and northern portions of the WPL.
- At 72 hours (and 92 hours) into the WPL pumping test, groundwater flow along the eastern half of the WPL is toward the west to active groundwater collection wells (CW-9, CW-13, and CW-17). Groundwater flow along the western half of the WPL is toward the east toward the same three collection wells.
- The presence of a trough in the groundwater table near MW-81S/D during the WPL pumping test is not evident on Figures 14 and 15. However, the groundwater elevation at MW-81S remains lower than the elevation at MW-27, which is closer to nearby extraction well CW-15A. This low groundwater elevation at MW-81S may be influenced by pumping at CW-9. A review of Figure 2 indicates that well MW-81S may be located along the same fracture trace that trends proximal to well CW-9.
- As evidenced on Figures 16 and 17, well MW-51D falls in an area that is expected to show approximately four to five feet of groundwater drawdown. However, actual measurements taken in the field indicate that the groundwater level increased between 7.92 (at 92 hours)

and 10.6 feet (at 72 hours). The field measurements were double-checked at the time they were recorded and determined to be accurate. With the limited data collected during this investigation, the reason for this rise in water level is not currently understood. Further monitoring (i.e., installation of an electronic data logger) is recommended to help understand the hydraulic conditions associated with this well.

Drawdown measurements of the five observation wells (CW-9, CW-20, MW-37D, MW-75D, and MW-93D) equipped with an electronic recorder during the WPL pumping test were plotted on arithmetic graphs versus elapsed time (time-drawdown plot) to measure the effect of pumping on the aquifer (refer to Appendix L). The aquifer transmissivity was calculated for CW-9 (an active pumping well) but could not be accurately calculated for other monitoring wells since multiple pumping wells were active. Using the CW-9 test data, an aquifer transmissivity of 9,600 gpd/ft was calculated. This value is consistent with the transmissivity calculated for well CW-9 (9,300 gpd/ft) during a study conducted in 1991 (R. E. Wright Associates, Inc., 1991).

### **5.3.1 Evaluation of WPL Pumping on CW-20 Area**

During the WPL pumping test, shallow groundwater flow in the vicinity of well CW-20 appears to have been redirected to the northeast toward active collection well CW-9. A total of 2.9 feet of drawdown was measured at CW-20 (after 72 hours), which is located approximately 214 feet to the southwest of active pumping well CW-9. Similar drawdown values were recorded for MW-37D (2.94 feet) and MW-75D (2.92 feet). Lesser groundwater drawdown was noted for wells MW-37S (1.85 feet) and MW-75S (2.58 feet), which are constructed in a shallower portion of the aquifer. These observations suggest that pumping at CW-9 does influence groundwater levels in the deep wells near CW-20.

In comparison, during the CW-20 pumping test conducted in December 2006, the three deep groundwater monitoring wells located near CW-20 (MW-37D, MW-75D, and MW-93D) showed a maximum drawdown of only 2.22 feet (at MW-75D) at 72 hours. This indicates that pumping at CW-9 (at a rate of 76.7 gpm) has a greater effect on the groundwater level near CW-20 than actual pumping of well CW-20 (at a rate of 60 gpm).



Appendix L includes a graph showing the groundwater drawdown of the five wells with electronic recorders during the WPL pumping test. One item of note is the drawdown response of wells CW-20, MW-37D, and MW-75D. The response of these three wells is nearly identical, as evidenced by the three lines practically overlying each other. This supports the idea that these three wells are interconnected by the fracture/void network.

## **6.0 ADDITIONAL CONSIDERATIONS**

One of the objectives of completing the work described in this report is to evaluate whether or not well CW-20 should be added as an active groundwater collection well to Harley-Davidson's GWTS. Two mechanical issues were identified and are discussed in detail in Appendix M. The following section presents additional technical information to be used in the evaluation of utilizing CW-20 as a groundwater extraction well.

### **6.1 VOC Mass Removal**

As discussed herein, similar groundwater drawdown responses have been realized in the southwest corner of the WPL when pumping CW-20 and CW-9 independent of each other. While continued pumping of CW-9 may limit the off-site migration of VOCs in the southwest corner, an evaluation needs to be made with respect to the effectiveness of VOC recovery by drawing concentrated VOCs from the southwest corner to CW-9. It is possible that groundwater extraction at CW-20 may be more efficient at removing concentrated VOCs and, thus, shorten the time necessary for operating the GWTS.

With the limited data collected during this investigation, there appears to be some evidence to support more efficient VOC recovery from CW-20 compared to CW-9. During the CW-20 pumping test, VOC concentrations at CW-20 ranged from 1,670 to 2,690  $\mu\text{g/L}$  (averaging 2,020  $\mu\text{g/L}$ ) at an average flow rate of 60 gpm. During the same test, VOCs at CW-9 averaged 1,141  $\mu\text{g/L}$ . Using the CW-9 flow rate for the WPL pumping test (76.7 gpm) and assuming a similar period of pumping (72 hours), CW-20 shows a greater VOC mass removal (4.4 pounds) compared to CW-9 (3.2 pounds). Additionally, there was minor evidence of VOC migration from well MW-75S (i.e., a high VOC concentration area) toward CW-20 during the early stages of the CW-20 pumping test.

However, it should be noted that the CW-9 VOC concentrations discussed above were determined while CW-20 was pumping, not while CW-9 was actively pumping. Sampling of CW-9 during continuous pumping of this well may result in extracting higher concentrations of

VOCs, thus increasing its VOC recovery value. Additionally, pumping at both CW-9 and CW-20 may ultimately be determined to be the most efficient way to recover VOCs in the southwest corner of the WPL.

## 7.0 SUMMARY OF FINDINGS

Based on the scope of work described herein, the following is a summary of key findings:

1. Due to elevated total VOC levels at depth in well cluster MW-75S/D, well CW-20 was installed in the southwest corner of the WPL. During sampling performed in June 2006, the total VOC concentrations at MW-75S and MW-75D were 29,100 and 25,400  $\mu\text{g/L}$ , respectively. These values were consistent with historical data reported for these locations dating back to the initial sampling event for each well in 1999.
2. Well CW-20 was installed to a depth designed to screen the same void that is screened by well MW-75D. CW-20 consists of 10 feet of 6-inch-diameter well screen that spans a depth interval of 205 to 215 feet bgs. The well screen, as installed, is capable of passing over 100 gpm.
3. Well CW-20 was initially sampled in October 2006. The total VOC concentration reported for this sample was 1,920  $\mu\text{g/L}$ .
4. A groundwater pumping test plan was prepared and submitted to the SRBC. Upon receipt of plan approval, a groundwater pumping test was scheduled for December 2006.
5. The results of a step-drawdown test performed on well CW-20 indicated that the well is not very efficient (47 percent efficiency at 25 gpm). Additionally, it was determined during the step-test process that the desired maximum testing rate (100 gpm) could not be attained due to a conveyance line restriction (a 2-inch-diameter line that was installed in 1994). A sustained constant pumping rate for the long-term test was selected at 60 gpm.
6. A 72-hour constant-rate drawdown test and a 24-hour groundwater recovery test were performed on well CW-20 between December 18 and December 22, 2006. Data collected during these tests were used to calculate the transmissivity and specific yield of

the aquifer near well CW-20. The average transmissivity values ranged from 5,199 to 23,033 gpd/ft. Storativity values ranged between 0.004 to 0.37. This wide range of values reflects connectivity limitations of the aquifer, which is characteristic of fractured aquifers, and partial penetration effects of discrete level monitoring wells used as observation wells for the pumping test.

7. During the CW-20 pumping test, three monitoring wells proximal to CW-20 (MW-37D, MW-75D, and MW-93D) showed a maximum drawdown of 2.22 feet (at MW-75D).
8. An analysis of groundwater quality data collected during the CW-20 pumping test indicated the following:
  - Three wells (CW-20, MW-37D, and MW-75D) appear to be well connected with each other. This is evidenced by the similar total VOC concentrations detected, similar changes in chemistry during the CW-20 pumping test, and the similar VOC ratios that were detected.
  - Early pumping at CW-20 (within the first 24 hours) appeared to influence the mobility of concentrated VOCs from well MW-75S. However, by the end of the CW-20 pumping test (72 hours), analytical data do not indicate that VOCs were being mobilized from MW-75S to CW-20.
  - Sampling data collected at the conclusion of the CW-20 pumping test show a relatively stable total VOC concentration at CW-20 (compared to pretest concentrations). This suggests that local concentrated VOCs (at MW-75S) were not being mobilized. However, total VOC concentrations from two areas containing lower level VOCs (CW-9 and MW-93S) had decreased by 14 to 96 percent, respectively. This suggests that extended pumping may mobilize VOCs from these locations toward CW-20.

9. During the CW-20 groundwater pumping test, 1.59 feet of drawdown was measured at a location 280 feet to the northeast of CW-20 (at MW-8). Only 0.48 feet of drawdown was measured at approximately the same distance to the north-northwest (at MW-38D). These data suggest that a preferential flow direction is marked by maximum groundwater drawdown that was recorded during the CW-20 pumping test in a northeast to southwest orientation from the CW-20 wellhead. This direction is consistent with the location of a mapped fracture trace (refer to Figure 2). The northeast-to-northwest-drawdown ratio is approximately 2:1, which is equivalent to the directional transmissivity contrast.
10. A second groundwater pumping test (referred to as the WPL pumping test) was subsequently conducted in May 2007. The intent of this test was to evaluate if the existing WPL collection wells (CW-9, CW-13, CW-15A, and CW-17) are effective at capturing VOC-impacted groundwater in the southwest corner of the WPL (near CW-20). In order to complete this test, the four WPL collection wells (plus CW-8) were shut down, and the groundwater table was allowed to equilibrate. Then, the WPL extraction wells were re-enabled (CW-8 did not operate for the majority of the test), and groundwater levels were monitored in approximately 41 wells on-site for a period of approximately 92 hours.
11. During the WPL pumping test (at 72 hours), between 2.9 feet (at CW-20) and 2.94 feet (MW-37D) of groundwater drawdown was measured in deep wells proximal to CW-20. These values exceed the maximum drawdown recorded at 72 hours for the same locations (2.22 feet at MW-75D) during the CW-20 pumping test.
12. Based on data presented herein, active recovery well CW-9 is maintaining groundwater capture in the southwest corner of the WPL.
13. CW-20 is in the immediate location of high concentration VOCs. Although capture is being maintained by CW-9, it is possible that groundwater extraction at CW-20 may be more efficient at removing concentrated VOCs and, thus, shorten the time necessary for operating the GWTS. Removal of VOC-impacted groundwater at CW-20 might be more

efficient than drawing VOC-impacted groundwater approximately 214 feet (to CW-9). Additionally, consideration needs to be given to the fact that groundwater extraction at both CW-9 and CW-20 may be the most efficient method to recover VOCs in the southwest corner of the WPL.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

The original intent of installing and bringing collection well CW-20 on-line was to capture groundwater with elevated VOCs (i.e., in excess of 20,000  $\mu\text{g/L}$ ). The initial sampling of groundwater at well CW-20 revealed that its VOC concentration (1,920  $\mu\text{g/L}$ ) was approximately one order of magnitude lower than that of MW-75S/D. Further investigation has revealed that well MW-75S continues to display elevated VOC levels while the VOC level in well MW-75D has decreased by one order of magnitude (to around 2,000  $\mu\text{g/L}$ ). This VOC decrease at MW-75D is possibly a result of well construction activities since MW-75D is believed to be constructed within the same open void as well CW-20.

Groundwater pumping test data have indicated that well CW-20 is closely connected to well MW-75D, but not to well MW-75S. As introduced in Section 4.6.4 of this report, MW-75S is believed to have been installed in a sediment-filled (clay, silt, and sand) void while MW-75D and CW-20 are installed in a void with coarse material (sand and rock fragments). This difference is evidenced by the fact well MW-75S has a lower well yield (less than one gpm versus greater than five gpm) than MW-75D/CW-20. Based on these observations, it appears that the elevated VOCs remaining in this area are confined to the sediment-filled void that is screened by MW-75S.

Hydraulic testing performed on well CW-20 confirmed that wells MW-37D and MW-75D are well-connected to CW-20 via the bedrock fracture/void network. These wells showed similar groundwater drawdown responses and chemistry changes compared to CW-20. The drawdown and recovery curves for these three wells mirrored each other during the testing. Additionally, similar groundwater chemistry levels and similar fluctuations in chemistry during groundwater pumping were noted during the testing process.

During the CW-20 pumping test, early pumping data (within the first 24 hours) suggested that concentrated VOCs were mobilized from well MW-75S toward CW-20. At the conclusion of the CW-20 pumping test, the analytical data showed a relatively stable total VOC concentration at CW-20 (compared to pre-test concentrations). This suggests that local concentrated VOCs (at



MW-75S) were not being mobilized. However, total VOC concentrations from two areas containing lower level VOCs (CW-9 and MW-93S) had decreased by 14 to 96 percent, respectively. This suggests that VOCs may have been mobilized from these locations toward CW-20.

During the CW-20 pumping test, well CW-9 displayed similar VOC concentrations and ratios as MW-37D, MW-75D, and CW-20. Additionally, pumping at CW-9 during the WPL test produced similar (or greater) groundwater drawdown in the deep wells (MW-37D, MW-75D, and CW-20) compared to pumping at CW-20. This information suggests that this well may be well-connected to the deeper fractures/voids in the southwest corner of the property. It has been noted that a fracture trace has been mapped from the area of CW-20, passing to the northeast near CW-9 and extending toward well cluster MW-81S/D.

The above observations suggest that groundwater extraction using well CW-9 is effective at limiting migration with respect to deep groundwater at wells MW-37D, MW-75D, and CW-20. However, pumping at CW-9 did not affect groundwater levels in shallower monitoring wells (MW-37S and MW-75S) as much as the deeper wells. Wells MW-37S and MW-75S both have low groundwater yields, which suggests that they are not well-connected to the deeper groundwater flow system in this area. As noted earlier, MW-75S is screened in a fine-grained, sediment-filled void, while well MW-37S is screened at the soil/bedrock interface (at a maximum depth of 32 feet bgs). The elevated VOC levels remaining at MW-75S may be the result of a pocket of VOCs that has limited mobility due to the nature of the fine-grained sediment in the void. The sediment may be sealing potential preferential pathways (i.e., fractures/void openings) that would connect it to well CW-20 and/or CW-9.

As a result, it is recommended that well CW-9 continue to be operated to control potential migration of groundwater containing VOCs in the southwest corner of the WPL. The utility of pumping well CW-20 will not likely be known until data collected during supplemental remedial investigation (RI) activities (currently being completed) are evaluated. The status of well CW-20 should be reevaluated after additional off-site wells are installed and geophysical information is collected west of CW-20 as part of the supplemental RI process. Data presented herein should

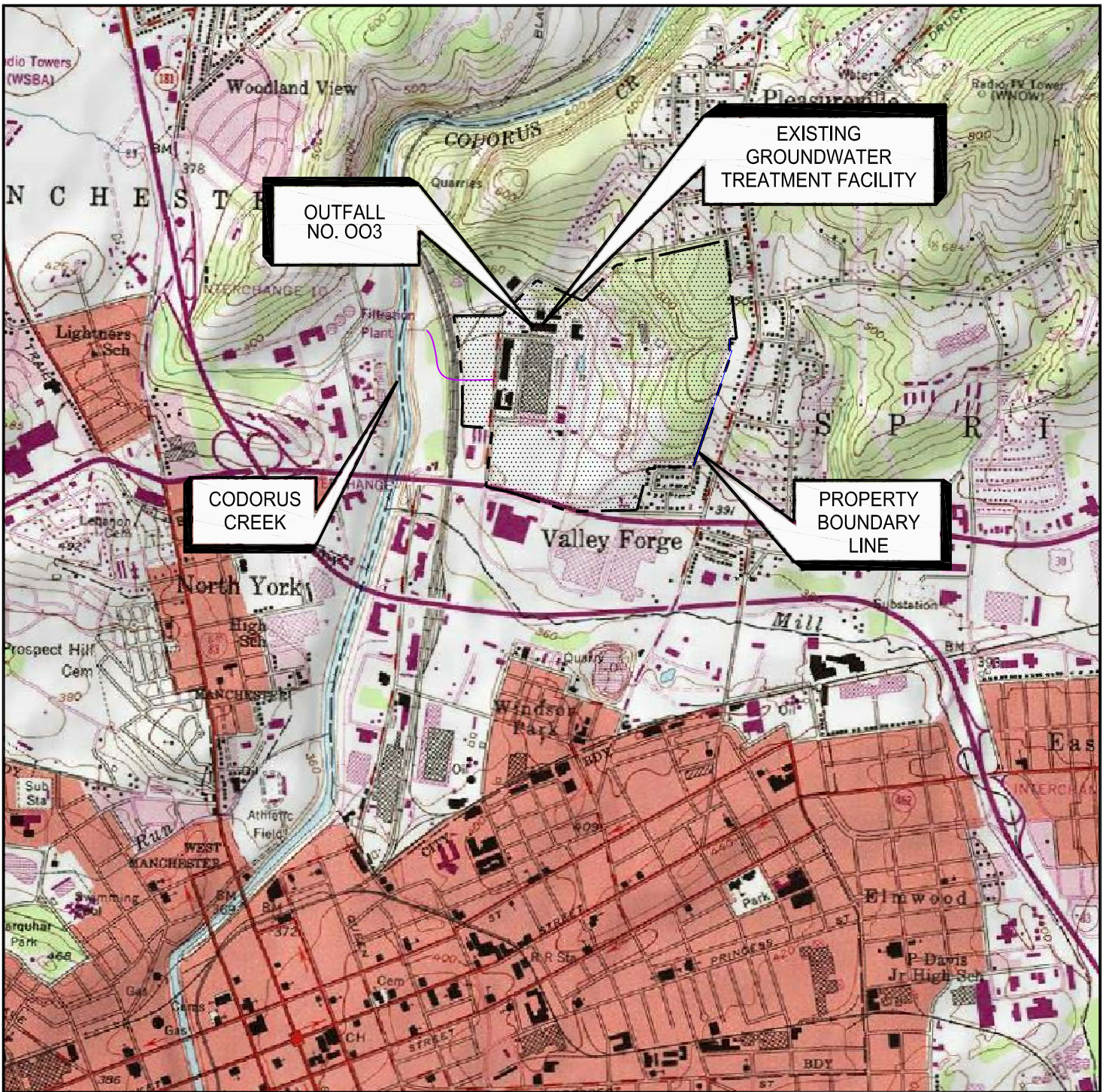
be used during the feasibility analysis for the final groundwater remedy selection for the Harley-Davidson site.

## **9.0 REFERENCES**

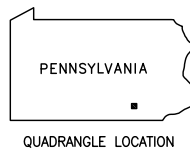
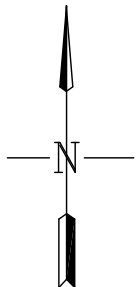
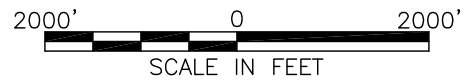
Langan Engineering & Environmental Services, 2005, Final Well and Surface Water Use Survey Supplemental RI Workplan Harley-Davidson Motor Company Operations, Inc. York Vehicle Operations Facility, York, PA.

R. E. Wright Associates, Inc., 1991, Groundwater Investigation for the Western Parking Lot and Southern Property Boundary at the Harley-Davidson, Inc. Facility, York, Pennsylvania, REWAI Project 89254, for Harley Davidson, Inc., York, PA.

# FIGURES



NOTE: BASE MAP FROM THE YORK PA., USGS 7 1/2 MIN TOPOGRAPHIC QUADRANGLE (PR 1990).



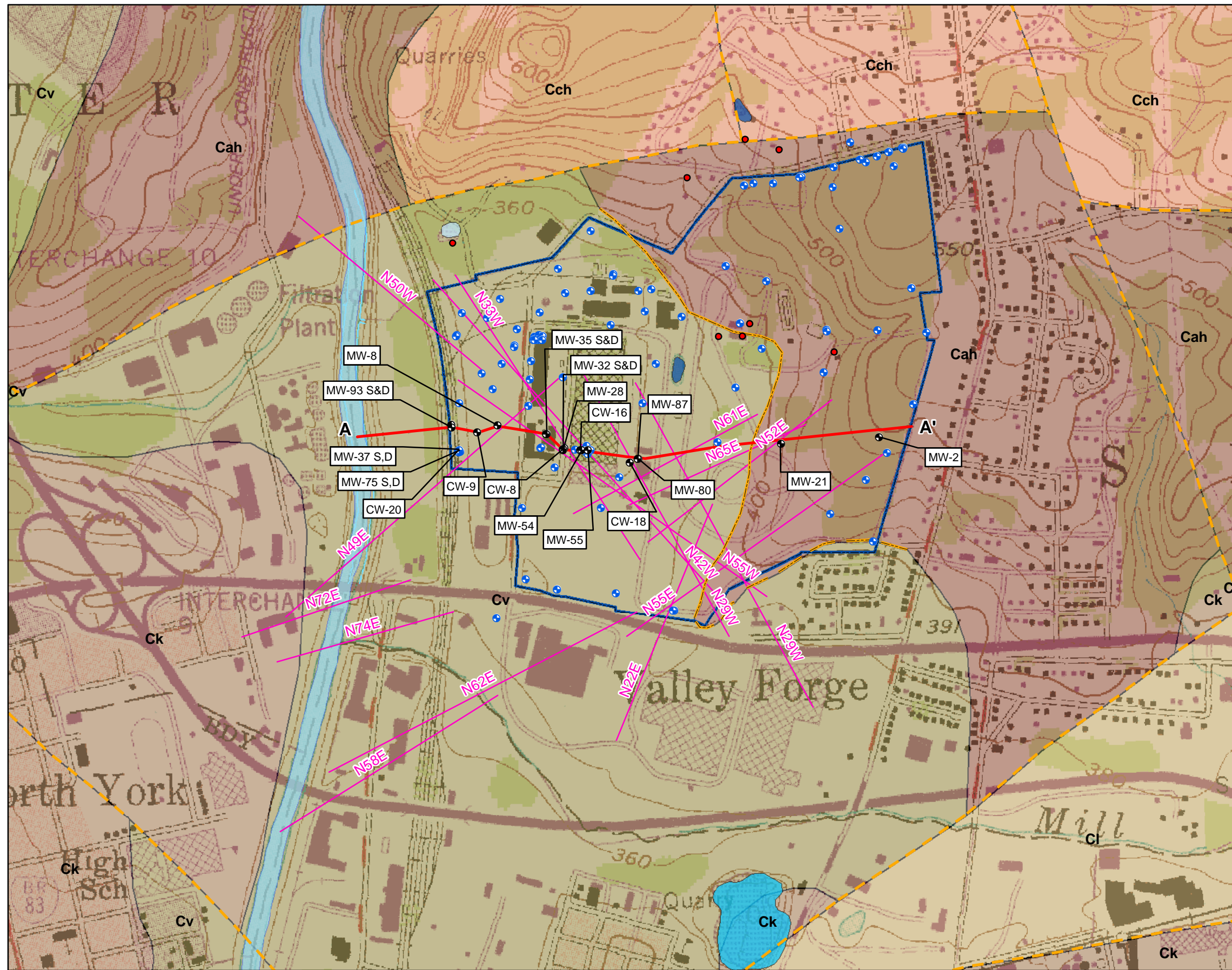
**MOTOR HARLEY-DAVIDSON COMPANY**  
**HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.**  
 YORK VEHICLE OPERATIONS  
 1425 EDEN ROAD, YORK PA 17402

**SITE LOCATION MAP**

drawn <i>RAM</i>	checked <i>SLM</i>	approved <i>SMS</i>	figure no.
date 03/27/03	date 09/14/07	date 09/14/07	1
job no. 01-1633-00-0822-100		file no. 0822-002.dwg	







**Legend**

- Cross Section Wells
- Wells
- Springs
- Cross Section A-A'
- Bedrock Contact
- Fault Locations
- Fracture Trace
- Cordorus Creek

**National Wetland Survey Attribute**

- Riverine Lower Perennial Open Water
- Palustrine Open Water (POW) Intermittently Exposed
- POW Intermittently Exposed Diked
- POW Permanently Flooded Excavated
- Harley-Davidson Property

**Geology**

- Cl Ledger Formation
- Ck Kinzers Formation
- Cv Vintage Formation
- Cah Antietam and Harpers Formations, undivided
- Cch Chickies Formation

**Notes;**

1. Base map of the York USGS 7.5 minute quadrangle.
2. National Wetland Survey data from U.S. Fish & Wildlife Service National Wetlands Inventory from 1981 to present.
3. Geology data from PA Department of Conservation and Natural Resources. Bureau of Topographic and Geologic Survey from the 1980 "Geologic Map of Pennsylvania"

0 400 800 1,600 Feet

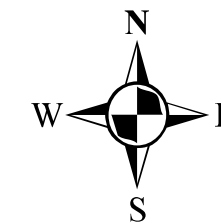
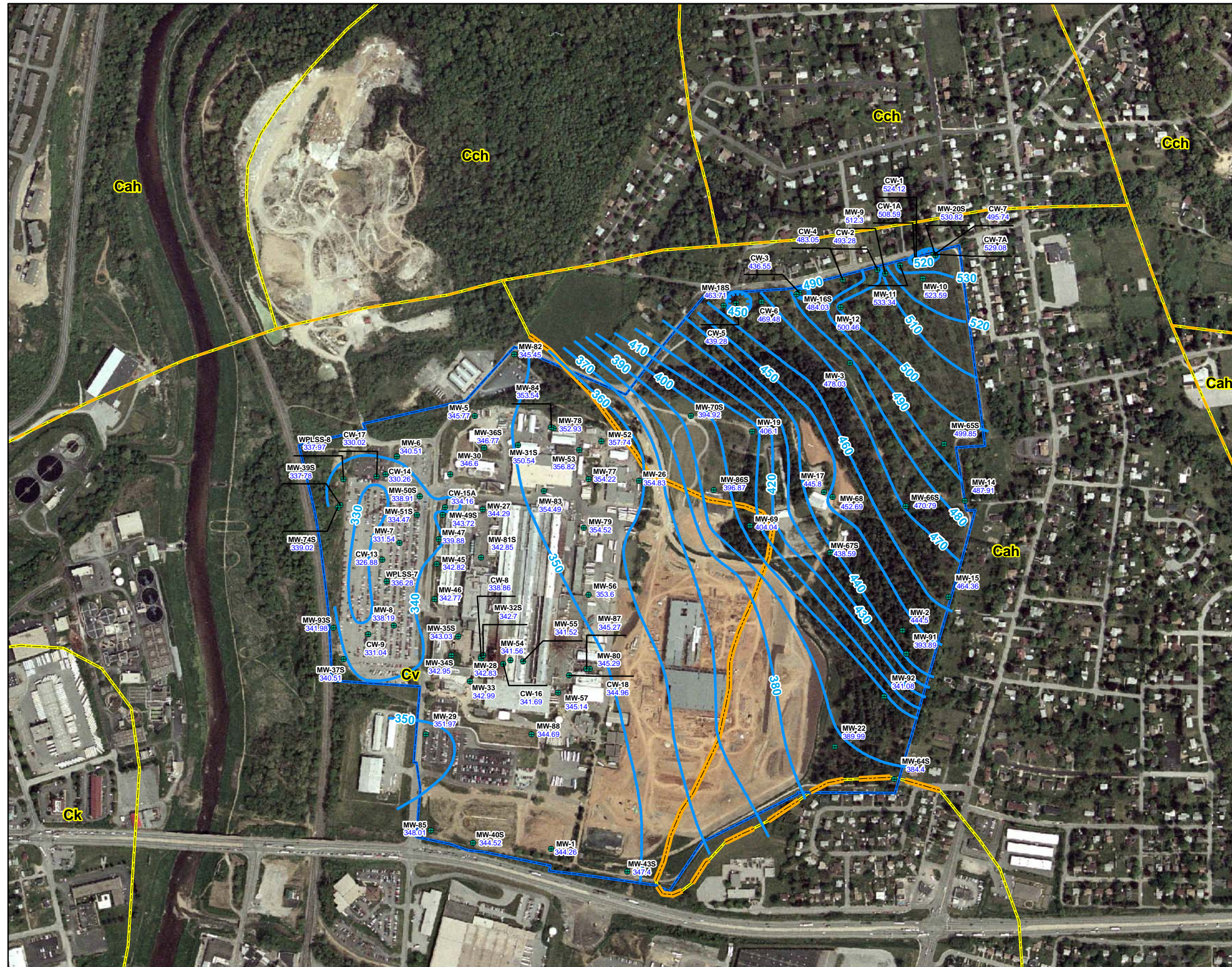
1 inch equals 800 feet

**Figure 2**

Harley-Davidson Motor Company Operations, Inc.  
 York Vehicle Operations  
 1425 Eden Road York, PA 17402

<b>Geology and Wetlands Inventory</b>	
Drawn PAE 07/05/06	Checked SMS 08/08/06
Revisions: AGM 7/3/07 AGM 9/4/07	





**Legend**

**Geology**

- Ck Kinzers Formation
- Cv Vintage Formation
- Cah Antietam and Harpers Formations, undivided
- Cch Chickies Formation
- Wells
- Groundwater Contours (June 2005)
- Bedrock Contact
- Fault Locations
- Harley-Davidson Property



1 inch equals 600 feet

**Figure 3**



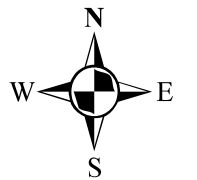
Harley-Davidson Motor Company Operations, Inc.  
 York Vehicle Operations  
 1425 Eden Road York, PA 17402

**Hydrogeologic Map**

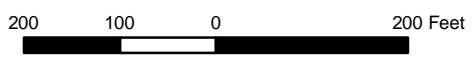


Drawn	Checked
PAE 07/05/06	SMS 08/08/06
Revisions:	
AGM 7/7/07	
AGM 9/4/07	





- Legend**
- Wells
  - Harley-Davidson Property
  - Wetlands Drainage
  - Mapped Wetlands



1 inch equals 200 feet

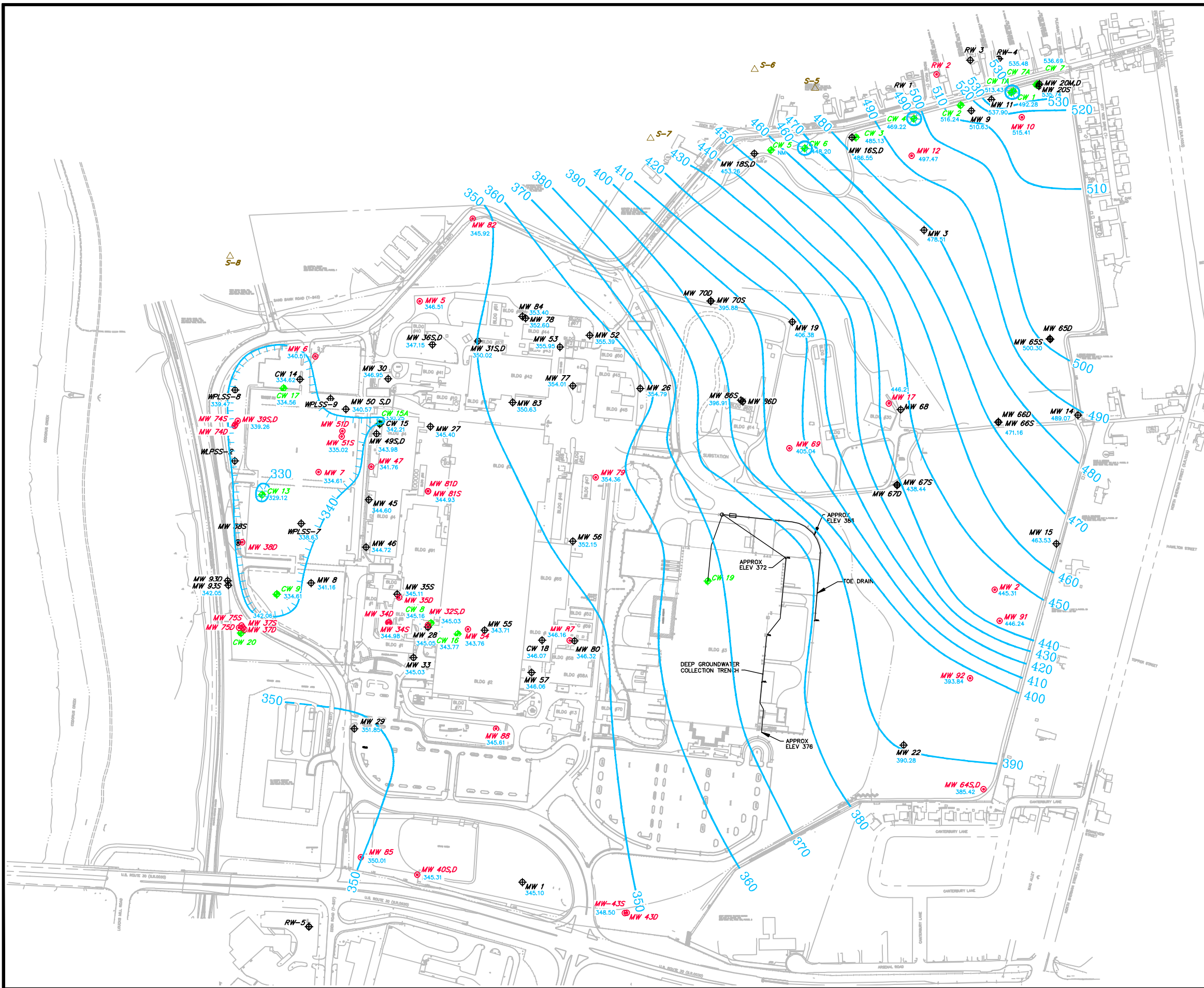
**Figure 4**

Harley-Davidson Motor Company Operations, Inc.  
 York Vehicle Operations  
 1425 Eden Road York, PA 17402

Wetlands Area

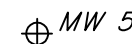




	Drawn	Checked
	PAE 08/04/06	SMS 08/08/06
Revisions:		
7/3/07		






Well I.D.	Daily flow (Gallons)	Average Daily Pumping Rate (GPM)
CW-1	3,279	2.3
CW-1A	1	0.0
CW-2	0	0.0
CW-3	0	0.0
CW-4	3,785	2.6
CW-5	1,393	1.0
CW-6	6,316	4.4
CW-7	0	0.0
CW-7A	0	0.0
CW-8	0	0.0
CW-9	73,329	50.9
CW-13	68,478	47.6
CW-15A	7,090	4.9
CW-17	87,796	61.0
Lift Station	430	0.3

**LEGEND**

-  MW 5 MONITORING WELL LOCATION AND DESIGNATION
-  MW 2 KEY WELL LOCATION AND DESIGNATION
-  CW-1 EXTRACTION WELL LOCATION AND DESIGNATION
-  470 GROUNDWATER ELEVATION CONTOUR LINE, DASHED WHERE INFERRED (CONTOUR INTERVAL VARIES)
-  471.16 GROUNDWATER ELEVATION (FT. AMSL)

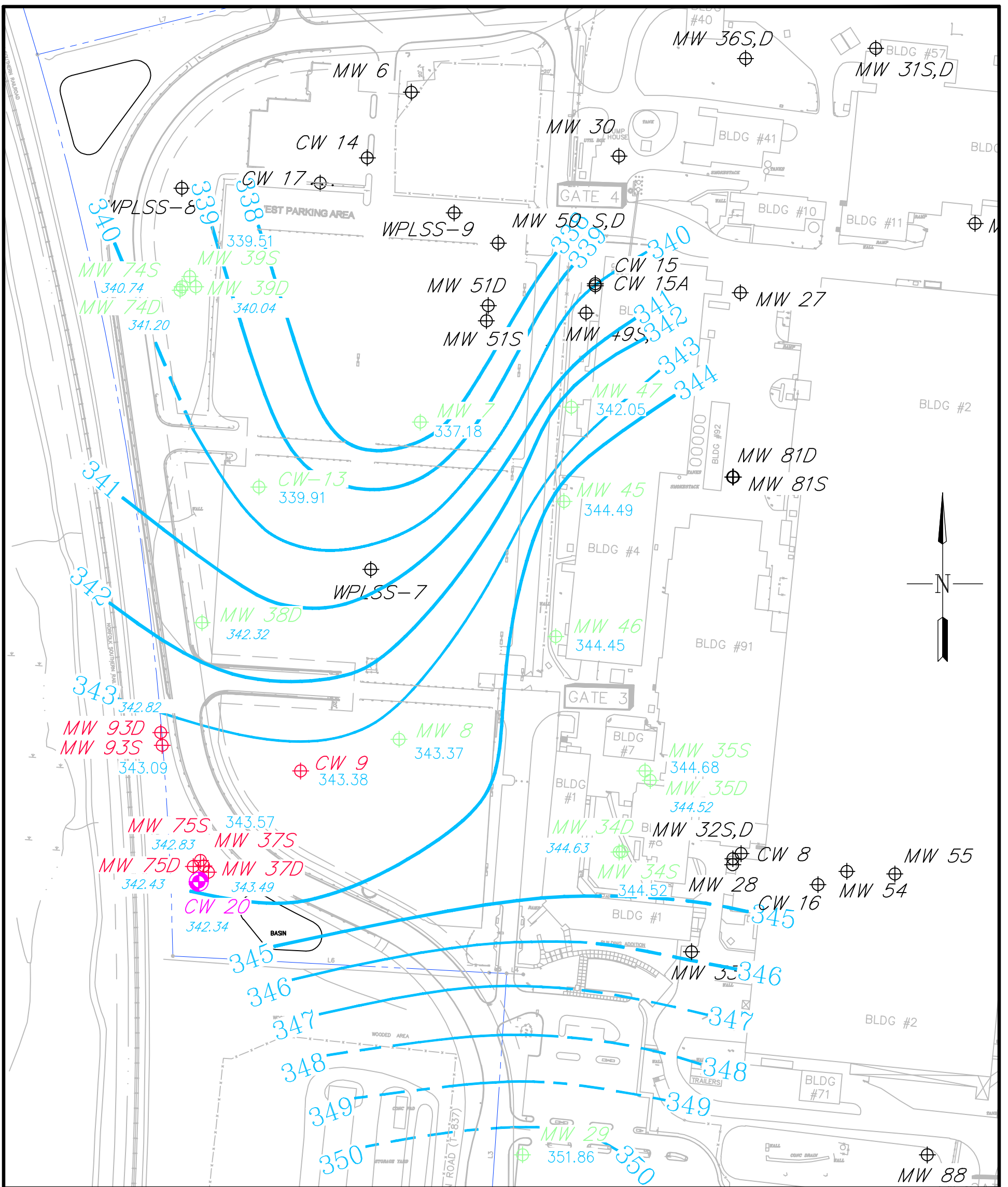


**HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.**  
 YORK VEHICLE OPERATIONS  
 1425 EDEN ROAD, YORK PA 17402

**GROUNDWATER TABLE CONTOURS**  
 DECEMBER 7, 2006

drawn <i>JMH</i>	checked <i>SAM</i>	approved <i>SLM</i>	figure no. <b>5</b>
date 02/09/07	date 02/08/07	date 02/09/07	
job no. 01-1633-00-8629-800		file no. 8629-001.dwg	

**SAIC**  
From Science to Solutions



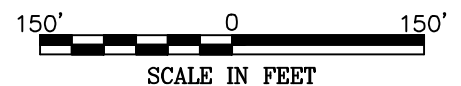
**LEGEND**

- GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION
- WELL TO BE PUMP TESTED
- PRIMARY OBSERVATION WELL
- SECONDARY OBSERVATION WELL

343.38 GROUNDWATER TABLE ELEVATION (IN FEET AMSL) USED IN CONTOURING

342.83 GROUNDWATER ELEVATION - DEEP WELL (IN FEET AMSL), NOT USED IN CONTOURING

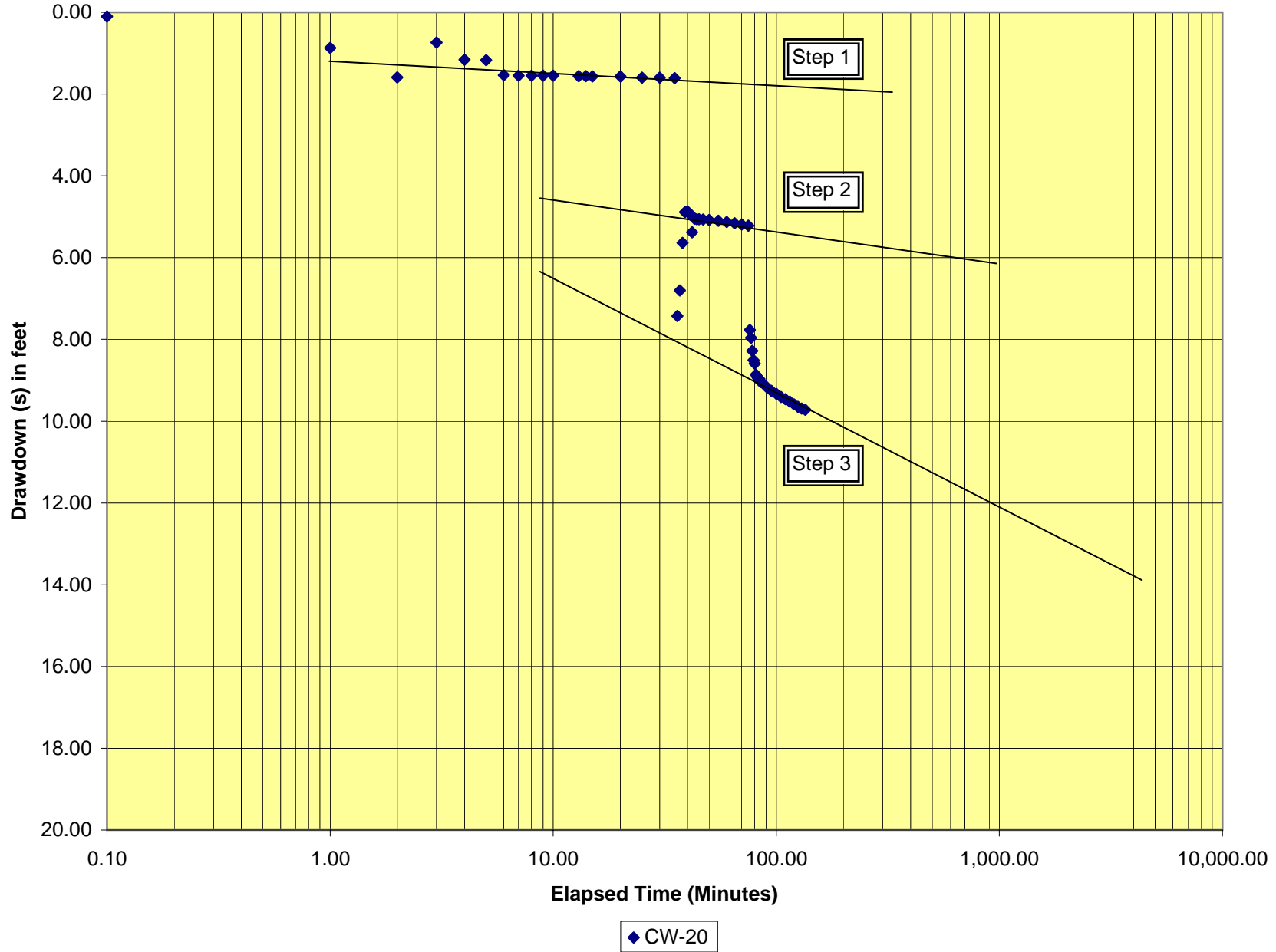
342 GROUNDWATER TABLE CONTOUR (IN FEET AMSL)



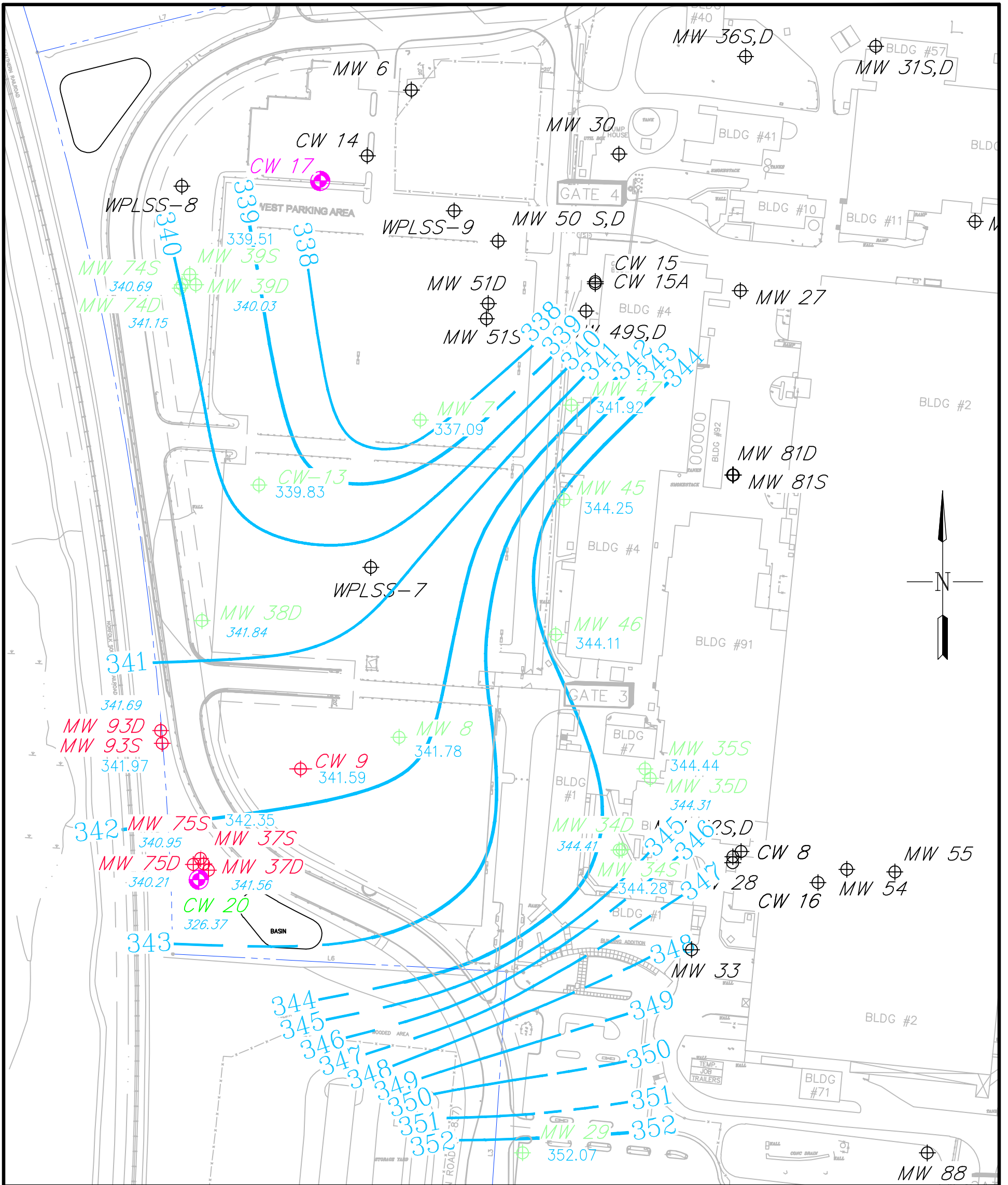
<b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER TABLE CONTOUR MAP</b> <b>PRE-PUMPING TEST CONDITIONS</b> <b>DECEMBER 18, 2006</b>			
drawn <b>RAM</b>	checked	approved	figure no. <b>6</b>
date <b>01/10/07</b>	date	date	
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<b>SAIC</b> From Science to Solutions		<b>CW-20 PUMPING TEST</b>	

**FIGURE 7**  
**CW-20 Step Test Data - December 15, 2006**

Harley-Davidson Motor Company Operations, Inc.







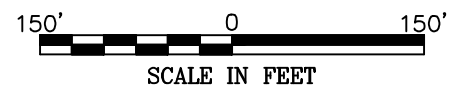
**LEGEND**

- GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION
- ACTIVE PUMPING WELL
- PRIMARY OBSERVATION WELL
- SECONDARY OBSERVATION WELL

341.88 GROUNDWATER TABLE ELEVATION (IN FEET AMSL) USED IN CONTOURING

342.43 GROUNDWATER ELEVATION - DEEP WELL (IN FEET AMSL), NOT USED IN CONTOURING

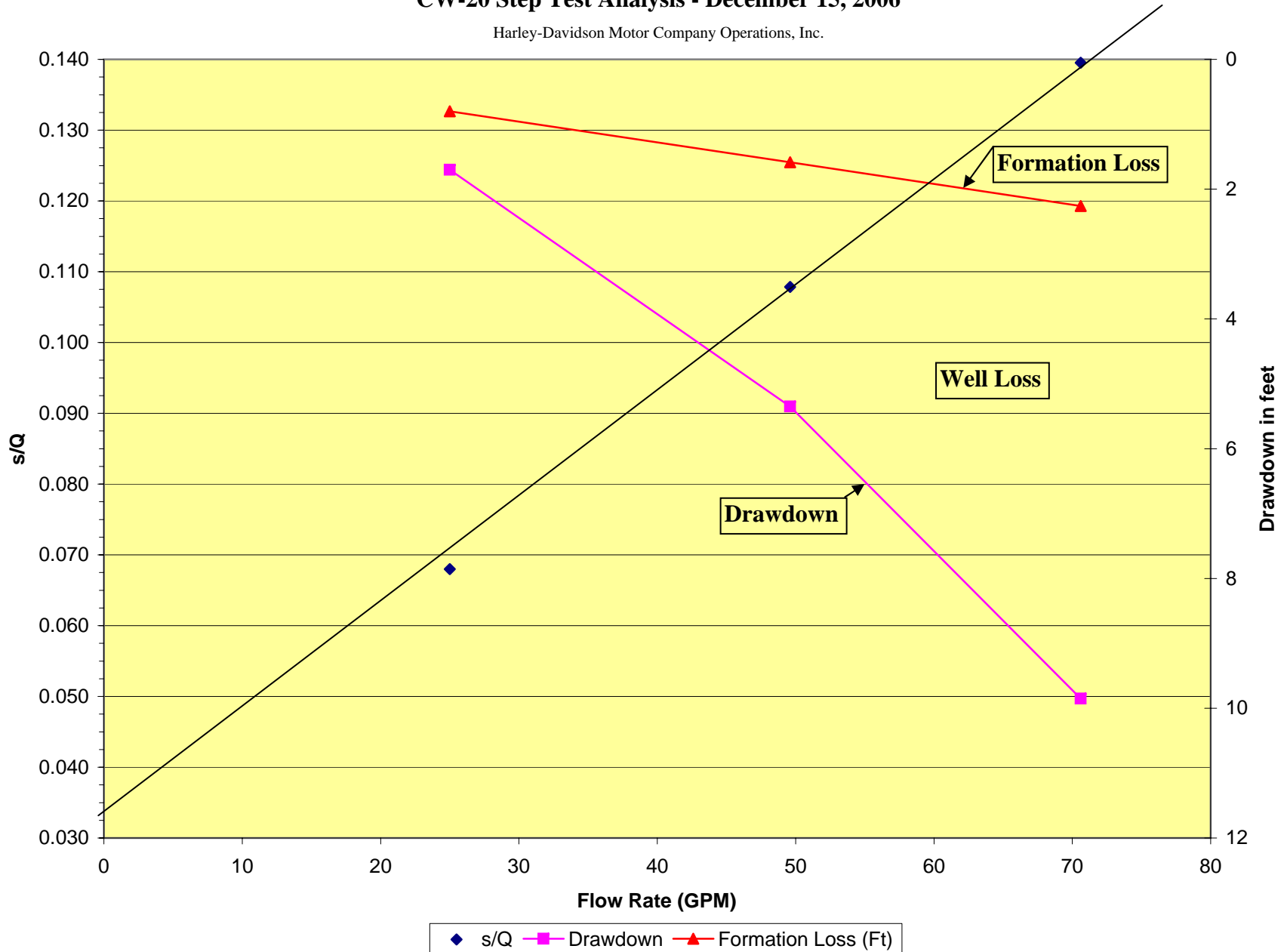
342 GROUNDWATER TABLE CONTOUR (IN FEET AMSL)

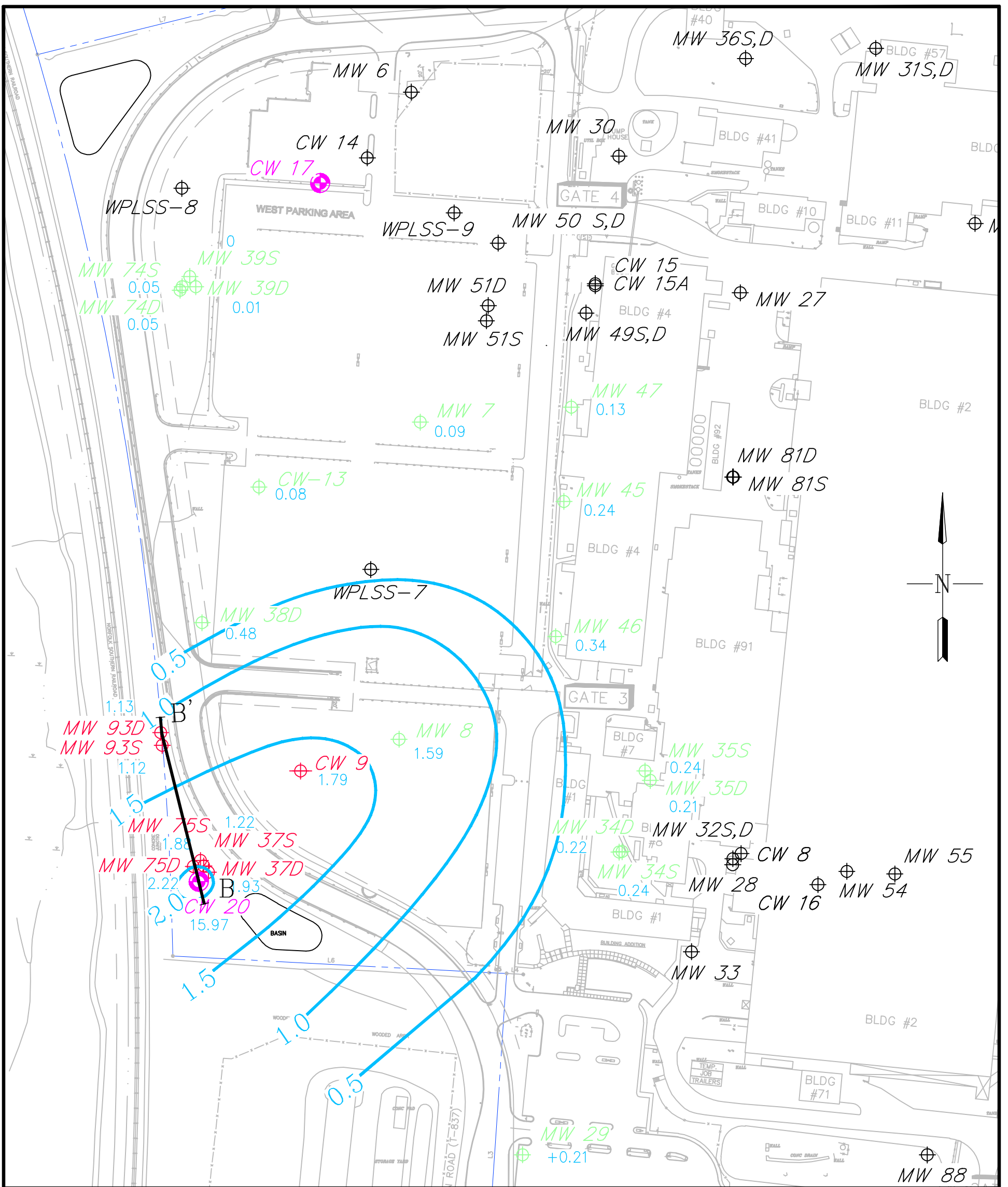


<b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER TABLE CONTOUR MAP AT CONCLUSION OF 72 HOUR PUMPING TEST DECEMBER 21, 2006</b>			
drawn <b>RAM</b>	checked	approved	figure no. <b>8</b>
date 01/10/07	date	date	
job no. 01-1633-00-9574-600	file no. 9574-002.dwg		
<b>SAIC</b> From Science to Solutions		<b>CW-20 PUMPING TEST</b>	








**FIGURE 9**  
**CW-20 Step Test Analysis - December 15, 2006**

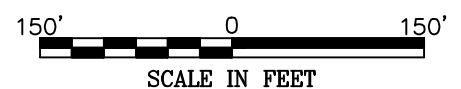
Harley-Davidson Motor Company Operations, Inc.







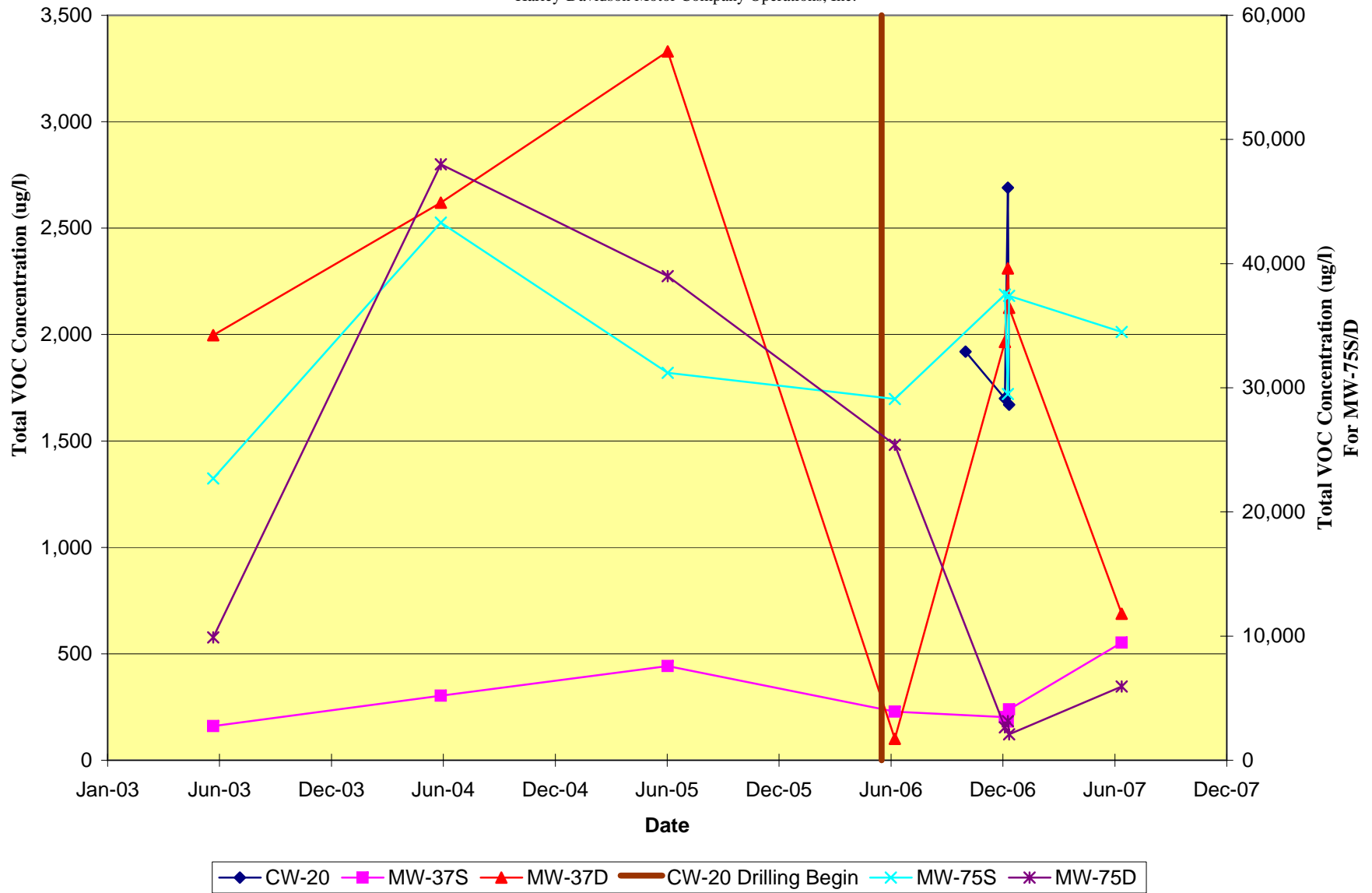
**LEGEND**

-  GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION
-  ACTIVE PUMPING WELL
-  PRIMARY OBSERVATION WELL
-  SECONDARY OBSERVATION WELL
-  1.88 GROUNDWATER DRAWDOWN (IN FEET)
-  5 GROUNDWATER DRAWDOWN CONTOUR (IN FEET)
-  B B' CROSS SECTION LINE

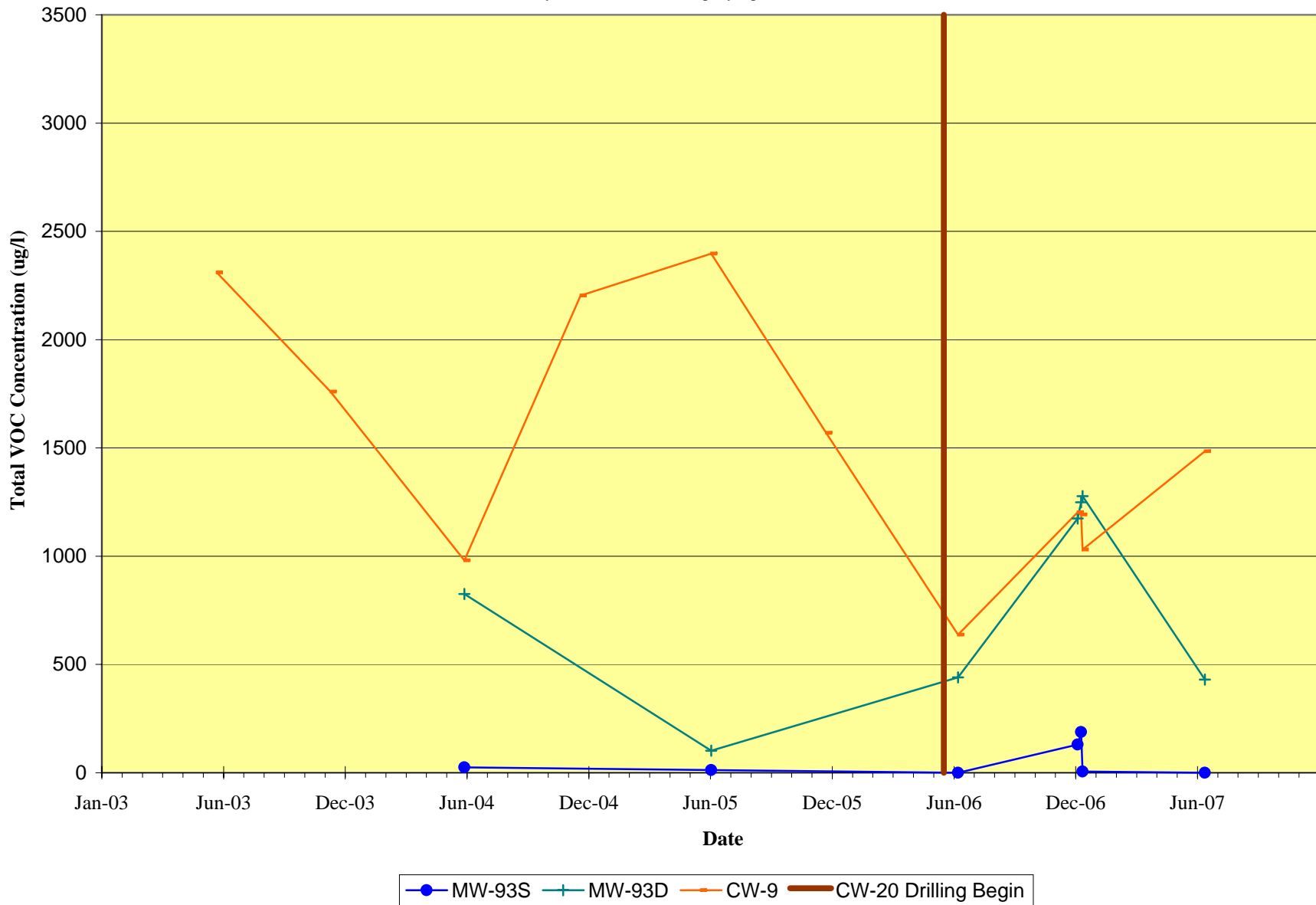


 <b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER DRAWDOWN CONTOURS AT CONCLUSION OF 72 HOUR PUMPING TEST DECEMBER 21, 2006</b>			
drawn <b>RAM</b>	checked	approved	figure no. <b>10</b>
date <b>01/10/07</b>	date	date	
job no. <b>01-1633-00-9574-600</b>	file no. <b>9574-002.dwg</b>		
		<b>CW-20 PUMPING TEST</b>	

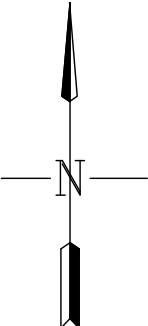
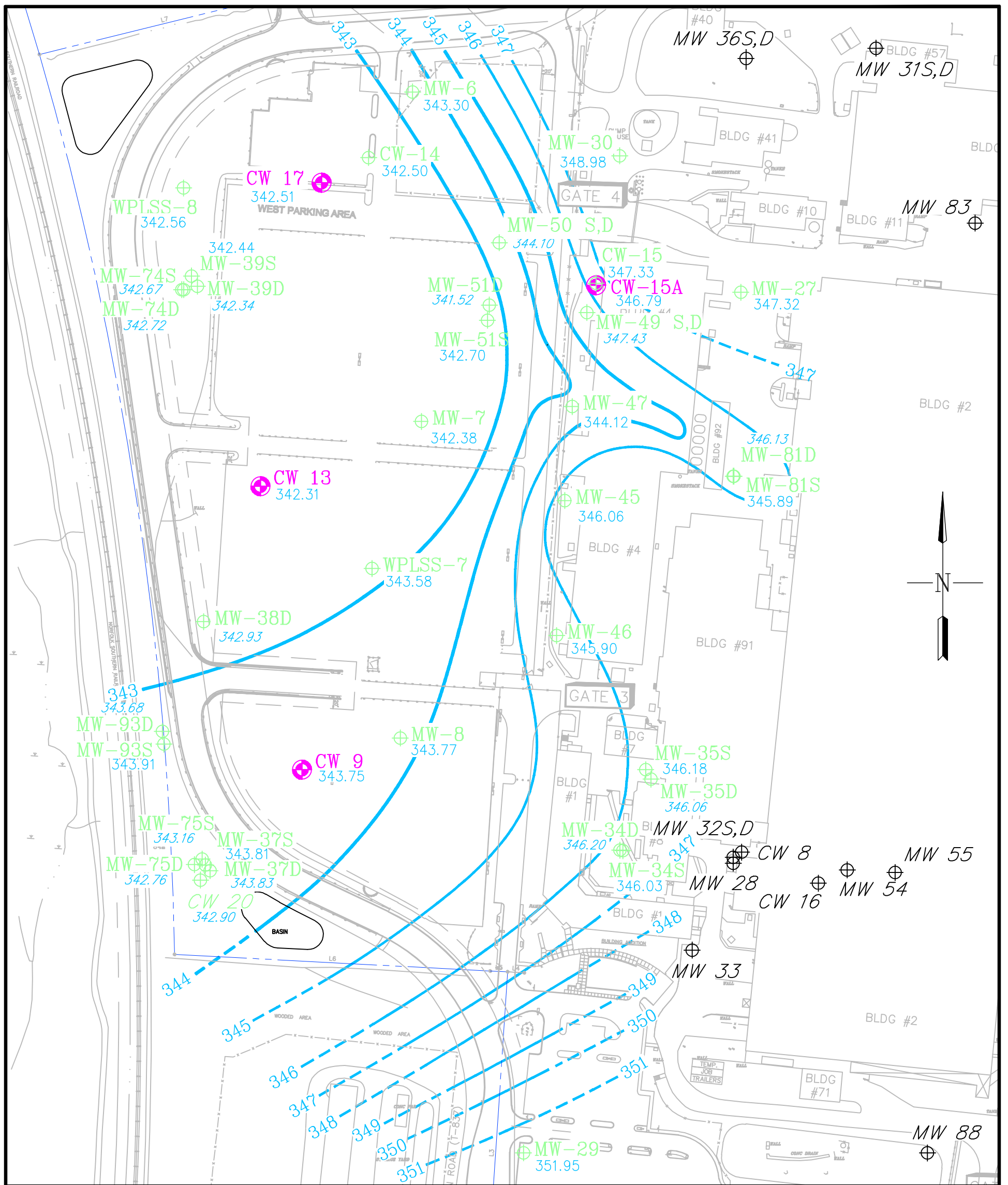
**FIGURE 11**  
**Historical Groundwater Chemistry**  
**Wells Adjacent to CW-20**  
 Harley-Davidson Motor Company Operations, Inc.









**FIGURE 12**  
**Historical Groundwater Chemistry**  
**Near Southwest Corner of West Parking Lot**  
 Harley-Davidson Motor Company Operations, Inc.

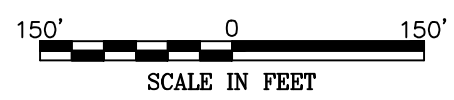






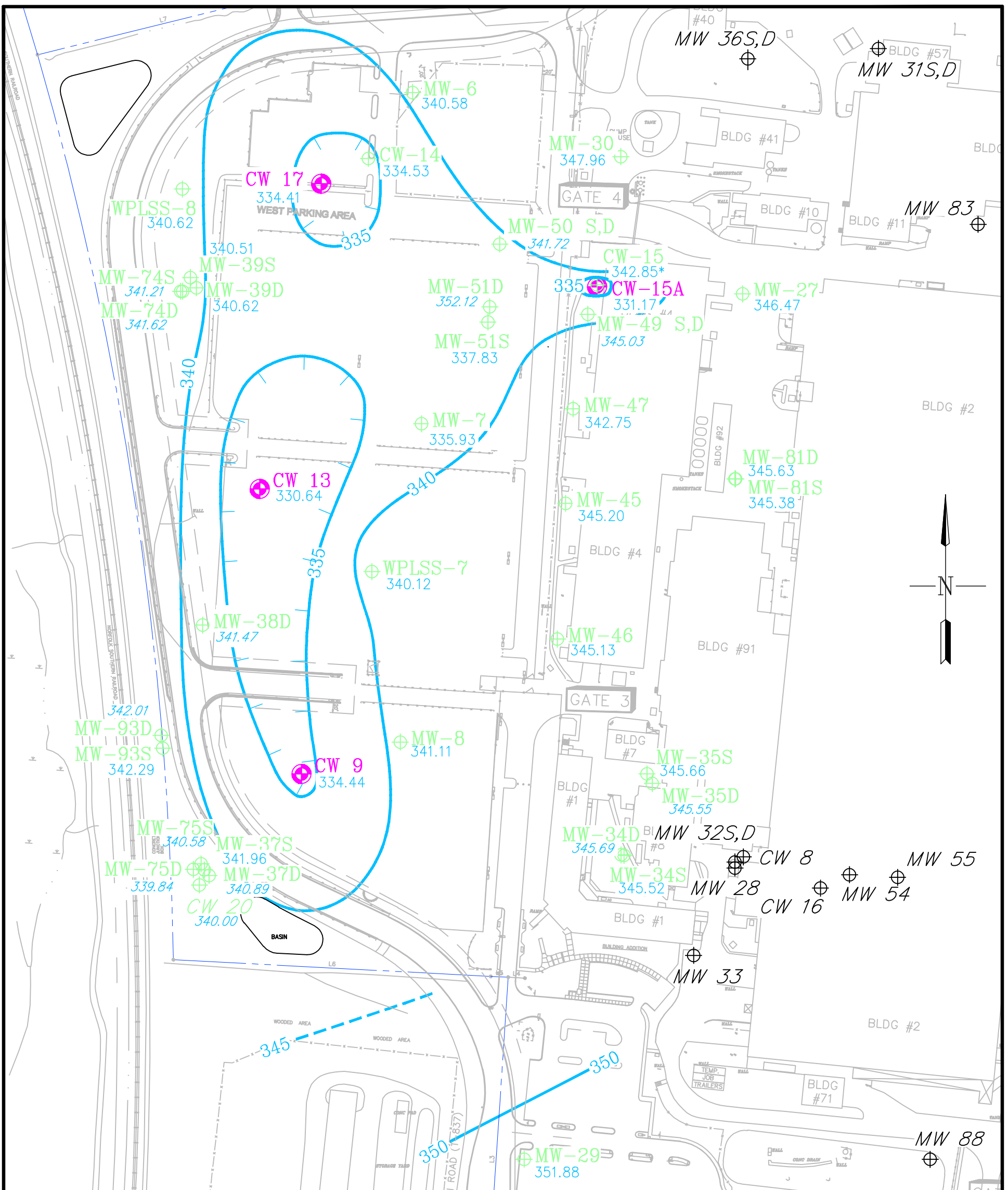


**LEGEND**

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-  WELL TO BE PUMPED
-  GROUNDWATER OBSERVATION WELL
-  343.20 GROUNDWATER TABLE ELEVATION (IN FEET AMSL) USED IN CONTOURING
-  342.50 GROUNDWATER ELEVATION - DEEP WELL (IN FEET AMSL), NOT USED IN CONTOURING
-  342 GROUNDWATER TABLE CONTOUR (IN FEET AMSL)

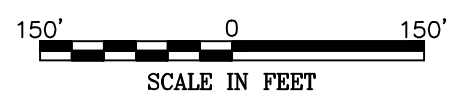


 <b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER TABLE CONTOUR MAP          PRE-PUMPING CONDITIONS          MAY 7, 2007</b>			
drawn <b>RAM</b>	checked	approved	figure no. <b>13</b>
date <b>06/28/07</b>	date	date	
job no. <b>01-1633-00-9574-600</b>	file no. <b>9574-003.dwg</b>		
 <b>SAIC</b> From Science to Solutions		<b>WPL COLLECTION SYSTEM          PUMPING TEST</b>	

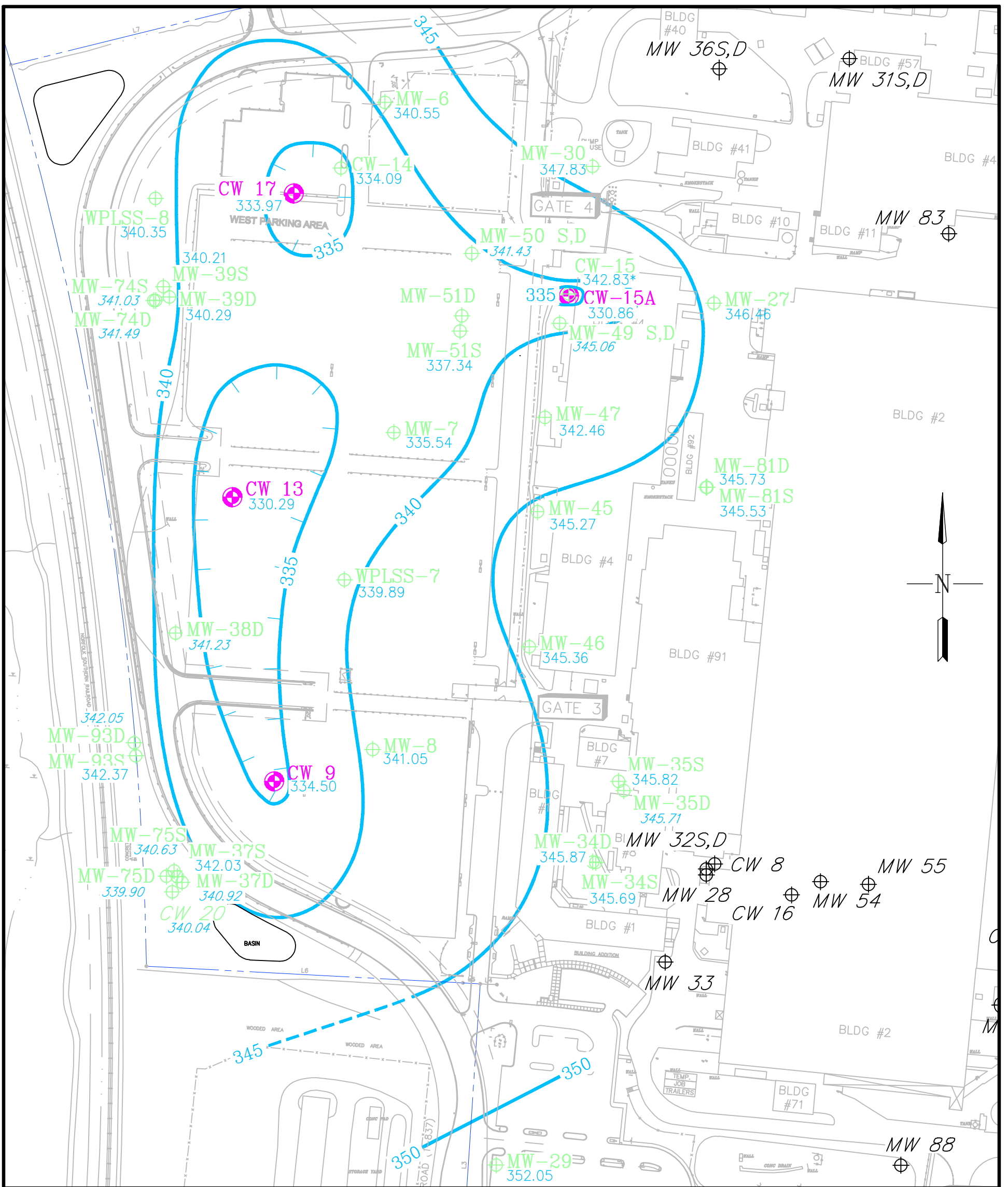


**LEGEND**

- GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION
- ACTIVE PUMPING WELL
- GROUNDWATER OBSERVATION WELL
- 342.72 GROUNDWATER TABLE ELEVATION (IN FEET AMSL) USED IN CONTOURING
- 341.88 GROUNDWATER ELEVATION - DEEP WELL (IN FEET AMSL), NOT USED IN CONTOURING
- GROUNDWATER TABLE CONTOUR (IN FEET AMSL)
- \* CW-15 IS OPEN TO BOTH SHALLOW AND DEEP GROUNDWATER

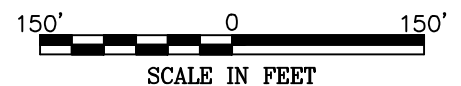


<b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER TABLE CONTOUR MAP AT APPROXIMATELY 72 HOURS MAY 10, 2007</b>			
drawn <b>RAM</b>	checked	approved	figure no. <b>14</b>
date <b>06/28/07</b>	date	date	
job no. <b>01-1633-00-9574-600</b>	file no. <b>9574-003.dwg</b>		
<b>SAIC</b> From Science to Solutions		<b>WPL COLLECTION SYSTEM PUMPING TEST</b>	



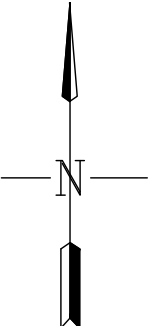
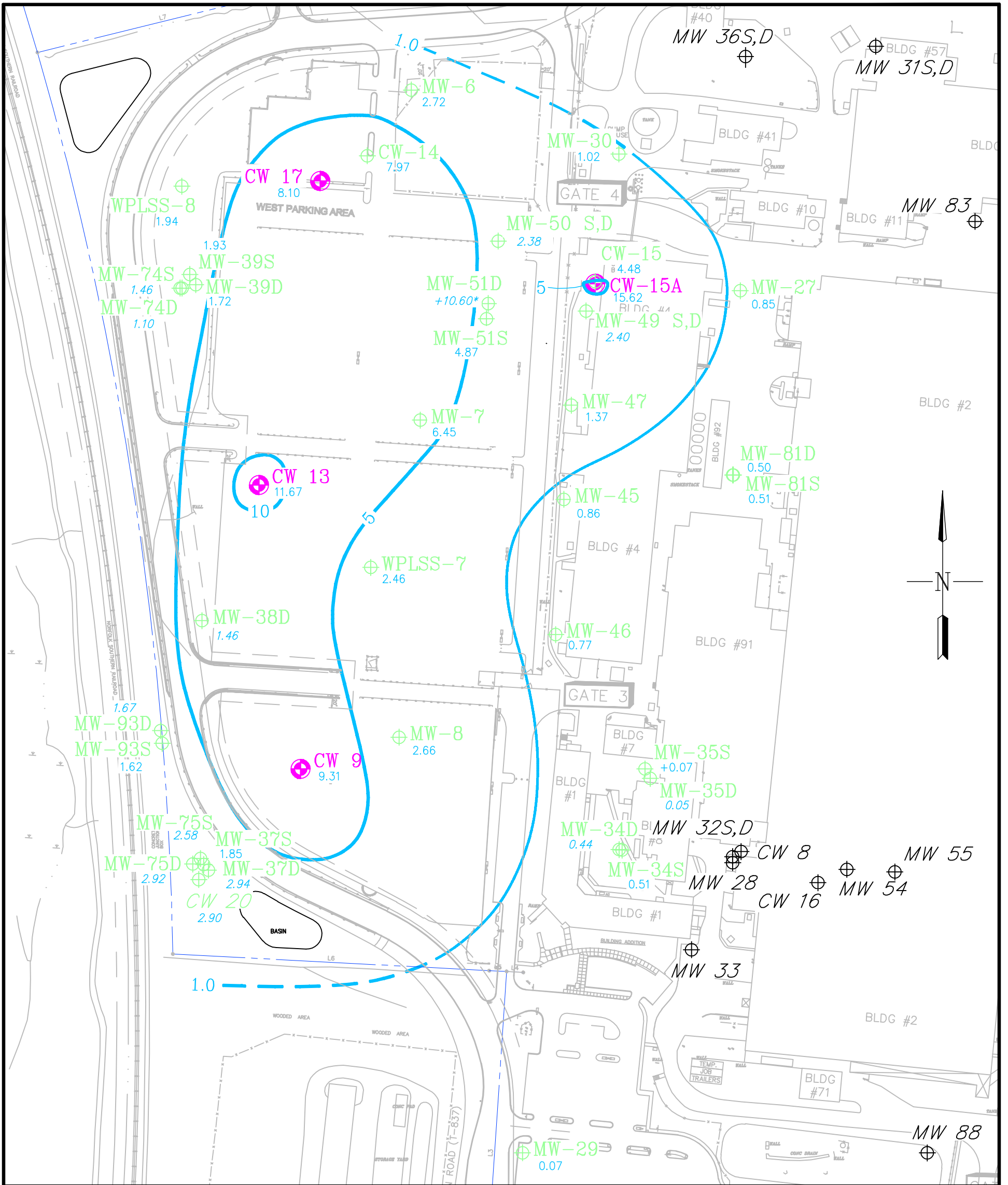
**LEGEND**

- ⊕ GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION
- ⊕ ACTIVE PUMPING WELL
- ⊕ GROUNDWATER OBSERVATION WELL
- 342.72 GROUNDWATER TABLE ELEVATION (IN FEET AMSL) USED IN CONTOURING
- 341.88 GROUNDWATER ELEVATION - DEEP WELL (IN FEET AMSL), NOT USED IN CONTOURING
- 345 GROUNDWATER TABLE CONTOUR (IN FEET AMSL)
- \* CW-15 IS OPEN TO BOTH SHALLOW AND DEEP GROUNDWATER



<b>HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.</b> YORK VEHICLE OPERATIONS 1425 EDEN ROAD, YORK, PA 17402			
<b>GROUNDWATER TABLE CONTOUR MAP          AT CONCLUSION OF 92 HOUR          PUMPING TEST - MAY 11, 2007</b>			
drawn <b>RAM</b>	checked	approved	figure no.
date <b>06/28/07</b>	date	date	15
job no. <b>01-1633-00-9574-600</b>	file no. <b>9574-003.dwg</b>		
<b>SAIC</b> From Science to Solutions		<b>WPL COLLECTION SYSTEM          PUMPING TEST</b>	





**LEGEND**

⊕ GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION

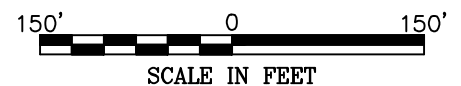
⊕ ACTIVE PUMPING WELL

⊕ GROUNDWATER OBSERVATION WELL

8.10 GROUNDWATER DRAWDOWN (IN FEET)

5 GROUNDWATER DRAWDOWN CONTOUR (IN FEET AMSL)

\* THE MW-51D DRAWDOWN VALUE REPRESENTS AN UNEXPLAINED ANOMALY (NOT USED IN CONTOURING)



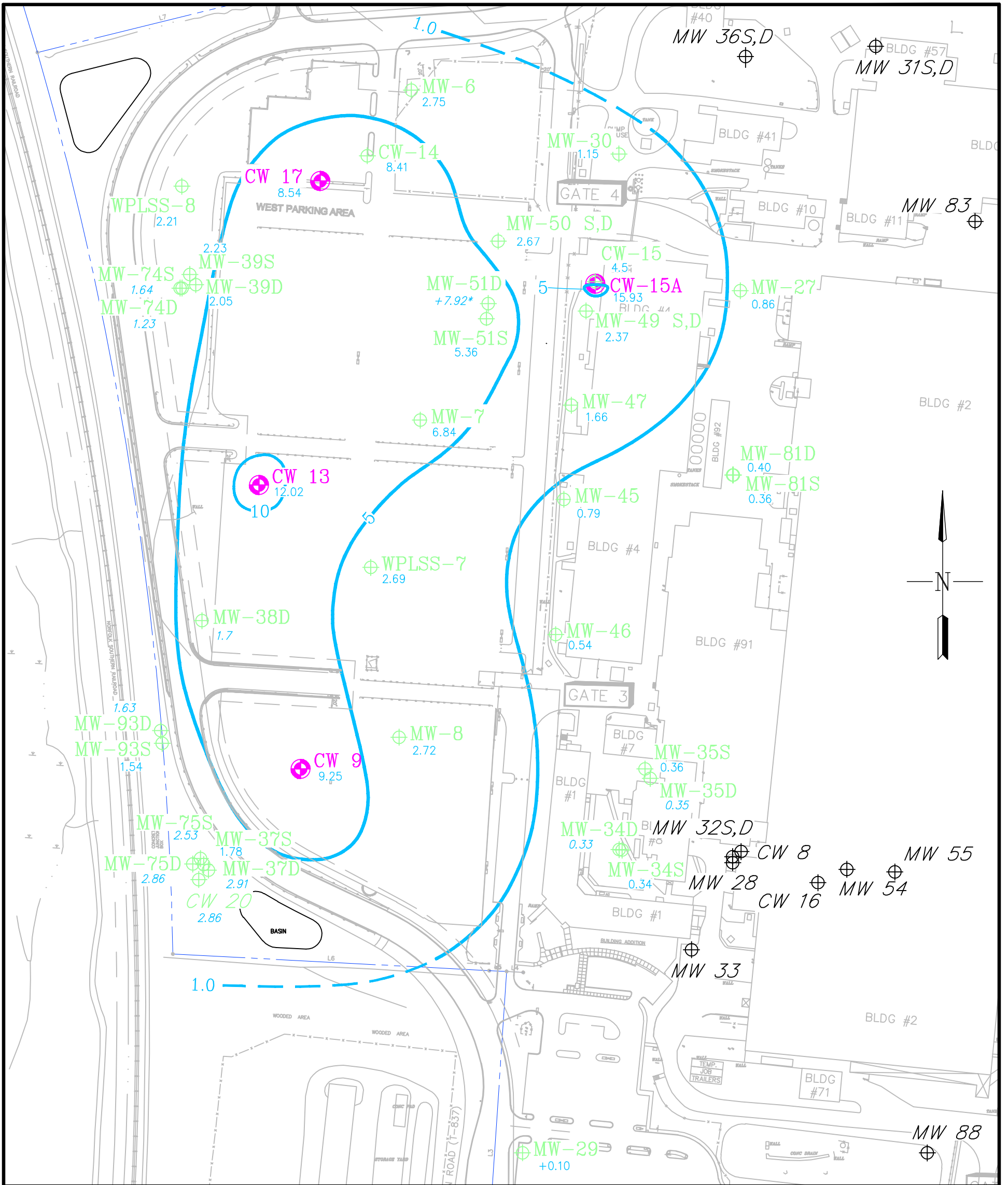
**HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.**  
 YORK VEHICLE OPERATIONS  
 1425 EDEN ROAD, YORK, PA 17402

**GROUNDWATER DRAWDOWN CONTOURS AT APPROXIMATELY 72 HOURS INTO WPL PUMPING TEST MAY 10, 2007**

drawn <b>RAM</b>	checked	approved	figure no.
date 06/27/07	date	date	16
job no. 01-1633-00-9574-600	file no. 9574-003.dwg		



**WPL COLLECTION SYSTEM PUMPING TEST**



**LEGEND**

⊕ GROUNDWATER MONITORING WELL NOT USED FOR PUMPING TEST OBSERVATION

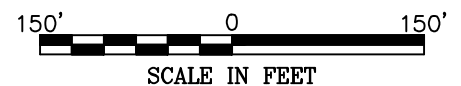
⊕ ACTIVE PUMPING WELL

⊕ GROUNDWATER OBSERVATION WELL

8.54 GROUNDWATER DRAWDOWN (IN FEET)

5 GROUNDWATER DRAWDOWN CONTOUR (IN FEET AMSL)

\* THE MW-51D DRAWDOWN VALUE REPRESENTS AN UNEXPLAINED ANOMALY (NOT USED IN CONTOURING)



**HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.**  
 YORK VEHICLE OPERATIONS  
 1425 EDEN ROAD, YORK, PA 17402

**GROUNDWATER DRAWDOWN AT CONCLUSION OF 92 HOUR PUMPING TEST - MAY 11, 2007**

drawn RAM	checked	approved	figure no. <b>17</b>
date 06/27/07	date	date	
job no. 01-1633-00-9574-600	file no. 9574-003.dwg		



**WPL COLLECTION SYSTEM PUMPING TEST**

# **TABLES**

**TABLE 1**  
**Summary of DNAPL Screening**

Harley-Davidson Motor Company Operations, Inc.

Depth	Date	Recovery	UV Light Test	Sudan IV Test	PID Reading (ppm)	Description	Lab Sample Collected (Y/N)
140.5 - 145.5'	6/13/2006	NR	Negative	Negative	0	Sand and gravel.	No
148 - 153'	6/13/2006	1'	Negative	NR	2.5	Gravel, some subangular coarse sand, little fine sand.	No
167 - 172'	6/22/2006	1.5'	Negative	Negative	5.9	Subrounded to rounded gravel and fine to course sand.	No
172.5 - 177.5'	6/23/2006	2.4'	Negative	NR	2.3	Subangular coarse quartz sand in middle, rest is fine sand.	Yes
178 - 182'	6/23/2006	0.25'	NR	NR	NR	Fine sand with trace course sand.	No
184 - 189'	6/26/2006	1.75'	Negative	Negative	7.9	Gravel, some course sand, fine sand and silt.	No
189 - 190.5'	6/26/2006	0.4'	NR	NR	NR	Course sand, fine sand and some fines.	No
213 - 214'	6/30/2006	0.1"	NR	NR	NR	Rock fragments	No
214.5'	7/27/2006	NA	NA	NA	NA	Discrete water sample - no visible DNAPL	No

DNAPL - Dense non-aqueous phase liquid

NR - Not recorded

NA - Not applicable

ppm - Part per million

**TABLE 2**  
**Summary of Investigation Derived Waste (IDW) Disposition**

Harley-Davidson Motor Company Operations, Inc.

IDW Container Type	Container ID	Container Contents	Weight/Volume of Contents Disposed	Envirite Waste Stream Approval No.	Point of Disposition
20 yard roll off	5006Y	Soil cuttings	17.91 tons	10176	Modern Landfill, through Envirite
20 yard roll off	5022Y	Soil cuttings	10.64 tons	10176	Modern Landfill, through Envirite
20 yard roll off	5024Y	Soil cuttings	16.08 tons	10176	Modern Landfill, through Envirite
20 yard roll off	5027Y	Soil cuttings	14.22 tons	10176	Modern Landfill, through Envirite
20 yard roll off	6064YO	Soil cuttings	11.12 tons	10176	Modern Landfill, through Envirite
20 yard roll off	6098Y03	Soil cuttings	18.15 tons	10176	Modern Landfill, through Envirite
20 yard roll off	6063YO	Soil cuttings	10.89 tons	10176	Modern Landfill, through Envirite
21,000 gallon frac tank	A415	Sediment/water	6,228 gallons*	10176	Modern Landfill, through Envirite
21,000 gallon frac tank	A275	Sediment/water	6,228 gallons*	10176	Modern Landfill, through Envirite

\* - The 6,228 gallon volume is for both frac tanks



**TABLE 3**  
**Analytical Results for Investigation Derived Waste**  
 Harley-Davidson Motor Company Operations, Inc.

Sample ID	Roll Off Composite
Lab Sample Number	C6G250192002-RE
Sampling Date	7/24/2006
Matrix	SOLID
Dilution Factor	1.46
Units	ug/kg
<b>VOLATILE COMPOUNDS (GC/MS)</b>	
Acrolein	11000 U
Acrylonitrile	11000 U
Benzene	570 U
Bromodichloromethane	570 U
Bromoform	570 U
Bromomethane	570 U
2-Butanone	570 U
CarbonTetrachloride	570 U
Chlorobenzene	570 U
Dibromochloromethane	570 U
Chloroethane	570 U
2-ChloroethylVinylEther	1100 U
Chloroform	570 U
Chloromethane	570 U
cis-1,2-Dichloroethene	570 U
trans-1,2-Dichloroethene	570 U
1,1-Dichloroethane	570 U
1,2-Dichloroethane	570 U
1,1-Dichloroethene	570 U
1,2-Dichloropropane	570 U
cis-1,3-Dichloropropene	570 U
trans-1,3-Dichloropropene	570 U
1,4-Dioxane	110000 U
Ethylbenzene	570 U
MethyleneChloride	570 U
1,1,2,2-Tetrachloroethane	570 U
Tetrachloroethene	3300
Toluene	570 U
1,1,1-Trichloroethane	570 U
1,1,2-Trichloroethane	570 U
Trichloroethene	290 J
VinylChloride	570 U
Total Confident Conc. VOAs (s)	3300

n-Hexane Extractable Material (mg/kg)	262 U
---------------------------------------	-------

<b>PCBs - units</b>	
Aroclor 1016 - ug/kg	100 U
Aroclor 1221 - ug/kg	100 U
Aroclor 1232 - ug/kg	33 J
Aroclor 1242 - ug/kg	100 U
Aroclor 1248 - ug/kg	100 U
Aroclor 1254 - ug/kg	100 U
Aroclor 1260 - ug/kg	13 J

**TABLE 3**  
**Analytical Results for Investigation Derived Waste**  
 Harley-Davidson Motor Company Operations, Inc.

Sample ID	Roll Off Composite
Lab Sample Number	C6G250192002-RE
Sampling Date	7/24/2006
Matrix	SOLID
Dilution Factor	1.46
Units	ug/kg
<b>METALS/WET CHEM - units</b>	
Antimony - mg/kg	1.6 U
Arsenic - mg/kg	10.2
Beryllium - mg/kg	1.0
Cadmium - mg/kg	1.3
Chromium - mg/kg	10.4 J
Copper - mg/kg	18.8
Lead - mg/kg	14.8 J
Mercury - mg/kg	0.061
Nickel - mg/kg	21.4
Selenium - mg/kg	1.6 U
Silver - mg/kg	0.70 B
Thallium - mg/kg	1.6 U
Zinc - mg/kg	70.5 J

Sample ID	Roll Off Composite
Lab Sample Number	C6H020263002
Sampling Date	7/24/2006
Matrix	SOLID
Dilution Factor	1
Units	mg/L
<b>TCLP VOLATILE COMPOUNDS</b>	
Benzene	0.050 U
2-Butanone	0.050 U
CarbonTetrachloride	0.050 U
Chlorobenzene	0.050 U
Chloroform	0.050 U
1,2-Dichloroethane	0.050 U
1,1-Dichloroethene	0.050 U
Tetrachloroethene	0.091
Trichloroethene	0.050 U
VinylChloride	0.050 U

**NOTES:**

ug/kg - Micrograms per kilogram  
 mg/kg - Milligrams per kilogram

**Metals Qualifiers**

B - Estimated result. Result is less than the RL.  
 J - Method blank contamination.

**VOC and PCB Qualifiers**

U - The compound was not detected at the indicated concentration.  
 J - Estimated result. Result is less than the RL.  
 B - Method blank contamination.

**TABLE 4**  
**Analytical Results for Initial Sampling of CW-20**

Harley-Davidson Motor Company Operations, Inc.

Sample ID	CW-20	Trip_Blank
Lab Sample Number	C6J130106001	C6J130106002
Sampling Date	10/12/2006	10/12/2006
Matrix	WATER	WATER
Dilution Factor	20	1
Units	µg/L	µg/L
<b>VOLATILE COMPOUNDS (GC/MS)</b>		
Acrolein	2000 U	100 U
Acrylonitrile	2000 U	100 U
Benzene	100 U	5.0 U
Bromodichloromethane	100 U	5.0 U
Bromoform	100 U	5.0 U
Bromomethane	100 U	5.0 U
2-Butanone	100 U	5.0 U
CarbonTetrachloride	100 U	5.0 U
Chlorobenzene	100 U	5.0 U
Dibromochloromethane	100 U	5.0 U
Chloroethane	100 U	5.0 U
2-ChloroethylVinylEther	200 U	10 U
Chloroform	100 U	5.0 U
Chloromethane	100 U	5.0 U
cis-1,2-Dichloroethene	70 J	5.0 U
trans-1,2-Dichloroethene	100 U	5.0 U
1,1-Dichloroethane	100 U	5.0 U
1,2-Dichloroethane	100 U	5.0 U
1,1-Dichloroethene	100 U	5.0 U
1,2-Dichloropropane	100 U	5.0 U
cis-1,3-Dichloropropene	100 U	5.0 U
trans-1,3-Dichloropropene	100 U	5.0 U
1,4-Dioxane	20000 U	1000 U
Ethylbenzene	100 U	5.0 U
MethyleneChloride	100 U	5.0 U
1,1,2,2-Tetrachloroethane	100 U	5.0 U
Tetrachloroethene	1300	5.0 U
Toluene	100 U	5.0 U
1,1,1-Trichloroethane	100 U	5.0 U
1,1,2-Trichloroethane	100 U	5.0 U
Trichloroethene	620	5.0 U
VinylChloride	100 U	5.0 U
Total Confident Conc. VOAs (s)	1920	0

**TABLE 4**  
**Analytical Results for Initial Sampling of CW-20**

Harley-Davidson Motor Company Operations, Inc.

Sample ID	CW-20	Trip_Blank
Lab Sample Number	C6J130106001	C6J130106002
Sampling Date	10/12/2006	10/12/2006
Matrix	WATER	WATER
TOTAL METALS/WET CHEM - units		
Chromium - µg/l	10.4	NR
Lead - µg/l	3.0 U	NR
Nickel - µg/l	1.7 B	NR
Zinc - µg/l	10.4 BJ	NR
ChromiumVI - mg/l	0.010 U	NR
DISSOLVED METALS/WET CHEM - units		
Chromium - µg/l	5.9	NR
Lead - µg/l	3.0 U	NR
Nickel - µg/l	1.9 B	NR
Zinc - µg/l	14.4 BJ	NR
ChromiumVI - mg/l	0.010 U	NR
Available Cyanide - mg/l	0.002 U	NR
Total Cyanide - µg/l	95.3	NR

**NOTES:**

All metals results are dissolved (field filtered) unless noted.

NA - Not applicable.

NR - (Analysis) Not Requested.

µg/l - Micrograms per liter

mg/l - Milligrams per liter

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria.

The result is less than the quantitation limit but greater than zero.

The concentration given is an approximate value.

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

GC/MS - Gas chromatograph/mass spectrometer

**Table 5**  
**Summary of Precipitation Data - December 2006**

Harley-Davidson Motor Company Operations, Inc.

Date	Precipitation (inches)
12/1/2006	0.05
12/2/2006	0.00
12/3/2006	0.00
12/4/2006	0.00
12/5/2006	0.00
12/6/2006	0.00
12/7/2006	0.00
12/8/2006	0.00
12/9/2006	0.00
12/10/2006	0.00
12/11/2006	0.00
12/12/2006	0.00
12/13/2006	0.11
12/14/2006	0.01
12/15/2006	0.00
12/16/2006	0.00
12/17/2006	0.00
12/18/2006	0.01
12/19/2006	0.00
12/20/2006	0.00
12/21/2006	0.04
12/22/2006	1.19
12/23/2006	0.12
12/24/2006	0.00
12/25/2006	0.47
12/26/2006	0.08
12/27/2006	0.00
12/28/2006	0.00
12/29/2006	0.00
12/30/2006	0.00
12/31/2006	0.08
Total	2.16

**TABLE 6**  
**Groundwater Elevation Data**  
**CW-20 Pre-Pumping Conditions**

Harley-Davidson Motor Company Operations, Inc.

Well	Reference Elevation (ft AMSL)	12/18/2006	
		Depth (feet)	Water Level (ft AMSL)
CW-9	357.73	14.35	343.38
CW-13	358.72	18.81	339.91
CW-20	361.49	19.15	342.34
MW-7	360.39	23.21	337.18
MW-8	358.99	15.62	343.37
MW-29	365.63	13.77	351.86
MW-34S	362.02	17.50	344.52
MW-34D	362.12	17.49	344.63
MW-35S	361.58	16.90	344.68
MW-35D	361.59	17.07	344.52
MW-37S	360.10	16.53	343.57
MW-37D	360.08	16.59	343.49
MW-38D	359.57	17.25	342.32
MW-39S	361.06	21.55	339.51
MW-39D	361.14	21.10	340.04
MW-45	361.13	16.64	344.49
MW-46	360.25	15.80	344.45
MW-47	361.74	19.69	342.05
MW-74S	360.77	20.03	340.74
MW-74D	360.71	19.51	341.20
MW-75S	359.98	17.15	342.83
MW-75D	360.81	18.38	342.43
MW-93S	361.72	18.63	343.09
MW-93D	361.10	18.28	342.82

**NOTES:**

-- : No data

N.M. : Not measured

**TABLE 7**  
**Summary of CW-20 Step Test Results**

Harley-Davidson Motor Company Operations, Inc.

Pumping Rate (gpm)	1-hour Drawdown Feet	Specific Capacity GPM/Ft	s/Q	Calculated Formation Loss (Ft)	Calculated Well loss Feet	Well Efficiency
25	1.7	14.706	0.068	0.80	0.9	47.1
49.6	5.35	9.271	0.108	1.6	3.8	29.7
70.6	9.85	7.168	0.140	2.3	7.6	22.9

From Figure 10:

slope                      0.00156  
y intercept                0.032

**TABLE 8**  
**Summary of Aquifer Characteristics CW-20 Constant-Rate Test**

Harley-Davidson Motor Company Operations, Inc.

Observation Well I.D.	Solution	Transmissivity (gallons/day/foot)	Specific Yield
CW-20	Cooper-Jacob (manual)	4,660	N.A.
CW-20	Cooper-Jacob (AQ)	5,471	N.A.
CW-20	Theis	5,466	N.A.
<b>CW-20 AVERAGE</b>	--	5,199	N.A.
CW-9	Cooper-Jacob (manual)	19,080	0.0047
CW-9	Cooper-Jacob (AQ)	22,010	0.0027
CW-9	Theis	19,020	0.0043
<b>CW-9 AVERAGE</b>	--	20,037	0.0039
MW-37D	Cooper-Jacob (manual)	17,600	0.704
MW-37D	Cooper-Jacob (AQ)	20,650	0.164
MW-37D	Theis	18,690	0.234
<b>MW-37D AVERAGE</b>	--	18,980	0.367
MW-75D	Cooper-Jacob (manual)	19,320	0.13
MW-75D	Cooper-Jacob (AQ)	20,340	0.06
MW-75D	Theis	19,350	0.08
<b>MW-75D AVERAGE</b>	--	19,670	0.09
MW-93D	Cooper-Jacob (manual)	20,570	0.018
MW-93D	Cooper-Jacob (AQ)	28,510	0.007
MW-93D	Theis	20,020	0.015
<b>MW-93D AVERAGE</b>	--	23,033	0.013

AQ - Aqtesolv Commercial software

N.A. - Not applicable



**TABLE 9**  
**Summary of Maximum Groundwater Drawdown Values**  
**Measured During Pumping Tests**

Harley-Davidson Motor Company Operations, Inc.

Observation Wells	CW-20 Test - Approx. 72 hr Drawdown	WPL Test - Approx. 72 hr Drawdown	WPL Test - Approx. 92 hr Drawdown	Open Interval Feet bgs	Monitor Shallow Water (Y/N)
CW-9	1.79	9.31	9.25	47 - 70	Y
CW-13	0.08	11.67	12.02	60 - 70	Y
CW-14	--	7.97	8.41	36 - 80	Y
CW-15	--	4.48	4.50	55 - 270	Y
CW-15A	--	15.62	15.93	18 - 68	Y
CW-17	--	8.10	8.54	32 - 65	Y
CW-20	15.97	2.9	2.86	205 - 215	N
MW-6	--	2.72	2.75	8 - 40	Y
MW-7	0.09	6.45	6.84	15 - 35	Y
MW-8	1.59	2.66	2.72	12 - 36	Y
MW-27	--	0.85	0.86	8 - 70	Y
MW-29	-0.21	0.07	-0.10	10 - 60	Y
MW-30	--	1.02	1.15	23 - 41	Y
MW-34S	0.24	0.51	0.34	24 - 37	Y
MW-34D	0.22	0.44	0.26	91 - 125	N
MW-35S	0.24	-0.07	-0.23	7 - 19	Y
MW-35D	0.21	0.05	-0.11	106 - 124	N
MW-37S	1.22	1.85	1.78	11 - 33	Y
MW-37D	1.93	2.94	2.91	125 - 141	N
MW-38D	0.48	1.46	1.7	80 - 103	N
MW-39S	0	1.93	2.23	3 - 30	Y
MW-39D	0.01	1.72	2.05	53 - 100	Y
MW-45	0.24	0.86	0.79	6 - 38	Y
MW-46	0.34	0.77	0.54	6 - 39	Y
MW-47	0.13	1.37	1.66	12 - 35	Y
MW-49S	--	2.40	2.37	135 - 155	N
MW-49D	--	1.89	1.95	158 - 178	N
MW-50S	--	2.38	2.67	104 - 120	N
MW-50D	--	2.81	2.88	157 - 170	N
MW-51S	--	4.87	5.36	29 - 51	Y
MW-51D	--	-10.6	-7.92	88 - 120	N
MW-74S	0.05	1.46	1.64	183 - 193	N
MW-74D	0.05	1.10	1.23	225 - 250	N
MW-75S	1.88	2.58	2.53	168 - 173	N
MW-75D	2.22	2.92	2.86	205 - 215	N
MW-81S	--	0.51	0.36	31 - 41	Y
MW-81D	--	0.50	0.40	56 - 66	Y
MW-93S	1.12	1.62	1.54	26 - 41	Y
MW-93D	1.13	1.67	1.63	135 - 145	N
WPLSS-7	--	2.46	2.69	17 - 27	Y
WPLSS-8	--	1.94	2.21	14 - 24	Y

-- : Indicates well was not measured

Note - A well is considered to monitor shallow groundwater if there is at least 10' of screen below 80 feet bgs.

**TABLE 10  
GROUNDWATER QUALITY ANALYSES SUMMARY  
DECEMBER 2006 CW-20 PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	CW-9 C6L150114001 12/14/2006 WATER 5 ug/L	CW-9 C6L200148001 12/19/2006 WATER 10 ug/L	CW-9 C6L220112001 12/21/2006 WATER 10 ug/L	CW-20 C6L150114002 12/14/2006 WATER 20 ug/L	CW-20 C6L200148002 12/19/2006 WATER 20 ug/L	CW-20 C6L220112002 12/21/2006 WATER 20 ug/L	MW-37S C6L150114003 12/14/2006 WATER 1 ug/L	MW-37S C6L200148003 12/19/2006 WATER 2 ug/L	MW-37S C6L220112003 12/21/2006 WATER 2.5 ug/L
<b>VOLATILE COMPOUNDS (GC/MS)</b>									
Acrolein	500 U	1000 U	1000 U	2000 U	2000 U	2000 U	100 U	200 U	250 U
Acrylonitrile	500 U	1000 U	1000 U	2000 U	2000 U	2000 U	100 U	200 U	250 U
Benzene	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Bromodichloromethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Bromoform	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Bromomethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
2-Butanone	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Carbon Tetrachloride	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Chlorobenzene	25 U	50 U	18 J	100 U	100 U	100 U	5.0 U	10 U	12 U
Dibromochloromethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Chloroethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
2-ChloroethylVinylEther	50 U	100 U	100 U	200 U	200 U	200 U	10 U	20 U	25 U
Chloroform	25 U	50 U	50 U	100 U	100 U	100 U	2.0 J	1.5 J	1.8 J
Chloromethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
cis-1,2-Dichloroethene	82	92	120	80 J	130	110	13	9.9 J	13
trans-1,2-Dichloroethene	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,1-Dichloroethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,2-Dichloroethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,1,1-Trichloroethane	9.2 J	10 J	10 J	100 U	19 J	100 U	5.0 U	10 U	12 U
1,2-Dichloropropane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
cis-1,3-Dichloropropene	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
trans-1,3-Dichloropropene	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,4-Dioxane	5000 U	10000 U	10000 U	20000 U	20000 U	20000 U	1000 U	2000 U	2500 U
Ethylbenzene	25 U	50 U	50 U	32 J	100 U	100 U	5.0 U	10 U	12 U
MethyleneChloride	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,1,2,2-Tetrachloroethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Tetrachloroethene	640	690	530	1100	1700	1000	160	170	210
Toluene	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
1,1,1-Trichloroethane	60	48 J	33 J	100 U	95 J	61 J	11	5.6 J	7.3 J
1,1,2-Trichloroethane	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Trichloroethene	420	410	380	600	860	560	18	11	16
VinylChloride	25 U	50 U	50 U	100 U	100 U	100 U	5.0 U	10 U	12 U
Total Confident Conc. VOAs (s)	1202	1192	1030	1700	2690	1670	202.0	181	239

Sample ID Lab Sample Number Sampling Date Matrix	CW-9 C6L150114001 12/14/2006 WATER	CW-9 C6L200148001 12/19/2006 WATER	CW-9 C6L220112001 12/21/2006 WATER	CW-20 C6L150114002 12/14/2006 WATER	CW-20 C6L200148002 12/19/2006 WATER	CW-20 C6L220112002 12/21/2006 WATER	MW-37S C6L150114003 12/14/2006 WATER	MW-37S C6L200148003 12/19/2006 WATER	MW-37S C6L220112003 12/21/2006 WATER
<b>TOTAL METALS/WET CHEM - units</b>									
Chromium - µg/l	11.3	4.7 B	5.8	9.5	10.4	9.8	2.7 B	2.3 B	2.9 B
Lead - µg/l	3.0 U	3.0 U	3.0 U	3.0 U	2.8 B	3.0 U	3.0 U	3.0 U	1.8 B
Nickel - µg/l	9.7 B	4.5 B	4.5 B	1.4 B	40.0 U	40.0 U	1.4 B	40.0 U	1.7 B
Zinc - µg/l	19.4 BJ	10.5 BJ	10.3 BJ	6.1 BJ	26.4 J	20.2 J	4.2 BJ	19.8 BJ	7.3 BJ
ChromiumVI - mg/l	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
<b>DISSOLVED METALS/WET CHEM - units</b>									
Chromium - µg/l	7.9	3.2 B	5.0	7.5	10.4	9.1	1.4 B	1.6 B	1.1 B
Lead - µg/l	3.0 U	3.0 U	1.7 B	3.0 U	2.5 B	2.2 B	3.0 U	2.0 B	3.0 U
Nickel - µg/l	5.2 B	2.4 B	4.0 B	1.6 B	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U
Zinc - µg/l	12.1 BJ	7.6 BJ	9.9 BJ	3.8 BJ	23.5 J	19.6 BJ	4.2 BJ	5.3 BJ	5.8 BJ
ChromiumVI - mg/l	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Available Cyanide - mg/l	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Total Cyanide - ug/l	10.0 U	10.0 U	10.0 U	10.0 U	4.3 B	10.0 U	10.0 U	10.0 U	10.0 U

**NOTES:**

All metals results are dissolved (field filtered) unless noted.  
 NA - Not applicable.  
 NR - (Analysis) Not Requested.  
 µg/l - Micrograms per liter  
 mg/l - Milligrams per liter

**Qualifiers**

U - The compound was not detected at the indicated concentration.  
 J - Data indicates the presence of a compound that meets the identification criteria.  
 The result is less than the quantitation limit but greater than zero.  
 The concentration given is an approximate value.  
 B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.  
 GC/MS - Gas chromatograph/mass spectrometer

**TABLE 10  
GROUNDWATER QUALITY ANALYSES SUMMARY  
DECEMBER 2006 CW-20 PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	MW-37D C6L150114004 12/14/2006 WATER 10 ug/L	MW-37D C6L200148004 12/19/2006 WATER 10 ug/L	MW-37D C6L220112004 12/21/2006 WATER 10 ug/L	MW-75D C6L150114006 12/14/2006 WATER 25 ug/L	MW-75D C6L200148006 12/19/2006 WATER 25 ug/L	MW-75D C6L220112006 12/21/2006 WATER 25 ug/L	MW-75S C6L150114005 12/14/2006 WATER 200 ug/L	MW-75S C6L200148005 12/19/2006 WATER 200 ug/L	MW-75S C6L220112005 12/21/2006 WATER 200 ug/L
<b>VOLATILE COMPOUNDS (GC/MS)</b>									
Acrolein	1000 U	1000 U	1000 U	2500 U	2500 U	2500 U	20000 U	20000 U	20000 U
Acrylonitrile	1000 U	1000 U	1000 U	2500 U	2500 U	2500 U	20000 U	20000 U	20000 U
Benzene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Bromodichloromethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Bromoform	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Bromomethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
2-Butanone	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Carbon Tetrachloride	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Chlorobenzene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Dibromochloromethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Chloroethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
2-ChloroethylVinylEther	100 U	100 U	100 U	250 U	250 U	250 U	2000 U	2000 U	2000 U
Chloroform	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Chloromethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
cis-1,2-Dichloroethene	75	81	76	79 J	150	120	660 J	550 J	640 J
trans-1,2-Dichloroethene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,1-Dichloroethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,2-Dichloroethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,1-Dichloroethene	50 U	11 J	9.6 J	120 U	25 J	17 J	1000 U	1000 U	1000 U
1,2-Dichloropropane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
cis-1,3-Dichloropropene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
trans-1,3-Dichloropropene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,4-Dioxane	10000 U	10000 U	10000 U	25000 U	25000 U	25000 U	200000 U	200000 U	200000 U
Ethylbenzene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
MethyleneChloride	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,1,2,2-Tetrachloroethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Tetrachloroethene	1300	1600	1500	1900	2000	1300	26000	22000	27000
Toluene	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
1,1,1-Trichloroethane	130	120	100	120 U	110 J	77 J	1500	980 J	1100
1,1,2-Trichloroethane	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Trichloroethene	480	510	450	740	1000	670	10000	7500	9300
VinylChloride	50 U	50 U	50 U	120 U	120 U	120 U	1000 U	1000 U	1000 U
Total Confident Conc. VOAs (s)	1965	2311	2126	2640	3150	2090	37500	29500	37400

Sample ID Lab Sample Number Sampling Date Matrix	MW-37D C6L150114004 12/14/2006 WATER	MW-37D C6L200148004 12/19/2006 WATER	MW-37D C6L220112004 12/21/2006 WATER	MW-75D C6L150114006 12/14/2006 WATER	MW-75D C6L200148006 12/19/2006 WATER	MW-75D C6L220112006 12/21/2006 WATER	MW-75S C6L150114005 12/14/2006 WATER	MW-75S C6L200148005 12/19/2006 WATER	MW-75S C6L220112005 12/21/2006 WATER
<b>TOTAL METALS/WET CHEM - units</b>									
Chromium - µg/l	14.0	6.8	5.6	9.9	12.5	10	11.5	11.0	1.6 B
Lead - µg/l	22.9	9.2	2.5 B	1.9 B	3.0 U	3.0 U	9.6	7.0	3.0 U
Nickel - µg/l	28.3 B	10.7 B	5.5 B	40.0 U	40.0 U	40.0 U	15.6 B	12.4 B	2.4 B
Zinc - µg/l	74.7 J	31.8 J	11.3 B	3.5 B	7.0 B	5.0 B	40.6 J	28.4 J	8.9 B
ChromiumVI - mg/l	0.010 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U
<b>DISSOLVED METALS/WET CHEM - units</b>									
Chromium - µg/l	1.0 B	5.0 U	1.7 B	9.3	11.6	9.7	5.0 U	5.0 U	5.0 U
Lead - µg/l	3.0 U	2.4 B	3.0 U	3.0 U	3.0 U	2.1 B	3.0 U	2.0 B	3.0 U
Nickel - µg/l	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	40.0 U	1.7 B	1.9 B
Zinc - µg/l	2.8 B	4.6 B	3.9 B	5.1 B	3.9 B	4.9 B	2.5 B	4.6 B	4.4 B
ChromiumVI - mg/l	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Available Cyanide - mg/l	0.002 U	0.002 U	0.002 U	0.002 U	0.0012 B	0.002 U	0.002 U	0.002 U	0.002 U
Total Cyanide - ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

**NOTES:**

All metals results are dissolved (field filtered) unless noted.  
 NA - Not applicable.  
 NR - (Analysis) Not Requested.  
 µg/l - Micrograms per liter  
 mg/l - Milligrams per liter

**Qualifiers**

U - The compound was not detected at the indicated concentration.  
 J - Data indicates the presence of a compound that meets the identification criteria.  
 The result is less than the quantitation limit but greater than zero.  
 The concentration given is an approximate value.  
 B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.  
 GC/MS - Gas chromatograph/mass spectrometer

**TABLE 10  
GROUNDWATER QUALITY ANALYSES SUMMARY  
DECEMBER 2006 CW-20 PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Sample ID Lab Sample Number Sampling Date Matrix Dilution Factor Units	MW-93D C6L150114008 12/14/2006 WATER 5 ug/L	MW-93D C6L200148008 12/19/2006 WATER 5 ug/L	MW-93D C6L220112008 12/21/2006 WATER 5 ug/L	MW-93S C6L150114007 12/14/2006 WATER 1 ug/L	MW-93S C6L200148007 12/19/2006 WATER 1 ug/L	MW-93S C6L220112007 12/21/2006 WATER 1 ug/L	Trip_Blank C6L150114009 12/14/2006 WATER 1 ug/L	Trip_Blank C6L200148009 12/19/2006 WATER 1 ug/L	Trip_Blank C6L220112009 12/21/2006 WATER 1 ug/L
<b>VOLATILE COMPOUNDS (GC/MS)</b>									
Acrolein	500 U	500 U	500 U	100 U	100 U	100 U	100 U	100 U	100 U
Acrylonitrile	500 U	500 U	500 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	25 U	25 U	25 U	5.0 U	5.0 U	0.87 J	5.0 U	5.0 U	5.0 U
Dibromochloromethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-ChloroethylVinylEther	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	25 U	25 U	25 U	0.75 J	0.92 J	0.69 J	5.0 U	5.0 U	5.0 U
Chloromethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	53	56	56	4.2 J	7.7	5.1	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	9.0 J	9.6 J	10 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	5000 U	5000 U	5000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Ethylbenzene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
MethyleneChloride	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	560	660	680	130	180	5.0 U	0.96 J	5.0 U	1.2 J
Toluene	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	51	53	51	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	510	480	490	3.4 J	3.5 J	3.1 J	5.0 U	5.0 U	5.0 U
VinylChloride	25 U	25 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total Confident Conc. VOAs (s)	1174	1249	1277	130	187.7	5.1	0	0	0

Sample ID Lab Sample Number Sampling Date Matrix	MW-93D C6L150114008 12/14/2006 WATER	MW-93D C6L200148008 12/19/2006 WATER	MW-93D C6L220112008 12/21/2006 WATER	MW-93S C6L150114007 12/14/2006 WATER	MW-93S C6L200148007 12/19/2006 WATER	MW-93S C6L220112007 12/21/2006 WATER	Trip_Blank C6L150114009 12/14/2006 WATER	Trip_Blank C6L200148009 12/19/2006 WATER	Trip_Blank C6L220112009 12/21/2006 WATER
<b>TOTAL METALS/WET CHEM - units</b>									
Chromium - µg/l	5.0 U	5.0 U	2.0 B	6.9	3.9 B	4.1 B	NR	NR	NR
Lead - µg/l	3.0 U	3.0 U	3.0 U	3.0 U	1.7 B	2.5 B	NR	NR	NR
Nickel - µg/l	40.0 U	40.0 U	1.7 B	1.7 B	40.0 U	40.0 U	NR	NR	NR
Zinc - µg/l	4.3 BJ	5.1 BJ	4.2 BJ	7.6 BJ	3.7 BJ	4.5 BJ	NR	NR	NR
ChromiumVI - mg/l	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NR	NR	NR
<b>DISSOLVED METALS/WET CHEM - units</b>									
Chromium - µg/l	5.0 U	5.0 U	5.0 U	4.2 B	4.4 B	3.6 B	NR	NR	NR
Lead - µg/l	3.0 U	1.9 B	3.0 U	3.0 U	3.0 U	3.0 U	NR	NR	NR
Nickel - µg/l	40.0 U	1.3 B	1.6 B	40.0 U	40.0 U	40.0 U	NR	NR	NR
Zinc - µg/l	5.3 BJ	5.1 BJ	4.8 BJ	2.8 BJ	4.0 BJ	3.7 BJ	NR	NR	NR
ChromiumVI - mg/l	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	NR	NR	NR
Available Cyanide - mg/l	0.002 U	0.002 U	0.002 U	0.002 U	0.00085 B	0.002 U	NR	NR	NR
Total Cyanide - ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	NR	NR	NR

**NOTES:**

All metals results are dissolved (field filtered) unless noted.  
 NA - Not applicable.  
 NR - (Analysis) Not Requested.  
 µg/l - Micrograms per liter  
 mg/l - Milligrams per liter

**Qualifiers**

U - The compound was not detected at the indicated concentration.  
 J - Data indicates the presence of a compound that meets the identification criteria.  
 The result is less than the quantitation limit but greater than zero.  
 The concentration given is an approximate value.  
 B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.  
 GC/MS - Gas chromatograph/mass spectrometer

**Table 11**  
**Summary of Total VOC Concentrations**  
**During CW-20 Pumping Test**

Harley-Davidson Motor Company Operations, Inc.

Well ID	Approx. Horizontal Distance from CW-20 (feet)	Vertical* Distance above CW-20 (feet)	TVOC Pre-Test Sample (12/14)	TVOC At 24 Hours (12/19)	Percent Change @ 24 Hrs. (12/21)	TVOC At 72 Hours (12/21)	Percent Change @ 72 Hrs. (12/21)
CW-20	--	--	1,700	2,690	58.2	1,670	-1.8
MW-37S	10	188	202	181	-10.4	239	18.3
MW-37D	10	74	1,965	2,311	17.6	2,126	8.2
MW-75S	16	39.5	37,500	29,500	-21.3	37,400	-0.3
MW-75D	11	0	2,640	3,150	19.3	2,090	-20.8
MW-93S	194	176.3	130	187.7	44.4	5.1	-96.1
MW-93D	213	70.3	1,174	1,249	6.4	1,277	8.8
CW-9	214	161.5	1,202	1,192	-0.8	1,030	-14.3

All concentrations in micrograms per liter

\* - Indicates distance measured from middle of screened intervals.

TVOC - Total volatile organic compounds

**TABLE 12**  
**Summary of Individual VOC Percentages**  
**From CW-20 Pumping Test**

Harley-Davidson Motor Company Operations, Inc.

Wells	TCE 12/14/06 (µg/l)	TCE 12/19/06 (µg/l)	TCE 12/21/06 (µg/l)	PCE 12/14/06 (µg/l)	PCE 12/19/06 (µg/l)	PCE 12/21/06 (µg/l)	DCE** 12/14/06 (µg/l)	DCE** 12/19/06 (µg/l)	DCE** 12/21/06 (µg/l)
CW-9	420	410	380	640	690	530	82	92	120
CW-20	600	860	560	1,100	1,700	1,000	80	130	110
MW-37S	18	11	16	160	170	210	13	9.9	13
MW-37D	460	510	450	1,300	1,600	1,500	75	81	76
MW-75S	10,000	7,500	9,300	26,000	22,000	27,000	660	550	640
MW-75D	740	1,000	670	1,900	2,000	1,300	79	150	120
MW-93S	3.4	3.5	3.1	130	180	0	4.2	7.7	5.1
MW-93D	510	480	490	560	660	680	53	56	56

Wells	% TCE* 12/14/06	% PCE* 12/14/06	% DCE* 12/14/06
CW-9	34.9	53.2	6.8
CW-20	33.7	61.8	4.5
MW-37S	8.9	79.2	6.4
MW-37D	23.4	66.2	3.8
MW-75S	26.2	68.1	1.7
MW-75D	27.2	69.9	2.9
MW-93S	2.5	94.5	3.1
MW-93D	43.4	47.7	4.5

Wells	% TCE* 12/19/06	% PCE* 12/19/06	% DCE* 12/19/06
CW-9	34.4	57.9	7.7
CW-20	32.0	63.2	4.8
MW-37S	5.8	89.1	5.2
MW-37D	22.1	69.2	3.5
MW-75S	25.0	73.2	1.8
MW-75D	31.7	63.5	4.8
MW-93S	1.8	94.1	4.0
MW-93D	38.4	52.8	4.5

Wells	% TCE* 12/21/06	% PCE* 12/21/06	% DCE* 12/21/06
CW-9	36.9	51.5	11.7
CW-20	33.5	59.9	6.6
MW-37S	6.7	87.9	5.4
MW-37D	21.2	70.6	3.6
MW-75S	24.2	70.3	1.7
MW-75D	32.1	62.2	5.7
MW-93S	37.8	0.0	62.2
MW-93D	38.4	53.2	4.4

\* - Represents the percent of the total volatile organic compound concentration

\*\* - Represents the concentration of cis-1,2-DCE

(µg/l) - Micrograms per liter

TCE - Trichloroethene

PCE - Tetrachloroethene

TCA - 1,1,1-Trichloroethane

DCE - 1,2-Dichloroethene

**Table 13**  
**Summary of Precipitation Data - May 2007**

Harley-Davidson Motor Company Operations, Inc.

Date	Precipitation (inches)
5/1/2007	0.00
5/2/2007	0.00
5/3/2007	0.00
5/4/2007	0.00
5/5/2007	0.00
5/6/2007	0.00
5/7/2007	0.00
5/8/2007	0.00
5/9/2007	0.00
5/10/2007	0.19
5/11/2007	0.01
5/12/2007	0.34
5/13/2007	0.00
5/14/2007	0.00
5/15/2007	0.00
5/16/2007	0.58
5/17/2007	0.00
5/18/2007	0.00
5/19/2007	0.00
5/20/2007	0.00
5/21/2007	0.00
5/22/2007	0.00
5/23/2007	0.00
5/24/2007	0.00
5/25/2007	0.00
5/26/2007	0.00
5/27/2007	0.03
5/28/2007	0.00
5/29/2007	0.00
5/30/2007	0.00
5/31/2007	0.00
Total	1.15

**TABLE 14**  
**Groundwater Elevation Data - Pre-pumping Conditions**  
**May 7, 2007**

Harley-Davidson Motor Company Operations, Inc.

Well I.D.	Reference Elevation (ft AMSL)	5/7/2007		Open Interval Feet bgs	Monitor Shallow Water (Y/N)
		Depth (feet)	Water Level (ft AMSL)		
CW-9	357.73	13.98	343.75	47 - 70	Y
CW-13	358.72	16.41	342.31	60 - 70	Y
CW-14	359.84	17.34	342.50	36 - 80	Y
CW-15	362.81	15.48	347.33	55 - 270	Y
CW-15A	362.57	15.78	346.79	18 - 68	Y
CW-17	359.60	17.09	342.51	32 - 65	Y
CW-20	361.49	18.59	342.90	205 - 215	N
MW-6	360.55	17.25	343.30	8 - 40	Y
MW-7	360.39	18.01	342.38	15 - 35	Y
MW-8	358.99	15.22	343.77	12 - 36	Y
MW-27	362.26	14.94	347.32	8 - 70	Y
MW-29	365.63	13.68	351.95	10 - 60	Y
MW-30	363.03	14.05	348.98	23 - 41	Y
MW-34S	362.02	15.99	346.03	24 - 37	Y
MW-34D	362.12	15.92	346.20	91 - 125	N
MW-35S	361.58	15.40	346.18	7 - 19	Y
MW-35D	361.59	15.53	346.06	106 - 124	N
MW-37S	360.10	16.29	343.81	11 - 33	Y
MW-37D	360.08	16.25	343.83	125 - 141	N
MW-38D	359.57	16.64	342.93	80 - 103	N
MW-39S	361.06	18.62	342.44	3 - 30	Y
MW-39D	361.14	18.80	342.34	53 - 100	Y
MW-45	361.13	15.07	346.06	6 - 38	Y
MW-46	360.25	14.35	345.90	6 - 39	Y
MW-47	361.74	17.62	344.12	12 - 35	Y
MW-49S	363.02	15.59	347.43	135 - 155	N
MW-49D	363.02	15.69	347.33	158 - 178	N
MW-50S	361.34	17.24	344.10	104 - 120	N
MW-50D	361.33	17.89	343.44	157 - 170	N
MW-51S	361.11	18.41	342.70	29 - 51	Y
MW-51D	361.35	19.83	341.52	88 - 120	N
MW-74S	360.77	18.10	342.67	183 - 193	N
MW-74D	360.71	17.99	342.72	225 - 250	N
MW-75S	359.98	16.82	343.16	168 - 173	N
MW-75D	360.81	18.05	342.76	205 - 215	N
MW-81S	360.97	15.08	345.89	31 - 41	Y
MW-81D	360.75	14.62	346.13	56 - 66	Y
MW-93S	361.72	17.81	343.91	26 - 41	Y
MW-93D	361.10	17.42	343.68	135 - 145	N
WPLSS-7	358.69	16.11	342.58	17 - 27	Y
WPLSS-8	364.07	21.51	342.56	14 - 24	Y

ft AMSL - Feet above mean sea level  
Feet bgs - Feet below ground surface



**TABLE 15**  
**Groundwater Recovery Data - Prior to Start of WPL Pumping Test**  
**May 4-7, 2007**

Harley-Davidson Motor Company Operations, Inc.

<b>Observation Wells</b>	<b>No.</b>	<b>Initial Level 5/4/2007</b>	<b>Level at Test Start 5/7/2007</b>	<b>Pre-Test Recovery (feet)</b>
CW-9	1	22.79	13.98	8.81
CW-13	2	27.32	16.41	10.91
CW-14	3	23.38	17.34	6.04
CW-15	4	18.10	15.48	2.62
CW-15A	5	27.26	15.78	11.48
CW-17	6	23.27	17.09	6.18
CW-20	7	21.01	18.59	2.42
MW-6	8	19.89	17.25	2.64
MW-7	9	22.92	18.01	4.91
MW-8	10	17.41	15.22	2.19
MW-27	11	15.70	14.94	0.76
MW-29	12	13.60	13.68	-0.08
MW-30	13	14.47	14.05	0.42
MW-34S	14	16.66	15.99	0.67
MW-34D	15	16.81	15.92	0.89
MW-35S	16	16.16	15.40	0.76
MW-35D	17	16.36	15.53	0.83
MW-37S	18	17.81	16.29	1.52
MW-37D	19	18.71	16.25	2.46
MW-38D	20	18.41	16.64	1.77
MW-39S	21	20.61	18.62	1.99
MW-39D	22	20.46	18.80	1.66
MW-45	23	15.97	15.07	0.90
MW-46	24	15.12	14.35	0.77
MW-47	25	19.32	17.62	1.70
MW-49S	26	16.99	15.59	1.40
MW-49D	27	16.75	15.69	1.06
MW-50S	28	19.42	17.24	2.18
MW-50D	29	20.16	17.89	2.27
MW-51S	30	22.28	18.41	3.87
MW-51D	31	21.02	19.83	1.19
MW-74S	32	19.44	18.10	1.34
MW-74D	33	18.94	17.99	0.95
MW-75S	34	18.98	16.82	2.16
MW-75D	35	20.49	18.05	2.44
MW-81S	36	15.72	15.08	0.64
MW-81D	37	15.19	14.62	0.57
MW-93S	38	19.18	17.81	1.37
MW-93D	39	18.85	17.42	1.43
WPLSS-7	40	18.98	16.11	2.87
WPLSS-8	41	NM	21.51	NM

NM - Not Measured

**TABLE 16**  
**Groundwater Elevation Data - At Conclusion of WPL Pumping Test**  
**May 11, 2007**

Harley-Davidson Motor Company Operations, Inc.

Well I.D.	Reference Elevation (ft AMSL)	5/11/2007		Open Interval Feet bgs	Monitor Shallow Water (Y/N)
		Depth (feet)	Water Level (ft AMSL)		
CW-9	357.73	23.23	334.50	47 - 70	Y
CW-13	358.72	28.43	330.29	60 - 70	Y
CW-14	359.84	25.75	334.09	36 - 80	Y
CW-15	362.81	19.98	342.83	55 - 270	Y
CW-15A	362.57	31.71	330.86	18 - 68	Y
CW-17	359.60	25.63	333.97	32 - 65	Y
CW-20	361.49	21.45	340.04	205 - 215	N
MW-6	360.55	20.00	340.55	8 - 40	Y
MW-7	360.39	24.85	335.54	15 - 35	Y
MW-8	358.99	17.94	341.05	12 - 36	Y
MW-27	362.26	15.80	346.46	8 - 70	Y
MW-29	365.63	13.58	352.05	10 - 60	Y
MW-30	363.03	15.20	347.83	23 - 41	Y
MW-34S	362.02	16.33	345.69	24 - 37	Y
MW-34D	362.12	16.25	345.87	91 - 125	N
MW-35S	361.58	15.76	345.82	7 - 19	Y
MW-35D	361.59	15.88	345.71	106 - 124	N
MW-37S	360.10	18.07	342.03	11 - 33	Y
MW-37D	360.08	19.16	340.92	125 - 141	N
MW-38D	359.57	18.34	341.23	80 - 103	N
MW-39S	361.06	20.85	340.21	3 - 30	Y
MW-39D	361.14	20.85	340.29	53 - 100	Y
MW-45	361.13	15.86	345.27	6 - 38	Y
MW-46	360.25	14.89	345.36	6 - 39	Y
MW-47	361.74	19.28	342.46	12 - 35	Y
MW-49S	363.02	17.96	345.06	135 - 155	N
MW-49D	363.02	17.64	345.38	158 - 178	N
MW-50S	361.34	19.91	341.43	104 - 120	N
MW-50D	361.33	20.77	340.56	157 - 170	N
MW-51S	361.11	23.77	337.34	29 - 51	Y
MW-51D	361.35	11.91	349.44	88 - 120	N
MW-74S	360.77	19.74	341.03	183 - 193	N
MW-74D	360.71	19.22	341.49	225 - 250	N
MW-75S	359.98	19.35	340.63	168 - 173	N
MW-75D	360.81	20.91	339.90	205 - 215	N
MW-81S	360.97	15.44	345.53	31 - 41	Y
MW-81D	360.75	15.02	345.73	56 - 66	Y
MW-93S	361.72	19.35	342.37	26 - 41	Y
MW-93D	361.10	19.05	342.05	135 - 145	N
WPLSS-7	358.69	18.80	339.89	17 - 27	Y
WPLSS-8	364.07	23.72	340.35	14 - 24	Y

ft AMSL - Feet above mean sea level  
Feet bgs - Feet below ground surface

## **APPENDIX A**

### **CW-20 Lithologic and Well Construction Log**



# LOG OF COLLECTION WELL CW-20

(Page 1 of 5)

Harley-Davidson  
Motor Company Operations, Inc.  
York, Pa.  
Project #01-1633-00-9574-100

Driller : Carey Knaub / Gary Garland  
Logged By : Todd Eaby + Peter A. Enderlin  
Drilling Started : 5/30/06  
Drilling Completed : 7/27/06  
Drilling Method : Air Rotary / Cable Tool  
Boring Location : Southwest of South WPL  
Well Construction : 8/28/06  
Well Developed : 8/23/06

Depth in Feet	DESCRIPTION	GRAPHIC	PID (ppm)	Well: CW-20 361.49	Depth in Feet	Well Construction Information
0	yellowish brown, GRAVEL (GW) SILTY CLAY (CL) dark grey (7.5YR4/1), reddish yellow mottling (7.5YR6/6), <25% angular coarse quartz gravel		0		0	SURFACE : 2.8' stick up, 15" diameter COMPLETION : steel protector pipe
5					5	WELL CASING : 6" diameter carbon steel WELL RISER : Material : Carbon steel, Diameter : 6"
10	SILT W. TRACE OF CLAY (ML) reddish yellow (7.5YR6/6), <3% medium to fine gravel		0		10	WELL SCREEN : U - Pack Material : Type 304 Stainless Steel Diameter : 6" Slot Size : 0.040"
15	SILT W. GRAVEL (GM) strong brown (7.5YR4/6) with 50% medium to fine angular to subrounded gravel, 3% dry sand		0		15	GROUT : Portland 5-8% Bentonite total quantity :
20	WEATHERED DOLOMITIC LIMESTONE, black (2.5/N) microcrystalline. 32-33', calcite rhobrahedrans		0		20	BENTONITE SEAL : Size : 3/8" Holeplug, Quantity : Bentonite
25	DOLOTSTONE dark gray (7.5YR4/1), micro crystals		0		25	15" Air rotary drilling (0-26') 12" Air rotary drilling (26-120.5') 12" Mud rotary drilling (120.5-125') 19" Mud rotary drilling (0-24') 17" Casing set (0-24') 15" Mud rotary drilling (0-125') 12" Casing set (0-127')
30	DOLOMITIC LIMESTONE gray (7.5YR6/1 and 7.5YR5/1) to light gray (7.5YR7/1)		0		30	12" Mud drilling (127-153') 10" Stradex drilling/casing (153-214') Cable tool drilling (214-219') 6" Stainless 40 Slot Screen (205-215') 6" Casing set (0-205')
35	same color variation as above with 10% very pale brown (10YR8/3 to 10YR8/4), slight reaction to acid		0.3		35	Note: The well casing was cut off at 6' BGS and a pitless bury unit (6" diameter) was welded onto the 6" riser. An additional section of 6" diameter riser was welded on top of the bury unit to extend abovegrade.
40					40	
45					45	
50					50	



# LOG OF COLLECTION WELL CW-20

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Harley-Davidson  
Motor Company Operations, Inc.  
York, Pa.  
Project #01-1633-00-9574-100

Driller : Carey Knaub / Gary Garland  
Logged By : Todd Eaby + Peter A. Enderlin  
Drilling Started : 5/30/06  
Drilling Completed : 7/27/06  
Drilling Method : Air Rotary / Cable Tool

Boring Location : Southwest of South WPL  
Well Construction : 8/28/06  
Well Developed : 8/23/06

Depth in Feet	DESCRIPTION	GRAPHIC	PID (ppm)	Well: CW-20 361.49	Depth in Feet	Well Construction Information
50					50	SURFACE : 2.8' stick up, 15" diameter COMPLETION : steel protector pipe
55	WEATHERED ZONE 54-56', some iron staining, courser gravel, WBZ 20-30 gal/min POSSIBLE VOID OR FRACTURE 54-56'				55	WELL CASING : 6" diameter carbon steel WELL RISER Material : Carbon steel Diameter : 6" WELL SCREEN : U - Pack Material : Type 304 Stainless Diameter : 6" Slot Size : 0.040"
60	DOLOSTONE light gray (7.5YR7/1) to gray (7.5YR6/1) DOLOSTONE as above inner bedded with LIMESTONE black (2.5/N) to v. dark gray (3/N)		0		60	GROUT : Portland 5-8% Bentonite total quantity : BENTONITE SEAL Size : 3/8" Holeplug Bentonite Quantity :
65					65	
70					70	
75	LIMESTONE as above with 3% calcite veining				75	15" Air rotary drilling (0-26') 12" Air rotary drilling (26-120.5') 12" Mud rotary drilling (120.5-125') 19" Mud rotary drilling (0-24') 17" Casing set (0-24') 15" Mud rotary drilling (0-125') 12" Casing set (0-127') 12" Mud drilling (127-153') 10" Stradex drilling/casing (153-214') Cable tool drilling (214-219') 6" Stainless 40 Slot Screen (205-215') 6" Casing set (0-205')
80	WBZ 100 gal/min				80	
85			0		85	Note: The well casing was cut off at 6' BGS and a pitless bury unit (6" diameter) was welded onto the 6" riser. An additional section of 6" diameter riser was welded on top of the bury unit to extend abovegrade.
90	LIMESTONE gray (6/N) to dark gray (4/N) with 3-5% weathered limey dolostone very pale yellow (10YR7/6) to dark yellowish brown (10YR3/6)				90	
95	LIMESTONE dark gray (7.5YR6/1) to gray (7.5YR4/1) LIMESTONE same as 72-89'		0.9		95	
100					100	

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# LOG OF COLLECTION WELL CW-20

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Harley-Davidson  
Motor Company Operations, Inc.

York, Pa.

Project #01-1633-00-9574-100

Driller : Carey Knaub / Gary Garland  
 Logged By : Todd Eaby + Peter A. Enderlin  
 Drilling Started : 5/30/06  
 Drilling Completed : 7/27/06  
 Drilling Method : Air Rotary / Cable Tool

Boring Location : Southwest of South WPL  
 Well Construction : 8/28/06  
 Well Developed : 8/23/06

Depth in Feet	DESCRIPTION	GRAPHIC	PID (ppm)	Well: CW-20 361.49	Depth in Feet	Well Construction Information
100	LIMESTONE as 94.5-97'	[Pattern]			100	SURFACE : 2.8' stick up, 15" diameter COMPLETION : steel protector pipe
105	LIMESTONE as 72-89'	[Pattern]	0.9		105	WELL CASING : 6" diameter carbon steel WELL RISER : Material : Carbon steel, Diameter : 6", WELL SCREEN : U - Pack, Material : Type 304 Stainless Steel, Diameter : 6", Slot Size : 0.040"
110	FRACTURED ZONE, SILTY AND CLAYEY GRAVELS (GM GC) with 10% angular to subrounded gravel <2" in diameter	[Pattern]			110	GROUT : Portland 5-8% Bentonite
115	VOID 116-120.5' lost circulation, no returns	[Pattern]	53.1		115	total quantity : BENTONITE SEAL : Size : 3/8" Holeplug, Quantity : Bentonite
120	GRAVEL FILLED VOID 120.5-125, large vein quartz gravel and iron stained dolotstone returns	[Pattern]			120	15" Air rotary drilling (0-26') 12" Air rotary drilling (26-120.5') 12" Mud rotary drilling (120.5-125') 19" Mud rotary drilling (0-24') 17" Casing set (0-24') 15" Mud rotary drilling (0-125') 12" Casing set (0-127') 12" Mud drilling (127-153') 10" Stradex drilling/casing (153-214') Cable tool drilling (214-219') 6" Stainless 40 Slot Screen (205-215') 6" Casing set (0-205')
125	FRACTURED ZONE	[Pattern]			125	Note: The well casing was cut off at 6' BGS and a pitless bury unit (6" diameter) was welded onto the 6" riser. An additional section of 6" diameter riser was welded on top of the bury unit to extend abovegrade.
130	ROCK	[Pattern]			130	
135	VOID 131-141' filled with fines, unable to sample with split spoon	[Pattern]			135	
140	VOID 141-146' filled with silt, sand, and gravels, able to split spoon sample with full (100%) recovery 141-146' bgl	[Pattern]			140	
145	VOID 146-153' filled with 50% course angular gravel, 30% course sand and 20% fine sand, split spoon 20% recovery 148-153' bgl	[Pattern]			145	
150				150		



# LOG OF COLLECTION WELL CW-20

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Harley-Davidson  
Motor Company Operations, Inc.

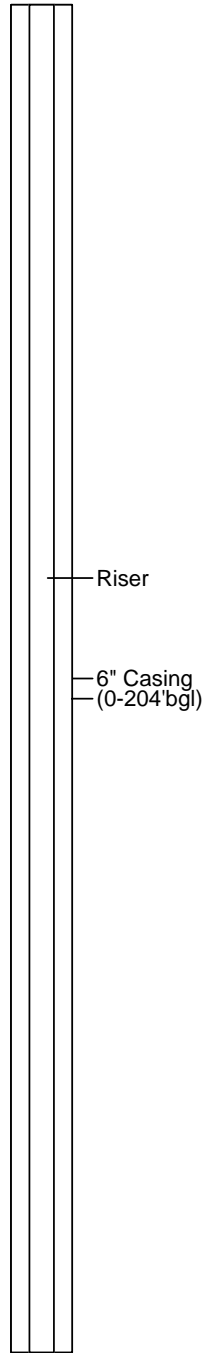
York, Pa.

Project #01-1633-00-9574-100

Driller : Carey Knaub / Gary Garland  
 Logged By : Todd Eaby + Peter A. Enderlin  
 Drilling Started : 5/30/06  
 Drilling Completed : 7/27/06  
 Drilling Method : Air Rotary / Cable Tool

Boring Location : Southwest of South WPL  
 Well Construction : 8/28/06  
 Well Developed : 8/23/06

Depth in Feet	DESCRIPTION	GRAPHIC	PID (ppm)	Well: CW-20 361.49	Depth in Feet	Well Construction Information
150					150	SURFACE : 2.8' stick up, 15" diameter COMPLETION : steel protector pipe
155	VOID 153-159.5' filled with COURSE to FINE GRAVEL, 50% dolostone angular dark bluish gray (3/N) to v. dark gray (SB4/1), 50% quartz course to fine subangular yellow (10YR8/6) to yellow brownish (10YB5/8)		156		155	WELL CASING : 6" diameter carbon steel WELL RISER Material : Carbon steel Diameter : 6" WELL SCREEN : U - Pack Material : Type 304 Stainless Diameter : 6" Slot Size : 0.040"
160	LIMESTONE dark bluish gray (3/N) to v. dark gray (SB4/1) VOID filled with 70% limestone and 30% quartz as 153-159.5'				160	GROUT : Portland 5-8% Bentonite total quantity : BENTONITE SEAL Size : 3/8" Holeplug Bentonite Quantity :
165	VOID or FRACTURED ZONE filled with 15% course quartz cobbles, 20% fine quartz gravel, 20% course sand, 45% fine sand moist to wet, sample spoon 30% 167-169' bgl				165	
170	VOID 169-172'				170	
175	VOID filled with poorly graded sand, sample spoon 48% recovery 172.5-177.5' bgl				175	15" Air rotary drilling (0-26') 12" Air rotary drilling (26-120.5') 12" Mud rotary drilling (120.5-125') 19" Mud rotary drilling (0-24') 17" Casing set (0-24') 15" Mud rotary drilling (0-125') 12" Casing set (0-127') 12" Mud drilling (127-153')
180	VOID filled with fine sand, 5% recovery 178-182' bgl				180	10" Stradex drilling/casing (153-214') Cable tool drilling (214-219') 6" Stainless 40 Slot Screen (205-215') 6" Casing set (0-205')
185	VOID or FRACTURED ZONE filled with 57% thick clay/silt, 24% fine sands, 19% course sand and rounded gravel, sample spoon 35% recovery 184-189' bgl				185	Note: The well casing was cut off at 6' BGS and a pitless bury unit (6" diameter) was welded onto the 6" riser. An additional section of 6" diameter riser was welded on top of the bury unit to extend abovegrade.
190	VOID or FRACTURED ZONE filled with 50% course sand, 30% very course sand, 20% fine sand, sample spoon 8% recovery 189-190.5' bgl				190	
195	LIMESTONE black (2.5/N) to v. dark gray (3/N) with white (0/N) to light gray (7/N) calcite veining, 3% angular sandstone gravel				195	
200					200	





# LOG OF COLLECTION WELL CW-20

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Harley-Davidson  
Motor Company Operations, Inc.

York, Pa.

Project #01-1633-00-9574-100

Driller : Carey Knaub / Gary Garland  
 Logged By : Todd Eaby + Peter A. Enderlin  
 Drilling Started : 5/30/06  
 Drilling Completed : 7/27/06  
 Drilling Method : Air Rotary / Cable Tool

Boring Location : Southwest of South WPL  
 Well Construction : 8/28/06  
 Well Developed : 8/23/06

Depth in Feet	DESCRIPTION	GRAPHIC	PID (ppm)	Well: CW-20 361.49	Depth in Feet	Well Construction Information
200	Limestone as above without quartz gravel			<p>Well diagram labels: Riser, 6" Casing (0-204' bgl), 40 Slot Screen, Sump</p>	200	SURFACE : 2.8' stick up, 15" diameter COMPLETION : steel protector pipe  WELL CASING : 6" diameter carbon steel  WELL RISER Material : Carbon steel Diameter : 6" WELL SCREEN : U - Pack Material : Type 304 Stainless Steel Diameter : 6" Slot Size : 0.040"  GROUT : Portland 5-8% Bentonite total quantity : BENTONITE SEAL Size : 3/8" Holeplug : Bentonite Quantity :
205					205	
210					210	
215	VOID - WBZ estimated 300 gal/min				215	
	Limestone as 202-213'					
	VOID					
	LIMESTONE as 202-213					
220	TD -219 FEET				220	
225					225	15" Air rotary drilling (0-26') 12" Air rotary drilling (26-120.5') 12" Mud rotary drilling (120.5-125') 19" Mud rotary drilling (0-24') 17" Casing set (0-24') 15" Mud rotary drilling (0-125') 12" Casing set (0-127') 12" Mud drilling (127-153') 10" Stradex drilling/casing (153-214') Cable tool drilling (214-219') 6" Stainless 40 Slot Screen (205-215') 6" Casing set (0-205')
230					230	
235				235	Note: The well casing was cut off at 6' BGS and a pitless bury unit (6" diameter) was welded onto the 6" riser. An additional section of 6" diameter riser was welded on top of the bury unit to extend abovegrade.	
240				240		
245				245		
250				250		



**APPENDIX B**

**Low Flow Purging Techniques**

**LOW-FLOW PURGING PROCEDURE  
CW-20 PUMPING TEST  
HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.  
YORK, PA**

The collection of groundwater samples from eight monitoring wells sampled at the Harley-Davidson facility in York, PA was performed using low-flow purging techniques. This method was used instead of traditional purging techniques (i.e., three borehole volumes) in an effort to minimize groundwater drawdown experienced during a groundwater pumping test and to minimize groundwater movement through the aquifer caused by purging. The low-flow purging technique progressed in four general steps:

1. Set the purge flow rate.
2. Control drawdown in the well.
3. Obtain stabilized water quality indicator parameters; and
4. Collect groundwater samples.

These monitoring wells were purged and sampled using a 2-inch diameter Grundfos pump with a variable speed flow controller. Decontamination of the field sampling equipment was performed after sample collection at each location.

The field parameters, pH, conductivity, temperature, dissolved oxygen (DO) and turbidity were monitored during purging. The purge rate was adjusted, as necessary, until a stabilized flow rate was achieved at a rate similar to the matched yield of the well (refer to Table B-1). After the water level stabilized, field water quality parameters were measured and recorded approximately every five to fifteen minutes. Purging was considered complete when the field parameters stabilized after a minimum of three readings at five-minute intervals according to the following criteria (USACE, 2001):

- dissolved oxygen (DO):  $\pm 0.2$  milligrams/liter (mg/L)
- conductivity:  $\pm 25$  micro-mhos/centimeter ( $\mu\text{mhos/cm}$ )
- temperature:  $\pm 0.5$  degrees Celsius ( $^{\circ}\text{C}$ )
- pH:  $\pm 0.1$  Standard units (S.U.)

- turbidity: < 50 nephelometric turbidity units (NTU)

The collection of a groundwater sample from each well began immediately after determination of stabilized readings. The pump tubing was checked to ensure that no air was entrapped in the line prior to sample collection. Samples were transferred directly into pre-preserved laboratory sample containers from the pump tubing.

Immediately after the collection of samples and the completion of sample container label information, each container was placed into an ice-filled cooler to ensure preservation. Samples were then submitted to Severn Trent Laboratories (STL) for analyses using proper handling, shipping, and chain-of-custody procedures.

Water generated from well purging activities and decontamination water from groundwater sampling activities was containerized and transferred for treatment by the on-site groundwater treatment system.

Low-flow techniques that were utilized included the following:

1. The electronic multi-meter equipment (Horiba U22 or U10) was calibrated daily as per manufacturer's instructions.
2. Operation of the electronic water level meter was checked daily per the manufacturer's instructions.
3. Equipment and materials were assembled daily, including well keys, multi-meter, electronic water level meter, pump controller, field logbook, and sampling equipment (glassware, labels, cooler, and waste container). The equipment and supplies were then transported to the wellhead.
4. The well was unlocked and the well cap removed.
5. The electronic water level meter was used to measure and document the depth to water (to the nearest 0.01 ft) from the reference mark on the top of the well casing.
6. The well pump intake was set at a depth that coincides with the depth to the main water bearing zone (WBZ) in each well (refer to Table B-1). The WBZ information was obtained by reviewing the well installation log.

7. The well was purged using the pump and controller. Water was collected in a 450-gallon portable tank. The purge flow rate was determined by first collecting the water in a 5-gallon bucket and timing the rate of filling. The removed water was treated by the air stripping tower that is part of the groundwater treatment system.
8. The pump tubing was then connected to the flow-through cell and multi-meter.
9. The water level and water quality parameters were measured and recorded approximately every five minutes. Pumping rates were adjusted, as necessary, to ensure stabilization of the water level.
10. During purging, care was taken to ensure that no air bubbles were in the tubing.
11. Water quality parameters were measured and recorded using the Horiba U22 (or U10) multi-meter until the criteria identified above were achieved.
12. Once the water quality parameters were stable, the pump tubing was disconnected from the flow-through cell and the appropriate sample containers were filled.
13. The samples were then placed into an appropriate container (cooler) with ice.
14. Once sample collection was complete, the well was secured.

**TABLE B-1**  
**Primary Observation Well Information**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Last Update: Dec 12, 2006

Well ID:	Construction	Well Depth	Open Interval	Water Bearing Zone (feet bgs)	Low Flow Pump Setting (feet bgs)	Estimated Well Yield (gpm)	Desired Pumping Rate (gpm)
CW-9	6-inch open	70	47 - 50	50	PORT	60	5
CW-20	6-inch steel	219	205 - 215	213 - 214	209**	>100	5
MW-37S	2-inch PVC	32	12 - 32	N/A*	30	trace	0.5
MW-37D	2-inch PVC	141	131 - 141	137	137	50	2
MW-75S	2-inch PVC	173	168 - 173	154 - 173	170.5	<2	1
MW-75D	2-inch PVC	215	205 - 215	211 - 212	211	100	2-3
MW-93S	4-inch PVC	41.2	26.2 - 41.2	N/A*	39.2	<3.75	1-2
MW-93D	2-inch PVC	144.7	134.7 - 144.7	142 - 144.7	142	<3	2

N/A\* - Not available (depth to pump = 2 foot above bottom of screen)

\*\* - The initial sample will be 209'; at 1 day and end of test - sample will be collected through port

PORT - Indicates all samples will be collected from sample port

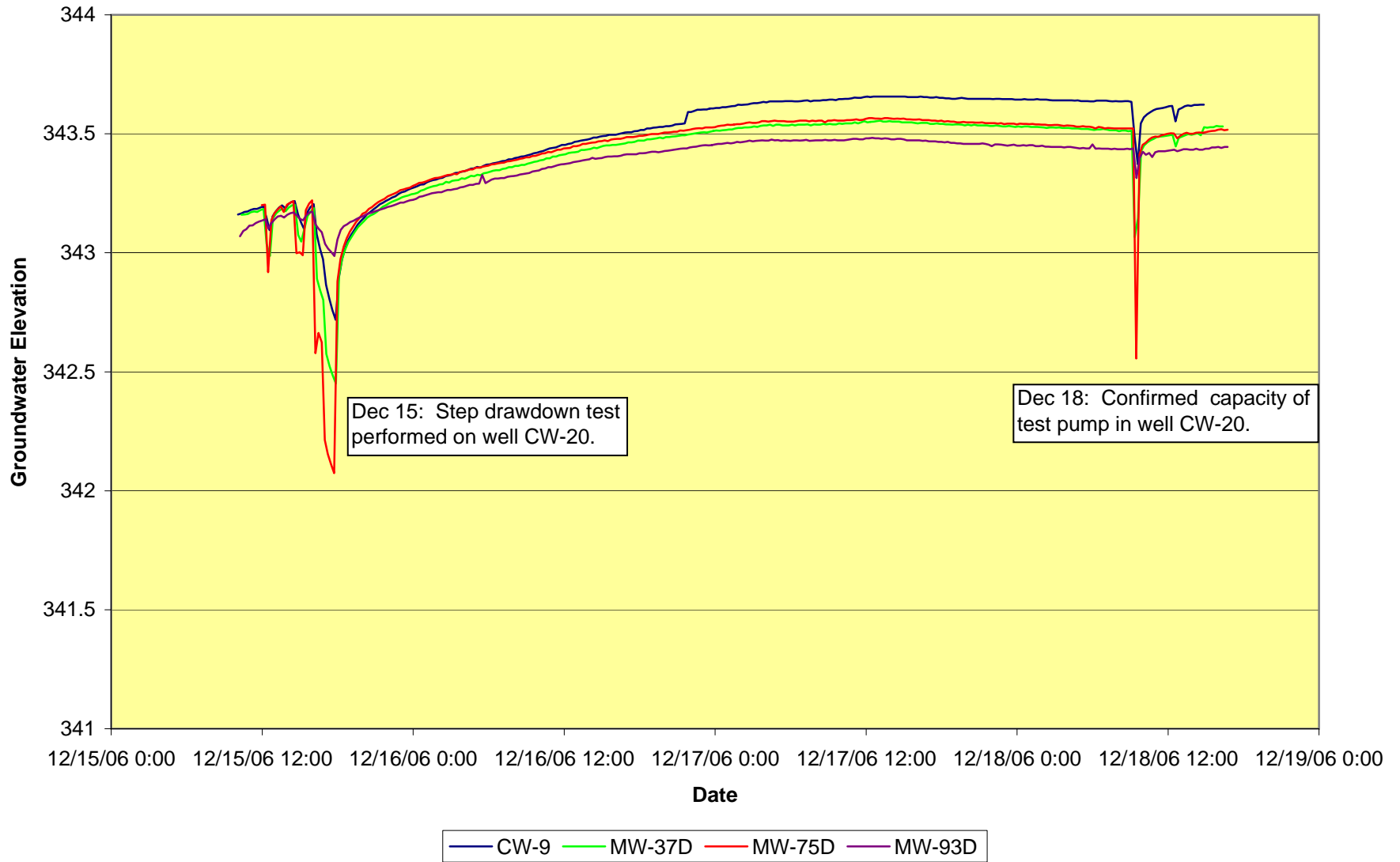
feet bgs - Feet below ground surface

PVC - Polyvinyl chloride

## **APPENDIX C**

### **Background Water Level Graphs Pre CW-20 Pumping Test**

**APPENDIX C**  
**Background Groundwater Elevation Data**  
**Pre-CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.



**APPENDIX D**

**CW-20 Step-test Data**



**APPENDIX D**  
**CW-20 Step Test Data**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-20	SLM	12/15/06 14:37	0	19.24		
		12/15/06 14:40	0.10		0.10	start step 1 (25.0 gpm)
CW-20	SLM	12/15/06 14:41	1	20.11	0.87	
CW-20	SLM	12/15/06 14:42	2	20.83	1.59	
CW-20	SLM	12/15/06 14:43	3	19.98	0.74	
CW-20	SLM	12/15/06 14:44	4	20.40	1.16	
CW-20	SLM	12/15/06 14:45	5	20.41	1.17	
CW-20	SLM	12/15/06 14:46	6	20.78	1.54	
CW-20	SLM	12/15/06 14:47	7	20.79	1.55	
CW-20	SLM	12/15/06 14:48	8	20.79	1.55	
CW-20	SLM	12/15/06 14:49	9	20.79	1.55	
CW-20	SLM	12/15/06 14:50	10	20.79	1.55	
CW-20	SLM	12/15/06 14:53	13	20.80	1.56	
CW-20	SLM	12/15/06 14:54	14	20.80	1.56	
CW-20	SLM	12/15/06 14:55	15	20.81	1.57	
CW-20	SLM	12/15/06 15:00	20	20.81	1.57	
CW-20	SLM	12/15/06 15:05	25	20.84	1.60	
CW-20	SLM	12/15/06 15:10	30	20.84	1.60	
CW-20	SLM	12/15/06 15:15	35	20.85	1.61	15:17 shut down
CW-20	SLM	12/15/06 16:10	35	19.32	0.08	Start step 2 (49.6 gpm)
CW-20	SLM	12/15/06 16:11	36	26.75	7.43	
CW-20	SLM	12/15/06 16:12	37	26.12	6.80	
CW-20	SLM	12/15/06 16:13	38	24.96	5.64	
CW-20	SLM	12/15/06 16:14	39	24.21	4.89	
CW-20	SLM	12/15/06 16:15	40	24.19	4.87	
CW-20	SLM	12/15/06 16:16	41	24.25	4.93	
CW-20	SLM	12/15/06 16:17	42	24.70	5.38	
CW-20	SLM	12/15/06 16:18	43	24.37	5.05	
CW-20	SLM	12/15/06 16:19	44	24.38	5.06	
CW-20	SLM	12/15/06 16:20	45	24.38	5.06	
CW-20	SLM	12/15/06 16:22	47	24.39	5.07	
CW-20	SLM	12/15/06 16:25	50	24.40	5.08	
CW-20	SLM	12/15/06 16:30	55	24.42	5.10	
CW-20	SLM	12/15/06 16:35	60	24.45	5.13	
CW-20	SLM	12/15/06 16:40	65	24.48	5.16	
CW-20	SLM	12/15/06 16:45	70	24.51	5.19	
CW-20	SLM	12/15/06 16:50	75	24.54	5.22	End step 2
CW-20	SLM	12/15/06 16:51	76	27.09	7.77	Start step 3 (70.6 gpm)
CW-20	SLM	12/15/06 16:52	77	27.28	7.96	
CW-20	SLM	12/15/06 16:53	78	27.60	8.28	
CW-20	SLM	12/15/06 16:54	79	27.83	8.51	
CW-20	SLM	12/15/06 16:55	80	27.91	8.59	
CW-20	SLM	12/15/06 16:56	81	28.18	8.86	
CW-20	SLM	12/15/06 16:57	82	28.23	8.91	
CW-20	SLM	12/15/06 16:58	83	28.27	8.95	
CW-20	SLM	12/15/06 16:59	84	28.29	8.97	
CW-20	SLM	12/15/06 17:00	85	28.36	9.04	
CW-20	SLM	12/15/06 17:05	90	28.47	9.15	
CW-20	SLM	12/15/06 17:10	95	28.58	9.26	
CW-20	SLM	12/15/06 17:15	100	28.65	9.33	
CW-20	SLM	12/15/06 17:20	105	28.73	9.41	
CW-20	SLM	12/15/06 17:25	110	28.78	9.46	
CW-20	SLM	12/15/06 17:30	115	28.84	9.52	
CW-20	SLM	12/15/06 17:35	120	28.91	9.59	
CW-20	SLM	12/15/06 17:40	125	28.97	9.65	
CW-20	SLM	12/15/06 17:45	130	29.01	9.69	
CW-20	SLM	12/15/06 17:50	135	29.04	9.72	

## **APPENDIX E**

### **CW-20 Constant Rate Test Water Level Data**

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/18/2006	17:12:27	0	14.35
12/18/2006	17:22:27	10	14.349
12/18/2006	17:32:27	20	14.346
12/18/2006	17:42:27	30	14.525
12/18/2006	17:52:27	40	14.572
12/18/2006	18:02:27	50	14.604
12/18/2006	18:12:27	60	14.639
12/18/2006	18:22:27	70	14.675
12/18/2006	18:32:27	80	14.697
12/18/2006	18:42:27	90	14.72
12/18/2006	18:52:27	100	14.735
12/18/2006	19:02:27	110	14.76
12/18/2006	19:12:27	120	14.792
12/18/2006	19:22:27	130	14.817
12/18/2006	19:32:27	140	14.823
12/18/2006	19:42:27	150	14.838
12/18/2006	19:52:27	160	14.82
12/18/2006	20:02:27	170	14.833
12/18/2006	20:12:27	180	14.847
12/18/2006	20:22:27	190	14.862
12/18/2006	20:32:27	200	14.875
12/18/2006	20:42:27	210	14.887
12/18/2006	20:52:27	220	14.9
12/18/2006	21:02:27	230	14.897
12/18/2006	21:12:27	240	14.908
12/18/2006	21:22:27	250	14.918
12/18/2006	21:32:27	260	14.932
12/18/2006	21:42:27	270	14.943
12/18/2006	21:52:27	280	14.952
12/18/2006	22:02:27	290	14.963
12/18/2006	22:12:27	300	14.973
12/18/2006	22:22:27	310	14.983
12/18/2006	22:32:27	320	14.991
12/18/2006	22:42:27	330	15.003
12/18/2006	22:52:27	340	15.013
12/18/2006	23:02:27	350	15.022
12/18/2006	23:12:27	360	15.032
12/18/2006	23:22:27	370	15.04
12/18/2006	23:32:27	380	15.048
12/18/2006	23:42:27	390	15.057
12/18/2006	23:52:27	400	15.065
12/19/2006	0:02:27	410	15.073
12/19/2006	0:12:27	420	15.082
12/19/2006	0:22:27	430	15.088
12/19/2006	0:32:27	440	15.096
12/19/2006	0:42:27	450	15.103
12/19/2006	0:52:27	460	15.109
12/19/2006	1:02:27	470	15.12
12/19/2006	1:12:27	480	15.124
12/19/2006	1:22:27	490	15.133
12/19/2006	1:32:27	500	15.14

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	1:42:27	510	15.148
12/19/2006	1:52:27	520	15.155
12/19/2006	2:02:27	530	15.161
12/19/2006	2:12:27	540	15.168
12/19/2006	2:22:27	550	15.176
12/19/2006	2:32:27	560	15.18
12/19/2006	2:42:27	570	15.191
12/19/2006	2:52:27	580	15.195
12/19/2006	3:02:27	590	15.2
12/19/2006	3:12:27	600	15.206
12/19/2006	3:22:27	610	15.215
12/19/2006	3:32:27	620	15.219
12/19/2006	3:42:27	630	15.226
12/19/2006	3:52:27	640	15.231
12/19/2006	4:02:27	650	15.239
12/19/2006	4:12:27	660	15.243
12/19/2006	4:22:27	670	15.249
12/19/2006	4:32:27	680	15.254
12/19/2006	4:42:27	690	15.261
12/19/2006	4:52:27	700	15.268
12/19/2006	5:02:27	710	15.273
12/19/2006	5:12:27	720	15.281
12/19/2006	5:22:27	730	15.286
12/19/2006	5:32:27	740	15.289
12/19/2006	5:42:27	750	15.296
12/19/2006	5:52:27	760	15.301
12/19/2006	6:02:27	770	15.308
12/19/2006	6:12:27	780	15.314
12/19/2006	6:22:27	790	15.318
12/19/2006	6:32:27	800	15.325
12/19/2006	6:42:27	810	15.333
12/19/2006	6:52:27	820	15.333
12/19/2006	7:02:27	830	15.34
12/19/2006	7:12:27	840	15.343
12/19/2006	7:22:27	850	15.35
12/19/2006	7:32:27	860	15.355
12/19/2006	7:42:27	870	15.36
12/19/2006	7:52:27	880	15.365
12/19/2006	8:02:27	890	15.369
12/19/2006	8:12:27	900	15.378
12/19/2006	8:22:27	910	15.38
12/19/2006	8:32:27	920	15.385
12/19/2006	8:42:27	930	15.39
12/19/2006	8:52:27	940	15.35
12/19/2006	9:02:27	950	15.355
12/19/2006	9:12:27	960	15.361
12/19/2006	9:22:27	970	15.366
12/19/2006	9:32:27	980	15.369
12/19/2006	9:42:27	990	15.373
12/19/2006	9:52:27	1000	15.377
12/19/2006	10:02:27	1010	15.38

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	10:12:27	1020	15.383
12/19/2006	10:22:27	1030	15.388
12/19/2006	10:32:27	1040	15.392
12/19/2006	10:42:27	1050	15.395
12/19/2006	10:52:27	1060	15.397
12/19/2006	11:02:27	1070	15.403
12/19/2006	11:12:27	1080	15.407
12/19/2006	11:22:27	1090	15.41
12/19/2006	11:32:27	1100	15.411
12/19/2006	11:42:27	1110	15.415
12/19/2006	11:52:27	1120	15.419
12/19/2006	12:02:27	1130	15.425
12/19/2006	12:12:27	1140	15.427
12/19/2006	12:22:27	1150	15.43
12/19/2006	12:32:27	1160	15.434
12/19/2006	12:42:27	1170	15.437
12/19/2006	12:52:27	1180	15.44
12/19/2006	13:02:27	1190	15.447
12/19/2006	13:12:27	1200	15.45
12/19/2006	13:22:27	1210	15.454
12/19/2006	13:32:27	1220	15.457
12/19/2006	13:42:27	1230	15.46
12/19/2006	13:52:27	1240	15.464
12/19/2006	14:02:27	1250	15.469
12/19/2006	14:12:27	1260	15.471
12/19/2006	14:22:27	1270	15.476
12/19/2006	14:32:27	1280	15.476
12/19/2006	14:42:27	1290	15.482
12/19/2006	14:52:27	1300	15.491
12/19/2006	15:02:27	1310	15.499
12/19/2006	15:12:27	1320	15.502
12/19/2006	15:22:27	1330	15.506
12/19/2006	15:32:27	1340	15.507
12/19/2006	15:42:27	1350	15.509
12/19/2006	15:52:27	1360	15.512
12/19/2006	16:02:27	1370	15.514
12/19/2006	16:12:27	1380	15.518
12/19/2006	16:22:27	1390	15.523
12/19/2006	16:32:27	1400	15.531
12/19/2006	16:42:27	1410	15.534
12/19/2006	16:52:27	1420	15.539
12/19/2006	17:02:27	1430	15.539
12/19/2006	17:12:27	1440	15.541
12/19/2006	17:22:27	1450	15.544
12/19/2006	17:32:27	1460	15.547
12/19/2006	17:42:27	1470	15.549
12/19/2006	17:52:27	1480	15.551
12/19/2006	18:02:27	1490	15.554
12/19/2006	18:12:27	1500	15.559
12/19/2006	18:22:27	1510	15.562
12/19/2006	18:32:27	1520	15.564

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	18:42:27	1530	16.561
12/19/2006	18:52:27	1540	16.591
12/19/2006	19:02:27	1550	16.587
12/19/2006	19:12:27	1560	15.601
12/19/2006	19:22:27	1570	15.584
12/19/2006	19:32:27	1580	15.578
12/19/2006	19:42:27	1590	15.575
12/19/2006	19:52:27	1600	15.571
12/19/2006	20:02:27	1610	15.571
12/19/2006	20:12:27	1620	15.57
12/19/2006	20:22:27	1630	15.57
12/19/2006	20:32:27	1640	15.57
12/19/2006	20:42:27	1650	15.573
12/19/2006	20:52:27	1660	15.575
12/19/2006	21:02:27	1670	15.575
12/19/2006	21:12:27	1680	15.575
12/19/2006	21:22:27	1690	15.579
12/19/2006	21:32:27	1700	15.58
12/19/2006	21:42:27	1710	15.582
12/19/2006	21:52:27	1720	15.582
12/19/2006	22:02:27	1730	15.583
12/19/2006	22:12:27	1740	15.586
12/19/2006	22:22:27	1750	15.588
12/19/2006	22:32:27	1760	15.59
12/19/2006	22:42:27	1770	15.593
12/19/2006	22:52:27	1780	15.593
12/19/2006	23:02:27	1790	15.595
12/19/2006	23:12:27	1800	15.597
12/19/2006	23:22:27	1810	15.598
12/19/2006	23:32:27	1820	15.6
12/19/2006	23:42:27	1830	15.604
12/19/2006	23:52:27	1840	15.605
12/20/2006	0:02:27	1850	15.607
12/20/2006	0:12:27	1860	15.609
12/20/2006	0:22:27	1870	15.611
12/20/2006	0:32:27	1880	15.612
12/20/2006	0:42:27	1890	15.616
12/20/2006	0:52:27	1900	15.616
12/20/2006	1:02:27	1910	15.617
12/20/2006	1:12:27	1920	15.621
12/20/2006	1:22:27	1930	15.623
12/20/2006	1:32:27	1940	15.624
12/20/2006	1:42:27	1950	15.628
12/20/2006	1:52:27	1960	15.628
12/20/2006	2:02:27	1970	15.629
12/20/2006	2:12:27	1980	15.631
12/20/2006	2:22:27	1990	15.633
12/20/2006	2:32:27	2000	15.635
12/20/2006	2:42:27	2010	15.635
12/20/2006	2:52:27	2020	15.638
12/20/2006	3:02:27	2030	15.641

# CW-9 ELECTRONIC DATA

## CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
12/20/2006	3:12:27	2040	15.64
12/20/2006	3:22:27	2050	15.641
12/20/2006	3:32:27	2060	15.645
12/20/2006	3:42:27	2070	15.647
12/20/2006	3:52:27	2080	15.648
12/20/2006	4:02:27	2090	15.653
12/20/2006	4:12:27	2100	15.653
12/20/2006	4:22:27	2110	15.653
12/20/2006	4:32:27	2120	15.655
12/20/2006	4:42:27	2130	15.658
12/20/2006	4:52:27	2140	15.662
12/20/2006	5:02:27	2150	15.665
12/20/2006	5:12:27	2160	15.665
12/20/2006	5:22:27	2170	15.667
12/20/2006	5:32:27	2180	15.668
12/20/2006	5:42:27	2190	15.672
12/20/2006	5:52:27	2200	15.674
12/20/2006	6:02:27	2210	15.675
12/20/2006	6:12:27	2220	15.677
12/20/2006	6:22:27	2230	15.679
12/20/2006	6:32:27	2240	15.68
12/20/2006	6:42:27	2250	15.682
12/20/2006	6:52:27	2260	15.684
12/20/2006	7:02:27	2270	15.685
12/20/2006	7:12:27	2280	15.687
12/20/2006	7:22:27	2290	15.689
12/20/2006	7:32:27	2300	15.692
12/20/2006	7:42:27	2310	15.692
12/20/2006	7:52:27	2320	15.694
12/20/2006	8:02:27	2330	15.696
12/20/2006	8:12:27	2340	15.698
12/20/2006	8:22:27	2350	15.699
12/20/2006	8:32:27	2360	15.703
12/20/2006	8:42:27	2370	15.704
12/20/2006	8:52:27	2380	15.708
12/20/2006	9:02:27	2390	15.708
12/20/2006	9:12:27	2400	15.708
12/20/2006	9:22:27	2410	15.713
12/20/2006	9:32:27	2420	15.713
12/20/2006	9:42:27	2430	15.713
12/20/2006	9:52:27	2440	15.713
12/20/2006	10:02:27	2450	15.716
12/20/2006	10:12:27	2460	15.718
12/20/2006	10:22:27	2470	15.721
12/20/2006	10:32:27	2480	15.721
12/20/2006	10:42:27	2490	15.722
12/20/2006	10:52:27	2500	15.725
12/20/2006	11:02:27	2510	15.725
12/20/2006	11:12:27	2520	15.725
12/20/2006	11:22:27	2530	15.727
12/20/2006	11:32:27	2540	15.727

# CW-9 ELECTRONIC DATA

## CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
12/20/2006	11:42:27	2550	15.73
12/20/2006	11:52:27	2560	15.73
12/20/2006	12:02:27	2570	15.73
12/20/2006	12:12:27	2580	15.732
12/20/2006	12:22:27	2590	15.732
12/20/2006	12:32:27	2600	15.735
12/20/2006	12:42:27	2610	15.737
12/20/2006	12:52:27	2620	15.737
12/20/2006	13:02:27	2630	15.739
12/20/2006	13:12:27	2640	15.739
12/20/2006	13:22:27	2650	15.74
12/20/2006	13:32:27	2660	15.742
12/20/2006	13:42:27	2670	15.746
12/20/2006	13:52:27	2680	15.744
12/20/2006	14:02:27	2690	15.745
12/20/2006	14:12:27	2700	15.747
12/20/2006	14:22:27	2710	15.749
12/20/2006	14:32:27	2720	15.751
12/20/2006	14:42:27	2730	15.751
12/20/2006	14:52:27	2740	15.752
12/20/2006	15:02:27	2750	15.754
12/20/2006	15:12:27	2760	15.756
12/20/2006	15:22:27	2770	15.757
12/20/2006	15:32:27	2780	15.757
12/20/2006	15:42:27	2790	15.761
12/20/2006	15:52:27	2800	15.757
12/20/2006	16:02:27	2810	15.762
12/20/2006	16:12:27	2820	15.764
12/20/2006	16:22:27	2830	15.764
12/20/2006	16:32:27	2840	15.768
12/20/2006	16:42:27	2850	15.768
12/20/2006	16:52:27	2860	15.769
12/20/2006	17:02:27	2870	15.771
12/20/2006	17:12:27	2880	15.773
12/20/2006	17:22:27	2890	15.773
12/20/2006	17:32:27	2900	15.776
12/20/2006	17:42:27	2910	15.776
12/20/2006	17:52:27	2920	15.776
12/20/2006	18:02:27	2930	15.778
12/20/2006	18:12:27	2940	15.779
12/20/2006	18:22:27	2950	15.782
12/20/2006	18:32:27	2960	15.784
12/20/2006	18:42:27	2970	15.788
12/20/2006	18:52:27	2980	15.787
12/20/2006	19:02:27	2990	15.789
12/20/2006	19:12:27	3000	15.789
12/20/2006	19:22:27	3010	15.789
12/20/2006	19:32:27	3020	15.793
12/20/2006	19:42:27	3030	15.798
12/20/2006	19:52:27	3040	15.796
12/20/2006	20:02:27	3050	15.796



# CW-9 ELECTRONIC DATA

## CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
12/20/2006	20:12:27	3060	15.8
12/20/2006	20:22:27	3070	15.801
12/20/2006	20:32:27	3080	15.8
12/20/2006	20:42:27	3090	15.803
12/20/2006	20:52:27	3100	15.805
12/20/2006	21:02:27	3110	15.805
12/20/2006	21:12:27	3120	15.808
12/20/2006	21:22:27	3130	15.81
12/20/2006	21:32:27	3140	15.81
12/20/2006	21:42:27	3150	15.81
12/20/2006	21:52:27	3160	15.811
12/20/2006	22:02:27	3170	15.813
12/20/2006	22:12:27	3180	15.812
12/20/2006	22:22:27	3190	15.816
12/20/2006	22:32:27	3200	15.816
12/20/2006	22:42:27	3210	15.818
12/20/2006	22:52:27	3220	15.819
12/20/2006	23:02:27	3230	15.821
12/20/2006	23:12:27	3240	15.823
12/20/2006	23:22:27	3250	15.823
12/20/2006	23:32:27	3260	15.826
12/20/2006	23:42:27	3270	15.825
12/20/2006	23:52:27	3280	15.825
12/21/2006	0:02:27	3290	15.826
12/21/2006	0:12:27	3300	15.827
12/21/2006	0:22:27	3310	15.828
12/21/2006	0:32:27	3320	15.83
12/21/2006	0:42:27	3330	15.832
12/21/2006	0:52:27	3340	15.833
12/21/2006	1:02:27	3350	15.833
12/21/2006	1:12:27	3360	15.835
12/21/2006	1:22:27	3370	15.835
12/21/2006	1:32:27	3380	15.837
12/21/2006	1:42:27	3390	15.837
12/21/2006	1:52:27	3400	15.838
12/21/2006	2:02:27	3410	15.842
12/21/2006	2:12:27	3420	15.84
12/21/2006	2:22:27	3430	15.842
12/21/2006	2:32:27	3440	15.845
12/21/2006	2:42:27	3450	15.845
12/21/2006	2:52:27	3460	15.845
12/21/2006	3:02:27	3470	15.847
12/21/2006	3:12:27	3480	15.849
12/21/2006	3:22:27	3490	15.847
12/21/2006	3:32:27	3500	15.852
12/21/2006	3:42:27	3510	15.85
12/21/2006	3:52:27	3520	15.853
12/21/2006	4:02:27	3530	15.853
12/21/2006	4:12:27	3540	15.858
12/21/2006	4:22:27	3550	15.857
12/21/2006	4:32:27	3560	15.855

# CW-9 ELECTRONIC DATA

## CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
12/21/2006	4:42:27	3570	15.859
12/21/2006	4:52:27	3580	15.86
12/21/2006	5:02:27	3590	15.862
12/21/2006	5:12:27	3600	15.865
12/21/2006	5:22:27	3610	15.865
12/21/2006	5:32:27	3620	15.865
12/21/2006	5:42:27	3630	15.869
12/21/2006	5:52:27	3640	15.867
12/21/2006	6:02:27	3650	15.866
12/21/2006	6:12:27	3660	15.866
12/21/2006	6:22:27	3670	15.868
12/21/2006	6:32:27	3680	15.869
12/21/2006	6:42:27	3690	15.87
12/21/2006	6:52:27	3700	15.872
12/21/2006	7:02:27	3710	15.872
12/21/2006	7:12:27	3720	15.872
12/21/2006	7:22:27	3730	15.874
12/21/2006	7:32:27	3740	15.876
12/21/2006	7:42:27	3750	15.877
12/21/2006	7:52:27	3760	15.879
12/21/2006	8:02:27	3770	15.882
12/21/2006	8:12:27	3780	15.882
12/21/2006	8:22:27	3790	15.882
12/21/2006	8:32:27	3800	15.885
12/21/2006	8:42:27	3810	15.885
12/21/2006	8:52:27	3820	15.889
12/21/2006	9:02:27	3830	15.887
12/21/2006	9:12:27	3840	15.889
12/21/2006	9:22:27	3850	15.892
12/21/2006	9:32:27	3860	15.892
12/21/2006	9:42:27	3870	15.895
12/21/2006	9:52:27	3880	15.892
12/21/2006	10:02:27	3890	15.897
12/21/2006	10:12:27	3900	15.895
12/21/2006	10:22:27	3910	15.897
12/21/2006	10:32:27	3920	15.901
12/21/2006	10:42:27	3930	15.901
12/21/2006	10:52:27	3940	15.901
12/21/2006	11:02:27	3950	15.902
12/21/2006	11:12:27	3960	15.904
12/21/2006	11:22:27	3970	15.904
12/21/2006	11:32:27	3980	15.906
12/21/2006	11:42:27	3990	15.906
12/21/2006	11:52:27	4000	15.907
12/21/2006	12:02:27	4010	15.908
12/21/2006	12:12:27	4020	15.909
12/21/2006	12:22:27	4030	15.911
12/21/2006	12:32:27	4040	15.912
12/21/2006	12:42:27	4050	15.912
12/21/2006	12:52:27	4060	15.912
12/21/2006	13:02:27	4070	15.914

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	13:12:27	4080	15.914
12/21/2006	13:22:27	4090	15.914
12/21/2006	13:32:27	4100	15.916
12/21/2006	13:42:27	4110	15.921
12/21/2006	13:52:27	4120	15.923
12/21/2006	14:02:27	4130	15.924
12/21/2006	14:12:27	4140	15.923
12/21/2006	14:22:27	4150	15.923
12/21/2006	14:32:27	4160	15.924
12/21/2006	14:42:27	4170	15.924
12/21/2006	14:52:27	4180	15.924
12/21/2006	15:02:27	4190	15.924
12/21/2006	15:12:27	4200	15.929
12/21/2006	15:22:27	4210	15.934
12/21/2006	15:32:27	4220	15.936
12/21/2006	15:42:27	4230	15.941
12/21/2006	15:52:27	4240	15.944
12/21/2006	16:02:27	4250	15.945
12/21/2006	16:12:27	4260	15.944
12/21/2006	16:22:27	4270	15.941
12/21/2006	16:32:27	4280	15.941
12/21/2006	16:42:27	4290	15.943
12/21/2006	16:52:27	4300	15.943
12/21/2006	17:02:27	4310	15.942
12/21/2006	17:12:27	4320	15.942
12/21/2006	17:22:27	4330	15.943
12/21/2006	17:32:27	4340	17.093
12/21/2006	17:42:27	4350	17.101
12/21/2006	17:52:27	4360	17.11
12/21/2006	18:02:27	4370	16.006
12/21/2006	18:12:27	4380	15.837
12/21/2006	18:22:27	4390	15.756
12/21/2006	18:32:27	4400	15.692
12/21/2006	18:42:27	4410	15.639
12/21/2006	18:52:27	4420	15.592
12/21/2006	19:02:27	4430	15.552
12/21/2006	19:12:27	4440	15.515
12/21/2006	19:22:27	4450	15.483
12/21/2006	19:32:27	4460	15.453
12/21/2006	19:42:27	4470	15.426
12/21/2006	19:52:27	4480	15.4
12/21/2006	20:02:27	4490	15.377
12/21/2006	20:12:27	4500	15.354
12/21/2006	20:22:27	4510	15.334
12/21/2006	20:32:27	4520	15.314
12/21/2006	20:42:27	4530	15.293
12/21/2006	20:52:27	4540	15.28
12/21/2006	21:02:27	4550	15.262
12/21/2006	21:12:27	4560	15.245
12/21/2006	21:22:27	4570	15.23
12/21/2006	21:32:27	4580	15.217

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	21:42:27	4590	15.202
12/21/2006	21:52:27	4600	15.189
12/21/2006	22:02:27	4610	15.177
12/21/2006	22:12:27	4620	15.164
12/21/2006	22:22:27	4630	15.152
12/21/2006	22:32:27	4640	15.141
12/21/2006	22:42:27	4650	15.129
12/21/2006	22:52:27	4660	15.119
12/21/2006	23:02:27	4670	15.109
12/21/2006	23:12:27	4680	15.098
12/21/2006	23:22:27	4690	15.088
12/21/2006	23:32:27	4700	15.079
12/21/2006	23:42:27	4710	15.068
12/21/2006	23:52:27	4720	15.06
12/22/2006	0:02:27	4730	15.053
12/22/2006	0:12:27	4740	15.04
12/22/2006	0:22:27	4750	15.033
12/22/2006	0:32:27	4760	15.025
12/22/2006	0:42:27	4770	15.018
12/22/2006	0:52:27	4780	15.01
12/22/2006	1:02:27	4790	15.002
12/22/2006	1:12:27	4800	14.995
12/22/2006	1:22:27	4810	14.989
12/22/2006	1:32:27	4820	14.98
12/22/2006	1:42:27	4830	14.972
12/22/2006	1:52:27	4840	14.97
12/22/2006	2:02:27	4850	14.961
12/22/2006	2:12:27	4860	14.954
12/22/2006	2:22:27	4870	14.948
12/22/2006	2:32:27	4880	14.943
12/22/2006	2:42:27	4890	14.936
12/22/2006	2:52:27	4900	14.929
12/22/2006	3:02:27	4910	14.924
12/22/2006	3:12:27	4920	14.916
12/22/2006	3:22:27	4930	14.911
12/22/2006	3:32:27	4940	14.906
12/22/2006	3:42:27	4950	14.899
12/22/2006	3:52:27	4960	14.895
12/22/2006	4:02:27	4970	14.888
12/22/2006	4:12:27	4980	14.885
12/22/2006	4:22:27	4990	14.881
12/22/2006	4:32:27	5000	14.875
12/22/2006	4:42:27	5010	14.871
12/22/2006	4:52:27	5020	14.865
12/22/2006	5:02:27	5030	14.86
12/22/2006	5:12:27	5040	14.857
12/22/2006	5:22:27	5050	14.853
12/22/2006	5:32:27	5060	14.847
12/22/2006	5:42:27	5070	14.843
12/22/2006	5:52:27	5080	14.838
12/22/2006	6:02:27	5090	14.833

# CW-9 ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/22/2006	6:12:27	5100	14.832
12/22/2006	6:22:27	5110	14.825
12/22/2006	6:32:27	5120	14.822
12/22/2006	6:42:27	5130	14.819
12/22/2006	6:52:27	5140	14.815
12/22/2006	7:02:27	5150	14.809
12/22/2006	7:12:27	5160	14.807
12/22/2006	7:22:27	5170	14.805
12/22/2006	7:32:27	5180	14.799
12/22/2006	7:42:27	5190	14.797
12/22/2006	7:52:27	5200	14.794
12/22/2006	8:02:27	5210	14.79
12/22/2006	8:12:27	5220	14.785
12/22/2006	8:22:27	5230	14.784
12/22/2006	8:32:27	5240	14.78
12/22/2006	8:42:27	5250	14.777
12/22/2006	8:52:27	5260	14.774
12/22/2006	9:02:27	5270	14.77
12/22/2006	9:12:27	5280	14.768
12/22/2006	9:22:27	5290	14.765
12/22/2006	9:32:27	5300	14.762
12/22/2006	9:42:27	5310	14.759
12/22/2006	9:52:27	5320	14.757
12/22/2006	10:02:27	5330	14.754
12/22/2006	10:12:27	5340	14.75
12/22/2006	10:22:27	5350	14.747
12/22/2006	10:32:27	5360	14.745
12/22/2006	10:42:27	5370	14.741
12/22/2006	10:52:27	5380	14.739
12/22/2006	11:02:27	5390	14.736
12/22/2006	11:12:27	5400	14.734
12/22/2006	11:22:27	5410	14.731
12/22/2006	11:32:27	5420	14.729
12/22/2006	11:42:27	5430	14.721
12/22/2006	11:52:27	5440	14.724
12/22/2006	12:02:27	5450	14.721
12/22/2006	12:12:27	5460	14.716
12/22/2006	12:22:27	5470	14.716
12/22/2006	12:32:27	5480	14.712
12/22/2006	12:42:27	5490	14.709
12/22/2006	12:52:27	5500	14.709
12/22/2006	13:02:27	5510	14.706
12/22/2006	13:12:27	5520	14.704
12/22/2006	13:22:27	5530	14.703
12/22/2006	13:32:27	5540	14.701
12/22/2006	13:42:27	5550	14.699
12/22/2006	13:52:27	5560	14.696
12/22/2006	14:02:27	5570	14.696
12/22/2006	14:12:27	5580	14.691
12/22/2006	14:22:27	5590	14.686
12/22/2006	14:32:27	5600	14.681

**CW-13 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-13	EMW	12/18/06 17:35	0	18.81		start test
CW-13	SLM	12/18/06 22:01	266	18.84	0.03	
CW-13	SRL	12/19/06 1:54	499	18.88	0.07	
CW-13	SRL	12/19/06 5:55	740	18.88	0.07	
CW-13	EMW	12/19/06 10:24	1009	18.79	-0.02	
CW-13	EMW	12/19/06 14:02	1227	18.79	-0.02	
CW-13	EMW	12/19/06 18:02	1467	18.79	-0.02	
CW-13	SRL	12/19/06 21:52	1697	18.80	-0.01	
CW-13	SRL	12/20/06 1:55	1940	18.82	0.01	
CW-13	SRL	12/20/06 5:50	2175	18.85	0.04	
CW-13	EMW	12/20/06 10:02	2427	18.83	0.02	
CW-13	EMW	12/20/06 13:59	2664	18.81	0.00	
CW-13	EMW	12/20/06 17:53	2898	18.82	0.01	
CW-13	SRL	12/20/06 21:53	3138	18.87	0.06	
CW-13	SRL	12/21/06 1:51	3376	18.84	0.03	
CW-13	SRL	12/21/06 5:50	3615	18.84	0.03	
CW-13	EMW	12/21/06 9:55	3860	18.84	0.03	
CW-13	EMW	12/21/06 13:51	4096	18.90	0.09	
CW-13	EMW	12/21/06 16:54	4279	18.89	0.08	
CW-13	SRL	12/21/06 22:20	4605	18.92	0.11	First recovery reading
CW-13	SRL	12/22/06 1:21	4786	18.88	0.07	
CW-13	EMW	12/22/06 6:25	5090	18.90	0.09	
CW-13	EMW	12/22/06 9:59	5304	18.84	0.03	
CW-13	EMW	12/22/06 13:51	5536	18.80	-0.01	
CW-13	SLM	12/22/06 16:03	5668	18.87	0.06	

feet below TOC - Feet below top of casing

**CW-20 Data Sheet**  
**CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-20	EMW	12/18/06 17:35	0	19.15		start test
			0.10		0.10	
CW-20	EMW	12/18/06 17:36	1	30.76	11.61	
CW-20	EMW	12/18/06 17:37	2	31.31	12.16	
CW-20	EMW	12/18/06 17:38	3	31.43	12.28	
CW-20	EMW	12/18/06 17:39	4	31.50	12.35	
CW-20	EMW	12/18/06 17:40	5	31.56	12.41	
CW-20	EMW	12/18/06 17:41	6	31.65	12.50	
CW-20	EMW	12/18/06 17:42	7	31.67	12.52	
CW-20	EMW	12/18/06 17:43	8	31.69	12.54	
CW-20	EMW	12/18/06 17:44	9	31.70	12.55	
CW-20	EMW	12/18/06 17:45	10	31.51	12.36	
CW-20	EMW	12/18/06 17:46	11	30.87	11.72	
CW-20	EMW	12/18/06 17:47	12	31.11	11.96	
CW-20	EMW	12/18/06 17:48	13	31.16	12.01	
CW-20	EMW	12/18/06 17:49	14	30.98	11.83	
CW-20	EMW	12/18/06 17:50	15	30.52	11.37	
CW-20	EMW	12/18/06 17:55	20	29.46	10.31	
CW-20	EMW	12/18/06 18:00	25	29.52	10.37	
CW-20	EMW	12/18/06 18:05	30	29.59	10.44	
CW-20	EMW	12/18/06 18:10	35	30.03	10.88	
CW-20	EMW	12/18/06 18:15	40	30.30	11.15	
CW-20	EMW	12/18/06 18:20	45	30.76	11.61	
CW-20	EMW	12/18/06 18:25	50	30.18	11.03	
CW-20	EMW	12/18/06 18:30	55	29.91	10.76	
CW-20	EMW	12/18/06 18:35	60	29.96	10.81	
CW-20	EMW	12/18/06 19:05	90	30.94	11.79	
CW-20	EMW	12/18/06 19:30	115	30.16	11.01	
CW-20	EMW	12/18/06 20:05	150	30.34	11.19	
CW-20	EMW	12/18/06 20:22	167	30.41	11.26	
CW-20	EMW	12/18/06 20:42	187	30.50	11.35	
CW-20	EMW	12/18/06 21:22	227	30.69	11.54	
CW-20	EMW	12/18/06 21:35	240	30.74	11.59	
CW-20	EMW	12/18/06 22:35	300	31.00	11.85	
CW-20	EMW	12/18/06 23:05	330	31.10	11.95	
CW-20	EMW	12/18/06 23:35	360	31.17	12.02	
CW-20	EMW	12/19/06 0:05	390	31.29	12.14	
CW-20	EMW	12/19/06 0:35	420	31.41	12.26	
CW-20	EMW	12/19/06 1:05	450	31.50	12.35	
CW-20	EMW	12/19/06 1:35	480	31.64	12.49	
CW-20	EMW	12/19/06 2:35	540	31.83	12.68	
CW-20	EMW	12/19/06 3:05	570	31.90	12.75	
CW-20	EMW	12/19/06 3:35	600	32.00	12.85	
CW-20	EMW	12/19/06 4:05	630	32.09	12.94	
CW-20	SLM	12/19/06 4:35	660	32.18	13.03	
CW-20	SLM	12/19/06 5:05	690	32.30	13.15	
CW-20	SRL	12/19/06 5:35	720	32.39	13.24	
CW-20	SRL	12/19/06 6:35	780	32.51	13.36	
CW-20	SRL	12/19/06 7:05	810	32.64	13.49	
CW-20	EMW	12/19/06 7:35	840	32.68	13.53	
CW-20	EMW	12/19/06 8:05	870	32.72	13.57	
CW-20	EMW	12/19/06 8:35	900	32.75	13.60	
CW-20	EMW	12/19/06 9:05	930	32.77	13.62	
CW-20	SLM	12/19/06 9:35	960	32.84	13.69	

**CW-20 Data Sheet**  
**CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-20	SLM	12/19/06 10:45	1030	32.94	13.79	
CW-20	SRL	12/19/06 11:06	1051	32.96	13.81	
CW-20	SRL	12/19/06 11:35	1080	32.97	13.82	
CW-20	SRL	12/19/06 12:05	1110	33.02	13.87	
CW-20	EMW	12/19/06 12:35	1140	33.05	13.90	
CW-20	SLM	12/19/06 13:05	1170	33.07	13.92	
CW-20	SRL	12/19/06 13:35	1200	33.07	13.92	
CW-20	SRL	12/19/06 14:35	1260	33.16	14.01	
CW-20	SRL	12/19/06 15:05	1290	33.36	14.21	
CW-20	SRL	12/19/06 15:35	1320	33.38	14.23	
CW-20	EMW	12/19/06 16:05	1350	33.42	14.27	
CW-20	EMW	12/19/06 16:35	1380	33.45	14.30	
CW-20	EMW	12/19/06 17:05	1410	33.55	14.40	
CW-20	EMW	12/19/06 17:35	1440	33.58	14.43	
CW-20	EMW	12/19/06 18:35	1500	33.62	14.47	
CW-20	SLM	12/19/06 19:05	1530	33.68	14.53	
CW-20	SLM	12/19/06 19:35	1560	33.70	14.55	
CW-20	SLM	12/19/06 20:05	1590	33.73	14.58	
CW-20	SLM	12/19/06 20:35	1620	33.76	14.61	
CW-20	SLM	12/19/06 21:05	1650	33.75	14.60	
CW-20	SLM	12/19/06 21:35	1680	33.77	14.62	
CW-20	SLM	12/19/06 22:35	1740	33.82	14.67	
CW-20	SLM	12/19/06 23:05	1770	33.86	14.71	
CW-20	SLM	12/19/06 23:35	1800	33.88	14.73	
CW-20	EMW	12/20/06 0:05	1830	33.88	14.73	
CW-20	EMW	12/20/06 0:35	1860	33.92	14.77	
CW-20	EMW	12/20/06 1:05	1890	33.94	14.79	
CW-20	EMW	12/20/06 1:35	1920	33.97	14.82	
CW-20	EMW	12/20/06 2:35	1980	33.90	14.75	
CW-20	SLM	12/20/06 3:05	2010	34.00	14.85	
CW-20	SRL	12/20/06 3:35	2040	34.00	14.85	
CW-20	SRL	12/20/06 4:05	2070	34.04	14.89	
CW-20	SRL	12/20/06 4:35	2100	34.05	14.90	
CW-20	SRL	12/20/06 5:05	2130	34.07	14.92	
CW-20	SRL	12/20/06 5:35	2160	34.10	14.95	
CW-20	SRL	12/20/06 6:35	2220	34.16	15.01	
CW-20	SRL	12/20/06 7:05	2250	34.16	15.01	
CW-20	SRL	12/20/06 7:35	2280	34.17	15.02	
CW-20	SRL	12/20/06 8:05	2310	34.18	15.03	
CW-20	SRL	12/20/06 8:35	2340	34.20	15.05	
CW-20	SRL	12/20/06 9:05	2370	34.22	15.07	
CW-20	SRL	12/20/06 9:35	2400	34.24	15.09	
CW-20	SRL	12/20/06 10:35	2460	34.26	15.11	
CW-20	SRL	12/20/06 11:05	2490	34.28	15.13	
CW-20	SRL	12/20/06 11:35	2520	34.28	15.13	
CW-20	SRL	12/20/06 12:05	2550	34.31	15.16	
CW-20	SRL	12/20/06 12:35	2580	34.31	15.16	
CW-20	SRL	12/20/06 13:05	2610	34.32	15.17	
CW-20	SRL	12/20/06 13:35	2640	34.34	15.19	
CW-20	SRL	12/20/06 14:35	2700	34.37	15.22	
CW-20	SRL	12/20/06 15:05	2730	34.38	15.23	
CW-20	EMW	12/20/06 15:35	2760	34.39	15.24	
CW-20	EMW	12/20/06 16:05	2790	34.41	15.26	
CW-20	EMW	12/20/06 16:35	2820	34.43	15.28	



**CW-20 Data Sheet**  
**CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-20	EMW	12/20/06 17:05	2850	34.45	15.30	
CW-20	EMW	12/20/06 17:35	2880	34.47	15.32	
CW-20	SRL	12/20/06 18:35	2940	34.50	15.35	
CW-20	SRL	12/20/06 19:05	2970	34.50	15.35	
CW-20	SRL	12/20/06 19:35	3000	34.54	15.39	
CW-20	SRL	12/20/06 20:05	3030	34.54	15.39	
CW-20	SRL	12/20/06 20:35	3060	34.55	15.40	
CW-20	EMW	12/20/06 21:05	3090	34.57	15.42	
CW-20	EMW	12/20/06 21:35	3120	34.57	15.42	
CW-20	EMW	12/20/06 22:35	3180	34.60	15.45	
CW-20	EMW	12/20/06 23:05	3210	34.63	15.48	
CW-20	EMW	12/20/06 23:35	3240	34.65	15.50	
CW-20	EMW	12/21/06 0:05	3270	34.66	15.51	
CW-20	EMW	12/21/06 0:35	3300	34.67	15.52	
CW-20	EMW	12/21/06 1:05	3330	34.69	15.54	
CW-20	EMW	12/21/06 1:35	3360	34.70	15.55	
CW-20	EMW	12/21/06 2:35	3420	34.73	15.58	
CW-20	SRL	12/21/06 3:05	3450	34.73	15.58	
CW-20	SRL	12/21/06 3:35	3480	34.75	15.60	
CW-20	SRL	12/21/06 4:05	3510	34.76	15.61	
CW-20	SRL	12/21/06 4:35	3540	34.76	15.61	
CW-20	SRL	12/21/06 5:05	3570	34.78	15.63	
CW-20	SRL	12/21/06 5:35	3600	34.82	15.67	
CW-20	SRL	12/21/06 6:35	3660	34.82	15.67	
CW-20	SRL	12/21/06 7:05	3690	34.83	15.68	
CW-20	SRL	12/21/06 7:35	3720	34.86	15.71	
CW-20	SRL	12/21/06 8:05	3750	34.87	15.72	Light rain began at 8:25
CW-20	SRL	12/21/06 8:35	3780	34.87	15.72	
CW-20	SRL	12/21/06 9:05	3810	34.89	15.74	
CW-20	SRL	12/21/06 9:35	3840	34.89	15.74	
CW-20	SRL	12/21/06 10:35	3900	34.90	15.75	
CW-20	SRL	12/21/06 11:05	3930	34.92	15.77	0.039" in rain gauge (not emptied)
CW-20	SRL	12/21/06 11:35	3960	34.93	15.78	
CW-20	SRL	12/21/06 12:05	3990	34.93	15.78	
CW-20	SRL	12/21/06 12:35	4020	34.93	15.78	
CW-20	SRL	12/21/06 13:05	4050	34.97	15.82	
CW-20	SRL	12/21/06 13:35	4080	34.98	15.83	
CW-20	SRL	12/21/06 14:35	4140	34.99	15.84	
CW-20	SRL	12/21/06 15:05	4170	35.00	15.85	
CW-20	EMW	12/21/06 15:35	4200	35.00	15.85	0.045" in rain gauge (not emptied)
CW-20	EMW	12/21/06 16:05	4230	35.00	15.85	
CW-20	EMW	12/21/06 16:35	4260	35.05	15.90	
CW-20	EMW	12/21/06 17:35	4320	35.11	15.96	
CW-20	EMW	12/21/06 18:03	4348	35.12	15.97	end test
CW-20	SLM	12/21/06 18:05	4350	24.55	5.40	begin recovery monitoring
CW-20	SLM	12/21/06 18:06	4351	20.78	1.63	
CW-20	SLM	12/21/06 18:07	4352	20.77	1.62	
CW-20	SLM	12/21/06 18:08	4353	20.77	1.62	
CW-20	SLM	12/21/06 18:09	4354	20.76	1.61	
CW-20	SLM	12/21/06 18:10	4355	20.70	1.55	
CW-20	SLM	12/21/06 18:11	4356	20.68	1.53	
CW-20	SLM	12/21/06 18:12	4357	20.67	1.52	
CW-20	SLM	12/21/06 18:13	4358	20.66	1.51	
CW-20	SLM	12/21/06 18:14	4359	20.65	1.50	

**CW-20 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-20	SLM	12/21/06 18:15	4360	20.64	1.49	
CW-20	SLM	12/21/06 18:16	4361	20.63	1.48	
CW-20	SLM	12/21/06 18:17	4362	20.61	1.46	
CW-20	SLM	12/21/06 18:18	4363	20.61	1.46	
CW-20	SLM	12/21/06 18:19	4364	20.61	1.46	
CW-20	SLM	12/21/06 18:20	4365	20.60	1.45	
CW-20	SLM	12/21/06 18:25	4370	20.58	1.43	
CW-20	SLM	12/21/06 18:30	4375	20.56	1.41	
CW-20	SLM	12/21/06 18:35	4380	20.52	1.37	
CW-20	SLM	12/21/06 18:40	4385	20.50	1.35	
CW-20	SLM	12/21/06 18:46	4391	20.46	1.31	
CW-20	SLM	12/21/06 18:50	4395	20.46	1.31	
CW-20	SLM	12/21/06 18:55	4400	20.44	1.29	
CW-20	SLM	12/21/06 19:00	4405	20.42	1.27	
CW-20	SLM	12/21/06 19:05	4410	20.40	1.25	
CW-20	SLM	12/21/06 19:35	4440	20.34	1.19	
CW-20	SLM	12/21/06 20:05	4470	20.25	1.10	
CW-20	SLM	12/21/06 20:35	4500	20.20	1.05	
CW-20	SLM	12/21/06 21:05	4530	20.15	1.00	
CW-20	SLM	12/21/06 21:35	4560	20.12	0.97	
CW-20	SLM	12/21/06 22:05	4590	20.11	0.96	
CW-20	SLM	12/21/06 23:05	4650	20.04	0.89	
CW-20	SLM	12/21/06 23:35	4680	20.00	0.85	
CW-20	SLM	12/22/06 0:05	4710	19.97	0.82	
CW-20	SLM	12/22/06 0:35	4740	19.92	0.77	
CW-20	SLM	12/22/06 1:05	4770	19.90	0.75	
CW-20	SLM	12/22/06 6:50	5115	19.70	0.55	
CW-20	SLM	12/22/06 7:05	5130	19.70	0.55	
CW-20	SLM	12/22/06 7:35	5160	19.68	0.53	
CW-20	SLM	12/22/06 8:05	5190	19.68	0.53	began sprinkling at 8:02
CW-20	SLM	12/22/06 8:35	5220	19.68	0.53	
CW-20	SLM	12/22/06 9:05	5250	19.68	0.53	stopped sprinkling at 9:00
CW-20	SLM	12/22/06 9:35	5280	19.68	0.53	
CW-20	SLM	12/22/06 10:35	5340	19.68	0.53	
CW-20	SLM	12/22/06 11:05	5370	19.68	0.53	
CW-20	SLM	12/22/06 11:35	5400	19.68	0.53	
CW-20	SLM	12/22/06 12:05	5430	19.68	0.53	
CW-20	SLM	12/22/06 12:35	5460	19.62	0.47	light drizzle began at 12:58
CW-20	SLM	12/22/06 13:05	5490	19.60	0.45	
CW-20	SLM	12/22/06 13:35	5520	19.60	0.45	
CW-20	SLM	12/22/06 15:30	5635	19.55	0.40	
CW-20	SLM	12/22/06 16:41	5706	19.51	0.36	Emptied rain gauge at 16:42 = 0.24"

feet below TOC -

**MW-7 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-7	EMW	12/18/06 17:35	0	23.21		start test
MW-7	SLM	12/18/06 21:53	258	23.25	0.04	
MW-7	SRL	12/19/06 1:56	501	23.28	0.07	
MW-7	SRL	12/19/06 5:52	737	23.30	0.09	
MW-7	EMW	12/19/06 10:31	1016	23.23	0.02	
MW-7	EMW	12/19/06 13:53	1218	23.23	0.02	
MW-7	EMW	12/19/06 17:54	1459	23.24	0.03	
MW-7	SRL	12/19/06 20:51	1636	23.25	0.04	
MW-7	SRL	12/20/06 1:52	1937	23.30	0.09	
MW-7	SRL	12/20/06 5:48	2173	23.32	0.11	
MW-7	EMW	12/20/06 9:54	2419	23.27	0.06	
MW-7	EMW	12/20/06 13:52	2657	23.26	0.05	
MW-7	EMW	12/20/06 17:55	2900	23.26	0.05	
MW-7	SRL	12/20/06 21:49	3134	23.25	0.04	
MW-7	SRL	12/21/06 1:49	3374	23.32	0.11	
MW-7	SRL	12/21/06 5:48	3613	23.28	0.07	
MW-7	EMW	12/21/06 9:58	3863	23.26	0.05	
MW-7	EMW	12/21/06 13:53	4098	23.27	0.06	
MW-7	EMW	12/21/06 16:56	4281	23.30	0.09	
MW-7	SRL	12/21/06 22:18	4603	23.28	0.07	First recovery reading
MW-7	SRL	12/22/06 1:19	4784	23.33	0.12	
MW-7	EMW	12/22/06 6:27	5092	23.32	0.11	
MW-7	EMW	12/22/06 10:05	5310	23.31	0.10	
MW-7	EMW	12/22/06 13:53	5538	23.30	0.09	
MW-7	SLM	12/22/06 16:06	5671	23.32	0.11	

feet below TOC - Feet below top of casing

**MW-8 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-8	EMW	12/18/06 17:35	0	15.62		start test
MW-8	SLM	12/18/06 21:50	255	16.07	0.45	
MW-8	SRL	12/19/06 1:50	495	16.32	0.70	
MW-8	SRL	12/19/06 5:50	735	16.46	0.84	
MW-8	EMW	12/19/06 10:20	1005	16.56	0.94	
MW-8	EMW	12/19/06 13:50	1215	16.64	1.02	
MW-8	EMW	12/19/06 17:52	1457	16.71	1.09	
MW-8	SRL	12/19/06 20:48	1633	16.84	1.22	
MW-8	SRL	12/20/06 1:50	1935	16.88	1.26	
MW-8	SRL	12/20/06 5:46	2171	16.92	1.30	
MW-8	EMW	12/20/06 9:51	2416	16.98	1.36	
MW-8	EMW	12/20/06 13:46	2651	16.95	1.33	
MW-8	EMW	12/20/06 17:48	2893	16.99	1.37	
MW-8	SRL	12/20/06 21:47	3132	17.06	1.44	
MW-8	SRL	12/21/06 1:47	3372	17.09	1.47	
MW-8	SRL	12/21/06 5:47	3612	17.13	1.51	
MW-8	EMW	12/21/06 9:49	3854	17.19	1.57	
MW-8	EMW	12/21/06 13:46	4091	17.21	1.59	
MW-8	EMW	12/21/06 16:49	4274	17.21	1.59	
MW-8	SRL	12/21/06 22:16	4601	16.74	1.12	First recovery reading
MW-8	SRL	12/22/06 1:17	4782	16.60	0.98	
MW-8	EMW	12/22/06 6:43	5108	16.35	0.73	
MW-8	EMW	12/22/06 9:46	5291	16.31	0.69	
MW-8	EMW	12/22/06 13:46	5531	16.20	0.58	
MW-8	SLM	12/22/06 15:49	5654	16.18	0.56	

feet below TOC - Feet below top of casing

**MW-29 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-29	SLM	12/18/06 17:35	0	13.77		start test
MW-29	SLM	12/18/06 19:55	140	13.77	0.00	
MW-29	SLM	12/18/06 21:45	250	13.77	0.00	
MW-29	SRL	12/19/06 1:44	489	13.77	0.00	
MW-29	SRL	12/19/06 5:43	728	13.78	0.01	
MW-29	EMW	12/19/06 9:52	977	13.77	0.00	
MW-29	EMW	12/19/06 13:47	1212	13.77	0.00	
MW-29	EMW	12/19/06 17:48	1453	13.77	0.00	
MW-29	SRL	12/19/06 20:43	1628	13.78	0.01	
MW-29	SRL	12/20/06 1:43	1928	13.78	0.01	
MW-29	SRL	12/20/06 5:42	2167	13.79	0.02	
MW-29	EMW	12/20/06 9:47	2412	13.79	0.02	
MW-29	EMW	12/20/06 13:48	2653	13.79	0.02	
MW-29	EMW	12/20/06 17:50	2895	13.79	0.02	
MW-29	SRL	12/20/06 21:43	3128	13.79	0.02	
MW-29	SRL	12/21/06 1:43	3368	13.79	0.02	
MW-29	SRL	12/21/06 5:43	3608	13.78	0.01	
MW-29	EMW	12/21/06 9:53	3858	13.79	0.02	
MW-29	EMW	12/21/06 13:48	4093	13.78	0.01	
MW-29	EMW	12/21/06 16:51	4276	13.56	-0.21	
MW-29	SRL	12/21/06 22:12	4597	13.58	-0.19	First recovery reading
MW-29	SRL	12/22/06 1:12	4777	13.60	-0.17	
MW-29	EMW	12/22/06 6:46	5111	13.57	-0.20	
MW-29	EMW	12/22/06 9:49	5294	13.56	-0.21	
MW-29	EMW	12/22/06 13:48	5533	13.56	-0.21	

feet below TOC - Feet below top of casing

**MW-34S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-34S	EMW	12/18/06 17:35	0	17.50		start test
MW-34S	SLM	12/18/06 22:10	275	17.52	0.02	
MW-34S	SRL	12/19/06 2:10	515	17.60	0.10	
MW-34S	SRL	12/19/06 6:12	757	17.91	0.41	
MW-34S	EMW	12/19/06 9:59	984	17.97	0.47	
MW-34S	EMW	12/19/06 14:15	1240	17.81	0.31	
MW-34S	EMW	12/19/06 18:10	1475	17.74	0.24	
MW-34S	SRL	12/19/06 22:06	1711	17.71	0.21	
MW-34S	SRL	12/20/06 2:12	1957	17.71	0.21	
MW-34S	SRL	12/20/06 6:02	2187	17.72	0.22	
MW-34S	EMW	12/20/06 10:10	2435	17.69	0.19	
MW-34S	EMW	12/20/06 14:12	2677	17.68	0.18	
MW-34S	EMW	12/20/06 18:08	2913	17.70	0.20	
MW-34S	SRL	12/20/06 22:05	3150	17.70	0.20	
MW-34S	SRL	12/21/06 2:04	3389	17.72	0.22	
MW-34S	SRL	12/21/06 6:06	3631	17.75	0.25	
MW-34S	EMW	12/21/06 10:13	3878	17.73	0.23	
MW-34S	EMW	12/21/06 14:05	4110	17.74	0.24	
MW-34S	EMW	12/21/06 17:06	4291	17.74	0.24	
MW-34S	SRL	12/21/06 22:34	4619	17.75	0.25	First recovery reading
MW-34S	SRL	12/22/06 1:35	4800	17.74	0.24	
MW-34S	EMW	12/22/06 6:19	5084	17.73	0.23	
MW-34S	EMW	12/22/06 10:17	5322	17.73	0.23	
MW-34S	EMW	12/22/06 14:06	5551	17.73	0.23	
MW-34S	SLM	12/22/06 16:17	5682	17.68	0.18	

feet below TOC - Feet below top of casing

**MW-34D Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-34D	EMW	12/18/06 17:35	0	17.49		start test
MW-34D	SLM	12/18/06 22:09	274	17.50	0.01	
MW-34D	SRL	12/19/06 2:09	514	17.75	0.26	
MW-34D	SRL	12/19/06 6:11	756	18.10	0.61	
MW-34D	EMW	12/19/06 9:58	983	17.94	0.45	
MW-34D	EMW	12/19/06 14:14	1239	17.78	0.29	
MW-34D	EMW	12/19/06 18:10	1475	17.70	0.21	
MW-34D	SRL	12/19/06 22:04	1709	17.68	0.19	
MW-34D	SRL	12/20/06 2:10	1955	17.73	0.24	
MW-34D	SRL	12/20/06 6:02	2187	17.70	0.21	
MW-34D	EMW	12/20/06 10:09	2434	17.68	0.19	
MW-34D	EMW	12/20/06 14:11	2676	17.68	0.19	
MW-34D	EMW	12/20/06 18:08	2913	17.71	0.22	
MW-34D	SRL	12/20/06 22:04	3149	17.72	0.23	
MW-34D	SRL	12/21/06 2:03	3388	17.73	0.24	
MW-34D	SRL	12/21/06 6:05	3630	17.70	0.21	
MW-34D	EMW	12/21/06 10:13	3878	17.70	0.21	
MW-34D	EMW	12/21/06 14:04	4109	17.70	0.21	
MW-34D	EMW	12/21/06 17:06	4291	17.71	0.22	
MW-34D	SRL	12/21/06 22:34	4619	17.70	0.21	First recovery reading
MW-34D	SRL	12/22/06 1:34	4799	17.70	0.21	
MW-34D	EMW	12/22/06 6:19	5084	17.70	0.21	
MW-34D	EMW	12/22/06 10:17	5322	17.70	0.21	
MW-34D	EMW	12/22/06 14:06	5551	17.70	0.21	
MW-34D	SLM	12/22/06 16:18	5683	17.66	0.17	

feet below TOC - Feet below top of casing

**MW-35S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-35S	EMW	12/18/06 17:35	0	16.90		start test
MW-35S	SLM	12/18/06 22:13	278	16.92	0.02	
MW-35S	SRL	12/19/06 2:13	518	17.08	0.18	
MW-35S	SRL	12/19/06 6:14	759	17.21	0.31	
MW-35S	EMW	12/19/06 9:59	984	17.21	0.31	
MW-35S	EMW	12/19/06 14:11	1236	17.27	0.37	
MW-35S	EMW	12/19/06 18:12	1477	17.20	0.30	
MW-35S	SRL	12/19/06 22:07	1712	17.12	0.22	
MW-35S	SRL	12/20/06 2:14	1959	17.15	0.25	
MW-35S	SRL	12/20/06 6:04	2189	17.13	0.23	
MW-35S	EMW	12/20/06 10:06	2431	17.14	0.24	
MW-35S	EMW	12/20/06 14:09	2674	17.12	0.22	
MW-35S	EMW	12/20/06 18:05	2910	17.13	0.23	
MW-35S	SRL	12/20/06 22:02	3147	17.12	0.22	
MW-35S	SRL	12/21/06 2:06	3391	17.13	0.23	
MW-35S	SRL	12/21/06 6:03	3628	17.13	0.23	
MW-35S	EMW	12/21/06 10:11	3876	17.14	0.24	
MW-35S	EMW	12/21/06 14:02	4107	17.14	0.24	
MW-35S	EMW	12/21/06 17:04	4289	17.14	0.24	
MW-35S	SRL	12/21/06 22:31	4616	17.15	0.25	First recovery reading
MW-35S	SRL	12/22/06 1:31	4796	17.15	0.25	
MW-35S	EMW	12/22/06 6:13	5078	17.15	0.25	
MW-35S	EMW	12/22/06 10:15	5320	17.15	0.25	
MW-35S	EMW	12/22/06 14:04	5549	17.14	0.24	
MW-35S	SLM	12/22/06 16:13	5678	17.12	0.22	

feet below TOC - Feet below top of casing



**MW-35D Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-35D	EMW	12/18/06 17:35	0	17.07		start test
MW-35D	SLM	12/18/06 22:13	278	17.09	0.02	
MW-35D	SRL	12/19/06 2:12	517	17.28	0.21	
MW-35D	SRL	12/19/06 6:14	759	17.65	0.58	
MW-35D	EMW	12/19/06 10:02	987	17.56	0.49	
MW-35D	EMW	12/19/06 14:12	1237	17.35	0.28	
MW-35D	EMW	12/19/06 18:12	1477	17.29	0.22	
MW-35D	SRL	12/19/06 22:08	1713	17.27	0.20	
MW-35D	SRL	12/20/06 2:15	1960	17.31	0.24	
MW-35D	SRL	12/20/06 6:05	2190	17.25	0.18	
MW-35D	EMW	12/20/06 10:08	2433	17.26	0.19	
MW-35D	EMW	12/20/06 14:09	2674	17.26	0.19	
MW-35D	EMW	12/20/06 18:05	2910	17.26	0.19	
MW-35D	SRL	12/20/06 22:03	3148	17.26	0.19	
MW-35D	SRL	12/21/06 2:07	3392	17.26	0.19	
MW-35D	SRL	12/21/06 6:04	3629	17.28	0.21	
MW-35D	EMW	12/21/06 10:11	3876	17.26	0.19	
MW-35D	EMW	12/21/06 14:03	4108	17.28	0.21	
MW-35D	EMW	12/21/06 17:05	4290	17.28	0.21	
MW-35D	SRL	12/21/06 22:32	4617	17.29	0.22	First recovery reading
MW-35D	SRL	12/22/06 1:32	4797	17.29	0.22	
MW-35D	EMW	12/22/06 6:14	5079	17.30	0.23	
MW-35D	EMW	12/22/06 10:15	5320	17.30	0.23	
MW-35D	EMW	12/22/06 14:04	5549	17.30	0.23	
MW-35D	SLM	12/22/06 16:15	5680	17.25	0.18	

feet below TOC - Feet below top of casing

**MW-37S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-37S	SLM	12/18/06 17:35	0	16.53		start test
MW-37S	SLM	12/18/06 18:37	62	16.59	0.06	
MW-37S	SLM	12/18/06 19:34	119	16.65	0.12	
MW-37S	SLM	12/18/06 20:43	188	16.71	0.18	
MW-37S	SLM	12/18/06 21:36	241	16.74	0.21	
MW-37S	SRL	12/18/06 22:39	304	16.82	0.29	
MW-37S	SRL	12/18/06 23:08	333	16.82	0.29	
MW-37S	SRL	12/18/06 23:36	361	16.83	0.30	
MW-37S	SRL	12/19/06 0:36	421	16.86	0.33	
MW-37S	SRL	12/19/06 1:36	481	16.90	0.37	
MW-37S	SRL	12/19/06 2:35	540	16.95	0.42	
MW-37S	SRL	12/19/06 3:35	600	16.96	0.43	
MW-37S	SRL	12/19/06 4:36	661	16.99	0.46	
MW-37S	SRL	12/19/06 5:35	720	17.02	0.49	
MW-37S	EMW	12/19/06 6:35	780	17.03	0.50	
MW-37S	EMW	12/19/06 7:35	840	17.03	0.50	
MW-37S	EMW	12/19/06 8:35	900	17.03	0.50	
MW-37S	EMW	12/19/06 9:35	960	17.06	0.53	
MW-37S	EMW	12/19/06 10:43	1028	17.06	0.53	
MW-37S	EMW	12/19/06 11:37	1082	17.09	0.56	
MW-37S	EMW	12/19/06 12:35	1140	17.09	0.56	
MW-37S	EMW	12/19/06 13:35	1200	17.16	0.63	
MW-37S	EMW	12/19/06 15:36	1321	17.27	0.74	
MW-37S	EMW	12/19/06 16:36	1381	17.28	0.75	
MW-37S	EMW	12/19/06 17:37	1442	17.23	0.70	
MW-37S	SRL	12/19/06 18:35	1500	17.25	0.72	
MW-37S	SRL	12/19/06 19:35	1560	17.28	0.75	
MW-37S	SRL	12/19/06 20:35	1620	17.28	0.75	
MW-37S	SRL	12/19/06 21:35	1680	17.33	0.80	
MW-37S	SRL	12/19/06 22:35	1740	17.32	0.79	
MW-37S	SRL	12/19/06 23:35	1800	17.35	0.82	
MW-37S	SRL	12/20/06 0:35	1860	17.35	0.82	
MW-37S	SRL	12/20/06 1:35	1920	17.36	0.83	
MW-37S	SRL	12/20/06 2:35	1980	17.40	0.87	
MW-37S	SRL	12/20/06 3:35	2040	17.38	0.85	
MW-37S	SRL	12/20/06 4:35	2100	17.40	0.87	
MW-37S	SRL	12/20/06 5:35	2160	17.41	0.88	
MW-37S	EMW	12/20/06 6:35	2220	17.44	0.91	
MW-37S	EMW	12/20/06 7:36	2281	17.44	0.91	
MW-37S	EMW	12/20/06 8:36	2341	17.45	0.92	
MW-37S	EMW	12/20/06 9:35	2400	17.46	0.93	
MW-37S	EMW	12/20/06 10:35	2460	17.48	0.95	
MW-37S	EMW	12/20/06 11:35	2520	17.48	0.95	
MW-37S	EMW	12/20/06 12:35	2580	17.48	0.95	
MW-37S	EMW	12/20/06 13:35	2640	17.49	0.96	
MW-37S	EMW	12/20/06 14:35	2700	17.58	1.05	
MW-37S	EMW	12/20/06 15:37	2762	17.58	1.05	
MW-37S	EMW	12/20/06 16:36	2821	17.58	1.05	
MW-37S	EMW	12/20/06 17:36	2881	17.58	1.05	
MW-37S	SRL	12/20/06 18:35	2940	17.55	1.02	
MW-37S	SRL	12/20/06 19:35	3000	17.56	1.03	

**MW-37S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-37S	SRL	12/20/06 20:35	3060	17.57	1.04	
MW-37S	SRL	12/20/06 21:35	3120	17.58	1.05	
MW-37S	SRL	12/20/06 22:35	3180	17.57	1.04	
MW-37S	SRL	12/20/06 23:35	3240	17.62	1.09	
MW-37S	SRL	12/21/06 0:35	3300	17.60	1.07	
MW-37S	SRL	12/21/06 1:35	3360	17.60	1.07	
MW-37S	SRL	12/21/06 2:35	3420	17.62	1.09	
MW-37S	SRL	12/21/06 3:35	3480	17.64	1.11	
MW-37S	SRL	12/21/06 4:35	3540	17.64	1.11	
MW-37S	SRL	12/21/06 5:35	3600	17.65	1.12	
MW-37S	EMW	12/21/06 6:35	3660	17.65	1.12	
MW-37S	EMW	12/21/06 7:35	3720	17.65	1.12	
MW-37S	EMW	12/21/06 8:38	3783	17.69	1.16	
MW-37S	EMW	12/21/06 9:37	3842	17.69	1.16	
MW-37S	EMW	12/21/06 10:35	3900	17.70	1.17	
MW-37S	EMW	12/21/06 11:35	3960	17.70	1.17	
MW-37S	EMW	12/21/06 12:35	4020	17.70	1.17	
MW-37S	EMW	12/21/06 14:36	4141	17.78	1.25	
MW-37S	EMW	12/21/06 15:37	4202	17.73	1.20	
MW-37S	EMW	12/21/06 16:37	4262	17.75	1.22	
MW-37S	SLM	12/21/06 19:10	4415	17.71	1.18	1ST RECOVERY
MW-37S	SRL	12/21/06 20:05	4470	17.63	1.10	
MW-37S	SRL	12/21/06 21:05	4530	17.57	1.04	
MW-37S	SRL	12/21/06 22:05	4590	17.52	0.99	
MW-37S	SRL	12/21/06 23:05	4650	17.48	0.95	
MW-37S	SRL	12/22/06 0:05	4710	17.44	0.91	
MW-37S	SRL	12/22/06 1:05	4770	17.39	0.86	
MW-37S	EMW	12/22/06 6:52	5117	17.23	0.70	
MW-37S	EMW	12/22/06 7:36	5161	17.23	0.70	
MW-37S	EMW	12/22/06 8:36	5221	17.23	0.70	
MW-37S	EMW	12/22/06 9:36	5281	17.24	0.71	
MW-37S	EMW	12/22/06 10:36	5341	17.20	0.67	
MW-37S	EMW	12/22/06 11:36	5401	17.20	0.67	
MW-37S	EMW	12/22/06 12:36	5461	17.20	0.67	
MW-37S	EMW	12/22/06 13:36	5521	17.20	0.67	
MW-37S	SLM	12/22/06 15:31	5636	17.13	0.60	

feet below TOC - Feet below top of casing

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
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12/18/2006	16:47:14	0	16.59
12/18/2006	16:57:14	10	16.592
12/18/2006	17:07:14	20	16.592
12/18/2006	17:17:14	30	16.592
12/18/2006	17:27:14	40	16.59
12/18/2006	17:37:14	50	16.973
12/18/2006	17:47:14	60	17.064
12/18/2006	17:57:14	70	17.056
12/18/2006	18:07:14	80	17.092
12/18/2006	18:17:14	90	17.148
12/18/2006	18:27:14	100	17.157
12/18/2006	18:37:14	110	17.174
12/18/2006	18:47:14	120	17.194
12/18/2006	18:57:14	130	17.213
12/18/2006	19:07:14	140	17.257
12/18/2006	19:17:14	150	17.304
12/18/2006	19:27:14	160	17.285
12/18/2006	19:37:14	170	17.288
12/18/2006	19:47:14	180	17.299
12/18/2006	19:57:14	190	17.314
12/18/2006	20:07:14	200	17.327
12/18/2006	20:17:14	210	17.34
12/18/2006	20:27:14	220	17.351
12/18/2006	20:37:14	230	17.366
12/18/2006	20:47:14	240	17.375
12/18/2006	20:57:14	250	17.386
12/18/2006	21:07:14	260	17.399
12/18/2006	21:17:14	270	17.407
12/18/2006	21:27:14	280	17.418
12/18/2006	21:37:14	290	17.429
12/18/2006	21:47:14	300	17.438
12/18/2006	21:57:14	310	17.451
12/18/2006	22:07:14	320	17.457
12/18/2006	22:17:14	330	17.466
12/18/2006	22:27:14	340	17.477
12/18/2006	22:37:14	350	17.485
12/18/2006	22:47:14	360	17.494
12/18/2006	22:57:14	370	17.503
12/18/2006	23:07:14	380	17.511
12/18/2006	23:17:14	390	17.52
12/18/2006	23:27:14	400	17.526
12/18/2006	23:37:14	410	17.535
12/18/2006	23:47:14	420	17.541
12/18/2006	23:57:14	430	17.55
12/19/2006	0:07:14	440	17.557
12/19/2006	0:17:14	450	17.565
12/19/2006	0:27:14	460	17.572
12/19/2006	0:37:14	470	17.578
12/19/2006	0:47:14	480	17.583
12/19/2006	0:57:14	490	17.591

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/19/2006	1:07:14	500	17.6
12/19/2006	1:17:14	510	17.604
12/19/2006	1:27:14	520	17.611
12/19/2006	1:37:14	530	17.621
12/19/2006	1:47:14	540	17.626
12/19/2006	1:57:14	550	17.634
12/19/2006	2:07:14	560	17.641
12/19/2006	2:17:14	570	17.647
12/19/2006	2:27:14	580	17.654
12/19/2006	2:37:14	590	17.658
12/19/2006	2:47:14	600	17.663
12/19/2006	2:57:14	610	17.667
12/19/2006	3:07:14	620	17.678
12/19/2006	3:17:14	630	17.68
12/19/2006	3:27:14	640	17.688
12/19/2006	3:37:14	650	17.693
12/19/2006	3:47:14	660	17.699
12/19/2006	3:57:14	670	17.704
12/19/2006	4:07:14	680	17.71
12/19/2006	4:17:14	690	17.717
12/19/2006	4:27:14	700	17.723
12/19/2006	4:37:14	710	17.73
12/19/2006	4:47:14	720	17.732
12/19/2006	4:57:14	730	17.738
12/19/2006	5:07:14	740	17.745
12/19/2006	5:17:14	750	17.753
12/19/2006	5:27:14	760	17.756
12/19/2006	5:37:14	770	17.764
12/19/2006	5:47:14	780	17.768
12/19/2006	5:57:14	790	17.771
12/19/2006	6:07:14	800	17.779
12/19/2006	6:17:14	810	17.781
12/19/2006	6:27:14	820	17.792
12/19/2006	6:37:14	830	17.784
12/19/2006	6:47:14	840	17.786
12/19/2006	6:57:14	850	17.792
12/19/2006	7:07:14	860	17.799
12/19/2006	7:17:14	870	17.801
12/19/2006	7:27:14	880	17.807
12/19/2006	7:37:14	890	17.814
12/19/2006	7:47:14	900	17.818
12/19/2006	7:57:14	910	17.825
12/19/2006	8:07:14	920	17.827
12/19/2006	8:17:14	930	17.833
12/19/2006	8:27:14	940	17.836
12/19/2006	8:37:14	950	17.844
12/19/2006	8:47:14	960	17.848
12/19/2006	8:57:14	970	17.853
12/19/2006	9:07:14	980	17.859
12/19/2006	9:17:14	990	17.859

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	9:27:14	1000	17.866
12/19/2006	9:37:14	1010	17.87
12/19/2006	9:47:14	1020	17.875
12/19/2006	9:57:14	1030	17.874
12/19/2006	10:07:14	1040	17.881
12/19/2006	10:17:14	1050	17.887
12/19/2006	10:27:14	1060	17.888
12/19/2006	10:37:14	1070	17.89
12/19/2006	10:47:14	1080	17.894
12/19/2006	10:57:14	1090	17.898
12/19/2006	11:07:14	1100	17.9
12/19/2006	11:17:14	1110	17.905
12/19/2006	11:27:14	1120	17.907
12/19/2006	11:37:14	1130	17.912
12/19/2006	11:47:14	1140	17.911
12/19/2006	11:57:14	1150	17.918
12/19/2006	12:07:14	1160	17.922
12/19/2006	12:17:14	1170	17.924
12/19/2006	12:27:14	1180	17.928
12/19/2006	12:37:14	1190	17.933
12/19/2006	12:47:14	1200	17.937
12/19/2006	12:57:14	1210	17.939
12/19/2006	13:07:14	1220	17.944
12/19/2006	13:17:14	1230	17.95
12/19/2006	13:27:14	1240	17.951
12/19/2006	13:37:14	1250	17.952
12/19/2006	13:47:14	1260	17.952
12/19/2006	13:57:14	1270	17.957
12/19/2006	14:07:14	1280	17.959
12/19/2006	14:17:14	1290	17.963
12/19/2006	14:27:14	1300	17.967
12/19/2006	14:37:14	1310	17.967
12/19/2006	14:47:14	1320	17.983
12/19/2006	14:57:14	1330	17.989
12/19/2006	15:07:14	1340	17.998
12/19/2006	15:17:14	1350	18
12/19/2006	15:27:14	1360	17.993
12/19/2006	15:37:14	1370	17.991
12/19/2006	15:47:14	1380	18.004
12/19/2006	15:57:14	1390	17.998
12/19/2006	16:07:14	1400	26.845
12/19/2006	16:17:14	1410	73.969
12/19/2006	16:27:14	1420	73.968
12/19/2006	16:37:14	1430	73.965
12/19/2006	16:47:14	1440	73.967
12/19/2006	16:57:14	1450	73.966
12/19/2006	17:07:14	1460	73.966
12/19/2006	17:17:14	1470	73.969
12/19/2006	17:27:14	1480	73.969
12/19/2006	17:37:14	1490	18.088

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	17:47:14	1500	18.065
12/19/2006	17:57:14	1510	18.059
12/19/2006	18:07:14	1520	18.06
12/19/2006	18:17:14	1530	18.061
12/19/2006	18:27:14	1540	18.064
12/19/2006	18:37:14	1550	18.093
12/19/2006	18:47:14	1560	18.122
12/19/2006	18:57:14	1570	18.142
12/19/2006	19:07:14	1580	18.158
12/19/2006	19:17:14	1590	18.121
12/19/2006	19:27:14	1600	18.115
12/19/2006	19:37:14	1610	18.108
12/19/2006	19:47:14	1620	18.102
12/19/2006	19:57:14	1630	18.102
12/19/2006	20:07:14	1640	18.103
12/19/2006	20:17:14	1650	18.103
12/19/2006	20:27:14	1660	18.105
12/19/2006	20:37:14	1670	18.101
12/19/2006	20:47:14	1680	18.103
12/19/2006	20:57:14	1690	18.105
12/19/2006	21:07:14	1700	18.103
12/19/2006	21:17:14	1710	18.105
12/19/2006	21:27:14	1720	18.11
12/19/2006	21:37:14	1730	18.11
12/19/2006	21:47:14	1740	18.114
12/19/2006	21:57:14	1750	18.112
12/19/2006	22:07:14	1760	18.112
12/19/2006	22:17:14	1770	18.114
12/19/2006	22:27:14	1780	18.116
12/19/2006	22:37:14	1790	18.114
12/19/2006	22:47:14	1800	18.116
12/19/2006	22:57:14	1810	18.116
12/19/2006	23:07:14	1820	18.121
12/19/2006	23:17:14	1830	18.121
12/19/2006	23:27:14	1840	18.123
12/19/2006	23:37:14	1850	18.127
12/19/2006	23:47:14	1860	18.129
12/19/2006	23:57:14	1870	18.131
12/20/2006	0:07:14	1880	18.13
12/20/2006	0:17:14	1890	18.136
12/20/2006	0:27:14	1900	18.136
12/20/2006	0:37:14	1910	18.134
12/20/2006	0:47:14	1920	18.138
12/20/2006	0:57:14	1930	18.14
12/20/2006	1:07:14	1940	18.143
12/20/2006	1:17:14	1950	18.145
12/20/2006	1:27:14	1960	18.147
12/20/2006	1:37:14	1970	18.145
12/20/2006	1:47:14	1980	18.149
12/20/2006	1:57:14	1990	18.151

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/20/2006	2:07:14	2000	18.151
12/20/2006	2:17:14	2010	18.153
12/20/2006	2:27:14	2020	18.156
12/20/2006	2:37:14	2030	18.156
12/20/2006	2:47:14	2040	18.156
12/20/2006	2:57:14	2050	18.158
12/20/2006	3:07:14	2060	18.16
12/20/2006	3:17:14	2070	18.163
12/20/2006	3:27:14	2080	18.164
12/20/2006	3:37:14	2090	18.167
12/20/2006	3:47:14	2100	18.167
12/20/2006	3:57:14	2110	18.169
12/20/2006	4:07:14	2120	18.171
12/20/2006	4:17:14	2130	18.173
12/20/2006	4:27:14	2140	18.173
12/20/2006	4:37:14	2150	18.178
12/20/2006	4:47:14	2160	18.18
12/20/2006	4:57:14	2170	18.182
12/20/2006	5:07:14	2180	18.182
12/20/2006	5:17:14	2190	18.18
12/20/2006	5:27:14	2200	18.186
12/20/2006	5:37:14	2210	18.189
12/20/2006	5:47:14	2220	18.191
12/20/2006	5:57:14	2230	18.191
12/20/2006	6:07:14	2240	18.195
12/20/2006	6:17:14	2250	18.197
12/20/2006	6:27:14	2260	18.199
12/20/2006	6:37:14	2270	18.199
12/20/2006	6:47:14	2280	18.202
12/20/2006	6:57:14	2290	18.204
12/20/2006	7:07:14	2300	18.21
12/20/2006	7:17:14	2310	18.208
12/20/2006	7:27:14	2320	18.212
12/20/2006	7:37:14	2330	18.212
12/20/2006	7:47:14	2340	18.21
12/20/2006	7:57:14	2350	18.212
12/20/2006	8:07:14	2360	18.217
12/20/2006	8:17:14	2370	18.217
12/20/2006	8:27:14	2380	18.223
12/20/2006	8:37:14	2390	18.223
12/20/2006	8:47:14	2400	18.223
12/20/2006	8:57:14	2410	18.223
12/20/2006	9:07:14	2420	18.227
12/20/2006	9:17:14	2430	18.23
12/20/2006	9:27:14	2440	18.232
12/20/2006	9:37:14	2450	18.221
12/20/2006	9:47:14	2460	18.219
12/20/2006	9:57:14	2470	18.221
12/20/2006	10:07:14	2480	18.223
12/20/2006	10:17:14	2490	18.223



# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/20/2006	10:27:14	2500	18.225
12/20/2006	10:37:14	2510	18.228
12/20/2006	10:47:14	2520	18.23
12/20/2006	10:57:14	2530	18.23
12/20/2006	11:07:14	2540	18.232
12/20/2006	11:17:14	2550	18.232
12/20/2006	11:27:14	2560	18.232
12/20/2006	11:37:14	2570	18.234
12/20/2006	11:47:14	2580	18.238
12/20/2006	11:57:14	2590	18.234
12/20/2006	12:07:14	2600	18.238
12/20/2006	12:17:14	2610	18.24
12/20/2006	12:27:14	2620	18.238
12/20/2006	12:37:14	2630	18.243
12/20/2006	12:47:14	2640	18.245
12/20/2006	12:57:14	2650	18.245
12/20/2006	13:07:14	2660	18.247
12/20/2006	13:17:14	2670	18.245
12/20/2006	13:27:14	2680	18.25
12/20/2006	13:37:14	2690	18.249
12/20/2006	13:47:14	2700	18.252
12/20/2006	13:57:14	2710	18.254
12/20/2006	14:07:14	2720	18.251
12/20/2006	14:17:14	2730	18.253
12/20/2006	14:27:14	2740	18.258
12/20/2006	14:37:14	2750	18.258
12/20/2006	14:47:14	2760	18.26
12/20/2006	14:57:14	2770	18.26
12/20/2006	15:07:14	2780	18.263
12/20/2006	15:17:14	2790	18.265
12/20/2006	15:27:14	2800	18.265
12/20/2006	15:37:14	2810	18.267
12/20/2006	15:47:14	2820	18.267
12/20/2006	15:57:14	2830	18.269
12/20/2006	16:07:14	2840	18.273
12/20/2006	16:17:14	2850	18.273
12/20/2006	16:27:14	2860	18.276
12/20/2006	16:37:14	2870	18.278
12/20/2006	16:47:14	2880	18.276
12/20/2006	16:57:14	2890	18.28
12/20/2006	17:07:14	2900	18.282
12/20/2006	17:17:14	2910	18.284
12/20/2006	17:27:14	2920	18.284
12/20/2006	17:37:14	2930	18.284
12/20/2006	17:47:14	2940	18.284
12/20/2006	17:57:14	2950	18.286
12/20/2006	18:07:14	2960	18.291
12/20/2006	18:17:14	2970	18.293
12/20/2006	18:27:14	2980	18.293
12/20/2006	18:37:14	2990	18.295

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/20/2006	18:47:14	3000	18.297
12/20/2006	18:57:14	3010	18.302
12/20/2006	19:07:14	3020	18.299
12/20/2006	19:17:14	3030	18.302
12/20/2006	19:27:14	3040	18.306
12/20/2006	19:37:14	3050	18.306
12/20/2006	19:47:14	3060	18.308
12/20/2006	19:57:14	3070	18.308
12/20/2006	20:07:14	3080	18.308
12/20/2006	20:17:14	3090	18.312
12/20/2006	20:27:14	3100	18.31
12/20/2006	20:37:14	3110	18.312
12/20/2006	20:47:14	3120	18.317
12/20/2006	20:57:14	3130	18.314
12/20/2006	21:07:14	3140	18.319
12/20/2006	21:17:14	3150	18.321
12/20/2006	21:27:14	3160	18.321
12/20/2006	21:37:14	3170	18.323
12/20/2006	21:47:14	3180	18.323
12/20/2006	21:57:14	3190	18.323
12/20/2006	22:07:14	3200	18.325
12/20/2006	22:17:14	3210	18.325
12/20/2006	22:27:14	3220	18.33
12/20/2006	22:37:14	3230	18.332
12/20/2006	22:47:14	3240	18.33
12/20/2006	22:57:14	3250	18.332
12/20/2006	23:07:14	3260	18.334
12/20/2006	23:17:14	3270	18.336
12/20/2006	23:27:14	3280	18.336
12/20/2006	23:37:14	3290	18.336
12/20/2006	23:47:14	3300	18.338
12/20/2006	23:57:14	3310	18.338
12/21/2006	0:07:14	3320	18.34
12/21/2006	0:17:14	3330	18.345
12/21/2006	0:27:14	3340	18.343
12/21/2006	0:37:14	3350	18.345
12/21/2006	0:47:14	3360	18.347
12/21/2006	0:57:14	3370	18.347
12/21/2006	1:07:14	3380	18.347
12/21/2006	1:17:14	3390	18.349
12/21/2006	1:27:14	3400	18.349
12/21/2006	1:37:14	3410	18.351
12/21/2006	1:47:14	3420	18.351
12/21/2006	1:57:14	3430	18.353
12/21/2006	2:07:14	3440	18.353
12/21/2006	2:17:14	3450	18.356
12/21/2006	2:27:14	3460	18.358
12/21/2006	2:37:14	3470	18.358
12/21/2006	2:47:14	3480	18.358
12/21/2006	2:57:14	3490	18.36

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/21/2006	3:07:14	3500	18.36
12/21/2006	3:17:14	3510	18.362
12/21/2006	3:27:14	3520	18.364
12/21/2006	3:37:14	3530	18.368
12/21/2006	3:47:14	3540	18.364
12/21/2006	3:57:14	3550	18.369
12/21/2006	4:07:14	3560	18.369
12/21/2006	4:17:14	3570	18.369
12/21/2006	4:27:14	3580	18.373
12/21/2006	4:37:14	3590	18.377
12/21/2006	4:47:14	3600	18.373
12/21/2006	4:57:14	3610	18.375
12/21/2006	5:07:14	3620	18.377
12/21/2006	5:17:14	3630	18.377
12/21/2006	5:27:14	3640	18.377
12/21/2006	5:37:14	3650	18.382
12/21/2006	5:47:14	3660	18.379
12/21/2006	5:57:14	3670	18.382
12/21/2006	6:07:14	3680	18.384
12/21/2006	6:17:14	3690	18.386
12/21/2006	6:27:14	3700	18.386
12/21/2006	6:37:14	3710	18.388
12/21/2006	6:47:14	3720	18.388
12/21/2006	6:57:14	3730	18.392
12/21/2006	7:07:14	3740	18.39
12/21/2006	7:17:14	3750	18.392
12/21/2006	7:27:14	3760	18.395
12/21/2006	7:37:14	3770	18.392
12/21/2006	7:47:14	3780	18.397
12/21/2006	7:57:14	3790	18.399
12/21/2006	8:07:14	3800	18.403
12/21/2006	8:17:14	3810	18.401
12/21/2006	8:27:14	3820	18.407
12/21/2006	8:37:14	3830	18.403
12/21/2006	8:47:14	3840	18.401
12/21/2006	8:57:14	3850	18.41
12/21/2006	9:07:14	3860	18.41
12/21/2006	9:17:14	3870	18.41
12/21/2006	9:27:14	3880	18.412
12/21/2006	9:37:14	3890	18.414
12/21/2006	9:47:14	3900	18.414
12/21/2006	9:57:14	3910	18.416
12/21/2006	10:07:14	3920	18.418
12/21/2006	10:17:14	3930	18.418
12/21/2006	10:27:14	3940	18.416
12/21/2006	10:37:14	3950	18.42
12/21/2006	10:47:14	3960	18.42
12/21/2006	10:57:14	3970	18.423
12/21/2006	11:07:14	3980	18.425
12/21/2006	11:17:14	3990	18.427

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	11:27:14	4000	18.425
12/21/2006	11:37:14	4010	18.429
12/21/2006	11:47:14	4020	18.423
12/21/2006	11:57:14	4030	18.427
12/21/2006	12:07:14	4040	18.427
12/21/2006	12:17:14	4050	18.427
12/21/2006	12:27:14	4060	18.431
12/21/2006	12:37:14	4070	18.431
12/21/2006	12:47:14	4080	18.433
12/21/2006	12:57:14	4090	18.433
12/21/2006	13:07:14	4100	18.433
12/21/2006	13:17:14	4110	18.436
12/21/2006	13:27:14	4120	18.436
12/21/2006	13:37:14	4130	18.444
12/21/2006	13:47:14	4140	18.453
12/21/2006	13:57:14	4150	18.455
12/21/2006	14:07:14	4160	18.446
12/21/2006	14:17:14	4170	18.444
12/21/2006	14:27:14	4180	18.444
12/21/2006	14:37:14	4190	18.44
12/21/2006	14:47:14	4200	18.446
12/21/2006	14:57:14	4210	73.993
12/21/2006	15:07:14	4220	74.001
12/21/2006	15:17:14	4230	74.003
12/21/2006	15:27:14	4240	74.009
12/21/2006	15:37:14	4250	74.01
12/21/2006	15:47:14	4260	74.013
12/21/2006	15:57:14	4270	74.016
12/21/2006	16:07:14	4280	74.017
12/21/2006	16:17:14	4290	74.022
12/21/2006	16:27:14	4300	74.024
12/21/2006	16:37:14	4310	74.019
12/21/2006	16:47:14	4320	18.501
12/21/2006	16:57:14	4330	18.494
12/21/2006	17:07:14	4340	18.49
12/21/2006	17:17:14	4350	18.485
12/21/2006	17:27:14	4360	18.524
12/21/2006	17:37:14	4370	18.551
12/21/2006	17:47:14	4380	18.564
12/21/2006	17:57:14	4390	18.565
12/21/2006	18:07:14	4400	18.264
12/21/2006	18:17:14	4410	18.164
12/21/2006	18:27:14	4420	18.102
12/21/2006	18:37:14	4430	18.051
12/21/2006	18:47:14	4440	18.006
12/21/2006	18:57:14	4450	17.969
12/21/2006	19:07:14	4460	17.937
12/21/2006	19:17:14	4470	17.902
12/21/2006	19:27:14	4480	17.874
12/21/2006	19:37:14	4490	17.848

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

Date	Time	ET (min)	Chan[2] Pressure Feet H2O
-----	-----	-----	-----
12/21/2006	19:47:14	4500	17.822
12/21/2006	19:57:14	4510	17.799
12/21/2006	20:07:14	4520	17.773
12/21/2006	20:17:14	4530	17.753
12/21/2006	20:27:14	4540	17.734
12/21/2006	20:37:14	4550	17.715
12/21/2006	20:47:14	4560	17.702
12/21/2006	20:57:14	4570	17.685
12/21/2006	21:07:14	4580	17.661
12/21/2006	21:17:14	4590	17.646
12/21/2006	21:27:14	4600	17.633
12/21/2006	21:37:14	4610	17.618
12/21/2006	21:47:14	4620	17.607
12/21/2006	21:57:14	4630	17.592
12/21/2006	22:07:14	4640	17.581
12/21/2006	22:17:14	4650	17.571
12/21/2006	22:27:14	4660	17.56
12/21/2006	22:37:14	4670	17.55
12/21/2006	22:47:14	4680	17.536
12/21/2006	22:57:14	4690	17.529
12/21/2006	23:07:14	4700	17.517
12/21/2006	23:17:14	4710	17.506
12/21/2006	23:27:14	4720	17.498
12/21/2006	23:37:14	4730	17.489
12/21/2006	23:47:14	4740	17.478
12/21/2006	23:57:14	4750	17.472
12/22/2006	0:07:14	4760	17.466
12/22/2006	0:17:14	4770	17.454
12/22/2006	0:27:14	4780	17.446
12/22/2006	0:37:14	4790	17.438
12/22/2006	0:47:14	4800	17.433
12/22/2006	0:57:14	4810	17.427
12/22/2006	1:07:14	4820	17.414
12/22/2006	1:17:14	4830	17.407
12/22/2006	1:27:14	4840	17.407
12/22/2006	1:37:14	4850	17.397
12/22/2006	1:47:14	4860	17.392
12/22/2006	1:57:14	4870	17.384
12/22/2006	2:07:14	4880	17.377
12/22/2006	2:17:14	4890	17.375
12/22/2006	2:27:14	4900	17.366
12/22/2006	2:37:14	4910	17.362
12/22/2006	2:47:14	4920	17.355
12/22/2006	2:57:14	4930	17.349
12/22/2006	3:07:14	4940	17.343
12/22/2006	3:17:14	4950	17.336
12/22/2006	3:27:14	4960	17.332
12/22/2006	3:37:14	4970	17.325
12/22/2006	3:47:14	4980	17.321
12/22/2006	3:57:14	4990	17.317

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/22/2006	4:07:14	5000	17.31
12/22/2006	4:17:14	5010	17.308
12/22/2006	4:27:14	5020	17.301
12/22/2006	4:37:14	5030	17.298
12/22/2006	4:47:14	5040	17.291
12/22/2006	4:57:14	5050	17.288
12/22/2006	5:07:14	5060	17.285
12/22/2006	5:17:14	5070	17.28
12/22/2006	5:27:14	5080	17.276
12/22/2006	5:37:14	5090	17.272
12/22/2006	5:47:14	5100	17.263
12/22/2006	5:57:14	5110	17.261
12/22/2006	6:07:14	5120	17.259
12/22/2006	6:17:14	5130	17.257
12/22/2006	6:27:14	5140	17.248
12/22/2006	6:37:14	5150	17.245
12/22/2006	6:47:14	5160	17.246
12/22/2006	6:57:14	5170	17.241
12/22/2006	7:07:14	5180	17.237
12/22/2006	7:17:14	5190	17.233
12/22/2006	7:27:14	5200	17.228
12/22/2006	7:37:14	5210	17.226
12/22/2006	7:47:14	5220	17.224
12/22/2006	7:57:14	5230	17.222
12/22/2006	8:07:14	5240	17.216
12/22/2006	8:17:14	5250	17.216
12/22/2006	8:27:14	5260	17.211
12/22/2006	8:37:14	5270	17.211
12/22/2006	8:47:14	5280	17.205
12/22/2006	8:57:14	5290	17.203
12/22/2006	9:07:14	5300	17.198
12/22/2006	9:17:14	5310	17.196
12/22/2006	9:27:14	5320	17.194
12/22/2006	9:37:14	5330	17.19
12/22/2006	9:47:14	5340	17.187
12/22/2006	9:57:14	5350	17.183
12/22/2006	10:07:14	5360	17.179
12/22/2006	10:17:14	5370	17.179
12/22/2006	10:27:14	5380	17.174
12/22/2006	10:37:14	5390	17.172
12/22/2006	10:47:14	5400	17.17
12/22/2006	10:57:14	5410	17.168
12/22/2006	11:07:14	5420	17.164
12/22/2006	11:17:14	5430	17.161
12/22/2006	11:27:14	5440	17.157
12/22/2006	11:37:14	5450	17.155
12/22/2006	11:47:14	5460	17.155
12/22/2006	11:57:14	5470	17.151
12/22/2006	12:07:14	5480	17.144
12/22/2006	12:17:14	5490	17.146

# MW-37D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/22/2006	12:27:14	5500	17.144
12/22/2006	12:37:14	5510	17.144
12/22/2006	12:47:14	5520	17.142
12/22/2006	12:57:14	5530	17.138
12/22/2006	13:07:14	5540	17.138
12/22/2006	13:17:14	5550	17.136
12/22/2006	13:27:14	5560	17.131
12/22/2006	13:37:14	5570	17.129
12/22/2006	13:47:14	5580	17.127
12/22/2006	13:57:14	5590	17.125
12/22/2006	14:07:14	5600	17.125
12/22/2006	14:17:14	5610	17.12
12/22/2006	14:27:14	5620	17.118
12/22/2006	14:37:14	5630	17.118
12/22/2006	14:47:14	5640	17.114
12/22/2006	14:57:14	5650	17.11
12/22/2006	15:07:14	5660	17.11
12/22/2006	15:17:14	5670	17.103
12/22/2006	15:27:14	5680	17.094
12/22/2006	15:37:14	5690	17.081
12/22/2006	15:47:14	5700	17.073
12/22/2006	15:57:14	5710	17.066
12/22/2006	16:07:14	5720	17.064
12/22/2006	16:17:14	5730	17.058
12/22/2006	16:27:14	5740	17.051
12/22/2006	16:37:14	5750	17.045
12/22/2006	16:47:14	5760	17.036
12/22/2006	16:57:14	5770	17.032
12/22/2006	17:07:14	5780	17.023
12/22/2006	17:17:14	5790	17.017
12/22/2006	17:27:14	5800	17.008
12/22/2006	17:37:14	5810	17.004
12/22/2006	17:47:14	5820	16.995
12/22/2006	17:57:14	5830	16.982
12/22/2006	18:07:14	5840	16.971
12/22/2006	18:17:14	5850	16.963
12/22/2006	18:27:14	5860	16.954
12/22/2006	18:37:14	5870	16.939
12/22/2006	18:47:14	5880	16.93
12/22/2006	18:57:14	5890	16.915
12/22/2006	19:07:14	5900	16.904
12/22/2006	19:17:14	5910	16.891
12/22/2006	19:27:14	5920	16.88
12/22/2006	19:37:14	5930	16.87
12/22/2006	19:47:14	5940	16.857
12/22/2006	19:57:14	5950	16.846
12/22/2006	20:07:14	5960	16.835
12/22/2006	20:17:14	5970	16.824
12/22/2006	20:27:14	5980	16.815
12/22/2006	20:37:14	5990	16.805

**MW-38D Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-38D	EMW	12/18/06 17:35	0	19.51		start test
MW-38D	SLM	12/18/06 22:04	269	19.53	0.02	
MW-38D	SRL	12/19/06 2:05	510	19.57	0.06	
MW-38D	SRL	12/19/06 6:05	750	19.56	0.05	
MW-38D	EMW	12/19/06 10:40	1025	19.56	0.05	
MW-38D	EMW	12/19/06 14:04	1229	19.56	0.05	
MW-38D	EMW	12/19/06 18:04	1469	19.54	0.03	
MW-38D	SRL	12/19/06 22:00	1705	19.54	0.03	
MW-38D	SRL	12/20/06 2:06	1951	19.56	0.05	
MW-38D	SRL	12/20/06 5:58	2183	19.58	0.07	
MW-38D	EMW	12/20/06 10:04	2429	19.55	0.04	
MW-38D	EMW	12/20/06 14:02	2667	19.56	0.05	
MW-38D	EMW	12/20/06 18:01	2906	19.56	0.05	
MW-38D	SRL	12/20/06 21:59	3144	19.57	0.06	
MW-38D	SRL	12/21/06 1:59	3384	19.58	0.07	
MW-38D	SRL	12/21/06 5:58	3623	19.60	0.09	
MW-38D	EMW	12/21/06 10:04	3869	19.59	0.08	
MW-38D	EMW	12/21/06 13:59	4104	19.58	0.07	
MW-38D	EMW	12/21/06 17:01	4286	19.56	0.05	
MW-38D	SRL	12/21/06 22:28	4613	19.60	0.09	First recovery reading
MW-38D	SRL	12/22/06 1:28	4793	19.58	0.07	
MW-38D	EMW	12/22/06 6:39	5104	19.57	0.06	
MW-38D	EMW	12/22/06 10:11	5316	19.56	0.05	

feet below TOC - Feet below top of casing



**MW-39S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-39S	EMW	12/18/06 17:35	0	21.55		start test
MW-39S	SLM	12/18/06 21:59	264	21.55	0.00	
MW-39S	SRL	12/19/06 2:00	505	21.55	0.00	
MW-39S	SRL	12/19/06 6:00	745	21.55	0.00	
MW-39S	EMW	12/19/06 10:34	1019	21.56	0.01	
MW-39S	EMW	12/19/06 13:57	1222	21.56	0.01	
MW-39S	EMW	12/19/06 17:57	1462	21.54	-0.01	
MW-39S	SRL	12/19/06 21:55	1700	21.54	-0.01	
MW-39S	SRL	12/20/06 1:59	1944	21.57	0.02	
MW-39S	SRL	12/20/06 5:53	2178	21.56	0.01	
MW-39S	EMW	12/20/06 9:56	2421	21.54	-0.01	
MW-39S	EMW	12/20/06 13:56	2661	21.56	0.01	
MW-39S	EMW	12/20/06 17:59	2904	21.56	0.01	
MW-39S	SRL	12/20/06 21:54	3139	21.56	0.01	
MW-39S	SRL	12/21/06 1:53	3378	21.57	0.02	
MW-39S	SRL	12/21/06 5:53	3618	21.58	0.03	
MW-39S	EMW	12/21/06 10:00	3865	21.56	0.01	
MW-39S	EMW	12/21/06 13:55	4100	21.56	0.01	
MW-39S	EMW	12/21/06 16:58	4283	21.55	0.00	
MW-39S	SRL	12/21/06 22:24	4609	21.63	0.08	First recovery reading
MW-39S	SRL	12/22/06 1:24	4789	21.58	0.03	
MW-39S	EMW	12/22/06 6:32	5097	21.55	0.00	
MW-39S	EMW	12/22/06 10:07	5312	21.56	0.01	
MW-39S	EMW	12/22/06 13:55	5540	21.57	0.02	
MW-39S	SLM	12/22/06 15:58	5663	21.60	0.05	

feet below TOC - Feet below top of casing

**MW-39D Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-39D	EMW	12/18/06 17:35	0	21.10		start test
MW-39D	SLM	12/18/06 21:50	255	21.10	0.00	
MW-39D	SRL	12/19/06 1:59	504	21.14	0.04	
MW-39D	SRL	12/19/06 5:59	744	21.11	0.01	
MW-39D	EMW	12/19/06 10:35	1020	21.06	-0.04	
MW-39D	EMW	12/19/06 13:56	1221	21.06	-0.04	
MW-39D	EMW	12/19/06 17:57	1462	21.07	-0.03	
MW-39D	SRL	12/19/06 21:55	1700	21.07	-0.03	
MW-39D	SRL	12/20/06 1:58	1943	21.10	0.00	
MW-39D	SRL	12/20/06 5:52	2177	21.11	0.01	
MW-39D	EMW	12/20/06 9:57	2422	21.09	-0.01	
MW-39D	EMW	12/20/06 13:55	2660	21.09	-0.01	
MW-39D	EMW	12/20/06 17:59	2904	21.09	-0.01	
MW-39D	SRL	12/20/06 21:53	3138	21.12	0.02	
MW-39D	SRL	12/21/06 1:52	3377	21.08	-0.02	
MW-39D	SRL	12/21/06 5:53	3618	21.13	0.03	
MW-39D	EMW	12/21/06 10:00	3865	21.12	0.02	
MW-39D	EMW	12/21/06 13:55	4100	21.11	0.01	
MW-39D	EMW	12/21/06 16:58	4283	21.11	0.01	
MW-39D	SRL	12/21/06 22:23	4608	21.15	0.05	First recovery reading
MW-39D	SRL	12/22/06 1:23	4788	21.12	0.02	
MW-39D	EMW	12/22/06 6:30	5095	21.13	0.03	
MW-39D	EMW	12/22/06 10:07	5312	21.14	0.04	
MW-39D	EMW	12/22/06 13:55	5540	21.10	0.00	
MW-39D	SLM	12/22/06 15:57	5662	21.14	0.04	

feet below TOC - Feet below top of casing

**MW-45 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-45	EMW	12/18/06 17:35	0	16.64		start test
MW-45	SLM	12/18/06 22:16	281	16.68	0.04	
MW-45	SRL	12/19/06 2:17	522	16.75	0.11	
MW-45	SRL	12/19/06 6:17	762	16.96	0.32	
MW-45	EMW	12/19/06 10:07	992	17.01	0.37	
MW-45	EMW	12/19/06 14:17	1242	16.90	0.26	
MW-45	EMW	12/19/06 18:15	1480	16.88	0.24	
MW-45	SRL	12/19/06 22:11	1716	16.85	0.21	
MW-45	SRL	12/20/06 2:20	1965	16.86	0.22	
MW-45	SRL	12/20/06 6:08	2193	16.84	0.20	
MW-45	EMW	12/20/06 10:14	2439	16.86	0.22	
MW-45	EMW	12/20/06 14:15	2680	16.85	0.21	
MW-45	EMW	12/20/06 18:11	2916	16.87	0.23	
MW-45	SRL	12/20/06 22:09	3154	16.88	0.24	
MW-45	SRL	12/21/06 2:10	3395	16.88	0.24	
MW-45	SRL	12/21/06 6:09	3634	16.87	0.23	
MW-45	EMW	12/21/06 10:18	3883	16.89	0.25	
MW-45	EMW	12/21/06 14:07	4112	16.89	0.25	
MW-45	EMW	12/21/06 17:10	4295	16.88	0.24	
MW-45	SRL	12/21/06 22:38	4623	16.88	0.24	First recovery reading
MW-45	SRL	12/22/06 1:38	4803	16.87	0.23	
MW-45	EMW	12/22/06 6:22	5087	16.86	0.22	
MW-45	EMW	12/22/06 10:19	5324	16.86	0.22	
MW-45	EMW	12/22/06 14:09	5554	16.83	0.19	
MW-45	SLM	12/22/06 16:22	5687	16.84	0.20	

feet below TOC - Feet below top of casing

**MW-46 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-46	EMW	12/18/06 17:35	0	15.80		start test
MW-46	SLM	12/18/06 22:15	280	15.84	0.04	
MW-46	SRL	12/19/06 2:15	520	15.92	0.12	
MW-46	SRL	12/19/06 6:15	760	16.05	0.25	
MW-46	EMW	12/19/06 10:00	985	16.16	0.36	
MW-46	EMW	12/19/06 14:16	1241	16.14	0.34	
MW-46	EMW	12/19/06 18:14	1479	16.12	0.32	
MW-46	SRL	12/19/06 22:10	1715	16.08	0.28	
MW-46	SRL	12/20/06 2:18	1963	16.07	0.27	
MW-46	SRL	12/20/06 6:07	2192	16.06	0.26	
MW-46	EMW	12/20/06 10:13	2438	16.06	0.26	
MW-46	EMW	12/20/06 14:14	2679	16.06	0.26	
MW-46	EMW	12/20/06 18:10	2915	16.07	0.27	
MW-46	SRL	12/20/06 22:07	3152	16.09	0.29	
MW-46	SRL	12/21/06 2:09	3394	16.08	0.28	
MW-46	SRL	12/21/06 6:08	3633	16.11	0.31	
MW-46	EMW	12/21/06 10:15	3880	16.13	0.33	
MW-46	EMW	12/21/06 14:06	4111	16.11	0.31	
MW-46	EMW	12/21/06 17:09	4294	16.14	0.34	
MW-46	SRL	12/21/06 22:36	4621	16.10	0.30	First recovery reading
MW-46	SRL	12/22/06 1:36	4801	16.08	0.28	
MW-46	EMW	12/22/06 6:20	5085	16.08	0.28	
MW-46	EMW	12/22/06 10:19	5324	16.09	0.29	
MW-46	EMW	12/22/06 14:08	5553	16.01	0.21	
MW-46	SLM	12/22/06 16:20	5685	15.98	0.18	

feet below TOC - Feet below top of casing

**MW-47 Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-47	EMW	12/18/06 17:35	0	19.69		start test
MW-47	SLM	12/18/06 22:17	282	19.70	0.01	
MW-47	SRL	12/19/06 2:18	523	19.70	0.01	
MW-47	SRL	12/19/06 6:18	763	19.75	0.06	
MW-47	EMW	12/19/06 10:09	994	19.75	0.06	
MW-47	EMW	12/19/06 14:19	1244	19.75	0.06	
MW-47	EMW	12/19/06 18:17	1482	19.75	0.06	
MW-47	SRL	12/19/06 22:13	1718	19.79	0.10	
MW-47	SRL	12/20/06 2:22	1967	19.82	0.13	
MW-47	SRL	12/20/06 6:09	2194	19.81	0.12	
MW-47	EMW	12/20/06 10:15	2440	19.81	0.12	
MW-47	EMW	12/20/06 14:16	2681	19.79	0.10	
MW-47	EMW	12/20/06 18:12	2917	19.79	0.10	
MW-47	SRL	12/20/06 22:11	3156	19.79	0.10	
MW-47	SRL	12/21/06 2:11	3396	19.82	0.13	
MW-47	SRL	12/21/06 6:10	3635	19.82	0.13	
MW-47	EMW	12/21/06 10:20	3885	19.83	0.14	
MW-47	EMW	12/21/06 14:10	4115	19.81	0.12	
MW-47	EMW	12/21/06 18:15	4360	19.82	0.13	
MW-47	SRL	12/21/06 22:40	4625	19.85	0.16	First recovery reading
MW-47	SRL	12/22/06 1:40	4805	19.84	0.15	
MW-47	EMW	12/22/06 6:23	5088	19.82	0.13	
MW-47	EMW	12/22/06 10:24	5329	19.82	0.13	
MW-47	EMW	12/22/06 14:11	5556	19.80	0.11	
MW-47	SLM	12/22/06 16:24	5689	19.80	0.11	

feet below TOC - Feet below top of casing

**MW-74S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-74S	EMW	12/18/06 17:35	0	20.03		start test
MW-74S	SLM	12/18/06 21:56	261	20.05	0.02	
MW-74S	SRL	12/19/06 2:00	505	20.05	0.02	
MW-74S	SRL	12/19/06 6:00	745	20.04	0.01	
MW-74S	EMW	12/19/06 10:39	1024	20.04	0.01	
MW-74S	EMW	12/19/06 13:58	1223	20.04	0.01	
MW-74S	EMW	12/19/06 17:59	1464	20.04	0.01	
MW-74S	SRL	12/19/06 21:56	1701	20.06	0.03	
MW-74S	SRL	12/20/06 2:01	1946	20.05	0.02	
MW-74S	SRL	12/20/06 5:54	2179	20.06	0.03	
MW-74S	EMW	12/20/06 9:58	2423	20.05	0.02	
MW-74S	EMW	12/20/06 13:57	2662	20.05	0.02	
MW-74S	EMW	12/20/06 17:59	2904	20.05	0.02	
MW-74S	SRL	12/20/06 21:54	3139	20.05	0.02	
MW-74S	SRL	12/21/06 1:54	3379	20.06	0.03	
MW-74S	SRL	12/21/06 5:54	3619	20.10	0.07	
MW-74S	EMW	12/21/06 10:02	3867	20.09	0.06	
MW-74S	EMW	12/21/06 13:57	4102	20.09	0.06	
MW-74S	EMW	12/21/06 16:59	4284	20.08	0.05	
MW-74S	SRL	12/21/06 22:25	4610	20.10	0.07	First recovery reading
MW-74S	SRL	12/22/06 1:25	4790	20.10	0.07	
MW-74S	EMW	12/22/06 6:34	5099	20.10	0.07	
MW-74S	EMW	12/22/06 10:09	5314	20.10	0.07	
MW-74S	EMW	12/22/06 13:56	5541	20.10	0.07	
MW-74S	SLM	12/22/06 15:59	5664	20.10	0.07	

feet below TOC - Feet below top of casing

**MW-74D Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-74D	EMW	12/18/06 17:35	0	19.51		start test
MW-74D	SLM	12/18/06 21:57	262	19.53	0.02	
MW-74D	SRL	12/19/06 2:01	506	19.57	0.06	
MW-74D	SRL	12/19/06 6:01	746	19.56	0.05	
MW-74D	EMW	12/19/06 10:39	1024	19.56	0.05	
MW-74D	EMW	12/19/06 13:58	1223	19.56	0.05	
MW-74D	EMW	12/19/06 17:59	1464	19.54	0.03	
MW-74D	SRL	12/19/06 21:57	1702	19.54	0.03	
MW-74D	SRL	12/20/06 2:04	1949	19.56	0.05	
MW-74D	SRL	12/20/06 5:55	2180	19.58	0.07	
MW-74D	EMW	12/20/06 9:58	2423	19.55	0.04	
MW-74D	EMW	12/20/06 13:57	2662	19.56	0.05	
MW-74D	EMW	12/20/06 17:59	2904	19.56	0.05	
MW-74D	SRL	12/20/06 21:55	3140	19.57	0.06	
MW-74D	SRL	12/21/06 1:55	3380	19.58	0.07	
MW-74D	SRL	12/21/06 5:55	3620	19.60	0.09	
MW-74D	EMW	12/21/06 10:02	3867	19.59	0.08	
MW-74D	EMW	12/21/06 13:58	4103	19.58	0.07	
MW-74D	EMW	12/21/06 16:59	4284	19.56	0.05	
MW-74D	SRL	12/21/06 22:25	4610	19.60	0.09	First recovery reading
MW-74D	SRL	12/22/06 1:25	4790	19.58	0.07	
MW-74D	EMW	12/22/06 6:34	5099	19.57	0.06	
MW-74D	EMW	12/22/06 10:09	5314	19.56	0.05	
MW-74D	EMW	12/22/06 13:57	5542	19.56	0.05	
MW-74D	SLM	12/22/06 16:00	5665	19.60	0.09	

feet below TOC - Feet below top of casing

**MW-75S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-75S	SLM	12/18/06 17:35	0	17.15		start test
MW-75S	SLM	12/18/06 18:40	65	17.82	0.67	
MW-75S	SLM	12/18/06 19:37	122	17.91	0.76	
MW-75S	SLM	12/18/06 20:46	191	17.98	0.83	
MW-75S	SLM	12/18/06 21:38	243	18.02	0.87	
MW-75S	SRL	12/18/06 22:41	306	18.09	0.94	
MW-75S	SRL	12/18/06 23:11	336	18.07	0.92	
MW-75S	SRL	12/18/06 23:37	362	18.13	0.98	
MW-75S	SRL	12/19/06 0:38	423	18.21	1.06	
MW-75S	SRL	12/19/06 1:37	482	18.21	1.06	
MW-75S	SRL	12/19/06 2:37	542	18.23	1.08	
MW-75S	SRL	12/19/06 3:37	602	18.27	1.12	
MW-75S	SRL	12/19/06 4:37	662	18.30	1.15	
MW-75S	SRL	12/19/06 5:37	722	18.33	1.18	
MW-75S	EMW	12/19/06 6:37	782	18.34	1.19	
MW-75S	EMW	12/19/06 7:37	842	18.39	1.24	
MW-75S	EMW	12/19/06 8:37	902	18.39	1.24	
MW-75S	EMW	12/19/06 9:37	962	18.44	1.29	
MW-75S	EMW	12/19/06 10:45	1030	18.42	1.27	
MW-75S	EMW	12/19/06 11:38	1083	18.43	1.28	
MW-75S	EMW	12/19/06 12:36	1141	18.46	1.31	
MW-75S	EMW	12/19/06 13:37	1202	18.48	1.33	
MW-75S	EMW	12/19/06 14:36	1261	18.51	1.36	
MW-75S	EMW	12/19/06 15:37	1322	18.51	1.36	
MW-75S	EMW	12/19/06 17:36	1441	19.80	2.65	purged well prior to this reading
MW-75S	SRL	12/19/06 18:37	1502	18.60	1.45	
MW-75S	SRL	12/19/06 19:37	1562	18.61	1.46	
MW-75S	SRL	12/19/06 20:37	1622	18.60	1.45	
MW-75S	SRL	12/19/06 21:37	1682	18.62	1.47	
MW-75S	SRL	12/19/06 22:37	1742	18.62	1.47	
MW-75S	SRL	12/19/06 23:37	1802	18.65	1.50	
MW-75S	SRL	12/20/06 0:37	1862	18.68	1.53	
MW-75S	SRL	12/20/06 1:37	1922	18.68	1.53	
MW-75S	SRL	12/20/06 2:37	1982	18.70	1.55	
MW-75S	SRL	12/20/06 3:37	2042	18.72	1.57	
MW-75S	SRL	12/20/06 4:37	2102	18.73	1.58	
MW-75S	SRL	12/20/06 5:37	2162	18.72	1.57	
MW-75S	EMW	12/20/06 6:37	2222	18.72	1.57	
MW-75S	EMW	12/20/06 7:37	2282	18.73	1.58	
MW-75S	EMW	12/20/06 8:37	2342	18.73	1.58	
MW-75S	EMW	12/20/06 9:38	2403	18.77	1.62	
MW-75S	EMW	12/20/06 10:44	2469	18.77	1.62	
MW-75S	EMW	12/20/06 11:36	2521	18.77	1.62	
MW-75S	EMW	12/20/06 12:37	2582	18.78	1.63	
MW-75S	EMW	12/20/06 13:37	2642	18.78	1.63	
MW-75S	EMW	12/20/06 14:39	2704	18.78	1.63	
MW-75S	EMW	12/20/06 15:38	2763	18.79	1.64	
MW-75S	EMW	12/20/06 16:37	2822	18.79	1.64	
MW-75S	EMW	12/20/06 17:38	2883	18.81	1.66	
MW-75S	SRL	12/20/06 18:37	2942	18.82	1.67	
MW-75S	SRL	12/20/06 19:37	3002	18.84	1.69	



**MW-75S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-75S	SRL	12/20/06 20:37	3062	18.83	1.68	
MW-75S	SRL	12/20/06 21:37	3122	18.87	1.72	
MW-75S	SRL	12/20/06 22:37	3182	18.86	1.71	
MW-75S	SRL	12/20/06 23:37	3242	18.87	1.72	
MW-75S	SRL	12/21/06 0:37	3302	18.87	1.72	
MW-75S	SRL	12/21/06 1:37	3362	18.91	1.76	
MW-75S	SRL	12/21/06 2:37	3422	18.91	1.76	
MW-75S	SRL	12/21/06 3:37	3482	18.90	1.75	
MW-75S	SRL	12/21/06 4:37	3542	18.91	1.76	
MW-75S	SRL	12/21/06 5:37	3602	18.93	1.78	
MW-75S	EMW	12/21/06 6:37	3662	18.93	1.78	
MW-75S	EMW	12/21/06 7:37	3722	18.93	1.78	
MW-75S	EMW	12/21/06 8:39	3784	18.93	1.78	
MW-75S	EMW	12/21/06 9:39	3844	18.95	1.80	
MW-75S	EMW	12/21/06 10:37	3902	18.96	1.81	
MW-75S	EMW	12/21/06 11:39	3964	18.96	1.81	
MW-75S	EMW	12/21/06 12:38	4023	18.97	1.82	
MW-75S	EMW	12/21/06 13:38	4083	18.98	1.83	
MW-75S	EMW	12/21/06 14:39	4144	18.98	1.83	
MW-75S	EMW	12/21/06 16:37	4262	19.03	1.88	purged well prior to this reading
MW-75S	SLM	12/21/06 19:11	4416	18.42	1.27	1ST RECOVERY
MW-75S	SRL	12/21/06 20:07	4472	18.30	1.15	
MW-75S	SRL	12/21/06 21:07	4532	18.21	1.06	
MW-75S	SRL	12/21/06 22:07	4592	18.16	1.01	
MW-75S	SRL	12/21/06 23:07	4652	18.11	0.96	
MW-75S	SRL	12/22/06 0:07	4712	18.02	0.87	
MW-75S	SRL	12/22/06 1:07	4772	17.99	0.84	
MW-75S	EMW	12/22/06 6:54	5119	17.84	0.69	
MW-75S	EMW	12/22/06 7:39	5164	17.84	0.69	
MW-75S	EMW	12/22/06 8:38	5223	17.80	0.65	
MW-75S	EMW	12/22/06 9:38	5283	17.78	0.63	
MW-75S	EMW	12/22/06 10:37	5342	17.77	0.62	
MW-75S	EMW	12/22/06 11:37	5402	17.78	0.63	
MW-75S	EMW	12/22/06 12:37	5462	17.71	0.56	
MW-75S	EMW	12/22/06 13:37	5522	17.71	0.56	
MW-75S	SLM	12/22/06 15:33	5638	17.70	0.55	

feet below TOC - Feet below top of casing

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/18/2006	16:52:04	0	63.54	18.378
12/18/2006	17:02:04	10	63.52	18.378
12/18/2006	17:12:04	20	63.52	18.38
12/18/2006	17:22:04	30	63.52	18.378
12/18/2006	17:32:04	40	63.52	18.378
12/18/2006	17:42:04	50	63.56	19.26
12/18/2006	17:52:04	60	63.56	19.158
12/18/2006	18:02:04	70	63.56	19.191
12/18/2006	18:12:04	80	63.56	19.27
12/18/2006	18:22:04	90	63.54	19.296
12/18/2006	18:32:04	100	63.54	19.278
12/18/2006	18:42:04	110	63.54	19.296
12/18/2006	18:52:04	120	63.54	19.314
12/18/2006	19:02:04	130	63.54	19.347
12/18/2006	19:12:04	140	63.54	19.436
12/18/2006	19:22:04	150	63.54	19.447
12/18/2006	19:32:04	160	63.54	19.39
12/18/2006	19:42:04	170	63.54	19.399
12/18/2006	19:52:04	180	63.54	19.409
12/18/2006	20:02:04	190	63.54	19.422
12/18/2006	20:12:04	200	63.54	19.434
12/18/2006	20:22:04	210	63.54	19.449
12/18/2006	20:32:04	220	63.54	19.459
12/18/2006	20:42:04	230	63.54	19.472
12/18/2006	20:52:04	240	63.54	19.482
12/18/2006	21:02:04	250	63.54	19.493
12/18/2006	21:12:04	260	63.54	19.503
12/18/2006	21:22:04	270	63.54	19.513
12/18/2006	21:32:04	280	63.54	19.524
12/18/2006	21:42:04	290	63.54	19.534
12/18/2006	21:52:04	300	63.54	19.542
12/18/2006	22:02:04	310	63.54	19.552
12/18/2006	22:12:04	320	63.54	19.559
12/18/2006	22:22:04	330	63.54	19.569
12/18/2006	22:32:04	340	63.54	19.577
12/18/2006	22:42:04	350	63.54	19.587
12/18/2006	22:52:04	360	63.54	19.593
12/18/2006	23:02:04	370	63.54	19.603
12/18/2006	23:12:04	380	63.54	19.608
12/18/2006	23:22:04	390	63.52	19.619
12/18/2006	23:32:04	400	63.54	19.626
12/18/2006	23:42:04	410	63.54	19.633
12/18/2006	23:52:04	420	63.52	19.642
12/19/2006	0:02:04	430	63.54	19.647
12/19/2006	0:12:04	440	63.54	19.656
12/19/2006	0:22:04	450	63.54	19.664
12/19/2006	0:32:04	460	63.52	19.67
12/19/2006	0:42:04	470	63.52	19.677
12/19/2006	0:52:04	480	63.52	19.683
12/19/2006	1:02:04	490	63.54	19.69

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/19/2006	1:12:04	500	63.54	19.695
12/19/2006	1:22:04	510	63.54	19.703
12/19/2006	1:32:04	520	63.54	19.71
12/19/2006	1:42:04	530	63.54	19.718
12/19/2006	1:52:04	540	63.54	19.723
12/19/2006	2:02:04	550	63.54	19.729
12/19/2006	2:12:04	560	63.54	19.736
12/19/2006	2:22:04	570	63.54	19.744
12/19/2006	2:32:04	580	63.54	19.747
12/19/2006	2:42:04	590	63.54	19.757
12/19/2006	2:52:04	600	63.54	19.759
12/19/2006	3:02:04	610	63.54	19.766
12/19/2006	3:12:04	620	63.54	19.772
12/19/2006	3:22:04	630	63.54	19.779
12/19/2006	3:32:04	640	63.54	19.785
12/19/2006	3:42:04	650	63.54	19.789
12/19/2006	3:52:04	660	63.54	19.795
12/19/2006	4:02:04	670	63.54	19.802
12/19/2006	4:12:04	680	63.54	19.805
12/19/2006	4:22:04	690	63.54	19.816
12/19/2006	4:32:04	700	63.54	19.818
12/19/2006	4:42:04	710	63.54	19.823
12/19/2006	4:52:04	720	63.54	19.831
12/19/2006	5:02:04	730	63.54	19.838
12/19/2006	5:12:04	740	63.54	19.843
12/19/2006	5:22:04	750	63.54	19.849
12/19/2006	5:32:04	760	63.54	19.851
12/19/2006	5:42:04	770	63.54	19.859
12/19/2006	5:52:04	780	63.54	19.864
12/19/2006	6:02:04	790	63.54	19.869
12/19/2006	6:12:04	800	63.54	19.876
12/19/2006	6:22:04	810	63.54	19.871
12/19/2006	6:32:04	820	63.54	19.887
12/19/2006	6:42:04	830	63.54	19.895
12/19/2006	6:52:04	840	63.54	19.892
12/19/2006	7:02:04	850	63.54	19.899
12/19/2006	7:12:04	860	63.52	19.901
12/19/2006	7:22:04	870	63.52	19.908
12/19/2006	7:32:04	880	63.54	19.915
12/19/2006	7:42:04	890	63.54	19.918
12/19/2006	7:52:04	900	63.54	19.923
12/19/2006	8:02:04	910	63.54	19.93
12/19/2006	8:12:04	920	63.54	19.933
12/19/2006	8:22:04	930	63.54	19.941
12/19/2006	8:32:04	940	63.54	19.94
12/19/2006	8:42:04	950	63.54	19.949
12/19/2006	8:52:04	960	63.54	19.951
12/19/2006	9:02:04	970	63.52	19.959
12/19/2006	9:12:04	980	63.52	19.961
12/19/2006	9:22:04	990	63.54	19.974

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/19/2006	9:32:04	1000	63.52	19.967
12/19/2006	9:42:04	1010	63.54	19.966
12/19/2006	9:52:04	1020	63.52	19.974
12/19/2006	10:02:04	1030	63.54	19.976
12/19/2006	10:12:04	1040	63.54	19.977
12/19/2006	10:22:04	1050	63.54	19.984
12/19/2006	10:32:04	1060	63.54	19.984
12/19/2006	10:42:04	1070	63.54	19.986
12/19/2006	10:52:04	1080	63.52	19.992
12/19/2006	11:02:04	1090	63.52	20
12/19/2006	11:12:04	1100	63.54	20
12/19/2006	11:22:04	1110	63.54	20.004
12/19/2006	11:32:04	1120	63.54	20.004
12/19/2006	11:42:04	1130	63.52	20.008
12/19/2006	11:52:04	1140	63.54	20.01
12/19/2006	12:02:04	1150	63.52	20.016
12/19/2006	12:12:04	1160	63.52	20.021
12/19/2006	12:22:04	1170	63.52	20.021
12/19/2006	12:32:04	1180	63.52	20.023
12/19/2006	12:42:04	1190	63.52	20.031
12/19/2006	12:52:04	1200	63.52	20.034
12/19/2006	13:02:04	1210	63.52	20.041
12/19/2006	13:12:04	1220	63.52	20.046
12/19/2006	13:22:04	1230	63.52	20.048
12/19/2006	13:32:04	1240	63.52	20.046
12/19/2006	13:42:04	1250	63.54	20.053
12/19/2006	13:52:04	1260	63.52	20.053
12/19/2006	14:02:04	1270	63.52	20.059
12/19/2006	14:12:04	1280	63.54	20.059
12/19/2006	14:22:04	1290	63.52	26.909
12/19/2006	14:32:04	1300	46.46	48.965
12/19/2006	14:42:04	1310	45.1	48.967
12/19/2006	14:52:04	1320	47.15	48.967
12/19/2006	15:02:04	1330	46.2	48.972
12/19/2006	15:12:04	1340	46.02	48.976
12/19/2006	15:22:04	1350	45.54	48.977
12/19/2006	15:32:04	1360	45.08	48.983
12/19/2006	15:42:04	1370	43.65	48.988
12/19/2006	15:52:04	1380	42.87	48.995
12/19/2006	16:02:04	1390	61.74	20.125
12/19/2006	16:12:04	1400	62.29	20.12
12/19/2006	16:22:04	1410	62.51	20.138
12/19/2006	16:32:04	1420	62.65	20.142
12/19/2006	16:42:04	1430	62.77	20.139
12/19/2006	16:52:04	1440	62.83	20.138
12/19/2006	17:02:04	1450	62.9	20.131
12/19/2006	17:12:04	1460	62.97	20.132
12/19/2006	17:22:04	1470	63.02	20.139
12/19/2006	17:32:04	1480	63.06	20.138
12/19/2006	17:42:04	1490	63.11	20.135

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/19/2006	17:52:04	1500	63.13	20.137
12/19/2006	18:02:04	1510	63.15	20.138
12/19/2006	18:12:04	1520	63.18	20.141
12/19/2006	18:22:04	1530	63.2	20.146
12/19/2006	18:32:04	1540	63.22	20.148
12/19/2006	18:42:04	1550	63.24	20.198
12/19/2006	18:52:04	1560	63.24	20.221
12/19/2006	19:02:04	1570	63.27	20.239
12/19/2006	19:12:04	1580	63.27	20.216
12/19/2006	19:22:04	1590	63.27	20.205
12/19/2006	19:32:04	1600	63.29	20.202
12/19/2006	19:42:04	1610	63.29	20.195
12/19/2006	19:52:04	1620	63.31	20.196
12/19/2006	20:02:04	1630	63.31	20.196
12/19/2006	20:12:04	1640	63.31	20.197
12/19/2006	20:22:04	1650	63.31	20.197
12/19/2006	20:32:04	1660	63.34	20.198
12/19/2006	20:42:04	1670	63.34	20.199
12/19/2006	20:52:04	1680	63.34	20.201
12/19/2006	21:02:04	1690	63.36	20.203
12/19/2006	21:12:04	1700	63.36	20.203
12/19/2006	21:22:04	1710	63.36	20.206
12/19/2006	21:32:04	1720	63.36	20.208
12/19/2006	21:42:04	1730	63.38	20.208
12/19/2006	21:52:04	1740	63.38	20.21
12/19/2006	22:02:04	1750	63.38	20.208
12/19/2006	22:12:04	1760	63.38	20.211
12/19/2006	22:22:04	1770	63.38	20.211
12/19/2006	22:32:04	1780	63.38	20.215
12/19/2006	22:42:04	1790	63.4	20.218
12/19/2006	22:52:04	1800	63.4	20.218
12/19/2006	23:02:04	1810	63.4	20.222
12/19/2006	23:12:04	1820	63.4	20.223
12/19/2006	23:22:04	1830	63.4	20.223
12/19/2006	23:32:04	1840	63.4	20.227
12/19/2006	23:42:04	1850	63.43	20.228
12/19/2006	23:52:04	1860	63.43	20.23
12/20/2006	0:02:04	1870	63.43	20.232
12/20/2006	0:12:04	1880	63.43	20.235
12/20/2006	0:22:04	1890	63.43	20.235
12/20/2006	0:32:04	1900	63.43	20.237
12/20/2006	0:42:04	1910	63.43	20.238
12/20/2006	0:52:04	1920	63.43	20.242
12/20/2006	1:02:04	1930	63.45	20.242
12/20/2006	1:12:04	1940	63.45	20.247
12/20/2006	1:22:04	1950	63.45	20.247
12/20/2006	1:32:04	1960	63.45	20.249
12/20/2006	1:42:04	1970	63.45	20.252
12/20/2006	1:52:04	1980	63.45	20.252
12/20/2006	2:02:04	1990	63.45	20.253

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/20/2006	2:12:04	2000	63.45	20.255
12/20/2006	2:22:04	2010	63.45	20.255
12/20/2006	2:32:04	2020	63.45	20.257
12/20/2006	2:42:04	2030	63.45	20.257
12/20/2006	2:52:04	2040	63.45	20.262
12/20/2006	3:02:04	2050	63.47	20.262
12/20/2006	3:12:04	2060	63.47	20.262
12/20/2006	3:22:04	2070	63.47	20.269
12/20/2006	3:32:04	2080	63.47	20.265
12/20/2006	3:42:04	2090	63.47	20.269
12/20/2006	3:52:04	2100	63.47	20.272
12/20/2006	4:02:04	2110	63.47	20.273
12/20/2006	4:12:04	2120	63.47	20.273
12/20/2006	4:22:04	2130	63.47	20.275
12/20/2006	4:32:04	2140	63.47	20.277
12/20/2006	4:42:04	2150	63.47	20.28
12/20/2006	4:52:04	2160	63.47	20.283
12/20/2006	5:02:04	2170	63.47	20.285
12/20/2006	5:12:04	2180	63.47	20.288
12/20/2006	5:22:04	2190	63.47	20.29
12/20/2006	5:32:04	2200	63.47	20.29
12/20/2006	5:42:04	2210	63.47	20.293
12/20/2006	5:52:04	2220	63.47	20.295
12/20/2006	6:02:04	2230	63.5	20.294
12/20/2006	6:12:04	2240	63.47	20.298
12/20/2006	6:22:04	2250	63.47	20.3
12/20/2006	6:32:04	2260	63.5	20.302
12/20/2006	6:42:04	2270	63.5	20.305
12/20/2006	6:52:04	2280	63.5	20.307
12/20/2006	7:02:04	2290	63.5	20.307
12/20/2006	7:12:04	2300	63.5	20.308
12/20/2006	7:22:04	2310	63.5	20.312
12/20/2006	7:32:04	2320	63.5	20.313
12/20/2006	7:42:04	2330	63.5	20.312
12/20/2006	7:52:04	2340	63.5	20.316
12/20/2006	8:02:04	2350	63.5	20.313
12/20/2006	8:12:04	2360	63.5	20.315
12/20/2006	8:22:04	2370	63.5	20.321
12/20/2006	8:32:04	2380	63.5	20.325
12/20/2006	8:42:04	2390	63.5	20.323
12/20/2006	8:52:04	2400	63.5	20.328
12/20/2006	9:02:04	2410	63.5	20.33
12/20/2006	9:12:04	2420	63.5	20.328
12/20/2006	9:22:04	2430	63.5	20.336
12/20/2006	9:32:04	2440	63.5	20.335
12/20/2006	9:42:04	2450	63.5	20.33
12/20/2006	9:52:04	2460	63.5	20.33
12/20/2006	10:02:04	2470	63.5	20.331
12/20/2006	10:12:04	2480	63.5	20.336
12/20/2006	10:22:04	2490	63.5	20.338

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/20/2006	10:32:04	2500	63.5	20.339
12/20/2006	10:42:04	2510	63.5	20.336
12/20/2006	10:52:04	2520	63.5	20.341
12/20/2006	11:02:04	2530	63.5	20.344
12/20/2006	11:12:04	2540	63.5	20.341
12/20/2006	11:22:04	2550	63.5	20.344
12/20/2006	11:32:04	2560	63.5	20.344
12/20/2006	11:42:04	2570	63.5	20.341
12/20/2006	11:52:04	2580	63.5	20.341
12/20/2006	12:02:04	2590	63.5	20.343
12/20/2006	12:12:04	2600	63.5	20.343
12/20/2006	12:22:04	2610	63.5	20.343
12/20/2006	12:32:04	2620	63.5	20.346
12/20/2006	12:42:04	2630	63.5	20.348
12/20/2006	12:52:04	2640	63.5	20.349
12/20/2006	13:02:04	2650	63.5	20.351
12/20/2006	13:12:04	2660	63.5	20.351
12/20/2006	13:22:04	2670	63.5	20.351
12/20/2006	13:32:04	2680	63.5	20.354
12/20/2006	13:42:04	2690	63.5	20.354
12/20/2006	13:52:04	2700	63.5	20.358
12/20/2006	14:02:04	2710	63.5	20.356
12/20/2006	14:12:04	2720	63.5	20.359
12/20/2006	14:22:04	2730	63.52	20.359
12/20/2006	14:32:04	2740	63.5	20.364
12/20/2006	14:42:04	2750	63.52	20.363
12/20/2006	14:52:04	2760	63.52	20.368
12/20/2006	15:02:04	2770	63.52	20.366
12/20/2006	15:12:04	2780	63.52	20.369
12/20/2006	15:22:04	2790	63.52	20.369
12/20/2006	15:32:04	2800	63.52	20.371
12/20/2006	15:42:04	2810	63.52	20.374
12/20/2006	15:52:04	2820	63.52	20.373
12/20/2006	16:02:04	2830	63.52	20.379
12/20/2006	16:12:04	2840	63.52	20.379
12/20/2006	16:22:04	2850	63.52	20.379
12/20/2006	16:32:04	2860	63.52	20.381
12/20/2006	16:42:04	2870	63.52	20.382
12/20/2006	16:52:04	2880	63.52	20.384
12/20/2006	17:02:04	2890	63.52	20.387
12/20/2006	17:12:04	2900	63.52	20.387
12/20/2006	17:22:04	2910	63.52	20.387
12/20/2006	17:32:04	2920	63.52	20.391
12/20/2006	17:42:04	2930	63.5	20.394
12/20/2006	17:52:04	2940	63.52	20.391
12/20/2006	18:02:04	2950	63.52	20.389
12/20/2006	18:12:04	2960	63.52	20.397
12/20/2006	18:22:04	2970	63.52	20.399
12/20/2006	18:32:04	2980	63.52	20.401
12/20/2006	18:42:04	2990	63.52	20.404

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/20/2006	18:52:04	3000	63.52	20.405
12/20/2006	19:02:04	3010	63.52	20.404
12/20/2006	19:12:04	3020	63.52	20.405
12/20/2006	19:22:04	3030	63.52	20.405
12/20/2006	19:32:04	3040	63.52	20.409
12/20/2006	19:42:04	3050	63.52	20.412
12/20/2006	19:52:04	3060	63.52	20.414
12/20/2006	20:02:04	3070	63.52	20.414
12/20/2006	20:12:04	3080	63.52	20.417
12/20/2006	20:22:04	3090	63.52	20.419
12/20/2006	20:32:04	3100	63.52	20.415
12/20/2006	20:42:04	3110	63.52	20.42
12/20/2006	20:52:04	3120	63.52	20.42
12/20/2006	21:02:04	3130	63.52	20.424
12/20/2006	21:12:04	3140	63.52	20.425
12/20/2006	21:22:04	3150	63.52	20.427
12/20/2006	21:32:04	3160	63.52	20.425
12/20/2006	21:42:04	3170	63.52	20.428
12/20/2006	21:52:04	3180	63.52	20.432
12/20/2006	22:02:04	3190	63.52	20.432
12/20/2006	22:12:04	3200	63.52	20.432
12/20/2006	22:22:04	3210	63.52	20.437
12/20/2006	22:32:04	3220	63.52	20.432
12/20/2006	22:42:04	3230	63.52	20.435
12/20/2006	22:52:04	3240	63.52	20.438
12/20/2006	23:02:04	3250	63.52	20.44
12/20/2006	23:12:04	3260	63.52	20.442
12/20/2006	23:22:04	3270	63.52	20.442
12/20/2006	23:32:04	3280	63.52	20.445
12/20/2006	23:42:04	3290	63.52	20.443
12/20/2006	23:52:04	3300	63.52	20.447
12/21/2006	0:02:04	3310	63.52	20.447
12/21/2006	0:12:04	3320	63.52	20.445
12/21/2006	0:22:04	3330	63.52	20.447
12/21/2006	0:32:04	3340	63.52	20.448
12/21/2006	0:42:04	3350	63.52	20.45
12/21/2006	0:52:04	3360	63.52	20.45
12/21/2006	1:02:04	3370	63.52	20.453
12/21/2006	1:12:04	3380	63.52	20.453
12/21/2006	1:22:04	3390	63.52	20.453
12/21/2006	1:32:04	3400	63.52	20.455
12/21/2006	1:42:04	3410	63.52	20.456
12/21/2006	1:52:04	3420	63.52	20.46
12/21/2006	2:02:04	3430	63.52	20.46
12/21/2006	2:12:04	3440	63.52	20.46
12/21/2006	2:22:04	3450	63.52	20.461
12/21/2006	2:32:04	3460	63.52	20.463
12/21/2006	2:42:04	3470	63.52	20.465
12/21/2006	2:52:04	3480	63.52	20.466
12/21/2006	3:02:04	3490	63.52	20.469



# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/21/2006	3:12:04	3500	63.52	20.468
12/21/2006	3:22:04	3510	63.52	20.469
12/21/2006	3:32:04	3520	63.52	20.473
12/21/2006	3:42:04	3530	63.52	20.469
12/21/2006	3:52:04	3540	63.52	20.471
12/21/2006	4:02:04	3550	63.52	20.473
12/21/2006	4:12:04	3560	63.52	20.479
12/21/2006	4:22:04	3570	63.52	20.478
12/21/2006	4:32:04	3580	63.52	20.473
12/21/2006	4:42:04	3590	63.52	20.479
12/21/2006	4:52:04	3600	63.52	20.483
12/21/2006	5:02:04	3610	63.52	20.483
12/21/2006	5:12:04	3620	63.52	20.486
12/21/2006	5:22:04	3630	63.52	20.486
12/21/2006	5:32:04	3640	63.52	20.488
12/21/2006	5:42:04	3650	63.52	20.489
12/21/2006	5:52:04	3660	63.52	20.489
12/21/2006	6:02:04	3670	63.52	20.491
12/21/2006	6:12:04	3680	63.52	20.489
12/21/2006	6:22:04	3690	63.52	20.492
12/21/2006	6:32:04	3700	63.52	20.494
12/21/2006	6:42:04	3710	63.52	20.496
12/21/2006	6:52:04	3720	63.52	20.497
12/21/2006	7:02:04	3730	63.52	20.499
12/21/2006	7:12:04	3740	63.52	20.501
12/21/2006	7:22:04	3750	63.52	20.501
12/21/2006	7:32:04	3760	63.52	20.504
12/21/2006	7:42:04	3770	63.52	20.502
12/21/2006	7:52:04	3780	63.52	20.507
12/21/2006	8:02:04	3790	63.52	20.509
12/21/2006	8:12:04	3800	63.52	20.511
12/21/2006	8:22:04	3810	63.52	20.512
12/21/2006	8:32:04	3820	63.52	20.514
12/21/2006	8:42:04	3830	63.52	20.509
12/21/2006	8:52:04	3840	63.52	20.514
12/21/2006	9:02:04	3850	63.52	20.512
12/21/2006	9:12:04	3860	63.52	20.517
12/21/2006	9:22:04	3870	63.52	20.519
12/21/2006	9:32:04	3880	63.52	20.52
12/21/2006	9:42:04	3890	63.52	20.522
12/21/2006	9:52:04	3900	63.52	20.52
12/21/2006	10:02:04	3910	63.52	20.525
12/21/2006	10:12:04	3920	63.52	20.524
12/21/2006	10:22:04	3930	63.52	20.524
12/21/2006	10:32:04	3940	63.52	20.527
12/21/2006	10:42:04	3950	63.52	20.525
12/21/2006	10:52:04	3960	63.52	20.529
12/21/2006	11:02:04	3970	63.52	20.529
12/21/2006	11:12:04	3980	63.52	20.53
12/21/2006	11:22:04	3990	63.52	20.529

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/21/2006	11:32:04	4000	63.52	20.532
12/21/2006	11:42:04	4010	63.52	20.534
12/21/2006	11:52:04	4020	63.52	20.534
12/21/2006	12:02:04	4030	63.52	20.532
12/21/2006	12:12:04	4040	63.52	20.538
12/21/2006	12:22:04	4050	63.52	20.537
12/21/2006	12:32:04	4060	63.52	20.54
12/21/2006	12:42:04	4070	63.52	20.542
12/21/2006	12:52:04	4080	63.52	20.545
12/21/2006	13:02:04	4090	63.52	20.543
12/21/2006	13:12:04	4100	63.52	20.54
12/21/2006	13:22:04	4110	63.52	20.543
12/21/2006	13:32:04	4120	50.89	48.985
12/21/2006	13:42:04	4130	48.04	48.992
12/21/2006	13:52:04	4140	47.54	48.991
12/21/2006	14:02:04	4150	47.47	48.989
12/21/2006	14:12:04	4160	47.19	48.99
12/21/2006	14:22:04	4170	47.24	48.968
12/21/2006	14:32:04	4180	49.12	48.966
12/21/2006	14:42:04	4190	53.73	27.416
12/21/2006	14:52:04	4200	62.35	20.617
12/21/2006	15:02:04	4210	62.61	20.617
12/21/2006	15:12:04	4220	62.74	20.631
12/21/2006	15:22:04	4230	62.86	20.632
12/21/2006	15:32:04	4240	62.93	20.635
12/21/2006	15:42:04	4250	62.99	20.628
12/21/2006	15:52:04	4260	63.04	20.628
12/21/2006	16:02:04	4270	63.09	20.634
12/21/2006	16:12:04	4280	63.13	20.618
12/21/2006	16:22:04	4290	63.15	20.615
12/21/2006	16:32:04	4300	63.2	20.613
12/21/2006	16:42:04	4310	63.22	20.608
12/21/2006	16:52:04	4320	63.24	20.608
12/21/2006	17:02:04	4330	63.24	20.61
12/21/2006	17:12:04	4340	63.27	20.609
12/21/2006	17:22:04	4350	63.29	20.609
12/21/2006	17:32:04	4360	63.29	20.66
12/21/2006	17:42:04	4370	63.31	20.68
12/21/2006	17:52:04	4380	63.31	20.696
12/21/2006	18:02:04	4390	63.31	20.672
12/21/2006	18:12:04	4400	63.29	20.074
12/21/2006	18:22:04	4410	63.31	19.997
12/21/2006	18:32:04	4420	63.31	19.944
12/21/2006	18:42:04	4430	63.34	19.897
12/21/2006	18:52:04	4440	63.34	19.853
12/21/2006	19:02:04	4450	63.34	19.818
12/21/2006	19:12:04	4460	63.34	19.779
12/21/2006	19:22:04	4470	63.36	19.75
12/21/2006	19:32:04	4480	63.36	19.722
12/21/2006	19:42:04	4490	63.36	19.697

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/21/2006	19:52:04	4500	63.38	19.673
12/21/2006	20:02:04	4510	63.38	19.65
12/21/2006	20:12:04	4520	63.38	19.629
12/21/2006	20:22:04	4530	63.38	19.611
12/21/2006	20:32:04	4540	63.38	19.593
12/21/2006	20:42:04	4550	63.38	19.573
12/21/2006	20:52:04	4560	63.4	19.562
12/21/2006	21:02:04	4570	63.4	19.542
12/21/2006	21:12:04	4580	63.4	19.526
12/21/2006	21:22:04	4590	63.4	19.514
12/21/2006	21:32:04	4600	63.4	19.501
12/21/2006	21:42:04	4610	63.4	19.486
12/21/2006	21:52:04	4620	63.4	19.475
12/21/2006	22:02:04	4630	63.43	19.463
12/21/2006	22:12:04	4640	63.43	19.45
12/21/2006	22:22:04	4650	63.43	19.437
12/21/2006	22:32:04	4660	63.43	19.427
12/21/2006	22:42:04	4670	63.43	19.414
12/21/2006	22:52:04	4680	63.43	19.408
12/21/2006	23:02:04	4690	63.43	19.398
12/21/2006	23:12:04	4700	63.43	19.386
12/21/2006	23:22:04	4710	63.43	19.376
12/21/2006	23:32:04	4720	63.43	19.368
12/21/2006	23:42:04	4730	63.45	19.357
12/21/2006	23:52:04	4740	63.45	19.347
12/22/2006	0:02:04	4750	63.45	19.344
12/22/2006	0:12:04	4760	63.45	19.326
12/22/2006	0:22:04	4770	63.45	19.321
12/22/2006	0:32:04	4780	63.45	19.314
12/22/2006	0:42:04	4790	63.45	19.306
12/22/2006	0:52:04	4800	63.45	19.298
12/22/2006	1:02:04	4810	63.45	19.29
12/22/2006	1:12:04	4820	63.45	19.283
12/22/2006	1:22:04	4830	63.45	19.273
12/22/2006	1:32:04	4840	63.45	19.268
12/22/2006	1:42:04	4850	63.47	19.261
12/22/2006	1:52:04	4860	63.47	19.259
12/22/2006	2:02:04	4870	63.47	19.249
12/22/2006	2:12:04	4880	63.47	19.241
12/22/2006	2:22:04	4890	63.47	19.238
12/22/2006	2:32:04	4900	63.47	19.229
12/22/2006	2:42:04	4910	63.47	19.224
12/22/2006	2:52:04	4920	63.47	19.218
12/22/2006	3:02:04	4930	63.47	19.213
12/22/2006	3:12:04	4940	63.47	19.206
12/22/2006	3:22:04	4950	63.47	19.201
12/22/2006	3:32:04	4960	63.47	19.198
12/22/2006	3:42:04	4970	63.47	19.187
12/22/2006	3:52:04	4980	63.47	19.185
12/22/2006	4:02:04	4990	63.47	19.18

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/22/2006	4:12:04	5000	63.47	19.177
12/22/2006	4:22:04	5010	63.47	19.174
12/22/2006	4:32:04	5020	63.47	19.165
12/22/2006	4:42:04	5030	63.47	19.165
12/22/2006	4:52:04	5040	63.47	19.157
12/22/2006	5:02:04	5050	63.47	19.152
12/22/2006	5:12:04	5060	63.5	19.148
12/22/2006	5:22:04	5070	63.47	19.146
12/22/2006	5:32:04	5080	63.47	19.141
12/22/2006	5:42:04	5090	63.47	19.136
12/22/2006	5:52:04	5100	63.47	19.131
12/22/2006	6:02:04	5110	63.5	19.126
12/22/2006	6:12:04	5120	63.5	19.126
12/22/2006	6:22:04	5130	63.5	19.118
12/22/2006	6:32:04	5140	63.5	19.116
12/22/2006	6:42:04	5150	63.5	19.112
12/22/2006	6:52:04	5160	63.5	19.11
12/22/2006	7:02:04	5170	63.5	19.103
12/22/2006	7:12:04	5180	63.47	19.101
12/22/2006	7:22:04	5190	63.47	19.1
12/22/2006	7:32:04	5200	63.5	19.092
12/22/2006	7:42:04	5210	63.5	19.095
12/22/2006	7:52:04	5220	63.5	19.089
12/22/2006	8:02:04	5230	63.5	19.085
12/22/2006	8:12:04	5240	63.5	19.079
12/22/2006	8:22:04	5250	63.5	19.082
12/22/2006	8:32:04	5260	63.5	19.077
12/22/2006	8:42:04	5270	63.5	19.072
12/22/2006	8:52:04	5280	63.5	19.069
12/22/2006	9:02:04	5290	63.5	19.067
12/22/2006	9:12:04	5300	63.5	19.062
12/22/2006	9:22:04	5310	63.5	19.064
12/22/2006	9:32:04	5320	63.5	19.057
12/22/2006	9:42:04	5330	63.5	19.056
12/22/2006	9:52:04	5340	63.5	19.051
12/22/2006	10:02:04	5350	63.5	19.052
12/22/2006	10:12:04	5360	63.5	19.046
12/22/2006	10:22:04	5370	63.5	19.044
12/22/2006	10:32:04	5380	63.5	19.041
12/22/2006	10:42:04	5390	63.5	19.034
12/22/2006	10:52:04	5400	63.5	19.029
12/22/2006	11:02:04	5410	63.5	19.033
12/22/2006	11:12:04	5420	63.5	19.026
12/22/2006	11:22:04	5430	63.5	19.031
12/22/2006	11:32:04	5440	63.5	19.024
12/22/2006	11:42:04	5450	63.5	19.021
12/22/2006	11:52:04	5460	63.5	19.02
12/22/2006	12:02:04	5470	63.5	19.018
12/22/2006	12:12:04	5480	63.5	19.013
12/22/2006	12:22:04	5490	63.5	19.015

# MW-75D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[1]	Chan[2]
			Temperature	Pressure
Date	Time	ET (min)	Fahrenheit	Feet H2O
-----	-----	-----	-----	-----
12/22/2006	12:32:04	5500	63.5	19.01
12/22/2006	12:42:04	5510	63.5	19.006
12/22/2006	12:52:04	5520	63.5	19.005
12/22/2006	13:02:04	5530	63.5	19
12/22/2006	13:12:04	5540	63.5	19
12/22/2006	13:22:04	5550	63.52	18.999
12/22/2006	13:32:04	5560	63.5	18.997
12/22/2006	13:42:04	5570	63.5	18.993
12/22/2006	13:52:04	5580	63.5	18.992
12/22/2006	14:02:04	5590	63.5	18.99
12/22/2006	14:12:04	5600	63.5	18.985
12/22/2006	14:22:04	5610	63.5	18.983
12/22/2006	14:32:04	5620	63.5	18.98
12/22/2006	14:42:04	5630	63.5	18.979
12/22/2006	14:52:04	5640	63.5	18.977
12/22/2006	15:02:04	5650	63.5	18.977
12/22/2006	15:12:04	5660	63.5	18.972
12/22/2006	15:22:04	5670	63.5	18.964
12/22/2006	15:32:04	5680	63.5	18.959
12/22/2006	15:42:04	5690	63.5	18.967
12/22/2006	15:52:04	5700	63.5	18.957
12/22/2006	16:02:04	5710	63.5	18.952
12/22/2006	16:12:04	5720	63.5	18.949
12/22/2006	16:22:04	5730	63.5	18.937
12/22/2006	16:32:04	5740	63.5	18.933
12/22/2006	16:42:04	5750	63.5	18.928
12/22/2006	16:52:04	5760	63.5	18.921
12/22/2006	17:02:04	5770	63.5	18.916
12/22/2006	17:12:04	5780	63.5	18.908
12/22/2006	17:22:04	5790	63.5	18.901
12/22/2006	17:32:04	5800	63.5	18.895
12/22/2006	17:42:04	5810	63.5	18.887
12/22/2006	17:52:04	5820	63.5	18.875
12/22/2006	18:02:04	5830	63.5	18.865
12/22/2006	18:12:04	5840	63.5	18.855
12/22/2006	18:22:04	5850	63.5	18.847
12/22/2006	18:32:04	5860	63.5	18.834
12/22/2006	18:42:04	5870	63.5	18.823
12/22/2006	18:52:04	5880	63.5	18.809
12/22/2006	19:02:04	5890	63.5	18.796
12/22/2006	19:12:04	5900	63.5	18.785
12/22/2006	19:22:04	5910	63.5	18.773
12/22/2006	19:32:04	5920	63.5	18.762
12/22/2006	19:42:04	5930	63.5	18.754
12/22/2006	19:52:04	5940	63.5	18.739
12/22/2006	20:02:04	5950	63.5	18.731
12/22/2006	20:12:04	5960	63.5	18.718
12/22/2006	20:22:04	5970	63.5	18.709
12/22/2006	20:32:04	5980	63.5	18.696
12/22/2006	20:42:04	5990	63.5	18.686

**MW-93S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-93S	SLM	12/18/06 17:35	0	18.63		start test
MW-93S	SLM	12/18/06 18:42	67	18.66	0.03	
MW-93S	SLM	12/18/06 19:40	125	18.70	0.07	
MW-93S	SLM	12/18/06 20:49	194	18.73	0.10	
MW-93S	SLM	12/18/06 21:40	245	18.76	0.13	
MW-93S	SRL	12/18/06 22:46	311	18.82	0.19	
MW-93S	SRL	12/18/06 23:13	338	18.82	0.19	
MW-93S	SRL	12/18/06 23:39	364	18.84	0.21	
MW-93S	SRL	12/19/06 0:40	425	18.86	0.23	
MW-93S	SRL	12/19/06 1:40	485	18.89	0.26	
MW-93S	SRL	12/19/06 2:39	544	18.92	0.29	
MW-93S	SRL	12/19/06 3:39	604	18.96	0.33	
MW-93S	SRL	12/19/06 4:39	664	18.97	0.34	
MW-93S	SRL	12/19/06 5:39	724	18.99	0.36	
MW-93S	EMW	12/19/06 6:39	784	19.02	0.39	
MW-93S	EMW	12/19/06 7:39	844	19.03	0.40	
MW-93S	EMW	12/19/06 8:39	904	19.03	0.40	
MW-93S	EMW	12/19/06 9:41	966	19.07	0.44	
MW-93S	EMW	12/19/06 10:48	1033	19.11	0.48	
MW-93S	EMW	12/19/06 11:40	1085	19.11	0.48	
MW-93S	EMW	12/19/06 13:39	1204	19.18	0.55	purged well prior to this reading
MW-93S	EMW	12/19/06 14:39	1264	19.18	0.55	
MW-93S	EMW	12/19/06 15:41	1326	19.19	0.56	
MW-93S	EMW	12/19/06 16:40	1385	19.21	0.58	
MW-93S	EMW	12/19/06 17:40	1445	19.22	0.59	
MW-93S	SRL	12/19/06 18:39	1504	19.25	0.62	
MW-93S	SRL	12/19/06 19:39	1564	19.28	0.65	
MW-93S	SRL	12/19/06 20:39	1624	19.27	0.64	
MW-93S	SRL	12/19/06 21:39	1684	19.31	0.68	
MW-93S	SRL	12/19/06 22:39	1744	19.32	0.69	
MW-93S	SRL	12/19/06 23:39	1804	19.33	0.70	
MW-93S	SRL	12/20/06 0:39	1864	19.36	0.73	
MW-93S	SRL	12/20/06 1:39	1924	19.39	0.76	
MW-93S	SRL	12/20/06 2:39	1984	19.40	0.77	
MW-93S	SRL	12/20/06 3:39	2044	19.39	0.76	
MW-93S	SRL	12/20/06 4:39	2104	19.41	0.78	
MW-93S	SRL	12/20/06 5:39	2164	19.43	0.80	
MW-93S	EMW	12/20/06 6:39	2224	19.43	0.80	
MW-93S	EMW	12/20/06 7:39	2284	19.43	0.80	
MW-93S	EMW	12/20/06 8:39	2344	19.45	0.82	
MW-93S	EMW	12/20/06 9:39	2404	19.47	0.84	
MW-93S	EMW	12/20/06 10:45	2470	19.47	0.84	
MW-93S	EMW	12/20/06 11:39	2524	19.48	0.85	
MW-93S	EMW	12/20/06 12:38	2583	19.49	0.86	
MW-93S	EMW	12/20/06 13:39	2644	19.50	0.87	
MW-93S	EMW	12/20/06 14:42	2707	19.56	0.93	
MW-93S	EMW	12/20/06 15:41	2766	19.55	0.92	
MW-93S	EMW	12/20/06 16:38	2823	19.55	0.92	
MW-93S	EMW	12/20/06 17:40	2885	19.55	0.92	
MW-93S	SRL	12/20/06 18:39	2944	19.58	0.95	
MW-93S	SRL	12/20/06 19:39	3004	19.59	0.96	

**MW-93S Data Sheet**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-93S	SRL	12/20/06 20:39	3064	19.60	0.97	
MW-93S	SRL	12/20/06 21:39	3124	19.61	0.98	
MW-93S	SRL	12/20/06 22:39	3184	19.61	0.98	
MW-93S	SRL	12/20/06 23:39	3244	19.62	0.99	
MW-93S	SRL	12/21/06 0:39	3304	19.64	1.01	
MW-93S	SRL	12/21/06 1:39	3364	19.64	1.01	
MW-93S	SRL	12/21/06 2:39	3424	19.67	1.04	
MW-93S	SRL	12/21/06 3:39	3484	19.66	1.03	
MW-93S	SRL	12/21/06 4:39	3544	19.67	1.04	
MW-93S	SRL	12/21/06 5:39	3604	19.69	1.06	
MW-93S	EMW	12/21/06 6:40	3665	19.68	1.05	
MW-93S	EMW	12/21/06 7:40	3725	19.69	1.06	
MW-93S	EMW	12/21/06 8:40	3785	19.69	1.06	
MW-93S	EMW	12/21/06 9:42	3847	19.71	1.08	
MW-93S	EMW	12/21/06 10:39	3904	19.72	1.09	
MW-93S	EMW	12/21/06 12:41	4026	19.74	1.11	purged well prior to this reading
MW-93S	EMW	12/21/06 13:39	4084	19.75	1.12	
MW-93S	EMW	12/21/06 14:40	4145	19.74	1.11	
MW-93S	EMW	12/21/06 15:41	4206	19.74	1.11	
MW-93S	EMW	12/21/06 16:42	4267	19.75	1.12	
MW-93S	SLM	12/21/06 19:13	4418	19.74	1.11	1ST RECOVERY
MW-93S	SRL	12/21/06 20:09	4474	19.70	1.07	
MW-93S	SRL	12/21/06 21:09	4534	19.67	1.04	
MW-93S	SRL	12/21/06 22:09	4594	19.64	1.01	
MW-93S	SRL	12/21/06 23:09	4654	19.61	0.98	
MW-93S	SRL	12/22/06 0:09	4714	19.59	0.96	
MW-93S	SRL	12/22/06 1:09	4774	19.55	0.92	
MW-93S	EMW	12/22/06 6:55	5120	19.36	0.73	
MW-93S	EMW	12/22/06 7:41	5166	19.36	0.73	
MW-93S	EMW	12/22/06 8:40	5225	19.33	0.70	
MW-93S	EMW	12/22/06 9:40	5285	19.33	0.70	
MW-93S	EMW	12/22/06 10:40	5345	19.33	0.70	
MW-93S	EMW	12/22/06 11:40	5405	19.31	0.68	
MW-93S	EMW	12/22/06 12:40	5465	19.30	0.67	
MW-93S	EMW	12/22/06 13:40	5525	19.29	0.66	
MW-93S	SLM	12/22/06 15:38	5643	19.26	0.63	

feet below TOC - Feet below top of casing

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/18/2006	16:56:32	0	18.28
12/18/2006	17:06:32	10	18.282
12/18/2006	17:16:32	20	18.284
12/18/2006	17:26:32	30	18.282
12/18/2006	17:36:32	40	18.328
12/18/2006	17:46:32	50	18.396
12/18/2006	17:56:32	60	18.399
12/18/2006	18:06:32	70	18.415
12/18/2006	18:16:32	80	18.426
12/18/2006	18:26:32	90	18.436
12/18/2006	18:36:32	100	18.44
12/18/2006	18:46:32	110	18.451
12/18/2006	18:56:32	120	18.453
12/18/2006	19:06:32	130	18.467
12/18/2006	19:16:32	140	18.482
12/18/2006	19:26:32	150	18.486
12/18/2006	19:36:32	160	18.463
12/18/2006	19:46:32	170	18.49
12/18/2006	19:56:32	180	18.496
12/18/2006	20:06:32	190	18.505
12/18/2006	20:16:32	200	18.511
12/18/2006	20:26:32	210	18.515
12/18/2006	20:36:32	220	18.523
12/18/2006	20:46:32	230	18.528
12/18/2006	20:56:32	240	18.532
12/18/2006	21:06:32	250	18.536
12/18/2006	21:16:32	260	18.544
12/18/2006	21:26:32	270	18.55
12/18/2006	21:36:32	280	18.553
12/18/2006	21:46:32	290	18.557
12/18/2006	21:56:32	300	18.567
12/18/2006	22:06:32	310	18.571
12/18/2006	22:16:32	320	18.576
12/18/2006	22:26:32	330	18.58
12/18/2006	22:36:32	340	18.584
12/18/2006	22:46:32	350	18.592
12/18/2006	22:56:32	360	18.594
12/18/2006	23:06:32	370	18.6
12/18/2006	23:16:32	380	18.607
12/18/2006	23:26:32	390	18.611
12/18/2006	23:36:32	400	18.615
12/18/2006	23:46:32	410	18.619
12/18/2006	23:56:32	420	18.625
12/19/2006	0:06:32	430	18.627
12/19/2006	0:16:32	440	18.63
12/19/2006	0:26:32	450	18.638
12/19/2006	0:36:32	460	18.642
12/19/2006	0:46:32	470	18.644
12/19/2006	0:56:32	480	18.648



# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	1:06:32	490	18.652
12/19/2006	1:16:32	500	18.656
12/19/2006	1:26:32	510	18.661
12/19/2006	1:36:32	520	18.665
12/19/2006	1:46:32	530	18.669
12/19/2006	1:56:32	540	18.677
12/19/2006	2:06:32	550	18.679
12/19/2006	2:16:32	560	18.684
12/19/2006	2:26:32	570	18.688
12/19/2006	2:36:32	580	18.69
12/19/2006	2:46:32	590	18.694
12/19/2006	2:56:32	600	18.694
12/19/2006	3:06:32	610	18.7
12/19/2006	3:16:32	620	18.704
12/19/2006	3:26:32	630	18.709
12/19/2006	3:36:32	640	18.713
12/19/2006	3:46:32	650	18.717
12/19/2006	3:56:32	660	18.721
12/19/2006	4:06:32	670	18.725
12/19/2006	4:16:32	680	18.729
12/19/2006	4:26:32	690	18.733
12/19/2006	4:36:32	700	18.736
12/19/2006	4:46:32	710	18.738
12/19/2006	4:56:32	720	18.746
12/19/2006	5:06:32	730	18.748
12/19/2006	5:16:32	740	18.754
12/19/2006	5:26:32	750	18.756
12/19/2006	5:36:32	760	18.76
12/19/2006	5:46:32	770	18.765
12/19/2006	5:56:32	780	18.767
12/19/2006	6:06:32	790	18.773
12/19/2006	6:16:32	800	18.773
12/19/2006	6:26:32	810	18.802
12/19/2006	6:36:32	820	18.783
12/19/2006	6:46:32	830	18.786
12/19/2006	6:56:32	840	18.79
12/19/2006	7:06:32	850	18.794
12/19/2006	7:16:32	860	18.796
12/19/2006	7:26:32	870	18.8
12/19/2006	7:36:32	880	18.808
12/19/2006	7:46:32	890	18.811
12/19/2006	7:56:32	900	18.813
12/19/2006	8:06:32	910	18.815
12/19/2006	8:16:32	920	18.819
12/19/2006	8:26:32	930	18.821
12/19/2006	8:36:32	940	18.825
12/19/2006	8:46:32	950	18.829
12/19/2006	8:56:32	960	18.831
12/19/2006	9:06:32	970	18.838

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	9:16:32	980	18.837
12/19/2006	9:26:32	990	18.837
12/19/2006	9:36:32	1000	18.844
12/19/2006	9:46:32	1010	18.848
12/19/2006	9:56:32	1020	18.848
12/19/2006	10:06:32	1030	18.852
12/19/2006	10:16:32	1040	18.869
12/19/2006	10:26:32	1050	18.858
12/19/2006	10:36:32	1060	18.86
12/19/2006	10:46:32	1070	18.86
12/19/2006	10:56:32	1080	18.863
12/19/2006	11:06:32	1090	18.867
12/19/2006	11:16:32	1100	18.867
12/19/2006	11:26:32	1110	18.871
12/19/2006	11:36:32	1120	18.871
12/19/2006	11:46:32	1130	18.877
12/19/2006	11:56:32	1140	18.885
12/19/2006	12:06:32	1150	18.885
12/19/2006	12:16:32	1160	18.889
12/19/2006	12:26:32	1170	69.383
12/19/2006	12:36:32	1180	69.389
12/19/2006	12:46:32	1190	69.394
12/19/2006	12:56:32	1200	69.401
12/19/2006	13:06:32	1210	69.429
12/19/2006	13:16:32	1220	69.423
12/19/2006	13:26:32	1230	69.425
12/19/2006	13:36:32	1240	69.441
12/19/2006	13:46:32	1250	69.386
12/19/2006	13:56:32	1260	69.392
12/19/2006	14:06:32	1270	18.93
12/19/2006	14:16:32	1280	18.915
12/19/2006	14:26:32	1290	18.915
12/19/2006	14:36:32	1300	18.911
12/19/2006	14:46:32	1310	18.911
12/19/2006	14:56:32	1320	18.916
12/19/2006	15:06:32	1330	18.922
12/19/2006	15:16:32	1340	18.922
12/19/2006	15:26:32	1350	18.924
12/19/2006	15:36:32	1360	18.926
12/19/2006	15:46:32	1370	18.928
12/19/2006	15:56:32	1380	18.93
12/19/2006	16:06:32	1390	18.926
12/19/2006	16:16:32	1400	18.929
12/19/2006	16:26:32	1410	18.941
12/19/2006	16:36:32	1420	18.947
12/19/2006	16:46:32	1430	18.95
12/19/2006	16:56:32	1440	18.947
12/19/2006	17:06:32	1450	18.952
12/19/2006	17:16:32	1460	18.954

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/19/2006	17:26:32	1470	18.954
12/19/2006	17:36:32	1480	18.956
12/19/2006	17:46:32	1490	18.954
12/19/2006	17:56:32	1500	18.96
12/19/2006	18:06:32	1510	18.96
12/19/2006	18:16:32	1520	18.964
12/19/2006	18:26:32	1530	18.968
12/19/2006	18:36:32	1540	18.976
12/19/2006	18:46:32	1550	18.981
12/19/2006	18:56:32	1560	18.985
12/19/2006	19:06:32	1570	18.993
12/19/2006	19:16:32	1580	18.989
12/19/2006	19:26:32	1590	18.989
12/19/2006	19:36:32	1600	18.995
12/19/2006	19:46:32	1610	18.987
12/19/2006	19:56:32	1620	18.991
12/19/2006	20:06:32	1630	18.993
12/19/2006	20:16:32	1640	18.995
12/19/2006	20:26:32	1650	18.995
12/19/2006	20:36:32	1660	19.001
12/19/2006	20:46:32	1670	18.998
12/19/2006	20:56:32	1680	19.004
12/19/2006	21:06:32	1690	19.002
12/19/2006	21:16:32	1700	19.004
12/19/2006	21:26:32	1710	19.006
12/19/2006	21:36:32	1720	19.008
12/19/2006	21:46:32	1730	19.024
12/19/2006	21:56:32	1740	19.01
12/19/2006	22:06:32	1750	19.01
12/19/2006	22:16:32	1760	19.016
12/19/2006	22:26:32	1770	19.014
12/19/2006	22:36:32	1780	19.022
12/19/2006	22:46:32	1790	19.021
12/19/2006	22:56:32	1800	19.023
12/19/2006	23:06:32	1810	19.024
12/19/2006	23:16:32	1820	19.027
12/19/2006	23:26:32	1830	19.029
12/19/2006	23:36:32	1840	19.031
12/19/2006	23:46:32	1850	19.033
12/19/2006	23:56:32	1860	19.039
12/20/2006	0:06:32	1870	19.035
12/20/2006	0:16:32	1880	19.039
12/20/2006	0:26:32	1890	19.041
12/20/2006	0:36:32	1900	19.043
12/20/2006	0:46:32	1910	19.045
12/20/2006	0:56:32	1920	19.047
12/20/2006	1:06:32	1930	19.051
12/20/2006	1:16:32	1940	19.053
12/20/2006	1:26:32	1950	19.052

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/20/2006	1:36:32	1960	19.053
12/20/2006	1:46:32	1970	19.054
12/20/2006	1:56:32	1980	19.06
12/20/2006	2:06:32	1990	19.058
12/20/2006	2:16:32	2000	19.06
12/20/2006	2:26:32	2010	19.06
12/20/2006	2:36:32	2020	19.062
12/20/2006	2:46:32	2030	19.064
12/20/2006	2:56:32	2040	19.064
12/20/2006	3:06:32	2050	19.066
12/20/2006	3:16:32	2060	19.068
12/20/2006	3:26:32	2070	19.07
12/20/2006	3:36:32	2080	19.073
12/20/2006	3:46:32	2090	19.072
12/20/2006	3:56:32	2100	19.075
12/20/2006	4:06:32	2110	19.079
12/20/2006	4:16:32	2120	19.079
12/20/2006	4:26:32	2130	19.079
12/20/2006	4:36:32	2140	19.079
12/20/2006	4:46:32	2150	19.085
12/20/2006	4:56:32	2160	19.089
12/20/2006	5:06:32	2170	19.089
12/20/2006	5:16:32	2180	19.074
12/20/2006	5:26:32	2190	19.095
12/20/2006	5:36:32	2200	19.095
12/20/2006	5:46:32	2210	19.097
12/20/2006	5:56:32	2220	19.097
12/20/2006	6:06:32	2230	19.098
12/20/2006	6:16:32	2240	19.103
12/20/2006	6:26:32	2250	19.103
12/20/2006	6:36:32	2260	19.105
12/20/2006	6:46:32	2270	19.108
12/20/2006	6:56:32	2280	19.11
12/20/2006	7:06:32	2290	19.112
12/20/2006	7:16:32	2300	19.114
12/20/2006	7:26:32	2310	19.118
12/20/2006	7:36:32	2320	19.118
12/20/2006	7:46:32	2330	19.112
12/20/2006	7:56:32	2340	19.12
12/20/2006	8:06:32	2350	19.123
12/20/2006	8:16:32	2360	19.122
12/20/2006	8:26:32	2370	19.125
12/20/2006	8:36:32	2380	19.129
12/20/2006	8:46:32	2390	19.135
12/20/2006	8:56:32	2400	19.127
12/20/2006	9:06:32	2410	19.133
12/20/2006	9:16:32	2420	19.135
12/20/2006	9:26:32	2430	19.139
12/20/2006	9:36:32	2440	19.139

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/20/2006	9:46:32	2450	19.137
12/20/2006	9:56:32	2460	19.148
12/20/2006	10:06:32	2470	19.141
12/20/2006	10:16:32	2480	19.143
12/20/2006	10:26:32	2490	19.143
12/20/2006	10:36:32	2500	19.145
12/20/2006	10:46:32	2510	19.191
12/20/2006	10:56:32	2520	19.143
12/20/2006	11:06:32	2530	19.147
12/20/2006	11:16:32	2540	19.147
12/20/2006	11:26:32	2550	19.147
12/20/2006	11:36:32	2560	19.148
12/20/2006	11:46:32	2570	19.15
12/20/2006	11:56:32	2580	19.148
12/20/2006	12:06:32	2590	19.152
12/20/2006	12:16:32	2600	19.152
12/20/2006	12:26:32	2610	19.152
12/20/2006	12:36:32	2620	19.156
12/20/2006	12:46:32	2630	19.156
12/20/2006	12:56:32	2640	19.156
12/20/2006	13:06:32	2650	19.157
12/20/2006	13:16:32	2660	19.157
12/20/2006	13:26:32	2670	19.16
12/20/2006	13:36:32	2680	19.16
12/20/2006	13:46:32	2690	19.164
12/20/2006	13:56:32	2700	19.166
12/20/2006	14:06:32	2710	19.162
12/20/2006	14:16:32	2720	19.166
12/20/2006	14:26:32	2730	19.168
12/20/2006	14:36:32	2740	19.17
12/20/2006	14:46:32	2750	19.168
12/20/2006	14:56:32	2760	19.174
12/20/2006	15:06:32	2770	19.172
12/20/2006	15:16:32	2780	19.175
12/20/2006	15:26:32	2790	19.175
12/20/2006	15:36:32	2800	19.177
12/20/2006	15:46:32	2810	19.18
12/20/2006	15:56:32	2820	19.179
12/20/2006	16:06:32	2830	19.183
12/20/2006	16:16:32	2840	19.183
12/20/2006	16:26:32	2850	19.183
12/20/2006	16:36:32	2860	19.187
12/20/2006	16:46:32	2870	19.187
12/20/2006	16:56:32	2880	19.189
12/20/2006	17:06:32	2890	19.191
12/20/2006	17:16:32	2900	19.193
12/20/2006	17:26:32	2910	19.193
12/20/2006	17:36:32	2920	19.195
12/20/2006	17:46:32	2930	19.195

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/20/2006	17:56:32	2940	19.197
12/20/2006	18:06:32	2950	19.203
12/20/2006	18:16:32	2960	19.197
12/20/2006	18:26:32	2970	19.2
12/20/2006	18:36:32	2980	19.202
12/20/2006	18:46:32	2990	19.207
12/20/2006	18:56:32	3000	19.209
12/20/2006	19:06:32	3010	19.208
12/20/2006	19:16:32	3020	19.208
12/20/2006	19:26:32	3030	19.208
12/20/2006	19:36:32	3040	19.212
12/20/2006	19:46:32	3050	19.22
12/20/2006	19:56:32	3060	19.224
12/20/2006	20:06:32	3070	19.222
12/20/2006	20:16:32	3080	19.227
12/20/2006	20:26:32	3090	19.226
12/20/2006	20:36:32	3100	19.228
12/20/2006	20:46:32	3110	19.229
12/20/2006	20:56:32	3120	19.227
12/20/2006	21:06:32	3130	19.232
12/20/2006	21:16:32	3140	19.234
12/20/2006	21:26:32	3150	19.235
12/20/2006	21:36:32	3160	19.233
12/20/2006	21:46:32	3170	19.234
12/20/2006	21:56:32	3180	19.233
12/20/2006	22:06:32	3190	19.237
12/20/2006	22:16:32	3200	19.239
12/20/2006	22:26:32	3210	19.241
12/20/2006	22:36:32	3220	19.241
12/20/2006	22:46:32	3230	19.241
12/20/2006	22:56:32	3240	19.243
12/20/2006	23:06:32	3250	19.245
12/20/2006	23:16:32	3260	19.247
12/20/2006	23:26:32	3270	19.249
12/20/2006	23:36:32	3280	19.249
12/20/2006	23:46:32	3290	19.249
12/20/2006	23:56:32	3300	19.251
12/21/2006	0:06:32	3310	19.251
12/21/2006	0:16:32	3320	19.251
12/21/2006	0:26:32	3330	19.254
12/21/2006	0:36:32	3340	19.255
12/21/2006	0:46:32	3350	19.257
12/21/2006	0:56:32	3360	19.257
12/21/2006	1:06:32	3370	19.257
12/21/2006	1:16:32	3380	19.26
12/21/2006	1:26:32	3390	19.26
12/21/2006	1:36:32	3400	19.26
12/21/2006	1:46:32	3410	19.262
12/21/2006	1:56:32	3420	19.264

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	2:06:32	3430	19.266
12/21/2006	2:16:32	3440	19.262
12/21/2006	2:26:32	3450	19.268
12/21/2006	2:36:32	3460	19.27
12/21/2006	2:46:32	3470	19.27
12/21/2006	2:56:32	3480	19.27
12/21/2006	3:06:32	3490	19.27
12/21/2006	3:16:32	3500	19.272
12/21/2006	3:26:32	3510	19.27
12/21/2006	3:36:32	3520	19.276
12/21/2006	3:46:32	3530	19.272
12/21/2006	3:56:32	3540	19.276
12/21/2006	4:06:32	3550	19.276
12/21/2006	4:16:32	3560	19.276
12/21/2006	4:26:32	3570	19.279
12/21/2006	4:36:32	3580	19.32
12/21/2006	4:46:32	3590	19.281
12/21/2006	4:56:32	3600	19.282
12/21/2006	5:06:32	3610	19.286
12/21/2006	5:16:32	3620	19.287
12/21/2006	5:26:32	3630	19.285
12/21/2006	5:36:32	3640	19.289
12/21/2006	5:46:32	3650	19.289
12/21/2006	5:56:32	3660	19.291
12/21/2006	6:06:32	3670	19.291
12/21/2006	6:16:32	3680	19.295
12/21/2006	6:26:32	3690	19.293
12/21/2006	6:36:32	3700	19.297
12/21/2006	6:46:32	3710	19.299
12/21/2006	6:56:32	3720	19.301
12/21/2006	7:06:32	3730	19.301
12/21/2006	7:16:32	3740	19.303
12/21/2006	7:26:32	3750	19.307
12/21/2006	7:36:32	3760	19.305
12/21/2006	7:46:32	3770	19.329
12/21/2006	7:56:32	3780	19.309
12/21/2006	8:06:32	3790	19.311
12/21/2006	8:16:32	3800	19.312
12/21/2006	8:26:32	3810	19.316
12/21/2006	8:36:32	3820	19.314
12/21/2006	8:46:32	3830	19.312
12/21/2006	8:56:32	3840	19.318
12/21/2006	9:06:32	3850	19.318
12/21/2006	9:16:32	3860	19.32
12/21/2006	9:26:32	3870	19.32
12/21/2006	9:36:32	3880	19.322
12/21/2006	9:46:32	3890	19.32
12/21/2006	9:56:32	3900	19.316
12/21/2006	10:06:32	3910	19.322

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	10:16:32	3920	19.324
12/21/2006	10:26:32	3930	19.324
12/21/2006	10:36:32	3940	19.322
12/21/2006	10:46:32	3950	19.324
12/21/2006	10:56:32	3960	19.324
12/21/2006	11:06:32	3970	19.326
12/21/2006	11:16:32	3980	19.326
12/21/2006	11:26:32	3990	19.33
12/21/2006	11:36:32	4000	19.334
12/21/2006	11:46:32	4010	19.332
12/21/2006	11:56:32	4020	69.379
12/21/2006	12:06:32	4030	69.388
12/21/2006	12:16:32	4040	69.389
12/21/2006	12:26:32	4050	69.39
12/21/2006	12:36:32	4060	69.388
12/21/2006	12:46:32	4070	69.388
12/21/2006	12:56:32	4080	69.391
12/21/2006	13:06:32	4090	69.391
12/21/2006	13:16:32	4100	19.401
12/21/2006	13:26:32	4110	19.379
12/21/2006	13:36:32	4120	19.371
12/21/2006	13:46:32	4130	19.371
12/21/2006	13:56:32	4140	19.371
12/21/2006	14:06:32	4150	19.369
12/21/2006	14:16:32	4160	19.367
12/21/2006	14:26:32	4170	19.365
12/21/2006	14:36:32	4180	19.367
12/21/2006	14:46:32	4190	19.365
12/21/2006	14:56:32	4200	19.363
12/21/2006	15:06:32	4210	19.365
12/21/2006	15:16:32	4220	19.373
12/21/2006	15:26:32	4230	19.376
12/21/2006	15:36:32	4240	19.38
12/21/2006	15:46:32	4250	19.382
12/21/2006	15:56:32	4260	19.38
12/21/2006	16:06:32	4270	19.382
12/21/2006	16:16:32	4280	19.38
12/21/2006	16:26:32	4290	19.376
12/21/2006	16:36:32	4300	19.374
12/21/2006	16:46:32	4310	19.376
12/21/2006	16:56:32	4320	19.376
12/21/2006	17:06:32	4330	19.374
12/21/2006	17:16:32	4340	19.374
12/21/2006	17:26:32	4350	19.382
12/21/2006	17:36:32	4360	19.386
12/21/2006	17:46:32	4370	19.388
12/21/2006	17:56:32	4380	19.401
12/21/2006	18:06:32	4390	19.363
12/21/2006	18:16:32	4400	19.324



# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/21/2006	18:26:32	4410	19.311
12/21/2006	18:36:32	4420	19.299
12/21/2006	18:46:32	4430	19.289
12/21/2006	18:56:32	4440	19.28
12/21/2006	19:06:32	4450	19.27
12/21/2006	19:16:32	4460	19.262
12/21/2006	19:26:32	4470	19.253
12/21/2006	19:36:32	4480	19.245
12/21/2006	19:46:32	4490	19.233
12/21/2006	19:56:32	4500	19.224
12/21/2006	20:06:32	4510	19.216
12/21/2006	20:16:32	4520	19.21
12/21/2006	20:26:32	4530	19.203
12/21/2006	20:36:32	4540	19.193
12/21/2006	20:46:32	4550	19.189
12/21/2006	20:56:32	4560	19.179
12/21/2006	21:06:32	4570	19.176
12/21/2006	21:16:32	4580	19.166
12/21/2006	21:26:32	4590	19.158
12/21/2006	21:36:32	4600	19.149
12/21/2006	21:46:32	4610	19.145
12/21/2006	21:56:32	4620	19.137
12/21/2006	22:06:32	4630	19.129
12/21/2006	22:16:32	4640	19.123
12/21/2006	22:26:32	4650	19.116
12/21/2006	22:36:32	4660	19.11
12/21/2006	22:46:32	4670	19.098
12/21/2006	22:56:32	4680	19.098
12/21/2006	23:06:32	4690	19.093
12/21/2006	23:16:32	4700	19.085
12/21/2006	23:26:32	4710	19.077
12/21/2006	23:36:32	4720	19.073
12/21/2006	23:46:32	4730	19.064
12/21/2006	23:56:32	4740	19.06
12/22/2006	0:06:32	4750	19.056
12/22/2006	0:16:32	4760	19.046
12/22/2006	0:26:32	4770	19.041
12/22/2006	0:36:32	4780	19.037
12/22/2006	0:46:32	4790	19.033
12/22/2006	0:56:32	4800	19.031
12/22/2006	1:06:32	4810	19.019
12/22/2006	1:16:32	4820	19.016
12/22/2006	1:26:32	4830	19.014
12/22/2006	1:36:32	4840	19.008
12/22/2006	1:46:32	4850	19.006
12/22/2006	1:56:32	4860	18.999
12/22/2006	2:06:32	4870	18.993
12/22/2006	2:16:32	4880	18.991
12/22/2006	2:26:32	4890	18.985

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/22/2006	2:36:32	4900	18.983
12/22/2006	2:46:32	4910	18.975
12/22/2006	2:56:32	4920	18.971
12/22/2006	3:06:32	4930	18.967
12/22/2006	3:16:32	4940	18.962
12/22/2006	3:26:32	4950	18.958
12/22/2006	3:36:32	4960	18.956
12/22/2006	3:46:32	4970	18.949
12/22/2006	3:56:32	4980	18.946
12/22/2006	4:06:32	4990	18.942
12/22/2006	4:16:32	5000	18.941
12/22/2006	4:26:32	5010	18.935
12/22/2006	4:36:32	5020	18.954
12/22/2006	4:46:32	5030	18.931
12/22/2006	4:56:32	5040	18.925
12/22/2006	5:06:32	5050	18.923
12/22/2006	5:16:32	5060	18.917
12/22/2006	5:26:32	5070	18.915
12/22/2006	5:36:32	5080	18.912
12/22/2006	5:46:32	5090	18.908
12/22/2006	5:56:32	5100	18.904
12/22/2006	6:06:32	5110	18.902
12/22/2006	6:16:32	5120	18.902
12/22/2006	6:26:32	5130	18.896
12/22/2006	6:36:32	5140	18.896
12/22/2006	6:46:32	5150	18.892
12/22/2006	6:56:32	5160	18.891
12/22/2006	7:06:32	5170	18.885
12/22/2006	7:16:32	5180	18.883
12/22/2006	7:26:32	5190	18.879
12/22/2006	7:36:32	5200	18.879
12/22/2006	7:46:32	5210	18.873
12/22/2006	7:56:32	5220	18.873
12/22/2006	8:06:32	5230	18.87
12/22/2006	8:16:32	5240	18.868
12/22/2006	8:26:32	5250	18.865
12/22/2006	8:36:32	5260	18.865
12/22/2006	8:46:32	5270	18.86
12/22/2006	8:56:32	5280	18.856
12/22/2006	9:06:32	5290	18.854
12/22/2006	9:16:32	5300	18.848
12/22/2006	9:26:32	5310	18.85
12/22/2006	9:36:32	5320	18.848
12/22/2006	9:46:32	5330	18.848
12/22/2006	9:56:32	5340	18.848
12/22/2006	10:06:32	5350	18.842
12/22/2006	10:16:32	5360	18.856
12/22/2006	10:26:32	5370	18.842
12/22/2006	10:36:32	5380	18.84

# MW-93D ELECTRONIC DATA CW-20 PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

			Chan[2]
			Pressure
Date	Time	ET (min)	Feet H2O
-----	-----	-----	-----
12/22/2006	10:46:32	5390	18.835
12/22/2006	10:56:32	5400	18.833
12/22/2006	11:06:32	5410	18.831
12/22/2006	11:16:32	5420	18.827
12/22/2006	11:26:32	5430	18.823
12/22/2006	11:36:32	5440	18.825
12/22/2006	11:46:32	5450	18.825
12/22/2006	11:56:32	5460	18.821
12/22/2006	12:06:32	5470	18.815
12/22/2006	12:16:32	5480	18.82
12/22/2006	12:26:32	5490	18.818
12/22/2006	12:36:32	5500	18.815
12/22/2006	12:46:32	5510	18.816
12/22/2006	12:56:32	5520	18.811
12/22/2006	13:06:32	5530	18.812
12/22/2006	13:16:32	5540	18.81
12/22/2006	13:26:32	5550	18.804
12/22/2006	13:36:32	5560	18.806
12/22/2006	13:46:32	5570	18.8
12/22/2006	13:56:32	5580	18.798
12/22/2006	14:06:32	5590	18.798
12/22/2006	14:16:32	5600	18.796
12/22/2006	14:26:32	5610	18.792
12/22/2006	14:36:32	5620	18.79
12/22/2006	14:46:32	5630	18.791

## **APPENDIX F**

### **CW-20 Constant Rate Test Flow Data**

**APPENDIX F**  
**CW-20 Flow Data Sheet**  
**CW-20 Constant-Rate Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Measured Flow Rate (gpm)	Totalizer Reading	Daily Total Gallons
CW-20	EMW	12/18/06 17:35	0	--	4,931,889	
CW-20	EMW	12/18/06 17:36	1	76	4,931,895	
CW-20	EMW	12/18/06 17:37	2	85	4,931,980	
CW-20	EMW	12/18/06 17:41	6	70	4,932,157	
CW-20	EMW	12/18/06 17:43	8	66	4,932,262	
CW-20	EMW	12/18/06 17:44	9	64	4,932,329	
CW-20	EMW	12/18/06 17:44	9	64	4,932,491	
CW-20	EMW	12/18/06 17:46	11	58	4,932,549	
CW-20	EMW	12/18/06 17:47	12	68	4,932,600	
CW-20	EMW	12/18/06 17:48	13	66	4,932,768	
CW-20	EMW	12/18/06 17:52	17	60	4,932,960	
CW-20	EMW	12/18/06 17:55	20	60	4,933,100	
CW-20	EMW	12/18/06 18:00	25	60	4,933,460	
CW-20	EMW	12/18/06 18:05	30	60	4,933,760	
CW-20	EMW	12/18/06 18:10	35	59	4,934,070	
CW-20	EMW	12/18/06 18:15	40	59	4,934,359	
CW-20	EMW	12/18/06 18:20	45	61	4,934,660	
CW-20	EMW	12/18/06 18:25	50	60	4,935,010	
CW-20	EMW	12/18/06 18:30	55	60	4,935,300	
CW-20	EMW	12/18/06 18:35	60	60	4,935,610	
CW-20	EMW	12/18/06 18:40	65	60	4,935,910	
CW-20	EMW	12/18/06 18:45	70	60	4,936,200	
CW-20	EMW	12/18/06 18:50	75	60	4,936,500	
CW-20	EMW	12/18/06 18:55	80	60	4,936,805	
CW-20	EMW	12/18/06 19:00	85	60	4,937,110	
CW-20	EMW	12/18/06 19:05	90	61	4,937,552	
CW-20	EMW	12/18/06 19:10	95	60	4,937,720	
CW-20	EMW	12/18/06 19:15	100	60	4,937,940	
CW-20	EMW	12/18/06 19:20	105	60	4,938,460	
CW-20	EMW	12/18/06 19:25	110	60	4,938,710	
CW-20	EMW	12/18/06 19:30	115	60	4,938,990	
CW-20	EMW	12/18/06 19:35	120	60	4,939,325	
CW-20	EMW	12/18/06 19:40	125	60	4,939,610	
CW-20	EMW	12/18/06 19:45	130	60	4,939,900	
CW-20	EMW	12/18/06 19:50	135	60	4,940,210	
CW-20	EMW	12/18/06 19:55	140	60	4,940,500	
CW-20	EMW	12/18/06 20:00	145	60	4,940,800	
CW-20	EMW	12/18/06 20:05	150	60	4,941,100	
CW-20	EMW	12/18/06 20:10	155	60	4,941,400	
CW-20	EMW	12/18/06 20:15	160	60	4,941,700	
CW-20	EMW	12/18/06 20:20	165	60	4,942,000	
CW-20	SLM	12/18/06 21:05	210	60	4,944,600	
CW-20	SLM	12/18/06 22:20	285	59	4,949,000	
CW-20	SRL	12/18/06 23:00	325	60	4,951,400	
CW-20	SRL	12/18/06 23:50	375	60	4,954,300	22,411
CW-20	SRL	12/19/06 0:50	435	60	4,957,900	
CW-20	SRL	12/19/06 2:20	525	60	4,963,350	
CW-20	SRL	12/19/06 2:50	555	60	4,965,000	
CW-20	SRL	12/19/06 3:50	615	60	4,968,560	
CW-20	SRL	12/19/06 4:50	675	60	4,972,125	
CW-20	SRL	12/19/06 6:20	765	60	4,977,540	
CW-20	EMW	12/19/06 6:53	798	60	4,979,670	
CW-20	EMW	12/19/06 7:50	855	60	4,983,035	
CW-20	EMW	12/19/06 8:51	916	60	4,986,675	
CW-20	EMW	12/19/06 10:11	996	60	4,991,565	

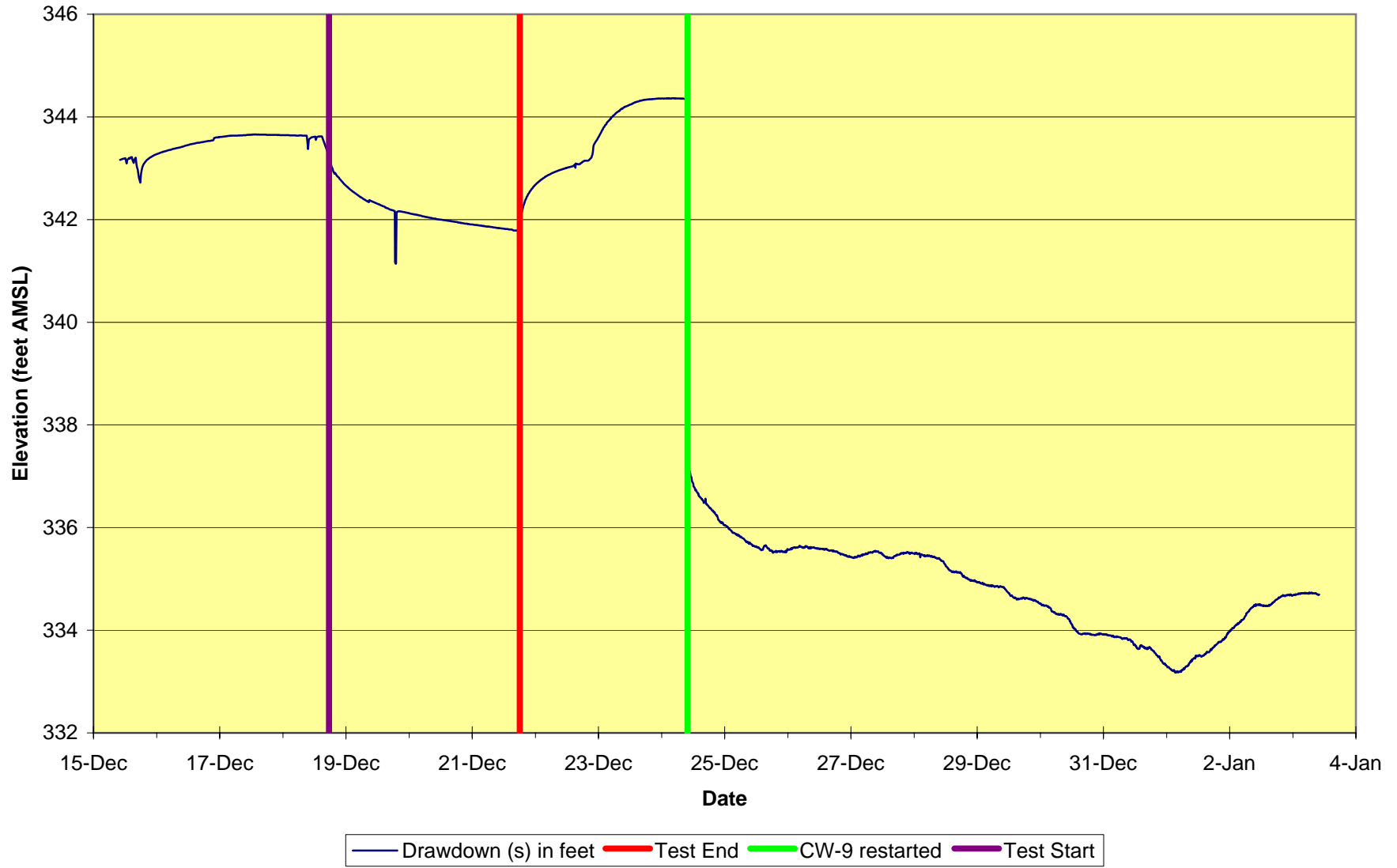
**APPENDIX F**  
**CW-20 Flow Data Sheet**  
**CW-20 Constant-Rate Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Measured Flow Rate (gpm)	Totalizer Reading	Daily Total Gallons
CW-20	EMW	12/19/06 11:01	1046	60	4,994,400	
CW-20	SLM	12/19/06 11:55	1100	60	4,997,600	
CW-20	EMW	12/19/06 12:50	1155	60.5	5,000,925	
CW-20	EMW	12/19/06 14:22	1247	60	5,006,750	
CW-20	EMW	12/19/06 14:50	1275	60	5,008,175	
CW-20	EMW	12/19/06 15:50	1335	60	5,011,725	
CW-20	EMW	12/19/06 16:50	1395	60	5,015,360	
CW-20	SLM	12/19/06 18:26	1491	60	5,020,900	
CW-20	SRL	12/19/06 18:50	1515	59	5,022,275	
CW-20	SRL	12/19/06 19:50	1575	59	5,025,735	
CW-20	SRL	12/19/06 20:50	1635	60	5,029,300	
CW-20	SRL	12/19/06 22:15	1720	60	5,034,350	
CW-20	SRL	12/19/06 22:50	1755	60	5,036,400	
CW-20	SRL	12/19/06 23:50	1815	60	5,039,975	85,675
CW-20	SRL	12/20/06 0:50	1875	60	5,043,520	
CW-20	SRL	12/20/06 2:50	1995	60	5,050,630	
CW-20	SRL	12/20/06 3:50	2055	60	5,054,180	
CW-20	SRL	12/20/06 4:50	2115	60	5,057,730	
CW-20	SRL	12/20/06 6:13	2198	59	5,062,700	
CW-20	EMW	12/20/06 6:50	2235	60	5,065,175	
CW-20	EMW	12/20/06 7:52	2297	60	5,068,860	
CW-20	EMW	12/20/06 8:50	2355	60	5,072,170	
CW-20	EMW	12/20/06 10:19	2444	60	5,077,380	
CW-20	EMW	12/20/06 10:56	2481	60	5,079,545	
CW-20	EMW	12/20/06 11:50	2535	60	5,082,705	
CW-20	EMW	12/20/06 12:50	2595	60	5,086,210	
CW-20	EMW	12/20/06 14:20	2685	59	5,091,535	
CW-20	EMW	12/20/06 15:50	2775	60	5,096,880	
CW-20	EMW	12/20/06 16:48	2833	60	5,100,300	
CW-20	SRL	12/20/06 18:15	2920	60	5,105,400	
CW-20	SRL	12/20/06 18:50	2955	60	5,107,410	
CW-20	SRL	12/20/06 19:50	3015	60	5,110,950	
CW-20	SRL	12/20/06 20:50	3075	60	5,114,500	
CW-20	SRL	12/20/06 22:15	3160	60	5,119,510	
CW-20	SRL	12/20/06 22:50	3195	60	5,121,580	
CW-20	SRL	12/20/06 23:50	3255	59	5,125,120	85,145
CW-20	SRL	12/21/06 0:50	3315	59	5,128,670	
CW-20	SRL	12/21/06 2:15	3400	59	5,133,690	
CW-20	SRL	12/21/06 2:50	3435	59	5,135,720	
CW-20	SRL	12/21/06 3:50	3495	60	5,139,280	
CW-20	SRL	12/21/06 4:50	3555	60	5,142,810	
CW-20	SRL	12/21/06 6:15	3640	59	5,147,800	
CW-20	EMW	12/21/06 6:50	3675	59	5,150,055	
CW-20	EMW	12/21/06 7:50	3735	60	5,153,465	
CW-20	EMW	12/21/06 8:50	3795	60	5,157,180	
CW-20	EMW	12/21/06 10:24	3889	60	5,162,655	
CW-20	EMW	12/21/06 10:50	3915	60	5,164,100	
CW-20	EMW	12/21/06 11:50	3975	60	5,167,610	
CW-20	EMW	12/21/06 12:50	4035	60	5,171,170	
CW-20	EMW	12/21/06 14:16	4121	60	5,176,240	
CW-20	EMW	12/21/06 14:50	4155	59	5,178,310	
CW-20	EMW	12/21/06 15:51	4216	60	5,181,800	
CW-20	SLM	12/21/06 17:25	4310	60	5,187,300	
CW-20	SLM	12/21/06 18:05	4350	--	5,189,614	64,494

## **APPENDIX G**

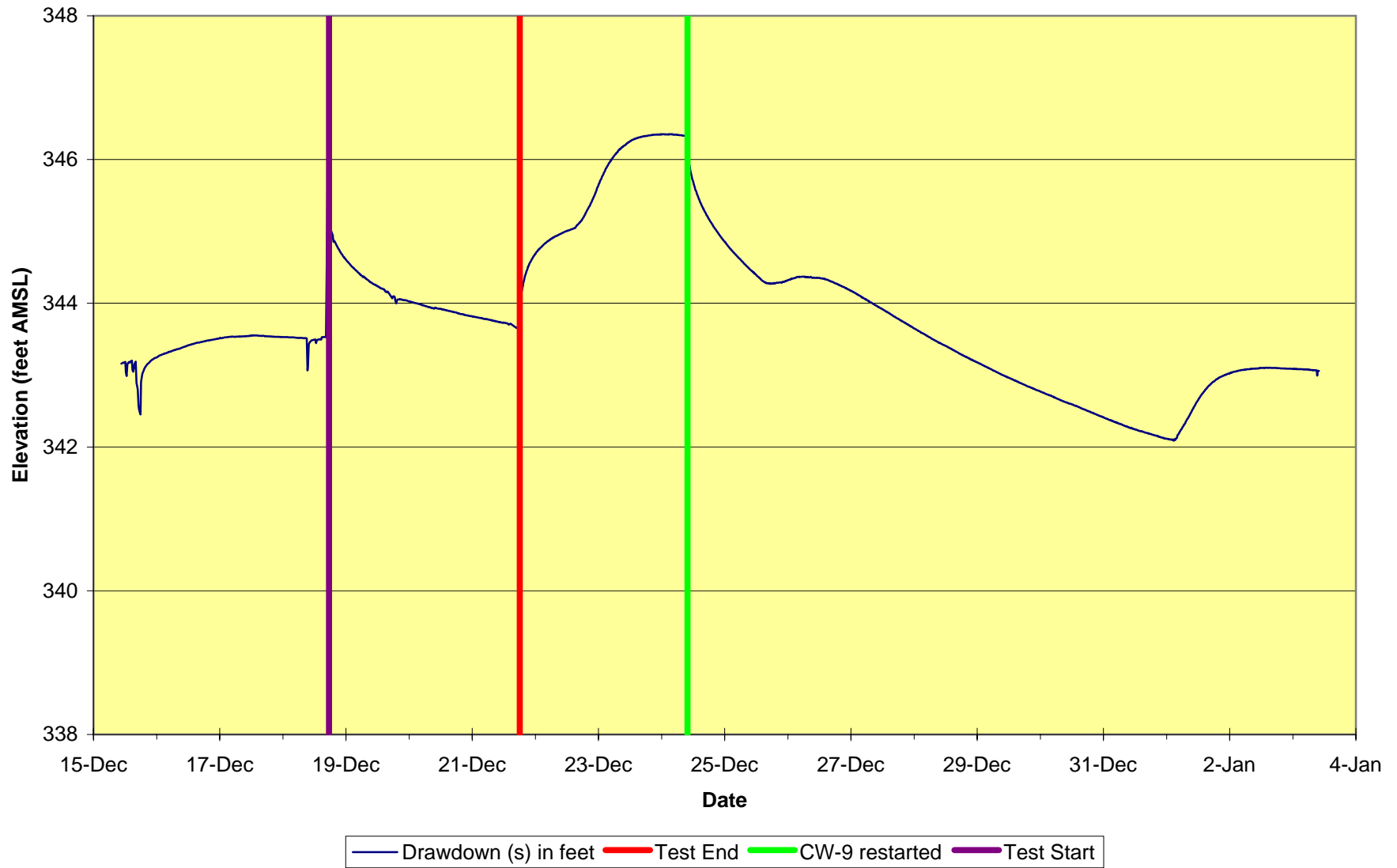
### **CW-20 Observation Well Recovery Data**

**APPENDIX G**  
**CW-9 Drawdown Data from**  
**CW-20 Pumping Test and Re-start**  
Harley-Davidson Motor Company Operations, Inc.

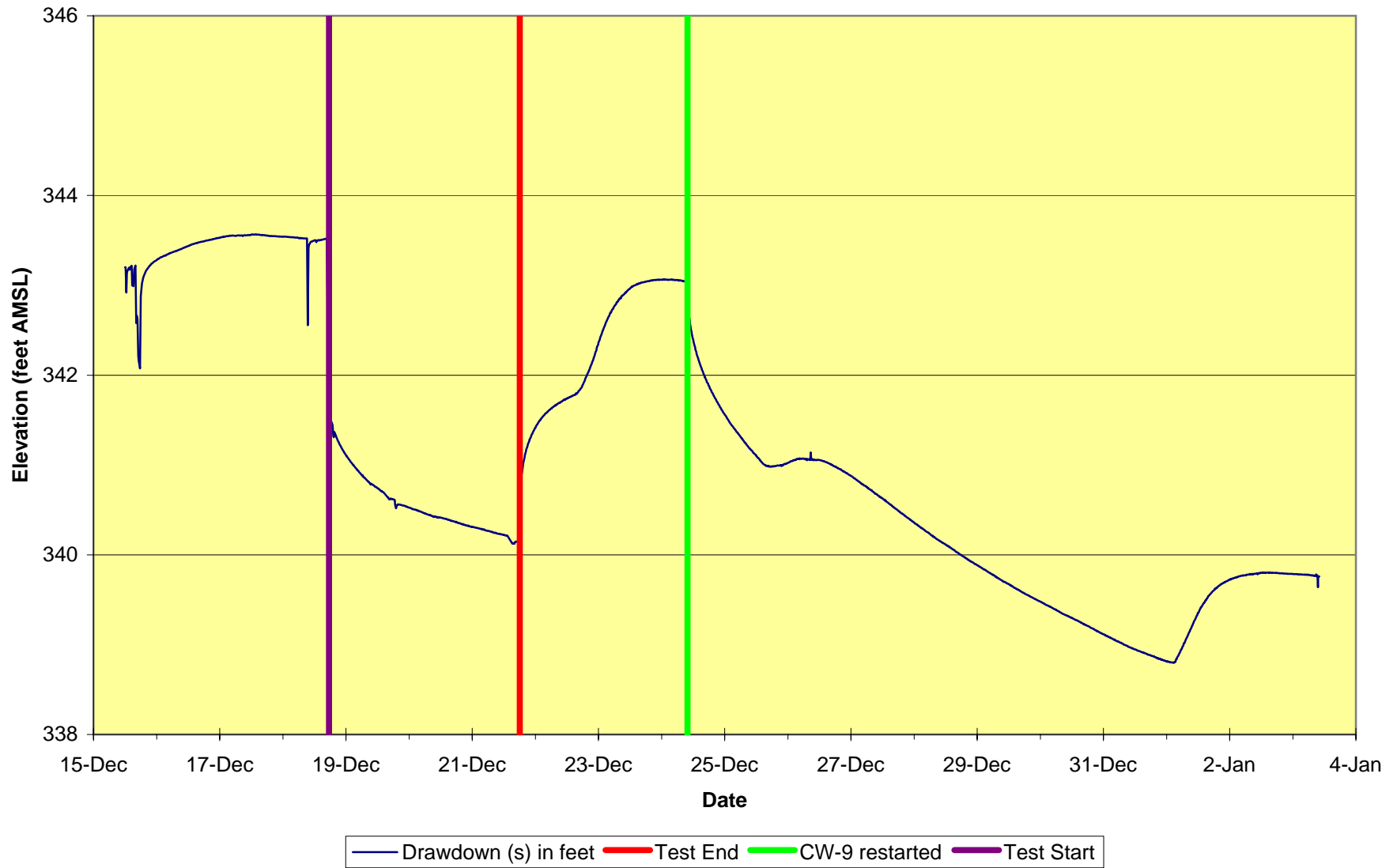




**APPENDIX G**  
**MW-37D Drawdown Data from**  
**CW-20 Pumping Test and CW-9 Re-start**  
Harley-Davidson Motor Company Operations, Inc.



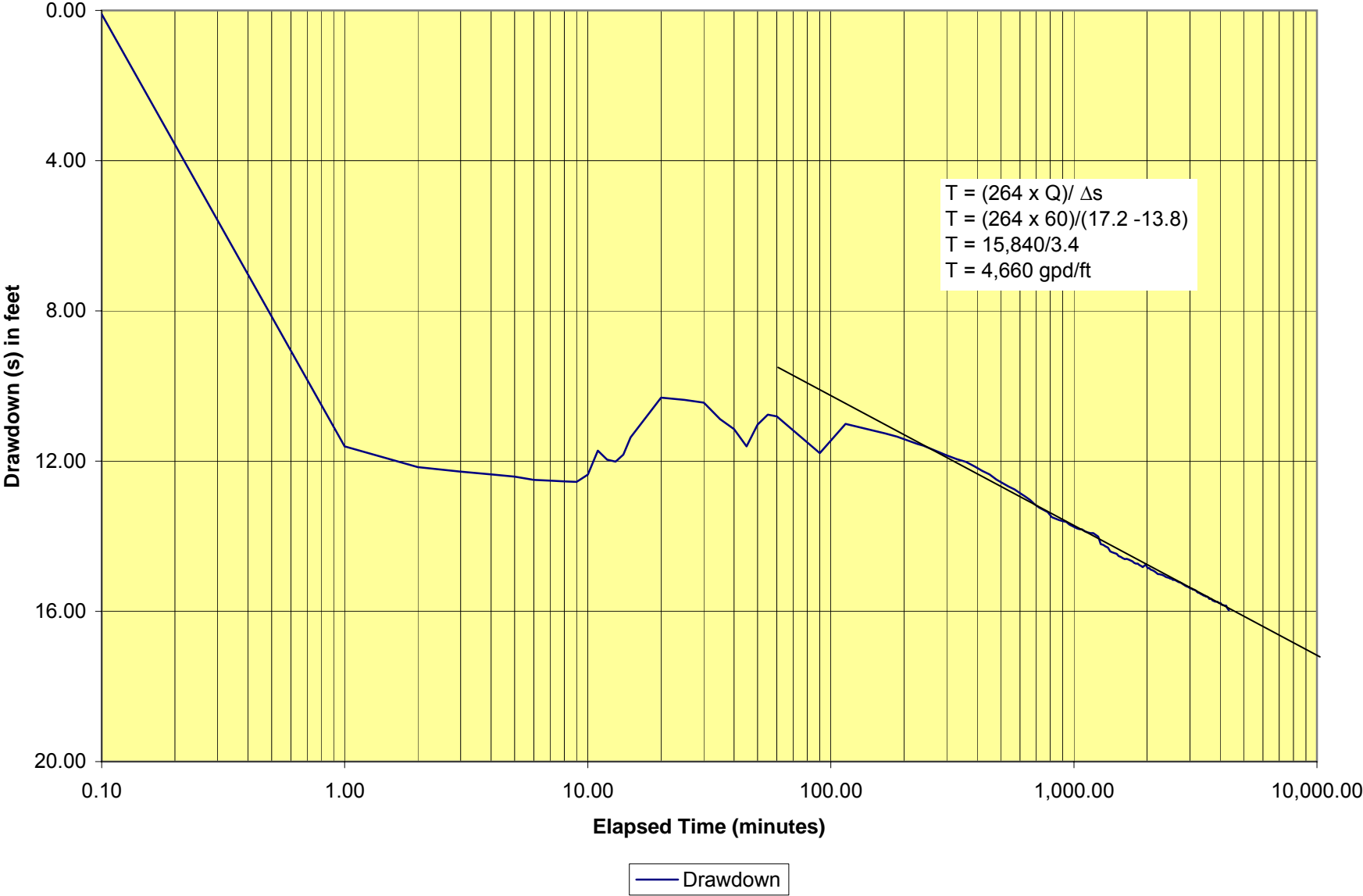
**APPENDIX G**  
**MW-75D Drawdown Data from**  
**CW-20 Pumping Test and CW-9 Re-start**  
Harley-Davidson Motor Company Operations, Inc.



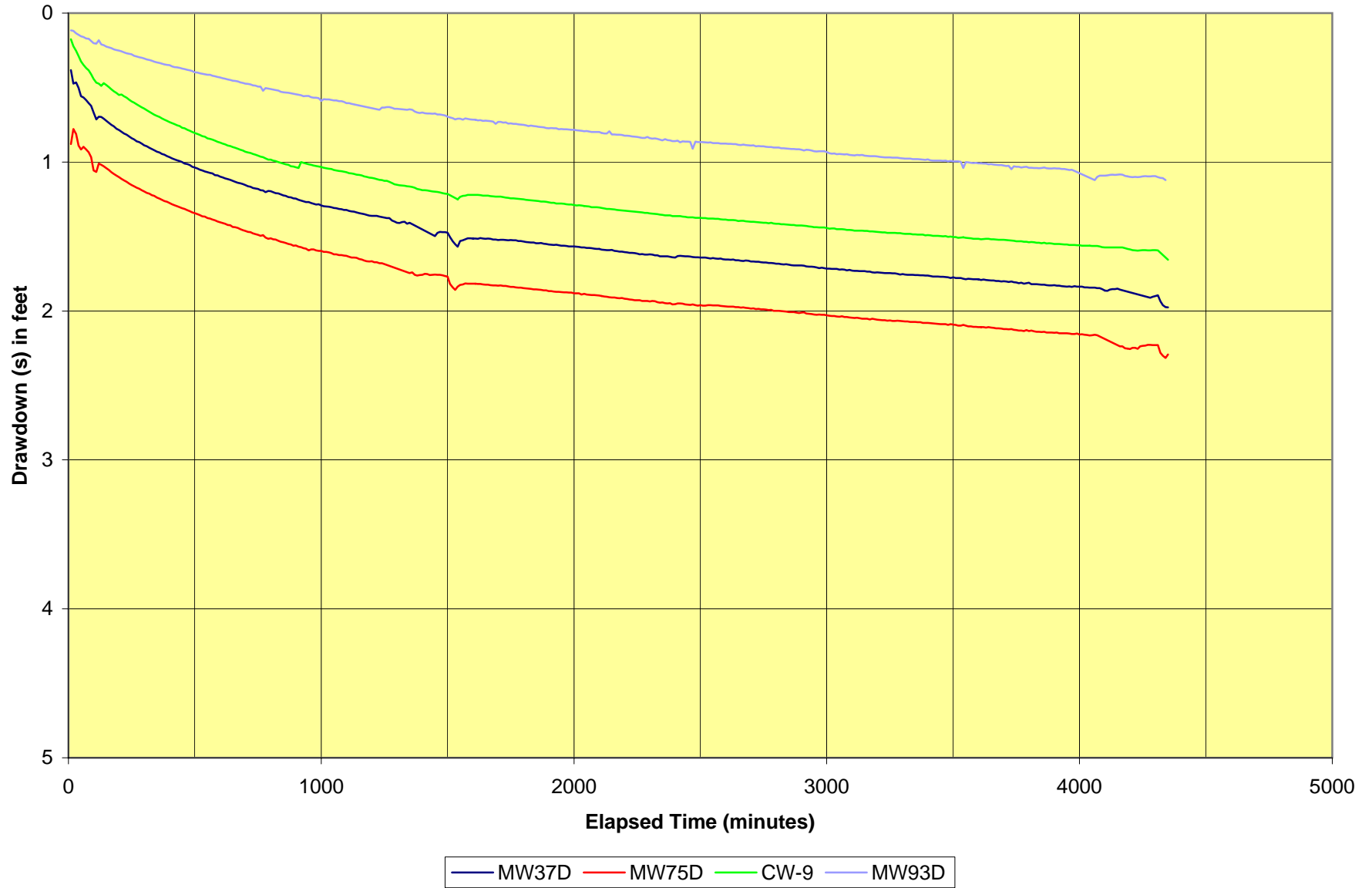
**APPENDIX H**

**CW-20 Constant-Rate Test  
Graphical Plots**

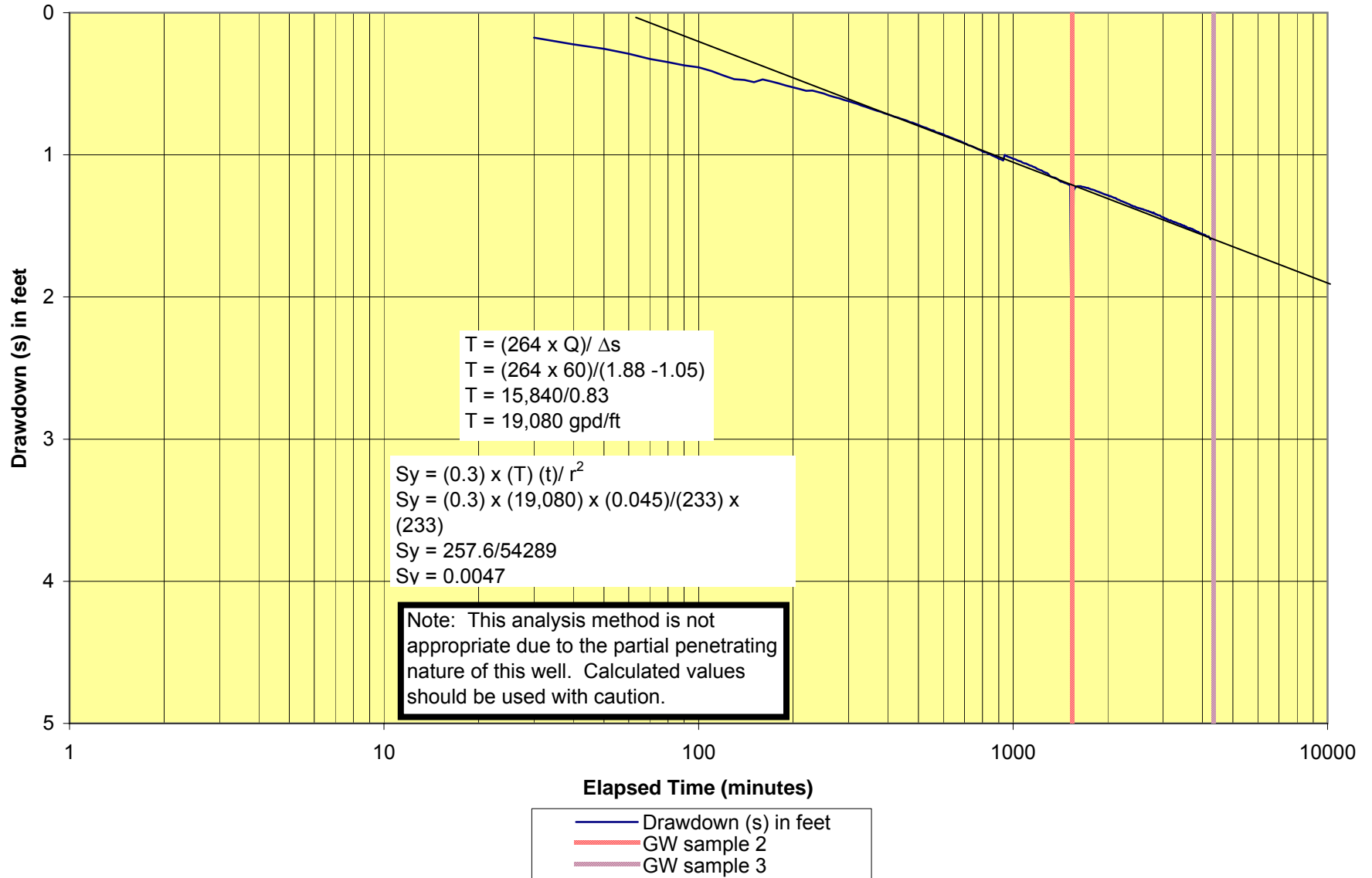
**APPENDIX H-1**  
**CW-20 Drawdown Data - CW-20 Pumping Test**  
 Harley-Davidson Motor Company Operations, Inc.



**APPENDIX H**  
**Groundwater Drawdown - CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

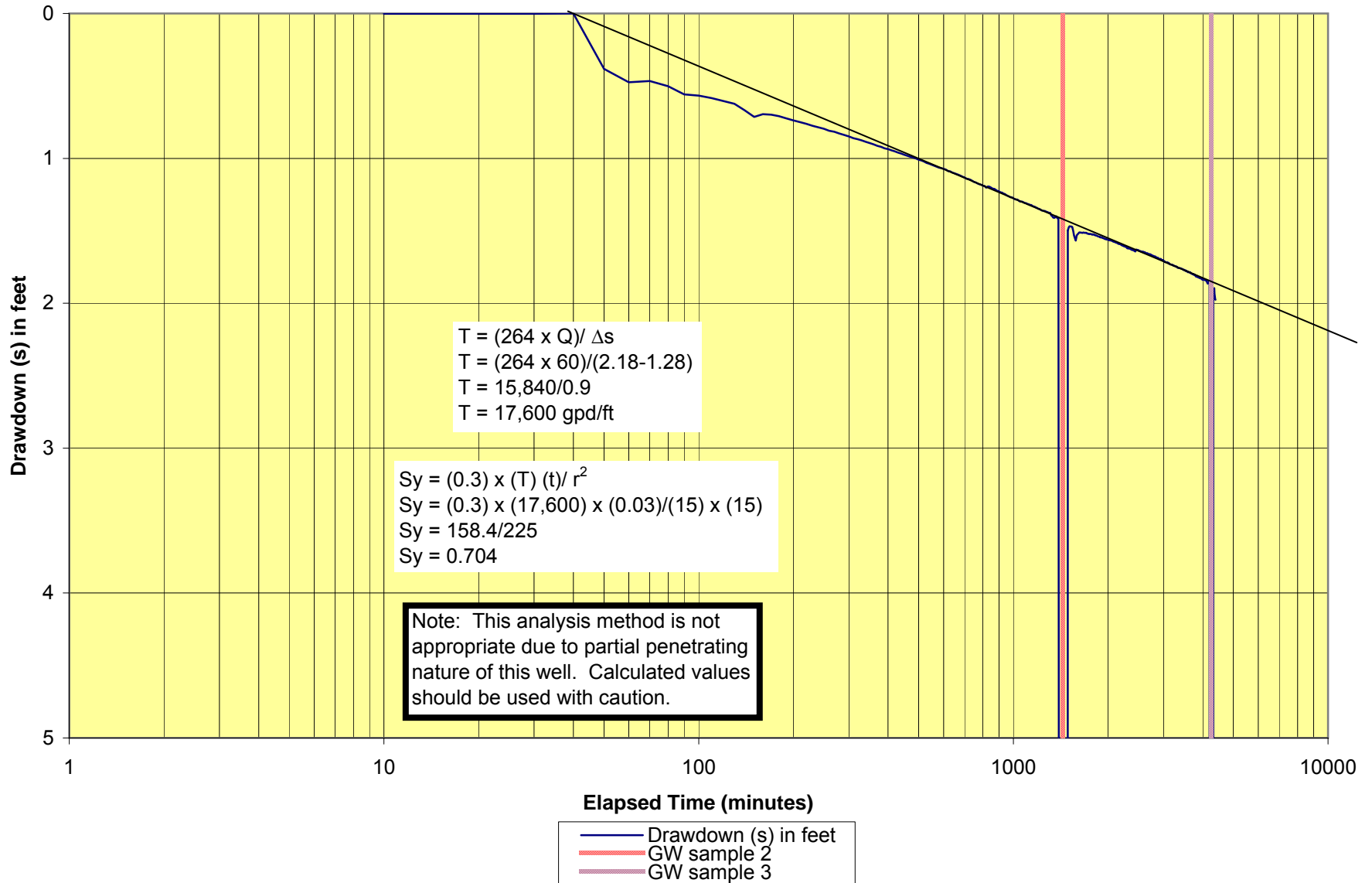


**APPENDIX H**  
**CW-9 Drawdown Data - CW-20 Pumping Test**  
 Harley-Davidson Motor Company Operations, Inc.



**APPENDIX H**  
**MW-37D Drawdown Data - CW-20 Pumping Test**

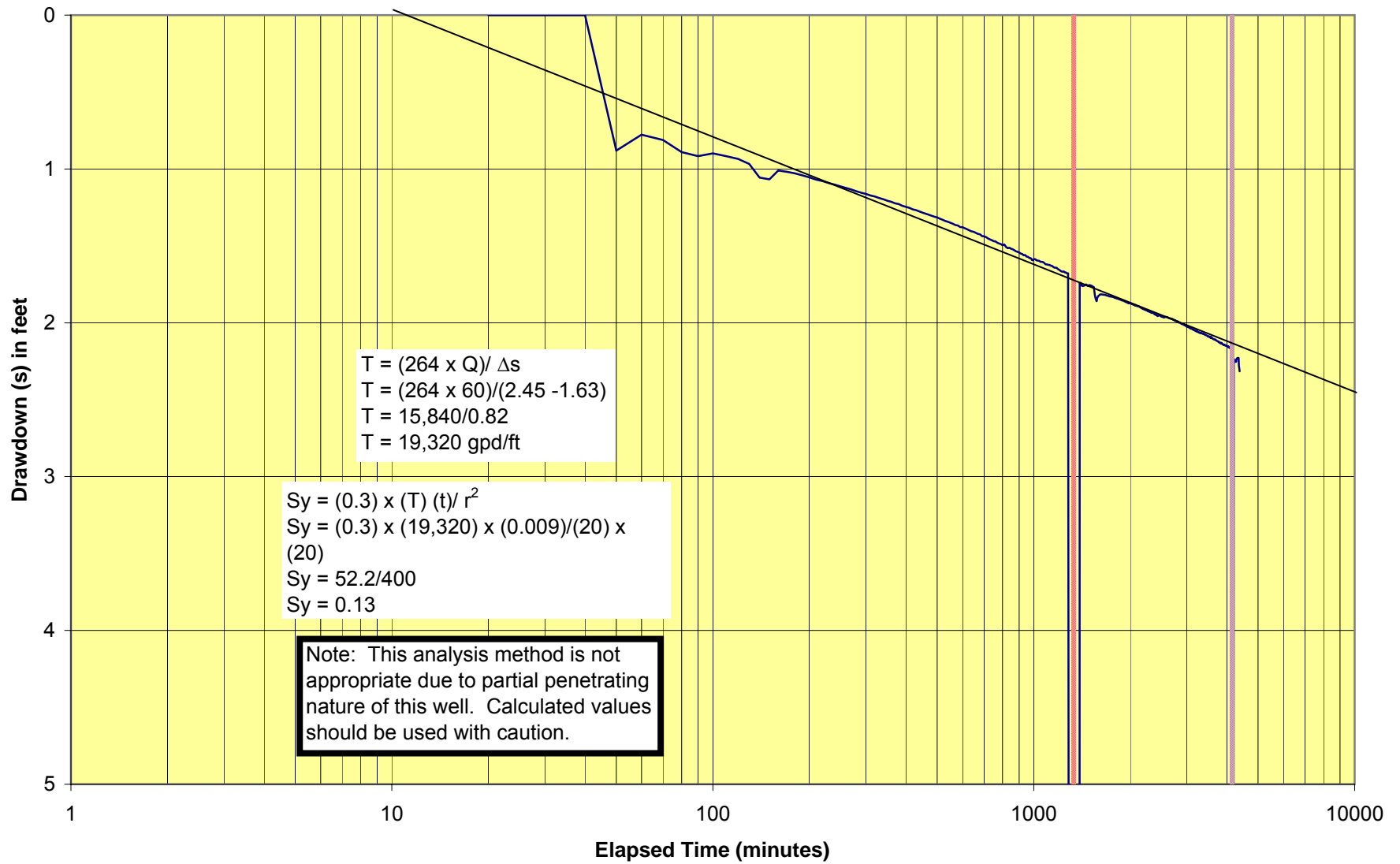
Harley-Davidson Motor Company Operations, Inc.



# APPENDIX H

## MW-75D Drawdown Data - CW-20 Pumping Test

Harley-Davidson Motor Company Operations, Inc.



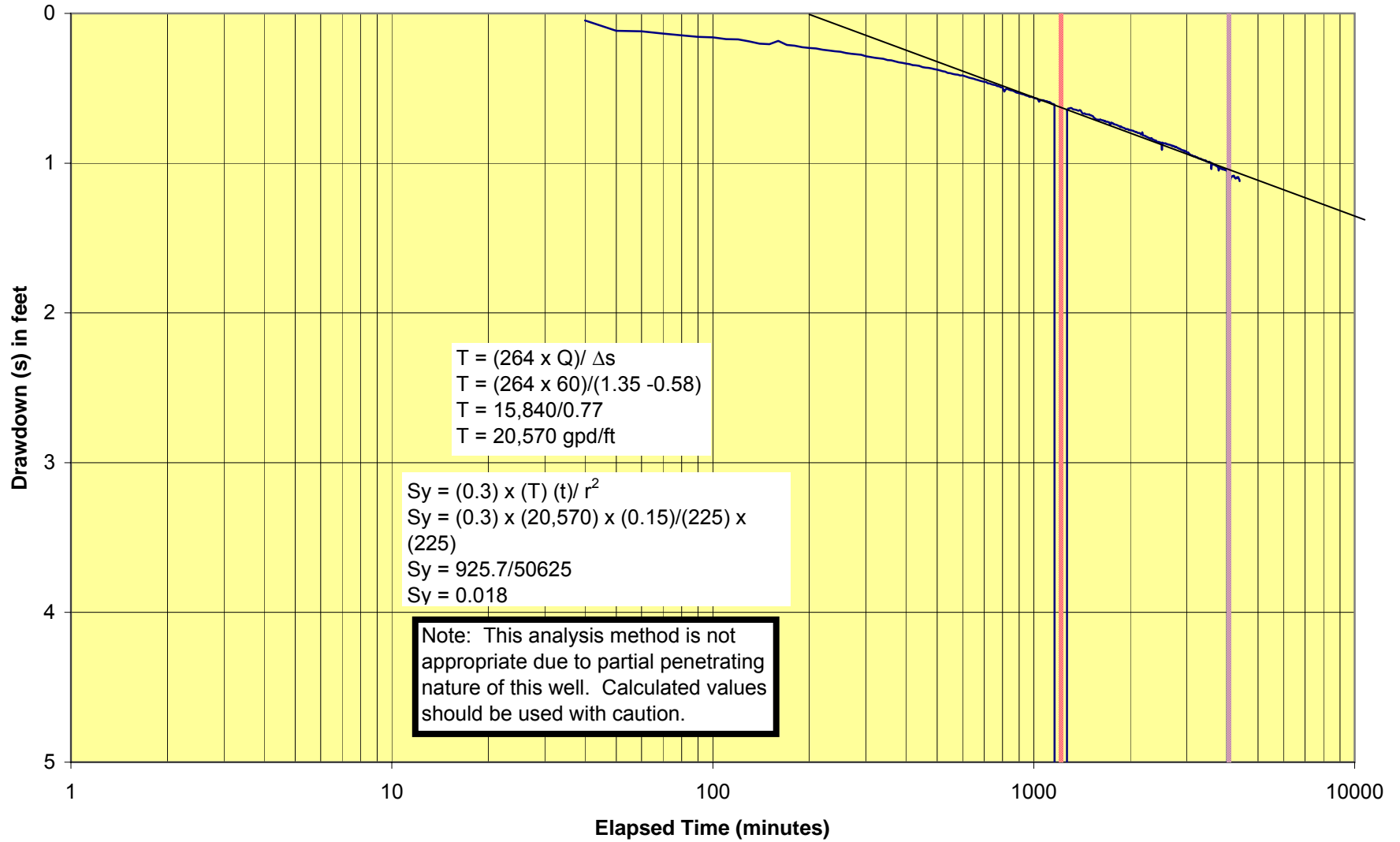
— Drawdown (s) in feet   
 — GW sample 2   
 — GW sample 3



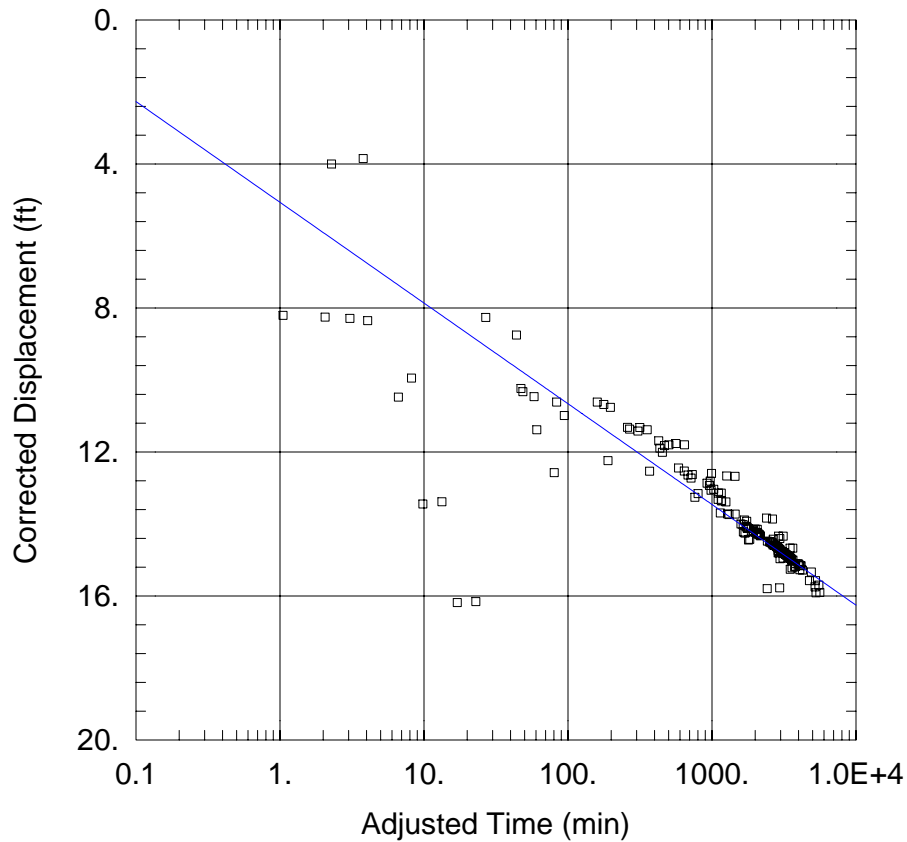
# APPENDIX H

## MW-93D Drawdown Data - CW-20 Pumping Test

Harley-Davidson Motor Company Operations, Inc.



— Drawdown (s) in feet   
 — GW sample 2   
 — GW sample 3



CW-20 PUMPING TEST

Data Set: H:\...\CW20\_Jacob\_2.aqt  
 Date: 04/28/08 Time: 16:18:23

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Cooper-Jacob  
 T = 5470.5 gal/day/ft  
 S = 0.1

AQUIFER DATA

Saturated Thickness: 300. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ CW-20	0	0

CW-20 PUMPING TEST

Data Set: H:\...\CW20\_Theis.agt

Date: 04/28/08

Time: 16:19:55

PROJECT INFORMATION

Company: SAIC

Client: Harley-Davidson

Project: 01-1633-00-9574-600

Location: York, PA

Test Well: CW-20

Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined

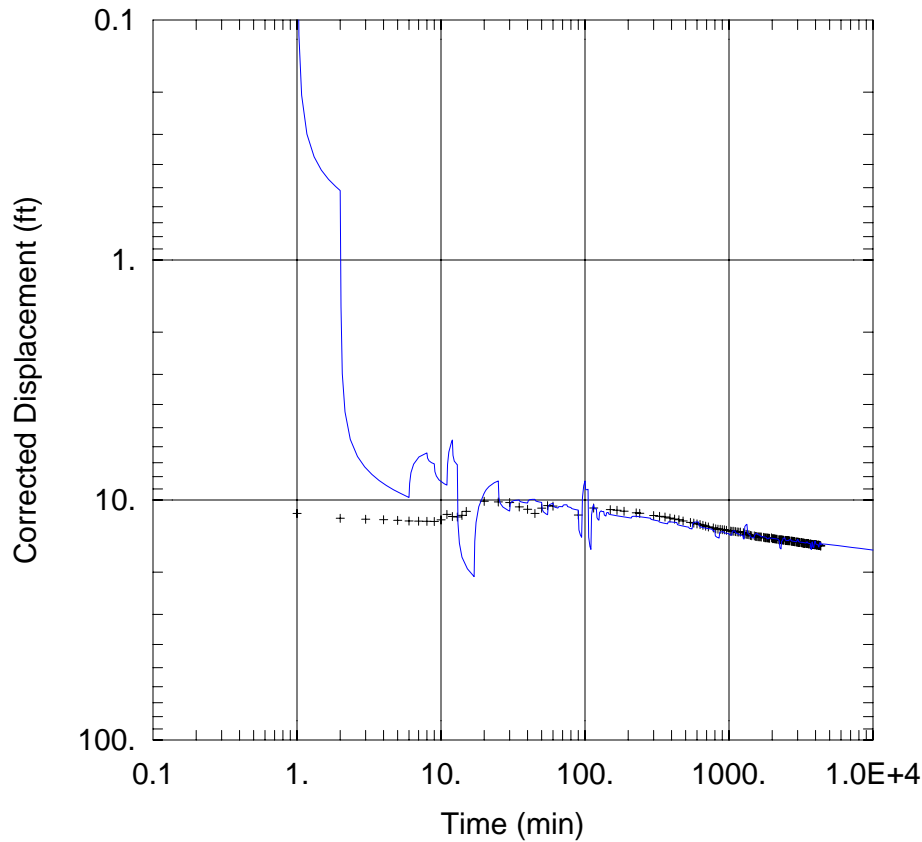
Solution Method: Theis

T = 5466.2 gal/day/ft

S = 0.1098

Kz/Kr = 1.

b = 300. ft



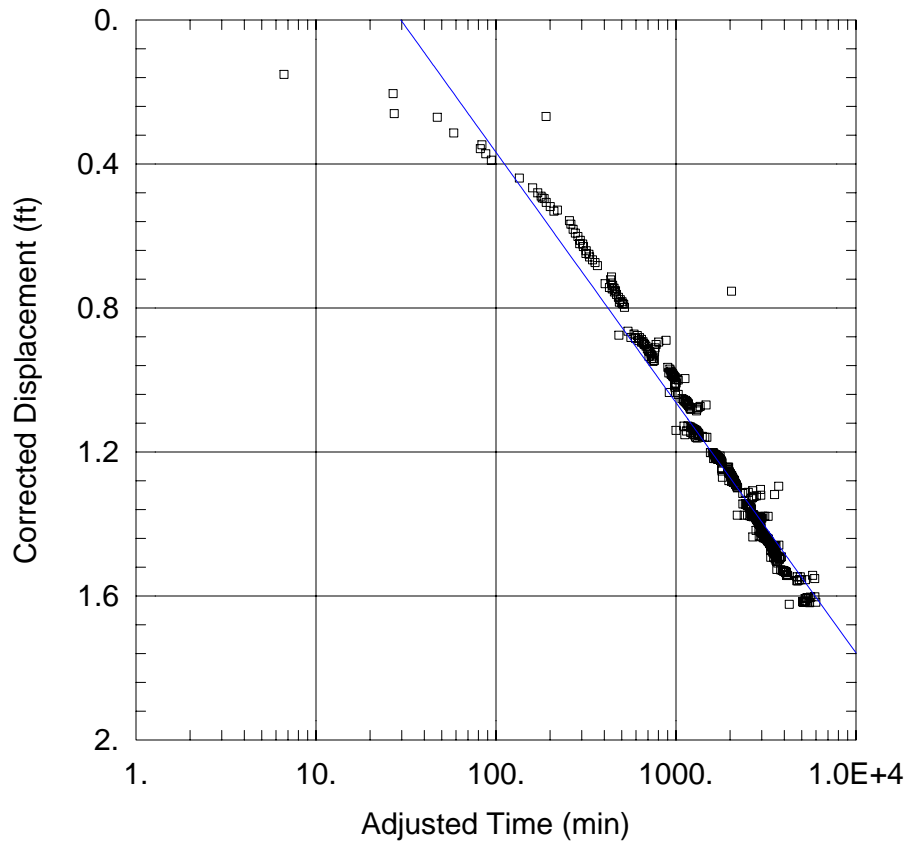
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
+ CW-20	0	0



CW-20 PUMPING TEST

Data Set: H:\...\CW-9\_Jacob.aqt  
 Date: 04/28/08 Time: 16:22:08

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Cooper-Jacob  
 T = 2.201E+4 gal/day/ft  
 S = 0.002734

AQUIFER DATA

Saturated Thickness: 300. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ CW-9	150	165

CW-20 PUMPING TEST

Data Set: H:\...\CW-9\_Theis.aqt

Date: 04/28/08

Time: 16:21:01

PROJECT INFORMATION

Company: SAIC

Client: Harley-Davidson

Project: 01-1633-00-9574-600

Location: York, PA

Test Well: CW-20

Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined

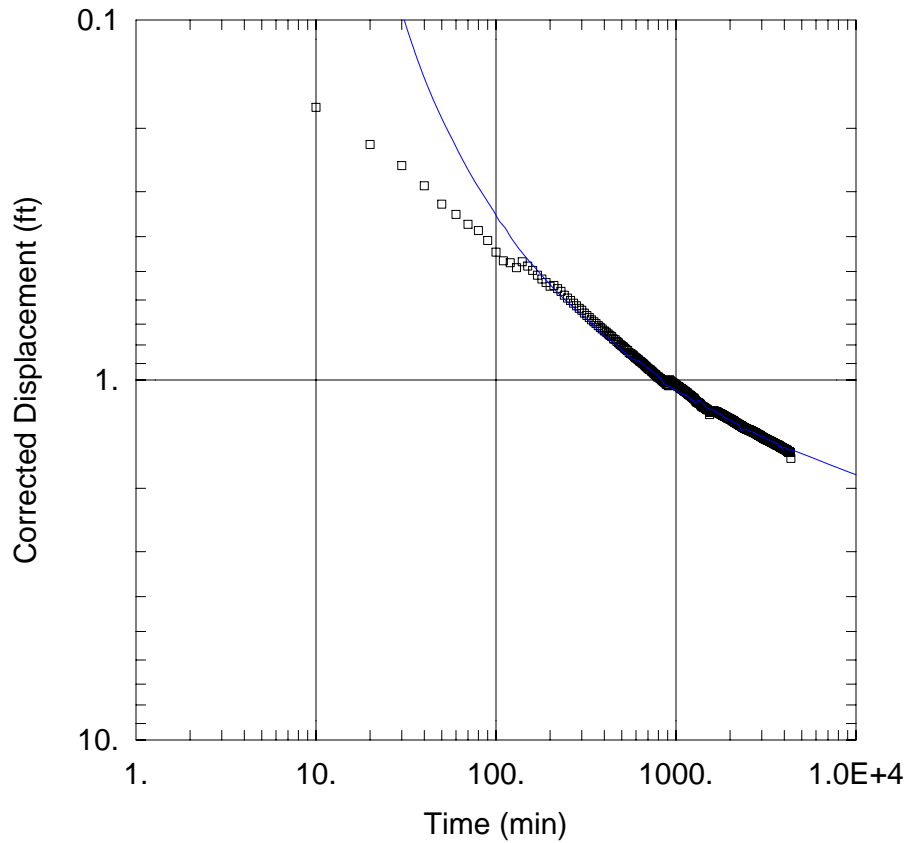
Solution Method: Theis

T = 1.902E+4 gal/day/ft

S = 0.004259

Kz/Kr = 1.

b = 300. ft



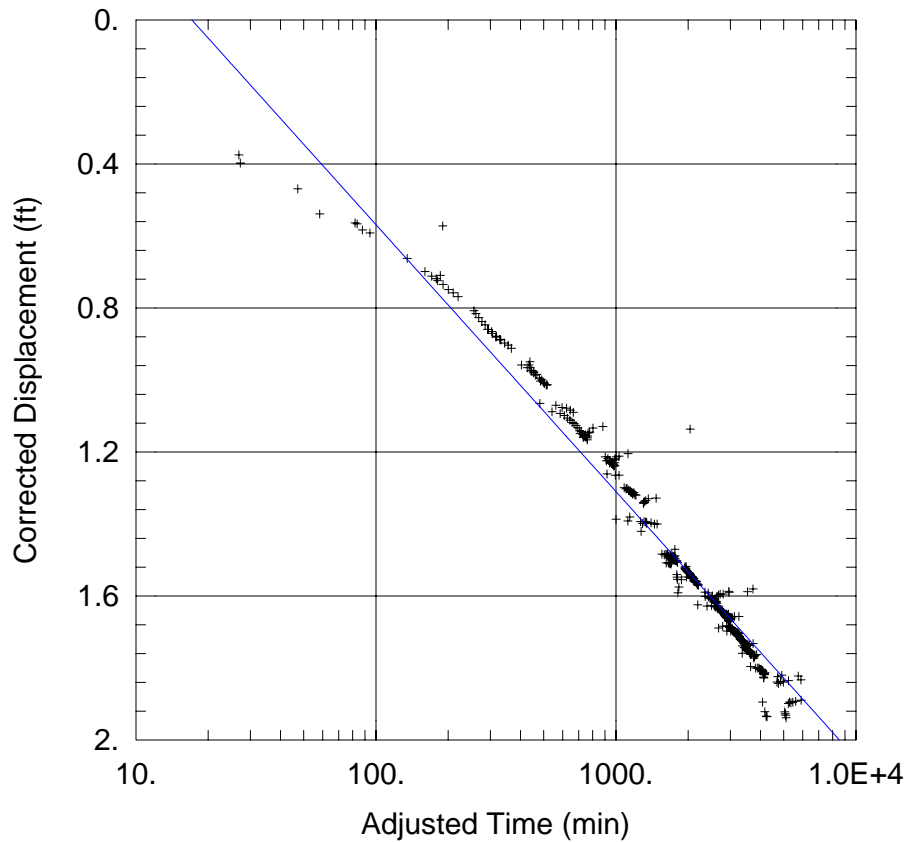
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
□ CW-9	150	165



CW-20 PUMPING TEST

Data Set: H:\...\MW-37D\_Jacob.aqt  
 Date: 04/28/08 Time: 16:24:25

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Cooper-Jacob  
 T = 2.065E+4 gal/day/ft  
 S = 0.1635

AQUIFER DATA

Saturated Thickness: 300. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
+ MW-37D	15	15

CW-20 PUMPING TEST

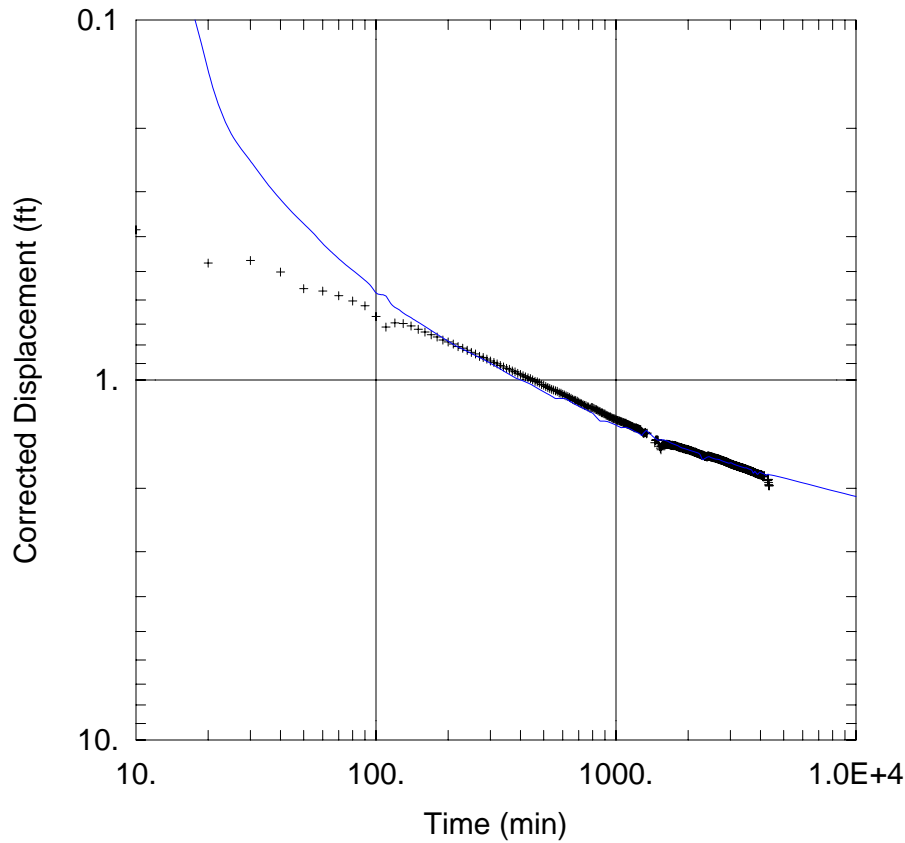
Data Set: H:\...\MW-37D\_Theis.aqt  
 Date: 04/28/08 Time: 16:23:06

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Theis  
 T = 1.869E+4 gal/day/ft  
 S = 0.2336  
 Kz/Kr = 1.  
 b = 300. ft



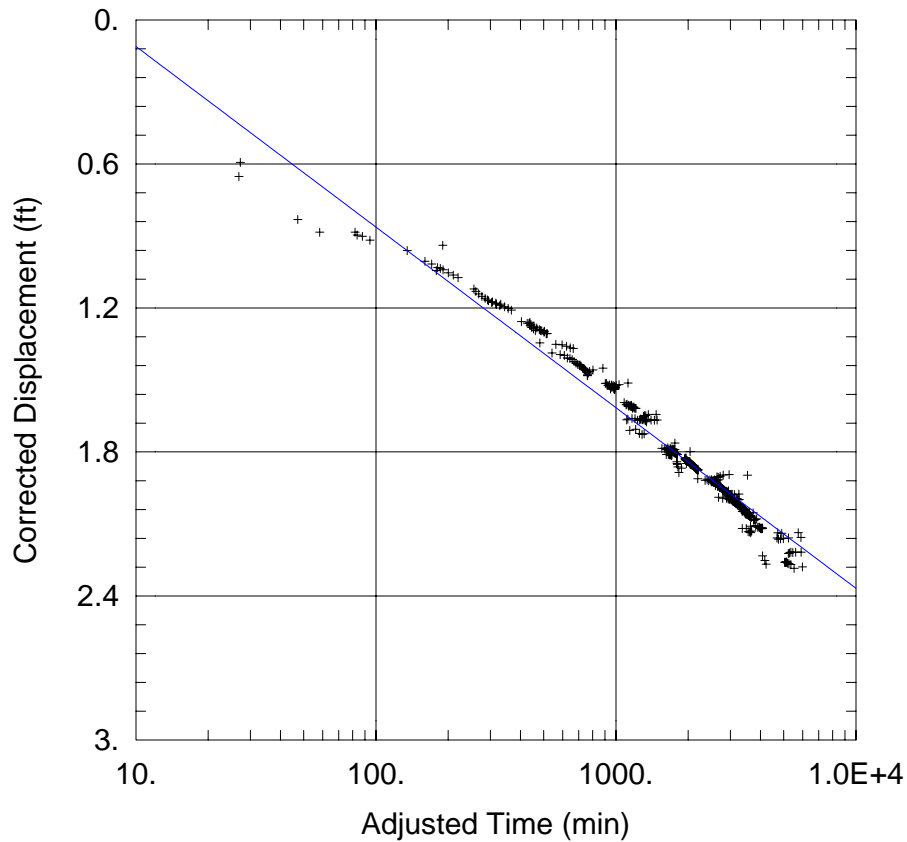
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
+ MW-37D	15	15



CW-20 PUMPING TEST

Data Set: H:\...\MW-75D\_Jacob.aqt  
 Date: 04/28/08 Time: 16:28:59

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Cooper-Jacob  
 T = 2.034E+4 gal/day/ft  
 S = 0.06045

AQUIFER DATA

Saturated Thickness: 300. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Well Name	X (ft)	Y (ft)
+ MW-75D	-10	20



CW-20 PUMPING TEST

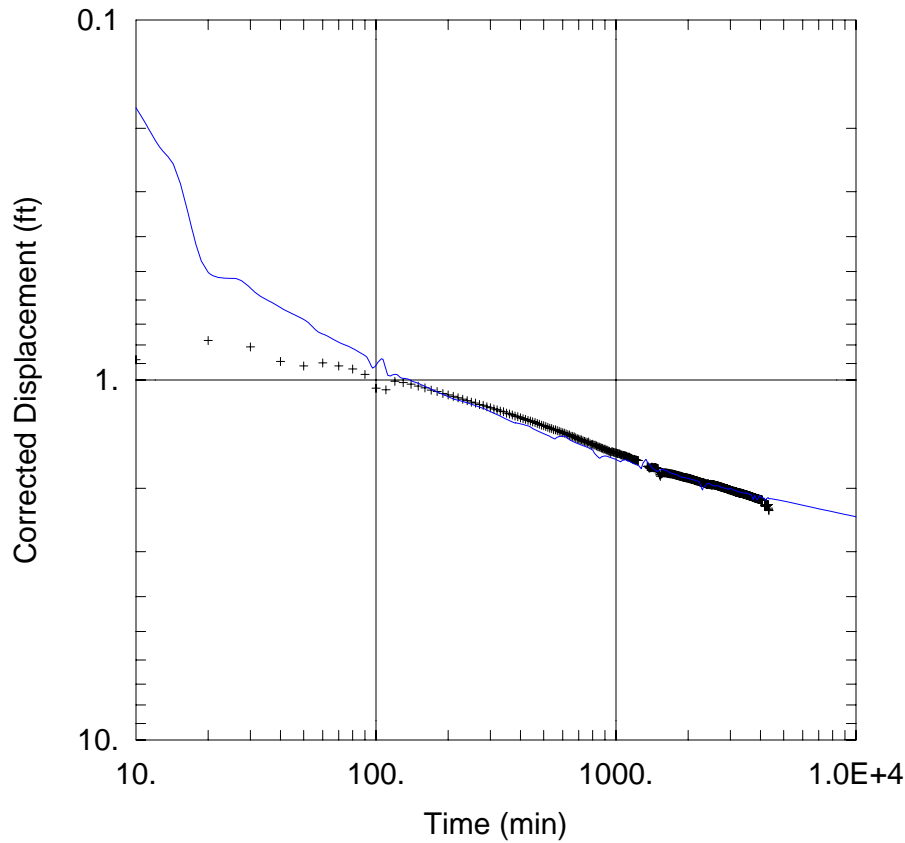
Data Set: H:\...\MW-75D\_Theis.aqt  
 Date: 04/28/08 Time: 16:40:49

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Theis  
 T = 1.935E+4 gal/day/ft  
 S = 0.07564  
 Kz/Kr = 1.  
 b = 300. ft



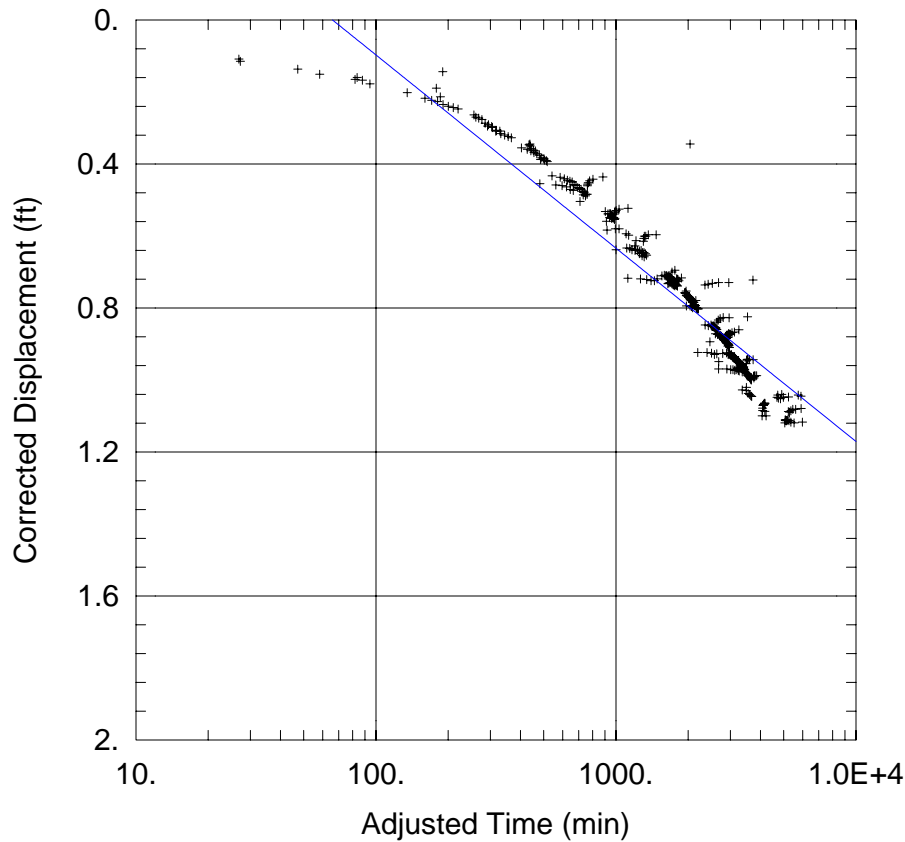
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
+ MW-75D	-10	20



CW-20 PUMPING TEST

Data Set: H:\...\MW-93D\_Jacob.aqt  
 Date: 04/28/08 Time: 16:34:52

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Cooper-Jacob  
 T = 2.851E+4 gal/day/ft  
 S = 0.007271

AQUIFER DATA

Saturated Thickness: 300. ft

Anisotropy Ratio (Kz/Kr): 1.

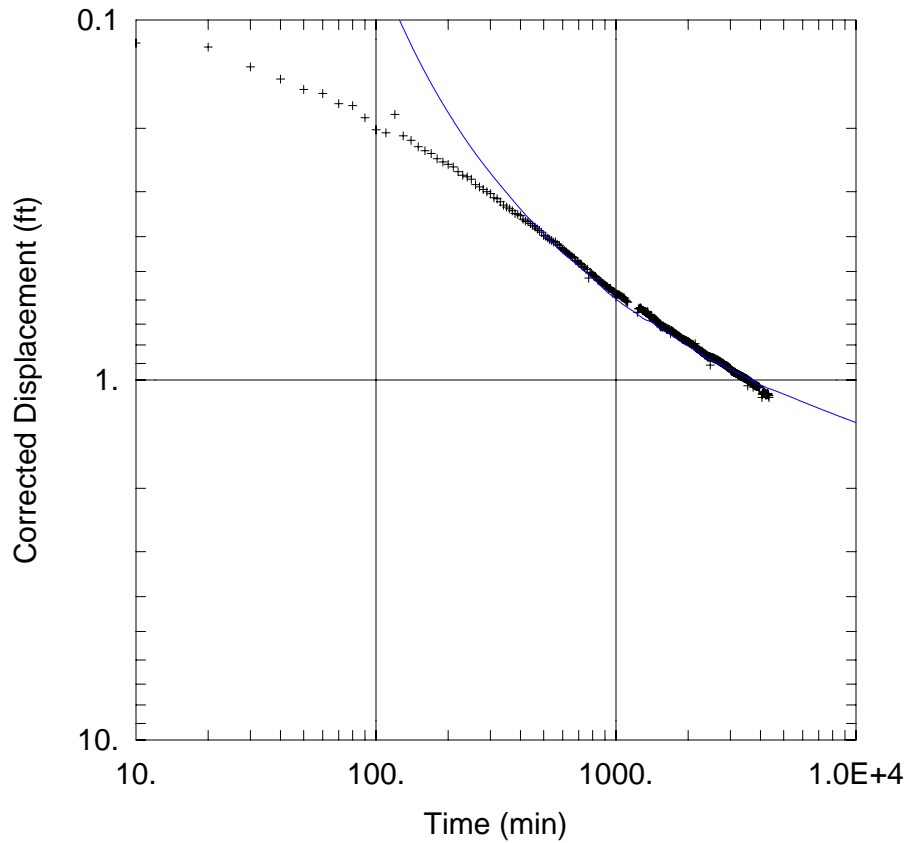
WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
+ MW-93D	-57	225



CW-20 PUMPING TEST

Data Set: H:\...\MW-93D\_Theis.aqt  
 Date: 04/28/08 Time: 16:35:52

PROJECT INFORMATION

Company: SAIC  
 Client: Harley-Davidson  
 Project: 01-1633-00-9574-600  
 Location: York, PA  
 Test Well: CW-20  
 Test Date: December 18-21, 2006

SOLUTION

Aquifer Model: Unconfined  
 Solution Method: Theis  
 T = 2.002E+4 gal/day/ft  
 S = 0.01518  
 Kz/Kr = 1.  
 b = 300. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
CW-20	0	0

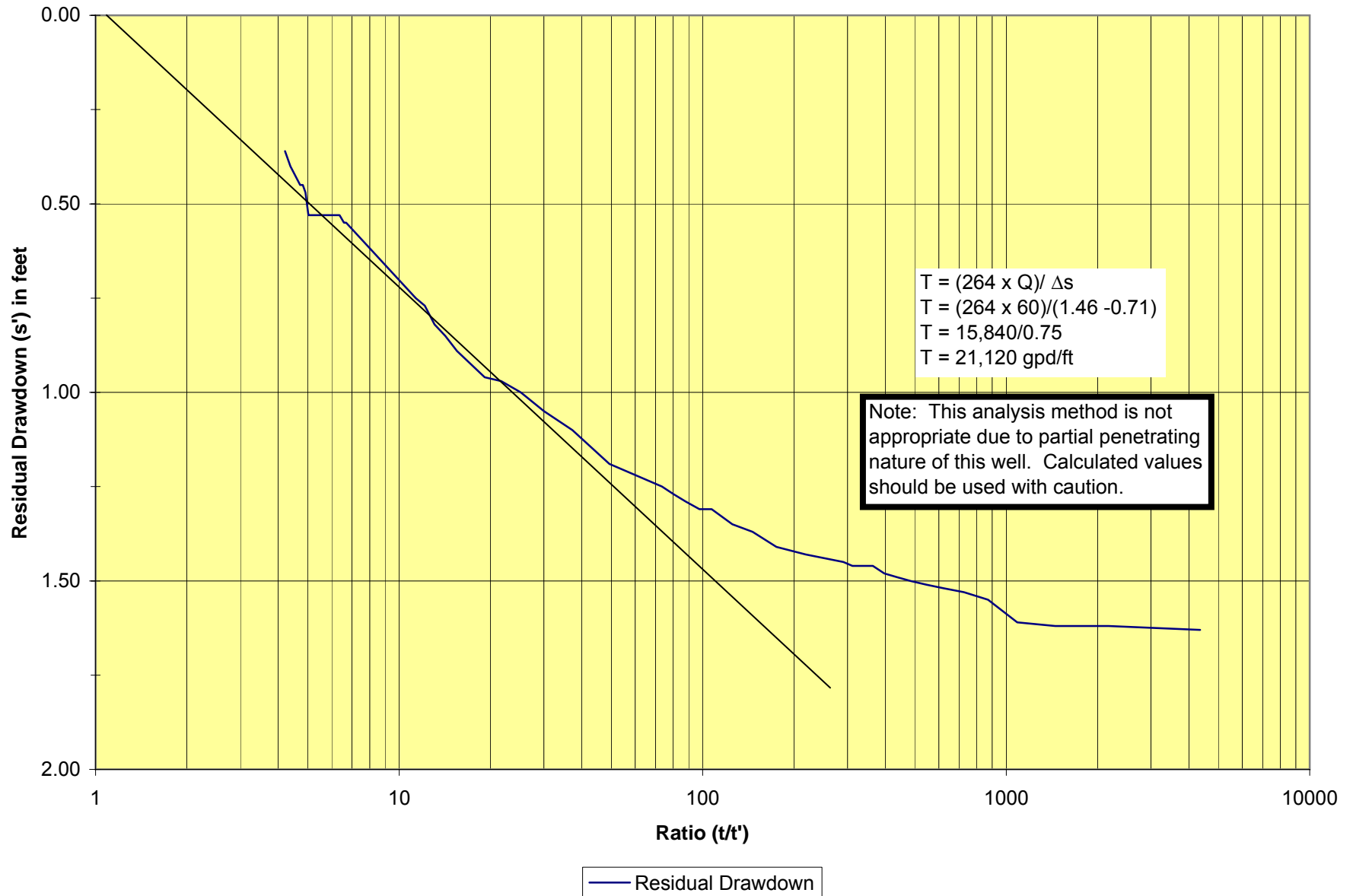
Observation Wells

Well Name	X (ft)	Y (ft)
+ MW-93D	-57	225

**APPENDIX I**

**CW-20 Recovery Data**

**APPENDIX I**  
**CW-20 Residual Drawdown Data**  
Harley-Davidson Motor Company Operations, Inc.



**APPENDIX I**  
**CW-20 Recovery Data**  
**CW-20 Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Elapsed Time since pump stop (mins)	t/t'	Depth to Water (feet below TOC)	Residual Drawdown (feet)	Comments
CW-20	SLM	12/21/06 18:05	4350			24.55	5.40	begin recovery monitoring
CW-20	SLM	12/21/06 18:06	4351	1	4351	20.78	1.63	
CW-20	SLM	12/21/06 18:07	4352	2	2176	20.77	1.62	
CW-20	SLM	12/21/06 18:08	4353	3	1451	20.77	1.62	
CW-20	SLM	12/21/06 18:09	4354	4	1088	20.76	1.61	
CW-20	SLM	12/21/06 18:10	4355	5	871	20.70	1.55	
CW-20	SLM	12/21/06 18:11	4356	6	726	20.68	1.53	
CW-20	SLM	12/21/06 18:12	4357	7	622	20.67	1.52	
CW-20	SLM	12/21/06 18:13	4358	8	545	20.66	1.51	
CW-20	SLM	12/21/06 18:14	4359	9	484	20.65	1.50	
CW-20	SLM	12/21/06 18:15	4360	10	436	20.64	1.49	
CW-20	SLM	12/21/06 18:16	4361	11	396	20.63	1.48	
CW-20	SLM	12/21/06 18:17	4362	12	363	20.61	1.46	
CW-20	SLM	12/21/06 18:18	4363	13	336	20.61	1.46	
CW-20	SLM	12/21/06 18:19	4364	14	312	20.61	1.46	
CW-20	SLM	12/21/06 18:20	4365	15	291	20.60	1.45	
CW-20	SLM	12/21/06 18:25	4370	20	218	20.58	1.43	
CW-20	SLM	12/21/06 18:30	4375	25	175	20.56	1.41	
CW-20	SLM	12/21/06 18:35	4380	30	146	20.52	1.37	
CW-20	SLM	12/21/06 18:40	4385	35	125	20.50	1.35	
CW-20	SLM	12/21/06 18:46	4391	41	107	20.46	1.31	
CW-20	SLM	12/21/06 18:50	4395	45	98	20.46	1.31	
CW-20	SLM	12/21/06 18:55	4400	50	88	20.44	1.29	
CW-20	SLM	12/21/06 19:00	4405	55	80	20.42	1.27	
CW-20	SLM	12/21/06 19:05	4410	60	73	20.40	1.25	
CW-20	SLM	12/21/06 19:35	4440	90	49	20.34	1.19	
CW-20	SLM	12/21/06 20:05	4470	120	37	20.25	1.10	
CW-20	SLM	12/21/06 20:35	4500	150	30	20.20	1.05	
CW-20	SLM	12/21/06 21:05	4530	180	25	20.15	1.00	
CW-20	SLM	12/21/06 21:35	4560	210	22	20.12	0.97	
CW-20	SLM	12/21/06 22:05	4590	240	19	20.11	0.96	
CW-20	SLM	12/21/06 23:05	4650	300	15	20.04	0.89	
CW-20	SLM	12/21/06 23:35	4680	330	14	20.00	0.85	
CW-20	SLM	12/22/06 0:05	4710	360	13	19.97	0.82	

**APPENDIX I**  
**CW-20 Recovery Data**  
**CW-20 Pumping Test**  
Harley-Davidson Motor Company Operations, Inc.

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Elapsed Time since pump stop (mins)	t/t'	Depth to Water (feet below TOC)	Residual Drawdown (feet)	Comments
CW-20	SLM	12/22/06 0:35	4740	390	12	19.92	0.77	
CW-20	SLM	12/22/06 1:05	4770	420	11	19.90	0.75	
CW-20	SLM	12/22/06 6:50	5115	765	7	19.70	0.55	
CW-20	SLM	12/22/06 7:05	5130	780	7	19.70	0.55	
CW-20	SLM	12/22/06 7:35	5160	810	6	19.68	0.53	
CW-20	SLM	12/22/06 8:05	5190	840	6	19.68	0.53	began sprinkling at 8:02
CW-20	SLM	12/22/06 8:35	5220	870	6	19.68	0.53	
CW-20	SLM	12/22/06 9:05	5250	900	6	19.68	0.53	stopped sprinkling at 9:00
CW-20	SLM	12/22/06 9:35	5280	930	6	19.68	0.53	
CW-20	SLM	12/22/06 10:35	5340	990	5	19.68	0.53	
CW-20	SLM	12/22/06 11:05	5370	1020	5	19.68	0.53	
CW-20	SLM	12/22/06 11:35	5400	1050	5	19.68	0.53	
CW-20	SLM	12/22/06 12:05	5430	1080	5	19.68	0.53	
CW-20	SLM	12/22/06 12:35	5460	1110	5	19.62	0.47	light drizzle began at 12:58
CW-20	SLM	12/22/06 13:05	5490	1140	5	19.60	0.45	
CW-20	SLM	12/22/06 13:35	5520	1170	5	19.60	0.45	
CW-20	SLM	12/22/06 15:30	5635	1285	4	19.55	0.40	
CW-20	SLM	12/22/06 16:41	5706	1356	4	19.51	0.36	Emptied rain gauge at 16:42 = 0.24"

TOC - top of casing  
t - time since pump started  
t<sup>1</sup> - time since pump stopped

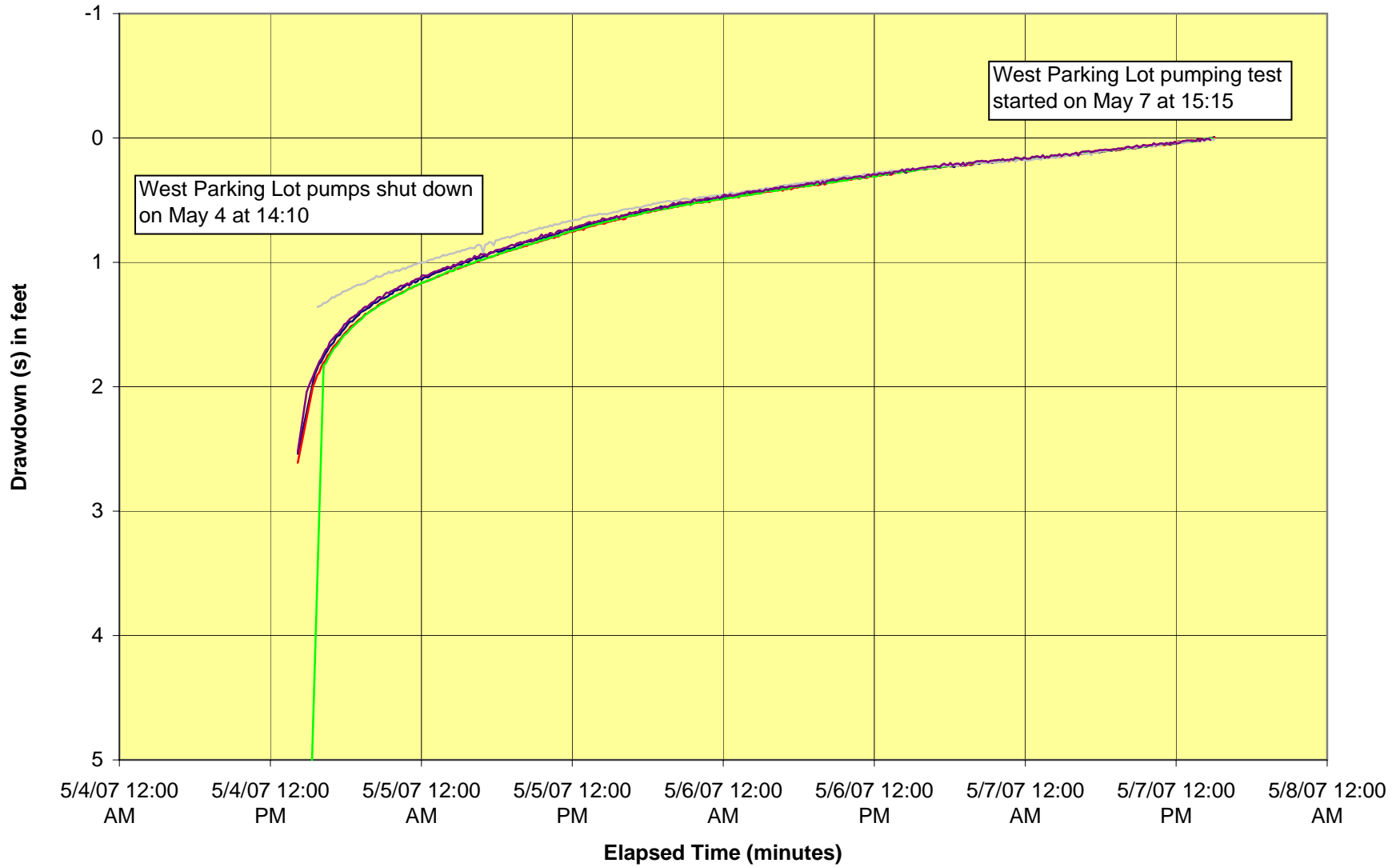
## **APPENDIX J**

### **West Parking Lot Recovery/Background Water Level Data**



**APPENDIX J**  
**Observation Well Recovery Prior to WPL Pumping Test**

Harley-Davidson Motor Company Operations, Inc.



— MW-37D — MW-75D — CW-9 — MW-93D — CW-20

## **APPENDIX K**

### **West Parking Lot Constant-Rate Test, Water Level Data**

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-9	SLM	5/4/07 13:10	0	22.79	--	System operating
CW-9	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-9	SLM	5/4/07 16:15	0	15.74	--	
CW-9	SLM	5/7/07 13:59	0	13.98	--	
CW-9	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-9	SLM	5/8/07 12:22	1267	22.12	8.14	
CW-9	SLM	5/9/07 12:26	2711	22.84	8.86	
CW-9	SLM	5/10/07 11:55	4120	23.29	9.31	
CW-9	SLM	5/11/07 12:04	5569	23.23	9.25	
CW-13	SLM	5/4/07 12:52	0	27.32	--	System operating
CW-13	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-13	SLM	5/7/07 13:37	0	16.41	--	
CW-13	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-13	SLM	5/8/07 12:07	1252	26.06	9.65	
CW-13	SLM	5/9/07 12:03	2688	27.15	10.74	
CW-13	SLM	5/10/07 11:42	4107	28.08	11.67	
CW-13	SLM	5/11/07 11:47	5552	28.43	12.02	
CW-14	SLM	5/4/07 12:15	0	23.38	--	System operating
CW-14	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-14	SLM	5/7/07 12:51	0	17.34	--	
CW-14	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-14	SLM	5/8/07 11:34	1219	22.75	5.41	
CW-14	SLM	5/9/07 11:29	2654	24.25	6.91	
CW-14	SLM	5/10/07 11:00	4065	25.31	7.97	
CW-14	SLM	5/11/07 11:12	5517	25.75	8.41	
CW-15	SLM	5/4/07 12:01	0	18.10	--	System operating
CW-15	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-15	SLM	5/7/07 11:24	0	15.48	--	
CW-15	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-15	SLM	5/8/07 10:48	1173	19.22	3.74	
CW-15	SLM	5/9/07 11:03	2628	20.10	4.62	
CW-15	SLM	5/10/07 10:08	4013	19.96	4.48	
CW-15	SLM	5/11/07 10:18	5463	19.98	4.50	
CW-15A	SLM	5/4/07 11:20	0	27.26	--	System operating
CW-15A	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-15A	SLM	5/7/07 11:28	0	15.78	--	
CW-15A	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-15A	SLM	5/8/07 10:51	1176	31.26	15.48	
CW-15A	SLM	5/9/07 11:00	2625	32.60	16.82	
CW-15A	SLM	5/10/07 10:15	4020	31.40	15.62	
CW-15A	SLM	5/11/07 10:21	5466	31.71	15.93	

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
CW-17	SLM	5/4/07 12:19	0	23.27	--	System operating
CW-17	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-17	SLM	5/7/07 12:49	0	17.09	--	
CW-17	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-17	SLM	5/8/07 11:37	1222	22.72	5.63	
CW-17	SLM	5/9/07 11:32	2657	24.11	7.02	
CW-17	SLM	5/10/07 11:02	4067	25.19	8.10	
CW-17	SLM	5/11/07 11:15	5520	25.63	8.54	
CW-20	SLM	5/4/07 13:15	0	21.01	--	System operating
CW-20	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
CW-20	SLM	5/4/07 14:42	0	20.65	--	
CW-20	SLM	5/4/07 14:55	0	20.59	--	
CW-20	SLM	5/7/07 14:32	0	18.59	--	
CW-20	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
CW-20	SLM	5/8/07 12:54	1299	20.46	1.87	
CW-20	SLM	5/9/07 12:40	2725	21.04	2.45	
CW-20	SLM	5/10/07 12:17	4142	21.49	2.90	
CW-20	SLM	5/11/07 12:26	5591	21.45	2.86	
MW-6	SLM	5/4/07 12:10	0	19.89	--	System operating
MW-6	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-6	SLM	5/7/07 12:56	0	17.25	--	
MW-6	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-6	SLM	5/8/07 11:32	1217	18.76	1.51	
MW-6	SLM	5/9/07 11:26	2651	19.87	2.62	
MW-6	SLM	5/10/07 10:56	4061	19.97	2.72	
MW-6	SLM	5/11/07 11:09	5514	20.00	2.75	
MW-7	SLM	5/4/07 12:46	0	22.92	--	System operating
MW-7	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-7	SLM	5/7/07 13:33	0	18.01	--	
MW-7	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-7	SLM	5/8/07 12:04	1249	21.69	3.68	
MW-7	SLM	5/9/07 12:00	2685	23.36	5.35	
MW-7	SLM	5/10/07 11:39	4104	24.46	6.45	
MW-7	SLM	5/11/07 11:43	5548	24.85	6.84	
MW-8	SLM	5/4/07 13:07	0	17.41	--	System operating
MW-8	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-8	SLM	5/7/07 13:50	0	15.22	--	
MW-8	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-8	SLM	5/8/07 12:18	1263	16.78	1.56	
MW-8	SLM	5/9/07 12:14	2699	17.44	2.22	
MW-8	SLM	5/10/07 11:52	4117	17.88	2.66	
MW-8	SLM	5/11/07 11:59	5564	17.94	2.72	

TOC - Top of casing

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-27	SLM	5/4/07 11:56	0	15.70	--	System operating
MW-27	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-27	SLM	5/4/07 12:06	0	14.94	--	
MW-27	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-27	SLM	5/8/07 11:20	1205	15.42	0.48	
MW-27	SLM	5/9/07 11:12	2637	15.73	0.79	
MW-27	SLM	5/10/07 10:48	4053	15.79	0.85	
MW-27	SLM	5/11/07 10:58	5503	15.80	0.86	
MW-29	SLM	5/4/07 16:31	0	13.60	--	System operating
MW-29	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-29	SLM	5/7/07 14:25	0	13.68	--	
MW-29	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-29	SLM	5/8/07 12:47	1292	13.69	0.01	
MW-29	SLM	5/9/07 12:31	2716	13.72	0.04	
MW-29	SLM	5/10/07 12:12	4137	13.75	0.07	
MW-29	SLM	5/11/07 13:24	5649	13.58	-0.10	
MW-30	SLM	5/4/07 11:13	0	14.47	--	System operating
MW-30	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-30	SLM	5/7/07 11:16	0	14.05	--	
MW-30	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-30	SLM	5/8/07 10:45	1170	14.56	0.51	
MW-30	SLM	5/9/07 11:08	2633	14.91	0.86	
MW-30	SLM	5/10/07 10:06	4011	15.07	1.02	
MW-30	SLM	5/11/07 10:12	5457	15.20	1.15	
MW-34S	SLM	5/4/07 11:42	0	16.66	--	System operating
MW-34S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-34S	SLM	5/7/07 11:47	0	15.99	--	
MW-34S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-34S	SLM	5/8/07 11:04	1189	16.56	0.57	
MW-34S	SLM	5/9/07 9:42	2547	17.03	1.04	
MW-34S	SLM	5/9/07 10:20	2585	--	--	Shut off well CW-8
MW-34S	SLM	5/9/07 13:28	2773	16.90	0.91	
MW-34S	SLM	5/10/07 10:34	4039	16.50	0.51	
MW-34S	SLM	5/11/07 10:40	5485	16.33	0.34	
MW-34D	SLM	5/4/07 11:45	0	16.81	--	System operating
MW-34D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-34D	SLM	5/7/07 11:48	0	15.92	--	
MW-34D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-34D	SLM	5/8/07 11:06	1191	16.75	0.76	
MW-34D	SLM	5/9/07 9:43	2548	17.21	1.22	
MW-34D	SLM	5/9/07 10:20	2585	--	--	Shut off well CW-8
MW-34D	SLM	5/9/07 13:30	2775	16.82	0.83	
MW-34D	SLM	5/10/07 10:35	4040	16.43	0.44	
MW-34D	SLM	5/11/07 10:42	5487	16.25	0.26	

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-35S	SLM	5/4/07 11:36	0	16.16	--	System operating
MW-35S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-35S	SLM	5/7/07 12:21	0	15.40	--	
MW-35S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-35S	SLM	5/8/07 11:10	1195	16.10	0.11	
MW-35S	SLM	5/9/07 9:47	2552	16.56	0.57	
MW-35S	SLM	5/9/07 10:20	2585	--	--	Shut off well CW-8
MW-35S	SLM	5/9/07 13:33	2778	16.31	0.32	
MW-35S	SLM	5/10/07 10:38	4043	15.92	-0.07	
MW-35S	SLM	5/11/07 10:45	5490	15.76	-0.23	
MW-35D	SLM	5/4/07 11:39	0	16.36	--	System operating
MW-35D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-35D	SLM	5/7/07 11:51	0	15.53	--	
MW-35D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-35D	SLM	5/8/07 11:12	1197	16.35	0.36	
MW-35D	SLM	5/9/07 9:49	2554	16.80	0.81	
MW-35D	SLM	5/9/07 10:20	2585	--	--	Shut off well CW-8
MW-35D	SLM	5/9/07 13:34	2779	16.43	0.44	
MW-35D	SLM	5/10/07 10:39	4044	16.04	0.05	
MW-35D	SLM	5/11/07 10:47	5492	15.88	-0.11	
MW-37S	SLM	5/4/07 13:19	0	17.81	--	System operating
MW-37S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-37S	SLM	5/7/07 14:41	0	16.29	--	
MW-37S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-37S	SLM	5/8/07 12:57	1302	17.27	0.98	
MW-37S	SLM	5/9/07 12:36	2721	17.78	1.49	
MW-37S	SLM	5/10/07 12:21	4146	18.14	1.85	
MW-37S	SLM	5/11/07 12:27	5592	18.07	1.78	
MW-37D	SLM	5/4/07 13:20	0	18.71	--	System operating
MW-37D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-37D	SLM	5/4/07 15:32	0	18.09	--	
MW-37D	SLM	5/7/07 14:42	0	16.25	--	
MW-37D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-37D	SLM	5/8/07 12:58	1303	18.21	1.96	
MW-37D	SLM	5/9/07 12:37	2722	18.77	2.52	
MW-37D	SLM	5/10/07 12:22	4147	19.19	2.94	
MW-37D	SLM	5/11/07 12:28	5593	19.16	2.91	
MW-38D	SLM	5/4/07 12:55	0	18.41	--	System operating
MW-38D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-38D	SLM	5/7/07 13:41	0	16.64	--	
MW-38D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-38D	SLM	5/8/07 12:11	1256	17.12	0.48	
MW-38D	SLM	5/9/07 12:09	2694	17.59	0.95	
MW-38D	SLM	5/10/07 11:45	4110	18.10	1.46	
MW-38D	SLM	5/11/07 11:51	5556	18.34	1.70	

TOC - Top of casing

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-39S	SLM	5/4/07 12:23	0	20.61	--	System operating
MW-39S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-39S	SLM	5/4/07 13:05	0	18.62	--	
MW-39S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-39S	SLM	5/8/07 11:44	1229	19.34	0.72	
MW-39S	SLM	5/9/07 11:41	2666	20.05	1.43	
MW-39S	SLM	5/10/07 11:16	4081	20.55	1.93	
MW-39S	SLM	5/11/07 11:22	5527	20.85	2.23	
MW-39D	SLM	5/4/07 12:24	0	20.46	--	System operating
MW-39D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-39D	SLM	5/7/07 13:07	0	18.80	--	
MW-39D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-39D	SLM	5/8/07 11:45	1230	19.38	0.58	
MW-39D	SLM	5/9/07 11:42	2667	20.00	1.20	
MW-39D	SLM	5/10/07 11:17	4082	20.52	1.72	
MW-39D	SLM	5/11/07 11:24	5529	20.85	2.05	
MW-45	SLM	5/4/07 11:30	0	15.97	--	System operating
MW-45	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-45	SLM	5/7/07 11:38	0	15.07	--	
MW-45	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-45	SLM	5/8/07 10:58	1183	15.72	0.65	
MW-45	SLM	5/9/07 10:51	2616	16.15	1.08	
MW-45	SLM	5/10/07 10:23	4028	15.93	0.86	
MW-45	SLM	5/11/07 10:32	5477	15.86	0.79	
MW-46	SLM	5/4/07 11:33	0	15.12	--	System operating
MW-46	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-46	SLM	5/7/07 11:40	0	14.35	--	
MW-46	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-46	SLM	5/8/07 11:01	1186	14.81	0.46	
MW-46	SLM	5/9/07 10:48	2613	15.35	1.00	
MW-46	SLM	5/10/07 10:25	4030	15.12	0.77	
MW-46	SLM	5/11/07 10:35	5480	14.89	0.54	
MW-47	SLM	5/4/07 11:27	0	19.32	--	System operating
MW-47	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-47	SLM	5/7/07 11:35	0	17.62	--	
MW-47	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-47	SLM	5/8/07 10:56	1181	17.90	0.28	
MW-47	SLM	5/9/07 10:53	2618	18.59	0.97	
MW-47	SLM	5/10/07 10:21	4026	18.99	1.37	
MW-47	SLM	5/11/07 10:29	5474	19.28	1.66	
MW-49S	SLM	5/4/07 11:23	0	16.99	--	System operating
MW-49S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-49S	SLM	5/7/07 11:30	0	15.59	--	
MW-49S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-49S	SLM	5/8/07 10:52	1177	17.00	1.41	
MW-49S	SLM	5/9/07 10:56	2621	17.94	2.35	
MW-49S	SLM	5/10/07 10:18	4023	17.99	2.40	
MW-49S	SLM	5/11/07 10:25	5470	17.96	2.37	

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-49D	SLM	5/4/07 11:24	0	16.75	--	System operating
MW-49D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-49D	SLM	5/7/07 11:31	0	15.69	--	
MW-49D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-49D	SLM	5/8/07 10:53	1178	16.90	1.21	
MW-49D	SLM	5/9/07 10:57	2622	17.35	1.66	
MW-49D	SLM	5/10/07 10:20	4025	17.58	1.89	
MW-49D	SLM	5/11/07 10:23	5468	17.64	1.95	
MW-50S	SLM	5/4/07 12:34	0	19.42	--	System operating
MW-50S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-50S	SLM	5/7/07 13:19	0	17.24	--	
MW-50S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-50S	SLM	5/8/07 11:54	1239	18.09	0.85	
MW-50S	SLM	5/9/07 11:50	2675	19.12	1.88	
MW-50S	SLM	5/10/07 11:27	4092	19.62	2.38	
MW-50S	SLM	5/11/07 11:33	5538	19.91	2.67	
MW-50D	SLM	5/4/07 12:32	0	20.16	--	System operating
MW-50D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-50D	SLM	5/7/07 13:20	0	17.89	--	
MW-50D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-50D	SLM	5/8/07 11:56	1241	19.54	1.65	
MW-50D	SLM	5/9/07 11:49	2674	20.25	2.36	
MW-50D	SLM	5/10/07 11:28	4093	20.70	2.81	
MW-50D	SLM	5/11/07 11:34	5539	20.77	2.88	
MW-51S	SLM	5/4/07 12:39	0	22.28	--	System operating
MW-51S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-51S	SLM	5/7/07 13:24	0	18.41	--	
MW-51S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-51S	SLM	5/8/07 11:59	1244	20.88	2.47	
MW-51S	SLM	5/9/07 11:56	2681	22.38	3.97	
MW-51S	SLM	5/10/07 11:32	4097	23.28	4.87	
MW-51S	SLM	5/11/07 11:39	5544	23.77	5.36	
MW-51D	SLM	5/4/07 12:38	0	21.02	--	System operating
MW-51D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-51D	SLM	5/7/07 13:25	0	19.83	--	
MW-51D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-51D	SLM	5/8/07 12:00	1245	17.45	-2.38	
MW-51D	SLM	5/9/07 11:54	2679	17.33	-2.50	
MW-51D	SLM	5/10/07 11:33	4098	9.23	-10.60	
MW-51D	SLM	5/11/07 11:37	5542	11.91	-7.92	

TOC - Top of casing



**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-74S	SLM	5/4/07 12:26	0	19.44	--	System operating
MW-74S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-74S	SLM	5/4/07 13:08	0	18.10	--	
MW-74S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-74S	SLM	5/8/07 11:47	1232	18.78	0.68	
MW-74S	SLM	5/9/07 11:39	2664	19.21	1.11	
MW-74S	SLM	5/10/07 11:18	4083	19.56	1.46	
MW-74S	SLM	5/11/07 11:25	5530	19.74	1.64	
MW-74D	SLM	5/4/07 12:27	0	18.94	--	System operating
MW-74D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-74D	SLM	5/7/07 13:09	0	17.99	--	
MW-74D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-74D	SLM	5/8/07 11:49	1234	18.52	0.53	
MW-74D	SLM	5/9/07 11:40	2665	18.84	0.85	
MW-74D	SLM	5/10/07 11:19	4084	19.09	1.10	
MW-74D	SLM	5/11/07 11:26	5531	19.22	1.23	
MW-75S	SLM	5/4/07 13:18	0	18.98	--	System operating
MW-75S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-75S	SLM	5/7/07 14:39	0	16.82	--	
MW-75S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-75S	SLM	5/8/07 12:56	1301	18.51	1.69	
MW-75S	SLM	5/9/07 12:35	2720	19.02	2.20	
MW-75S	SLM	5/10/07 12:20	4145	19.40	2.58	
MW-75S	SLM	5/11/07 12:29	5594	19.35	2.53	
MW-75D	SLM	5/4/07 13:16	0	20.49	--	System operating
MW-75D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-75D	SLM	5/4/07 15:23	0	19.89	--	
MW-75D	SLM	5/7/07 14:37	0	18.05	--	
MW-75D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-75D	SLM	5/8/07 12:55	1300	20.00	1.95	
MW-75D	SLM	5/9/07 12:42	2727	20.54	2.49	
MW-75D	SLM	5/10/07 12:18	4143	20.97	2.92	
MW-75D	SLM	5/11/07 12:25	5590	20.91	2.86	
MW-81S	SLM	5/4/07 11:50	0	15.72	--	System operating
MW-81S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-81S	SLM	5/7/07 12:00	0	15.08	--	
MW-81S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-81S	SLM	5/8/07 11:16	1201	15.42	0.34	
MW-81S	SLM	5/9/07 11:15	2640	15.81	0.73	
MW-81S	SLM	5/10/07 10:44	4049	15.59	0.51	
MW-81S	SLM	5/11/07 10:52	5497	15.44	0.36	
MW-81D	SLM	5/4/07 11:53	0	15.19	--	System operating
MW-81D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-81D	SLM	5/7/07 12:01	0	14.62	--	
MW-81D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-81D	SLM	5/8/07 11:18	1203	14.87	0.25	
MW-81D	SLM	5/9/07 11:17	2642	15.20	0.58	
MW-81D	SLM	5/10/07 10:45	4050	15.12	0.50	
MW-81D	SLM	5/11/07 10:54	5499	15.02	0.40	

**APPENDIX K**  
**Monitoring Wells - Manual Water Levels**  
**West Parking Lot Pumping Test**  
**Harley-Davidson Motor Company Operations, Inc.**

Well ID:	Personnel (initials)	Date/Time	Elapsed Time (minutes)	Depth to Water (feet below TOC)	Drawdown (feet)	Comments
MW-93S	SLM	5/4/07 13:23	0	19.18	--	System operating
MW-93S	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-93S	SLM	5/7/07 14:46	0	17.81	--	
MW-93S	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-93S	SLM	5/8/07 13:39	1344	18.56	0.75	
MW-93S	SLM	5/9/07 13:02	2747	19.08	1.27	
MW-93S	SLM	5/10/07 12:38	4163	19.43	1.62	
MW-93S	SLM	5/11/07 13:05	5630	19.35	1.54	
MW-93D	SLM	5/4/07 13:25	0	18.85	--	System operating
MW-93D	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
MW-93D	SLM	5/4/07 15:44	0	19.24	--	
MW-93D	SLM	5/7/07 14:47	0	17.42	--	
MW-93D	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
MW-93D	SLM	5/8/07 13:40	1345	17.31	-0.11	
MW-93D	SLM	5/9/07 13:04	2749	18.76	1.34	
MW-93D	SLM	5/10/07 12:39	4164	19.09	1.67	
MW-93D	SLM	5/11/07 13:07	5632	19.05	1.63	
WPLSS-7	SLM	5/4/07 13:03	0	18.98	--	System operating
WPLSS-7	SLM	5/4/07 14:10	0	--	--	Shut down WPL wells
WPLSS-7	SLM	5/7/07 13:45	0	16.11	--	
WPLSS-7	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
WPLSS-7	SLM	5/8/07 12:14	1259	17.03	0.92	
WPLSS-7	SLM	5/9/07 12:07	2692	17.90	1.79	
WPLSS-7	SLM	5/10/07 11:47	4112	18.57	2.46	
WPLSS-7	SLM	5/11/07 11:55	5560	18.80	2.69	
WPLSS-8	SLM	5/4/07 13:00	0	--	--	Shut down WPL wells
WPLSS-8	SLM	5/7/07 13:24	0	21.51	--	
WPLSS-8	SLM	5/7/07 15:15	0	--	--	Start of WPL pumping test
WPLSS-8	SLM	5/8/07 11:40	1225	22.38	0.87	
WPLSS-8	SLM	5/9/07 11:36	2661	22.99	1.48	
WPLSS-8	SLM	5/10/07 11:07	4072	23.45	1.94	
WPLSS-8	SLM	5/11/07 11:20	5525	23.72	2.21	

TOC - Top of casing

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/4/2007 15:14	0	15.724	58.506
5/4/2007 15:24	10	15.707	58.037
5/4/2007 15:34	20	15.671	58.017
5/4/2007 15:44	30	15.64	58.006
5/4/2007 15:54	40	15.614	58.004
5/4/2007 16:04	50	15.588	58.032
5/4/2007 16:14	60	15.568	58.063
5/4/2007 16:24	70	15.548	58.099
5/4/2007 16:34	80	15.522	58.078
5/4/2007 16:44	90	15.498	58.087
5/4/2007 16:54	100	15.479	58.098
5/4/2007 17:04	110	15.465	58.098
5/4/2007 17:14	120	15.446	58.127
5/4/2007 17:24	130	15.427	58.139
5/4/2007 17:34	140	15.411	58.146
5/4/2007 17:44	150	15.396	58.152
5/4/2007 17:54	160	15.379	58.159
5/4/2007 18:04	170	15.366	58.167
5/4/2007 18:14	180	15.353	58.163
5/4/2007 18:24	190	15.333	58.172
5/4/2007 18:34	200	15.318	58.173
5/4/2007 18:44	210	15.306	58.174
5/4/2007 18:54	220	15.294	58.179
5/4/2007 19:04	230	15.283	58.184
5/4/2007 19:14	240	15.272	58.183
5/4/2007 19:24	250	15.259	58.181
5/4/2007 19:34	260	15.25	58.185
5/4/2007 19:44	270	15.236	58.186
5/4/2007 19:54	280	15.228	58.19
5/4/2007 20:04	290	15.219	58.183
5/4/2007 20:14	300	15.206	58.181
5/4/2007 20:24	310	15.192	58.185
5/4/2007 20:34	320	15.185	58.179
5/4/2007 20:44	330	15.175	58.18
5/4/2007 20:54	340	15.165	58.175
5/4/2007 21:04	350	15.157	58.179
5/4/2007 21:14	360	15.153	58.172
5/4/2007 21:24	370	15.147	58.168
5/4/2007 21:34	380	15.138	58.171
5/4/2007 21:44	390	15.124	58.173
5/4/2007 21:54	400	15.115	58.17
5/4/2007 22:04	410	15.11	58.173
5/4/2007 22:14	420	15.099	58.169
5/4/2007 22:24	430	15.088	58.173
5/4/2007 22:34	440	15.083	58.164
5/4/2007 22:44	450	15.075	58.16
5/4/2007 22:54	460	15.071	58.16
5/4/2007 23:04	470	15.057	58.16
5/4/2007 23:14	480	15.057	58.166
5/4/2007 23:24	490	15.044	58.164
5/4/2007 23:34	500	15.041	58.159
5/4/2007 23:44	510	15.037	58.163
5/4/2007 23:54	520	15.029	58.165
5/5/2007 0:04	530	15.021	58.163
5/5/2007 0:14	540	15.008	58.166
5/5/2007 0:24	550	15.001	58.165
5/5/2007 0:34	560	15	58.167
5/5/2007 0:44	570	14.992	58.161
5/5/2007 0:54	580	14.98	58.161
5/5/2007 1:04	590	14.973	58.164
5/5/2007 1:14	600	14.966	58.165
5/5/2007 1:24	610	14.967	58.162
5/5/2007 1:34	620	14.964	58.165
5/5/2007 1:44	630	14.947	58.161
5/5/2007 1:54	640	14.94	58.164
5/5/2007 2:04	650	14.934	58.157
5/5/2007 2:14	660	14.931	58.159
5/5/2007 2:24	670	14.927	58.151

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/5/2007 2:34	680	14.917	58.148
5/5/2007 2:44	690	14.917	58.148
5/5/2007 2:54	700	14.907	58.146
5/5/2007 3:04	710	14.901	58.153
5/5/2007 3:14	720	14.899	58.148
5/5/2007 3:24	730	14.884	58.144
5/5/2007 3:34	740	14.88	58.147
5/5/2007 3:44	750	14.879	58.147
5/5/2007 3:54	760	14.874	58.146
5/5/2007 4:04	770	14.864	58.147
5/5/2007 4:14	780	14.863	58.148
5/5/2007 4:24	790	14.855	58.157
5/5/2007 4:34	800	14.847	58.164
5/5/2007 4:44	810	14.849	58.169
5/5/2007 4:54	820	14.838	58.17
5/5/2007 5:04	830	14.829	58.166
5/5/2007 5:14	840	14.825	58.16
5/5/2007 5:24	850	14.824	58.155
5/5/2007 5:34	860	14.813	58.154
5/5/2007 5:44	870	14.806	58.15
5/5/2007 5:54	880	14.802	58.148
5/5/2007 6:04	890	14.802	58.142
5/5/2007 6:14	900	14.791	58.144
5/5/2007 6:24	910	14.788	58.141
5/5/2007 6:34	920	14.786	58.133
5/5/2007 6:44	930	14.779	58.135
5/5/2007 6:54	940	14.774	58.127
5/5/2007 7:04	950	14.761	58.124
5/5/2007 7:14	960	14.756	58.122
5/5/2007 7:24	970	14.755	58.116
5/5/2007 7:34	980	14.75	58.114
5/5/2007 7:44	990	14.749	58.106
5/5/2007 7:54	1000	14.744	58.105
5/5/2007 8:04	1010	14.736	58.108
5/5/2007 8:14	1020	14.732	58.103
5/5/2007 8:24	1030	14.722	58.101
5/5/2007 8:34	1040	14.719	58.099
5/5/2007 8:44	1050	14.712	58.098
5/5/2007 8:54	1060	14.71	58.093
5/5/2007 9:04	1070	14.703	58.097
5/5/2007 9:14	1080	14.7	58.095
5/5/2007 9:24	1090	14.694	58.095
5/5/2007 9:34	1100	14.687	58.092
5/5/2007 9:44	1110	14.682	58.091
5/5/2007 9:54	1120	14.684	58.091
5/5/2007 10:04	1130	14.673	58.087
5/5/2007 10:14	1140	14.667	58.084
5/5/2007 10:24	1150	14.66	58.089
5/5/2007 10:34	1160	14.655	58.091
5/5/2007 10:44	1170	14.65	58.087
5/5/2007 10:54	1180	14.646	58.086
5/5/2007 11:04	1190	14.641	58.087
5/5/2007 11:14	1200	14.636	58.087
5/5/2007 11:24	1210	14.633	58.085
5/5/2007 11:34	1220	14.628	58.085
5/5/2007 11:44	1230	14.624	58.083
5/5/2007 11:54	1240	14.617	58.081
5/5/2007 12:04	1250	14.612	58.085
5/5/2007 12:14	1260	14.607	58.085
5/5/2007 12:24	1270	14.601	58.085
5/5/2007 12:34	1280	14.598	58.085
5/5/2007 12:44	1290	14.594	58.081
5/5/2007 12:54	1300	14.59	58.081
5/5/2007 13:04	1310	14.584	58.084
5/5/2007 13:14	1320	14.583	58.079
5/5/2007 13:24	1330	14.575	58.081
5/5/2007 13:34	1340	14.572	58.077
5/5/2007 13:44	1350	14.567	58.075

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/5/2007 13:54	1360	14.567	58.076
5/5/2007 14:04	1370	14.56	58.071
5/5/2007 14:14	1380	14.557	58.072
5/5/2007 14:24	1390	14.552	58.064
5/5/2007 14:34	1400	14.549	58.065
5/5/2007 14:44	1410	14.543	58.061
5/5/2007 14:54	1420	14.538	58.057
5/5/2007 15:04	1430	14.534	58.055
5/5/2007 15:14	1440	14.532	58.054
5/5/2007 15:24	1450	14.527	58.049
5/5/2007 15:34	1460	14.52	58.05
5/5/2007 15:44	1470	14.522	58.045
5/5/2007 15:54	1480	14.516	58.043
5/5/2007 16:04	1490	14.518	58.042
5/5/2007 16:14	1500	14.508	58.043
5/5/2007 16:24	1510	14.511	58.038
5/5/2007 16:34	1520	14.499	58.039
5/5/2007 16:44	1530	14.497	58.039
5/5/2007 16:54	1540	14.493	58.043
5/5/2007 17:04	1550	14.489	58.035
5/5/2007 17:14	1560	14.485	58.031
5/5/2007 17:24	1570	14.483	58.032
5/5/2007 17:34	1580	14.479	58.036
5/5/2007 17:44	1590	14.475	58.031
5/5/2007 17:54	1600	14.473	58.03
5/5/2007 18:04	1610	14.472	58.029
5/5/2007 18:14	1620	14.464	58.029
5/5/2007 18:24	1630	14.468	58.03
5/5/2007 18:34	1640	14.46	58.033
5/5/2007 18:44	1650	14.46	58.027
5/5/2007 18:54	1660	14.452	58.029
5/5/2007 19:04	1670	14.452	58.028
5/5/2007 19:14	1680	14.447	58.027
5/5/2007 19:24	1690	14.443	58.028
5/5/2007 19:34	1700	14.44	58.028
5/5/2007 19:44	1710	14.438	58.024
5/5/2007 19:54	1720	14.438	58.023
5/5/2007 20:04	1730	14.431	58.031
5/5/2007 20:14	1740	14.428	58.023
5/5/2007 20:24	1750	14.434	58.027
5/5/2007 20:34	1760	14.425	58.025
5/5/2007 20:44	1770	14.418	58.023
5/5/2007 20:54	1780	14.414	58.029
5/5/2007 21:04	1790	14.412	58.026
5/5/2007 21:14	1800	14.416	58.024
5/5/2007 21:24	1810	14.406	58.026
5/5/2007 21:34	1820	14.411	58.029
5/5/2007 21:44	1830	14.408	58.022
5/5/2007 21:54	1840	14.404	58.024
5/5/2007 22:04	1850	14.395	58.027
5/5/2007 22:14	1860	14.393	58.028
5/5/2007 22:24	1870	14.394	58.025
5/5/2007 22:34	1880	14.387	58.024
5/5/2007 22:44	1890	14.389	58.029
5/5/2007 22:54	1900	14.392	58.027
5/5/2007 23:04	1910	14.382	58.029
5/5/2007 23:14	1920	14.38	58.029
5/5/2007 23:24	1930	14.38	58.024
5/5/2007 23:34	1940	14.376	58.025
5/5/2007 23:44	1950	14.377	58.025
5/5/2007 23:54	1960	14.374	58.026
5/6/2007 0:04	1970	14.365	58.022
5/6/2007 0:14	1980	14.369	58.028
5/6/2007 0:24	1990	14.359	58.024
5/6/2007 0:34	2000	14.358	58.018
5/6/2007 0:44	2010	14.359	58.018
5/6/2007 0:54	2020	14.347	58.016
5/6/2007 1:04	2030	14.356	58.017

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G SN#: 111099	Sensor: Pres 30G SN#: 111099
Date and Time	Elapsed Time Minutes	Level-DTW (ft)	Temperature (F)
5/6/2007 1:14	2040	14.352	58.016
5/6/2007 1:24	2050	14.348	58.016
5/6/2007 1:34	2060	14.343	58.014
5/6/2007 1:44	2070	14.341	58.013
5/6/2007 1:54	2080	14.344	58.013
5/6/2007 2:04	2090	14.336	58.015
5/6/2007 2:14	2100	14.327	58.011
5/6/2007 2:24	2110	14.323	58.017
5/6/2007 2:34	2120	14.322	58.01
5/6/2007 2:44	2130	14.319	58.012
5/6/2007 2:54	2140	14.323	58.016
5/6/2007 3:04	2150	14.321	58.01
5/6/2007 3:14	2160	14.317	58.009
5/6/2007 3:24	2170	14.315	58.009
5/6/2007 3:34	2180	14.314	58.01
5/6/2007 3:44	2190	14.305	58.011
5/6/2007 3:54	2200	14.307	58.007
5/6/2007 4:04	2210	14.3	58.007
5/6/2007 4:14	2220	14.305	58.009
5/6/2007 4:24	2230	14.293	58.01
5/6/2007 4:34	2240	14.289	58.01
5/6/2007 4:44	2250	14.29	58.015
5/6/2007 4:54	2260	14.286	58.017
5/6/2007 5:04	2270	14.29	58.012
5/6/2007 5:14	2280	14.281	58.01
5/6/2007 5:24	2290	14.286	58.013
5/6/2007 5:34	2300	14.283	58.018
5/6/2007 5:44	2310	14.285	58.013
5/6/2007 5:54	2320	14.274	58.01
5/6/2007 6:04	2330	14.276	58.014
5/6/2007 6:14	2340	14.269	58.016
5/6/2007 6:24	2350	14.27	58.013
5/6/2007 6:34	2360	14.264	58.011
5/6/2007 6:44	2370	14.265	58.016
5/6/2007 6:54	2380	14.26	58.016
5/6/2007 7:04	2390	14.257	58.011
5/6/2007 7:14	2400	14.26	58.01
5/6/2007 7:24	2410	14.255	58.011
5/6/2007 7:34	2420	14.255	58.013
5/6/2007 7:44	2430	14.25	58.016
5/6/2007 7:54	2440	14.249	58.013
5/6/2007 8:04	2450	14.247	58.018
5/6/2007 8:14	2460	14.239	58.017
5/6/2007 8:24	2470	14.241	58.013
5/6/2007 8:34	2480	14.24	58.017
5/6/2007 8:44	2490	14.237	58.017
5/6/2007 8:54	2500	14.236	58.017
5/6/2007 9:04	2510	14.224	58.016
5/6/2007 9:14	2520	14.226	58.013
5/6/2007 9:24	2530	14.226	58.013
5/6/2007 9:34	2540	14.215	58.014
5/6/2007 9:44	2550	14.213	58.016
5/6/2007 9:54	2560	14.223	58.013
5/6/2007 10:04	2570	14.212	58.017
5/6/2007 10:14	2580	14.215	58.016
5/6/2007 10:24	2590	14.208	58.023
5/6/2007 10:34	2600	14.204	58.02
5/6/2007 10:44	2610	14.2	58.016
5/6/2007 10:54	2620	14.207	58.018
5/6/2007 11:04	2630	14.206	58.018
5/6/2007 11:14	2640	14.203	58.016
5/6/2007 11:24	2650	14.192	58.018
5/6/2007 11:34	2660	14.193	58.017
5/6/2007 11:44	2670	14.194	58.019
5/6/2007 11:54	2680	14.187	58.015
5/6/2007 12:04	2690	14.188	58.019
5/6/2007 12:14	2700	14.178	58.018
5/6/2007 12:24	2710	14.175	58.022

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/6/2007 12:34	2720	14.176	58.022
5/6/2007 12:44	2730	14.172	58.015
5/6/2007 12:54	2740	14.177	58.017
5/6/2007 13:04	2750	14.173	58.017
5/6/2007 13:14	2760	14.166	58.02
5/6/2007 13:24	2770	14.168	58.017
5/6/2007 13:34	2780	14.16	58.026
5/6/2007 13:44	2790	14.163	58.02
5/6/2007 13:54	2800	14.164	58.019
5/6/2007 14:04	2810	14.162	58.019
5/6/2007 14:14	2820	14.154	58.021
5/6/2007 14:24	2830	14.155	58.022
5/6/2007 14:34	2840	14.149	58.023
5/6/2007 14:44	2850	14.146	58.021
5/6/2007 14:54	2860	14.143	58.022
5/6/2007 15:04	2870	14.144	58.022
5/6/2007 15:14	2880	14.137	58.023
5/6/2007 15:24	2890	14.142	58.019
5/6/2007 15:34	2900	14.141	58.026
5/6/2007 15:44	2910	14.139	58.024
5/6/2007 15:54	2920	14.134	58.02
5/6/2007 16:04	2930	14.137	58.023
5/6/2007 16:14	2940	14.126	58.024
5/6/2007 16:24	2950	14.128	58.026
5/6/2007 16:34	2960	14.124	58.022
5/6/2007 16:44	2970	14.124	58.032
5/6/2007 16:54	2980	14.122	58.029
5/6/2007 17:04	2990	14.12	58.024
5/6/2007 17:14	3000	14.118	58.029
5/6/2007 17:24	3010	14.115	58.03
5/6/2007 17:34	3020	14.119	58.025
5/6/2007 17:44	3030	14.111	58.029
5/6/2007 17:54	3040	14.111	58.033
5/6/2007 18:04	3050	14.115	58.03
5/6/2007 18:14	3060	14.114	58.03
5/6/2007 18:24	3070	14.105	58.029
5/6/2007 18:34	3080	14.102	58.029
5/6/2007 18:44	3090	14.1	58.03
5/6/2007 18:54	3100	14.099	58.029
5/6/2007 19:04	3110	14.099	58.031
5/6/2007 19:14	3120	14.098	58.035
5/6/2007 19:24	3130	14.094	58.036
5/6/2007 19:34	3140	14.095	58.035
5/6/2007 19:44	3150	14.092	58.034
5/6/2007 19:54	3160	14.091	58.038
5/6/2007 20:04	3170	14.088	58.035
5/6/2007 20:14	3180	14.088	58.038
5/6/2007 20:24	3190	14.087	58.039
5/6/2007 20:34	3200	14.087	58.041
5/6/2007 20:44	3210	14.088	58.038
5/6/2007 20:54	3220	14.083	58.039
5/6/2007 21:04	3230	14.082	58.038
5/6/2007 21:14	3240	14.08	58.041
5/6/2007 21:24	3250	14.077	58.04
5/6/2007 21:34	3260	14.077	58.039
5/6/2007 21:44	3270	14.075	58.042
5/6/2007 21:54	3280	14.075	58.045
5/6/2007 22:04	3290	14.072	58.047
5/6/2007 22:14	3300	14.07	58.045
5/6/2007 22:24	3310	14.07	58.045
5/6/2007 22:34	3320	14.064	58.045
5/6/2007 22:44	3330	14.063	58.047
5/6/2007 22:54	3340	14.063	58.045
5/6/2007 23:04	3350	14.063	58.048
5/6/2007 23:14	3360	14.066	58.047
5/6/2007 23:24	3370	14.06	58.052
5/6/2007 23:34	3380	14.062	58.049
5/6/2007 23:44	3390	14.06	58.047

# CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/6/2007 23:54	3400	14.054	58.05
5/7/2007 0:04	3410	14.057	58.054
5/7/2007 0:14	3420	14.054	58.056
5/7/2007 0:24	3430	14.059	58.052
5/7/2007 0:34	3440	14.052	58.049
5/7/2007 0:44	3450	14.047	58.054
5/7/2007 0:54	3460	14.047	58.054
5/7/2007 1:04	3470	14.046	58.054
5/7/2007 1:14	3480	14.047	58.053
5/7/2007 1:24	3490	14.042	58.053
5/7/2007 1:34	3500	14.042	58.05
5/7/2007 1:44	3510	14.041	58.054
5/7/2007 1:54	3520	14.039	58.054
5/7/2007 2:04	3530	14.038	58.061
5/7/2007 2:14	3540	14.035	58.054
5/7/2007 2:24	3550	14.033	58.058
5/7/2007 2:34	3560	14.032	58.058
5/7/2007 2:44	3570	14.029	58.06
5/7/2007 2:54	3580	14.027	58.061
5/7/2007 3:04	3590	14.025	58.059
5/7/2007 3:14	3600	14.024	58.06
5/7/2007 3:24	3610	14.021	58.06
5/7/2007 3:34	3620	14.018	58.058
5/7/2007 3:44	3630	14.017	58.057
5/7/2007 3:54	3640	14.016	58.056
5/7/2007 4:04	3650	14.013	58.064
5/7/2007 4:14	3660	14.01	58.065
5/7/2007 4:24	3670	14.01	58.066
5/7/2007 4:34	3680	14.01	58.066
5/7/2007 4:44	3690	14.005	58.061
5/7/2007 4:54	3700	14.005	58.065
5/7/2007 5:04	3710	14	58.064
5/7/2007 5:14	3720	14	58.065
5/7/2007 5:24	3730	13.998	58.063
5/7/2007 5:34	3740	13.997	58.065
5/7/2007 5:44	3750	13.994	58.07
5/7/2007 5:54	3760	13.997	58.068
5/7/2007 6:04	3770	13.989	58.066
5/7/2007 6:14	3780	13.989	58.066
5/7/2007 6:24	3790	13.986	58.072
5/7/2007 6:34	3800	13.986	58.068
5/7/2007 6:44	3810	13.982	58.07
5/7/2007 6:54	3820	13.979	58.069
5/7/2007 7:04	3830	13.981	58.07
5/7/2007 7:14	3840	13.979	58.069
5/7/2007 7:24	3850	13.975	58.075
5/7/2007 7:34	3860	13.975	58.074
5/7/2007 7:44	3870	13.975	58.074
5/7/2007 7:54	3880	13.971	58.077
5/7/2007 8:04	3890	13.965	58.073
5/7/2007 8:14	3900	13.968	58.074
5/7/2007 8:24	3910	13.967	58.076
5/7/2007 8:34	3920	13.962	58.076
5/7/2007 8:44	3930	13.959	58.073
5/7/2007 8:54	3940	13.961	58.075
5/7/2007 9:04	3950	13.962	58.077
5/7/2007 9:14	3960	13.956	58.074
5/7/2007 9:24	3970	13.953	58.075
5/7/2007 9:34	3980	13.955	58.078
5/7/2007 9:44	3990	13.948	58.081
5/7/2007 9:54	4000	13.95	58.082
5/7/2007 10:04	4010	13.948	58.083
5/7/2007 10:14	4020	13.942	58.08
5/7/2007 10:24	4030	13.94	58.073
5/7/2007 10:34	4040	13.937	58.079
5/7/2007 10:44	4050	13.939	58.08
5/7/2007 10:54	4060	13.933	58.079
5/7/2007 11:04	4070	13.931	58.083



## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/7/2007 11:14	4080	13.929	58.082
5/7/2007 11:24	4090	13.93	58.082
5/7/2007 11:34	4100	13.928	58.092
5/7/2007 11:44	4110	13.924	58.085
5/7/2007 11:54	4120	13.924	58.084
5/7/2007 12:04	4130	13.921	58.091
5/7/2007 12:14	4140	13.928	58.084
5/7/2007 12:24	4150	13.92	58.084
5/7/2007 12:34	4160	13.915	58.086
5/7/2007 12:44	4170	13.914	58.085
5/7/2007 12:54	4180	13.913	58.087
5/7/2007 13:04	4190	13.906	58.094
5/7/2007 13:14	4200	13.9	58.092
5/7/2007 13:24	4210	13.905	58.088
5/7/2007 13:34	4220	13.902	58.088
5/7/2007 13:44	4230	13.899	58.087
5/7/2007 13:54	4240	13.9	58.09
5/7/2007 14:04	4250	13.896	58.085
5/7/2007 14:14	4260	13.896	58.091
5/7/2007 14:24	4270	20.163	57.927
5/7/2007 14:34	4280	20.305	57.904
5/7/2007 14:44	4290	20.376	57.893
5/7/2007 14:54	4300	20.43	57.888
5/7/2007 15:04	4310	20.425	57.884
5/7/2007 15:14	4320	20.524	57.884
5/7/2007 15:24	4330	20.527	57.879
5/7/2007 15:34	4340	20.568	57.874
5/7/2007 15:44	4350	20.649	57.885
5/7/2007 15:54	4360	20.684	57.879
5/7/2007 16:04	4370	20.712	57.88
5/7/2007 16:14	4380	20.737	57.873
5/7/2007 16:24	4390	20.826	57.871
5/7/2007 16:34	4400	20.839	57.867
5/7/2007 16:44	4410	20.872	57.864
5/7/2007 16:54	4420	20.903	57.866
5/7/2007 17:04	4430	20.909	57.868
5/7/2007 17:14	4440	20.888	57.868
5/7/2007 17:24	4450	20.874	57.87
5/7/2007 17:34	4460	20.939	57.87
5/7/2007 17:44	4470	20.946	57.864
5/7/2007 17:54	4480	20.981	57.866
5/7/2007 18:04	4490	20.997	57.862
5/7/2007 18:14	4500	21.021	57.863
5/7/2007 18:24	4510	21.068	57.86
5/7/2007 18:34	4520	21.092	57.861
5/7/2007 18:44	4530	21.086	57.866
5/7/2007 18:54	4540	21.077	57.864
5/7/2007 19:04	4550	21.117	57.859
5/7/2007 19:14	4560	21.139	57.859
5/7/2007 19:24	4570	21.139	57.86
5/7/2007 19:34	4580	21.184	57.862
5/7/2007 19:44	4590	21.178	57.854
5/7/2007 19:54	4600	21.204	57.852
5/7/2007 20:04	4610	21.219	57.858
5/7/2007 20:14	4620	21.243	57.855
5/7/2007 20:24	4630	21.235	57.854
5/7/2007 20:34	4640	21.293	57.849
5/7/2007 20:44	4650	21.306	57.852
5/7/2007 20:54	4660	21.242	57.867
5/7/2007 21:04	4670	21.28	57.865
5/7/2007 21:14	4680	21.291	57.86
5/7/2007 21:24	4690	21.293	57.859
5/7/2007 21:34	4700	21.352	57.858
5/7/2007 21:44	4710	21.343	57.864
5/7/2007 21:54	4720	21.357	57.867
5/7/2007 22:04	4730	21.375	57.868
5/7/2007 22:14	4740	21.378	57.871
5/7/2007 22:24	4750	21.354	57.869

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/7/2007 22:34	4760	21.355	57.862
5/7/2007 22:44	4770	21.371	57.87
5/7/2007 22:54	4780	21.43	57.856
5/7/2007 23:04	4790	21.389	57.854
5/7/2007 23:14	4800	21.445	57.855
5/7/2007 23:24	4810	21.474	57.854
5/7/2007 23:34	4820	21.504	57.845
5/7/2007 23:44	4830	21.552	57.85
5/7/2007 23:54	4840	21.519	57.848
5/8/2007 0:04	4850	21.584	57.845
5/8/2007 0:14	4860	21.563	57.845
5/8/2007 0:24	4870	21.547	57.847
5/8/2007 0:34	4880	21.565	57.85
5/8/2007 0:44	4890	21.539	57.854
5/8/2007 0:54	4900	21.53	57.848
5/8/2007 1:04	4910	21.554	57.848
5/8/2007 1:14	4920	21.597	57.852
5/8/2007 1:24	4930	21.573	57.849
5/8/2007 1:34	4940	21.552	57.848
5/8/2007 1:44	4950	21.553	57.849
5/8/2007 1:54	4960	21.59	57.849
5/8/2007 2:04	4970	21.607	57.843
5/8/2007 2:14	4980	21.613	57.852
5/8/2007 2:24	4990	21.63	57.845
5/8/2007 2:34	5000	21.659	57.848
5/8/2007 2:44	5010	21.672	57.844
5/8/2007 2:54	5020	21.688	57.843
5/8/2007 3:04	5030	21.697	57.844
5/8/2007 3:14	5040	21.695	57.841
5/8/2007 3:24	5050	21.671	57.845
5/8/2007 3:34	5060	21.698	57.844
5/8/2007 3:44	5070	21.701	57.839
5/8/2007 3:54	5080	21.708	57.84
5/8/2007 4:04	5090	21.735	57.837
5/8/2007 4:14	5100	21.743	57.839
5/8/2007 4:24	5110	21.754	57.836
5/8/2007 4:34	5120	21.757	57.836
5/8/2007 4:44	5130	21.759	57.835
5/8/2007 4:54	5140	21.757	57.833
5/8/2007 5:04	5150	21.776	57.835
5/8/2007 5:14	5160	21.77	57.832
5/8/2007 5:24	5170	21.817	57.829
5/8/2007 5:34	5180	21.788	57.834
5/8/2007 5:44	5190	21.808	57.836
5/8/2007 5:54	5200	21.813	57.834
5/8/2007 6:04	5210	21.825	57.83
5/8/2007 6:14	5220	21.844	57.835
5/8/2007 6:24	5230	21.869	57.838
5/8/2007 6:34	5240	21.876	57.837
5/8/2007 6:44	5250	21.842	57.831
5/8/2007 6:54	5260	21.881	57.826
5/8/2007 7:04	5270	21.881	57.829
5/8/2007 7:14	5280	21.879	57.828
5/8/2007 7:24	5290	21.882	57.833
5/8/2007 7:34	5300	21.899	57.828
5/8/2007 7:44	5310	21.877	57.823
5/8/2007 7:54	5320	21.917	57.827
5/8/2007 8:04	5330	21.919	57.823
5/8/2007 8:14	5340	21.911	57.822
5/8/2007 8:24	5350	21.922	57.823
5/8/2007 8:34	5360	21.919	57.817
5/8/2007 8:44	5370	21.934	57.827
5/8/2007 8:54	5380	21.95	57.817
5/8/2007 9:04	5390	21.962	57.811
5/8/2007 9:14	5400	21.989	57.811
5/8/2007 9:24	5410	22.016	57.813
5/8/2007 9:34	5420	21.947	57.816
5/8/2007 9:44	5430	21.951	57.81

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/8/2007 9:54	5440	21.964	57.817
5/8/2007 10:04	5450	21.94	57.811
5/8/2007 10:14	5460	21.936	57.813
5/8/2007 10:24	5470	21.965	57.814
5/8/2007 10:34	5480	22.006	57.817
5/8/2007 10:44	5490	21.965	57.813
5/8/2007 10:54	5500	21.982	57.813
5/8/2007 11:04	5510	22.003	57.806
5/8/2007 11:14	5520	22.019	57.811
5/8/2007 11:24	5530	22.01	57.808
5/8/2007 11:34	5540	21.999	57.815
5/8/2007 11:44	5550	21.995	57.802
5/8/2007 11:54	5560	22.048	57.805
5/8/2007 12:04	5570	22.048	57.807
5/8/2007 12:14	5580	22.059	57.807
5/8/2007 12:24	5590	22.062	57.799
5/8/2007 12:34	5600	22.047	57.8
5/8/2007 12:44	5610	22.054	57.801
5/8/2007 12:54	5620	22.044	57.798
5/8/2007 13:04	5630	22.111	57.803
5/8/2007 13:14	5640	22.086	57.807
5/8/2007 13:24	5650	22.061	57.805
5/8/2007 13:34	5660	22.11	57.807
5/8/2007 13:44	5670	22.133	57.803
5/8/2007 13:54	5680	22.121	57.801
5/8/2007 14:04	5690	22.142	57.798
5/8/2007 14:14	5700	22.119	57.799
5/8/2007 14:24	5710	22.125	57.799
5/8/2007 14:34	5720	22.16	57.796
5/8/2007 14:44	5730	22.141	57.801
5/8/2007 14:54	5740	22.182	57.802
5/8/2007 15:04	5750	22.162	57.798
5/8/2007 15:14	5760	22.15	57.797
5/8/2007 15:24	5770	22.169	57.799
5/8/2007 15:34	5780	22.145	57.801
5/8/2007 15:44	5790	22.174	57.8
5/8/2007 15:54	5800	22.185	57.797
5/8/2007 16:04	5810	22.167	57.8
5/8/2007 16:14	5820	22.211	57.795
5/8/2007 16:24	5830	22.206	57.797
5/8/2007 16:34	5840	22.213	57.797
5/8/2007 16:44	5850	22.213	57.796
5/8/2007 16:54	5860	22.24	57.795
5/8/2007 17:04	5870	22.223	57.795
5/8/2007 17:14	5880	22.243	57.797
5/8/2007 17:24	5890	22.233	57.792
5/8/2007 17:34	5900	22.251	57.792
5/8/2007 17:44	5910	22.265	57.793
5/8/2007 17:54	5920	22.262	57.794
5/8/2007 18:04	5930	22.257	57.795
5/8/2007 18:14	5940	22.251	57.788
5/8/2007 18:24	5950	22.282	57.791
5/8/2007 18:34	5960	22.28	57.791
5/8/2007 18:44	5970	22.268	57.792
5/8/2007 18:54	5980	22.28	57.786
5/8/2007 19:04	5990	22.292	57.788
5/8/2007 19:14	6000	22.29	57.787
5/8/2007 19:24	6010	22.291	57.782
5/8/2007 19:34	6020	22.331	57.785
5/8/2007 19:44	6030	22.321	57.783
5/8/2007 19:54	6040	22.313	57.788
5/8/2007 20:04	6050	22.337	57.783
5/8/2007 20:14	6060	22.324	57.784
5/8/2007 20:24	6070	22.335	57.784
5/8/2007 20:34	6080	22.346	57.783
5/8/2007 20:44	6090	22.346	57.783
5/8/2007 20:54	6100	22.358	57.785
5/8/2007 21:04	6110	22.329	57.781

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/8/2007 21:14	6120	22.342	57.782
5/8/2007 21:24	6130	22.389	57.786
5/8/2007 21:34	6140	22.368	57.782
5/8/2007 21:44	6150	22.39	57.779
5/8/2007 21:54	6160	22.408	57.782
5/8/2007 22:04	6170	22.387	57.785
5/8/2007 22:14	6180	22.432	57.781
5/8/2007 22:24	6190	22.414	57.783
5/8/2007 22:34	6200	22.436	57.784
5/8/2007 22:44	6210	22.426	57.784
5/8/2007 22:54	6220	22.44	57.786
5/8/2007 23:04	6230	22.439	57.784
5/8/2007 23:14	6240	22.449	57.783
5/8/2007 23:24	6250	22.463	57.789
5/8/2007 23:34	6260	22.475	57.79
5/8/2007 23:44	6270	22.487	57.783
5/8/2007 23:54	6280	22.478	57.781
5/9/2007 0:04	6290	22.503	57.786
5/9/2007 0:14	6300	22.485	57.791
5/9/2007 0:24	6310	22.506	57.784
5/9/2007 0:34	6320	22.438	57.784
5/9/2007 0:44	6330	22.474	57.777
5/9/2007 0:54	6340	22.482	57.772
5/9/2007 1:04	6350	22.498	57.776
5/9/2007 1:14	6360	22.47	57.773
5/9/2007 1:24	6370	22.494	57.777
5/9/2007 1:34	6380	22.492	57.773
5/9/2007 1:44	6390	22.482	57.782
5/9/2007 1:54	6400	22.514	57.774
5/9/2007 2:04	6410	22.512	57.785
5/9/2007 2:14	6420	22.536	57.784
5/9/2007 2:24	6430	22.511	57.783
5/9/2007 2:34	6440	22.515	57.777
5/9/2007 2:44	6450	22.527	57.778
5/9/2007 2:54	6460	22.535	57.775
5/9/2007 3:04	6470	22.563	57.779
5/9/2007 3:14	6480	22.538	57.784
5/9/2007 3:24	6490	22.597	57.775
5/9/2007 3:34	6500	22.563	57.771
5/9/2007 3:44	6510	22.545	57.767
5/9/2007 3:54	6520	22.58	57.767
5/9/2007 4:04	6530	22.605	57.768
5/9/2007 4:14	6540	22.581	57.76
5/9/2007 4:24	6550	22.583	57.762
5/9/2007 4:34	6560	22.613	57.762
5/9/2007 4:44	6570	22.611	57.767
5/9/2007 4:54	6580	22.618	57.767
5/9/2007 5:04	6590	22.585	57.762
5/9/2007 5:14	6600	22.586	57.763
5/9/2007 5:24	6610	22.609	57.761
5/9/2007 5:34	6620	22.627	57.758
5/9/2007 5:44	6630	22.633	57.765
5/9/2007 5:54	6640	22.629	57.764
5/9/2007 6:04	6650	22.613	57.762
5/9/2007 6:14	6660	22.627	57.771
5/9/2007 6:24	6670	22.628	57.769
5/9/2007 6:34	6680	22.63	57.77
5/9/2007 6:44	6690	22.635	57.767
5/9/2007 6:54	6700	22.629	57.764
5/9/2007 7:04	6710	22.652	57.736
5/9/2007 7:14	6720	22.59	57.746
5/9/2007 7:24	6730	22.589	57.756
5/9/2007 7:34	6740	16.403	57.749
5/9/2007 7:44	6750	16.26	57.748
5/9/2007 7:54	6760	22.39	57.706
5/9/2007 8:04	6770	22.471	57.73
5/9/2007 8:14	6780	22.535	57.749
5/9/2007 8:24	6790	22.555	57.756

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G SN#: 111099	Sensor: Pres 30G SN#: 111099
Date and Time	Elapsed Time Minutes	Level-DTW (ft)	Temperature (F)
5/9/2007 8:34	6800	22.573	57.75
5/9/2007 8:44	6810	22.596	57.762
5/9/2007 8:54	6820	22.567	57.763
5/9/2007 9:04	6830	22.612	57.76
5/9/2007 9:14	6840	22.585	57.762
5/9/2007 9:24	6850	22.567	57.756
5/9/2007 9:34	6860	22.611	57.761
5/9/2007 9:44	6870	22.613	57.757
5/9/2007 9:54	6880	22.64	57.755
5/9/2007 10:04	6890	22.675	57.763
5/9/2007 10:14	6900	22.679	57.757
5/9/2007 10:24	6910	22.713	57.755
5/9/2007 10:34	6920	22.719	57.757
5/9/2007 10:44	6930	22.708	57.756
5/9/2007 10:54	6940	22.715	57.757
5/9/2007 11:04	6950	22.703	57.751
5/9/2007 11:14	6960	22.727	57.758
5/9/2007 11:24	6970	22.721	57.761
5/9/2007 11:34	6980	22.709	57.751
5/9/2007 11:44	6990	22.734	57.75
5/9/2007 11:54	7000	22.745	57.752
5/9/2007 12:04	7010	22.741	57.755
5/9/2007 12:14	7020	22.739	57.76
5/9/2007 12:24	7030	22.745	57.762
5/9/2007 12:34	7040	22.709	57.749
5/9/2007 12:44	7050	22.725	57.749
5/9/2007 12:54	7060	22.716	57.747
5/9/2007 13:04	7070	22.729	57.737
5/9/2007 13:14	7080	22.75	57.741
5/9/2007 13:24	7090	22.765	57.74
5/9/2007 13:34	7100	22.76	57.739
5/9/2007 13:44	7110	22.767	57.733
5/9/2007 13:54	7120	22.747	57.74
5/9/2007 14:04	7130	22.722	57.74
5/9/2007 14:14	7140	22.709	57.743
5/9/2007 14:24	7150	22.684	57.743
5/9/2007 14:34	7160	22.723	57.744
5/9/2007 14:44	7170	22.724	57.741
5/9/2007 14:54	7180	22.702	57.737
5/9/2007 15:04	7190	22.717	57.743
5/9/2007 15:14	7200	22.713	57.744
5/9/2007 15:24	7210	22.725	57.749
5/9/2007 15:34	7220	22.757	57.746
5/9/2007 15:44	7230	22.77	57.748
5/9/2007 15:54	7240	22.782	57.742
5/9/2007 16:04	7250	22.77	57.751
5/9/2007 16:14	7260	22.771	57.749
5/9/2007 16:24	7270	22.782	57.751
5/9/2007 16:34	7280	22.796	57.755
5/9/2007 16:44	7290	22.825	57.746
5/9/2007 16:54	7300	22.803	57.748
5/9/2007 17:04	7310	22.799	57.75
5/9/2007 17:14	7320	22.79	57.745
5/9/2007 17:24	7330	22.763	57.744
5/9/2007 17:34	7340	22.787	57.738
5/9/2007 17:44	7350	22.776	57.741
5/9/2007 17:54	7360	22.804	57.74
5/9/2007 18:04	7370	22.819	57.736
5/9/2007 18:14	7380	22.855	57.744
5/9/2007 18:24	7390	22.811	57.737
5/9/2007 18:34	7400	22.828	57.739
5/9/2007 18:44	7410	22.833	57.73
5/9/2007 18:54	7420	22.816	57.737
5/9/2007 19:04	7430	22.826	57.734
5/9/2007 19:14	7440	22.836	57.733
5/9/2007 19:24	7450	22.831	57.734
5/9/2007 19:34	7460	22.837	57.733
5/9/2007 19:44	7470	22.857	57.731

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/9/2007 19:54	7480	22.838	57.731
5/9/2007 20:04	7490	22.87	57.736
5/9/2007 20:14	7500	22.873	57.732
5/9/2007 20:24	7510	22.833	57.746
5/9/2007 20:34	7520	22.826	57.748
5/9/2007 20:44	7530	22.834	57.745
5/9/2007 20:54	7540	22.889	57.73
5/9/2007 21:04	7550	22.919	57.734
5/9/2007 21:14	7560	22.909	57.728
5/9/2007 21:24	7570	22.95	57.73
5/9/2007 21:34	7580	22.923	57.73
5/9/2007 21:44	7590	22.951	57.727
5/9/2007 21:54	7600	22.941	57.723
5/9/2007 22:04	7610	22.934	57.721
5/9/2007 22:14	7620	22.938	57.727
5/9/2007 22:24	7630	22.956	57.731
5/9/2007 22:34	7640	22.927	57.73
5/9/2007 22:44	7650	22.891	57.735
5/9/2007 22:54	7660	22.917	57.734
5/9/2007 23:04	7670	22.94	57.727
5/9/2007 23:14	7680	22.935	57.734
5/9/2007 23:24	7690	22.959	57.728
5/9/2007 23:34	7700	22.931	57.725
5/9/2007 23:44	7710	22.943	57.725
5/9/2007 23:54	7720	22.96	57.716
5/10/2007 0:04	7730	22.969	57.716
5/10/2007 0:14	7740	22.955	57.722
5/10/2007 0:24	7750	22.955	57.719
5/10/2007 0:34	7760	22.94	57.723
5/10/2007 0:44	7770	22.984	57.715
5/10/2007 0:54	7780	22.978	57.722
5/10/2007 1:04	7790	22.99	57.723
5/10/2007 1:14	7800	22.987	57.722
5/10/2007 1:24	7810	22.986	57.721
5/10/2007 1:34	7820	23.003	57.72
5/10/2007 1:44	7830	22.984	57.718
5/10/2007 1:54	7840	23	57.721
5/10/2007 2:04	7850	22.991	57.717
5/10/2007 2:14	7860	22.996	57.718
5/10/2007 2:24	7870	23.015	57.72
5/10/2007 2:34	7880	23.037	57.716
5/10/2007 2:44	7890	23.004	57.717
5/10/2007 2:54	7900	23.023	57.717
5/10/2007 3:04	7910	23.032	57.711
5/10/2007 3:14	7920	23.023	57.715
5/10/2007 3:24	7930	23.036	57.707
5/10/2007 3:34	7940	23.036	57.711
5/10/2007 3:44	7950	23.047	57.71
5/10/2007 3:54	7960	23.054	57.705
5/10/2007 4:04	7970	23.057	57.714
5/10/2007 4:14	7980	23.049	57.711
5/10/2007 4:24	7990	23.076	57.716
5/10/2007 4:34	8000	23.076	57.706
5/10/2007 4:44	8010	23.062	57.705
5/10/2007 4:54	8020	23.062	57.714
5/10/2007 5:04	8030	23.055	57.712
5/10/2007 5:14	8040	23.062	57.714
5/10/2007 5:24	8050	23.067	57.717
5/10/2007 5:34	8060	23.029	57.716
5/10/2007 5:44	8070	23.037	57.72
5/10/2007 5:54	8080	23.026	57.715
5/10/2007 6:04	8090	22.965	57.725
5/10/2007 6:14	8100	22.999	57.709
5/10/2007 6:24	8110	22.991	57.709
5/10/2007 6:34	8120	23.009	57.708
5/10/2007 6:44	8130	23.025	57.7
5/10/2007 6:54	8140	23.04	57.707
5/10/2007 7:04	8150	23.033	57.705

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/10/2007 7:14	8160	23.031	57.704
5/10/2007 7:24	8170	23.034	57.705
5/10/2007 7:34	8180	23.079	57.71
5/10/2007 7:44	8190	23.083	57.705
5/10/2007 7:54	8200	23.097	57.701
5/10/2007 8:04	8210	23.07	57.714
5/10/2007 8:14	8220	23.056	57.711
5/10/2007 8:24	8230	23.064	57.715
5/10/2007 8:34	8240	23.101	57.715
5/10/2007 8:44	8250	23.071	57.718
5/10/2007 8:54	8260	23.08	57.721
5/10/2007 9:04	8270	23.106	57.713
5/10/2007 9:14	8280	23.092	57.709
5/10/2007 9:24	8290	23.082	57.718
5/10/2007 9:34	8300	23.085	57.718
5/10/2007 9:44	8310	23.076	57.707
5/10/2007 9:54	8320	23.088	57.712
5/10/2007 10:04	8330	23.096	57.715
5/10/2007 10:14	8340	23.083	57.706
5/10/2007 10:24	8350	23.103	57.713
5/10/2007 10:34	8360	23.106	57.708
5/10/2007 10:44	8370	23.114	57.706
5/10/2007 10:54	8380	23.095	57.712
5/10/2007 11:04	8390	23.116	57.718
5/10/2007 11:14	8400	23.179	57.705
5/10/2007 11:24	8410	23.153	57.703
5/10/2007 11:34	8420	23.103	57.716
5/10/2007 11:44	8430	23.139	57.708
5/10/2007 11:54	8440	23.116	57.718
5/10/2007 12:04	8450	23.119	57.716
5/10/2007 12:14	8460	23.108	57.711
5/10/2007 12:24	8470	23.122	57.715
5/10/2007 12:34	8480	23.144	57.705
5/10/2007 12:44	8490	23.156	57.707
5/10/2007 12:54	8500	23.174	57.706
5/10/2007 13:04	8510	23.164	57.702
5/10/2007 13:14	8520	23.161	57.7
5/10/2007 13:24	8530	23.142	57.701
5/10/2007 13:34	8540	23.18	57.705
5/10/2007 13:44	8550	23.176	57.7
5/10/2007 13:54	8560	23.185	57.699
5/10/2007 14:04	8570	23.123	57.7
5/10/2007 14:14	8580	23.115	57.703
5/10/2007 14:24	8590	23.117	57.705
5/10/2007 14:34	8600	23.147	57.695
5/10/2007 14:44	8610	23.116	57.699
5/10/2007 14:54	8620	23.143	57.704
5/10/2007 15:04	8630	23.135	57.693
5/10/2007 15:14	8640	23.127	57.698
5/10/2007 15:24	8650	23.18	57.689
5/10/2007 15:34	8660	23.129	57.689
5/10/2007 15:44	8670	23.143	57.691
5/10/2007 15:54	8680	23.151	57.693
5/10/2007 16:04	8690	23.18	57.692
5/10/2007 16:14	8700	23.155	57.693
5/10/2007 16:24	8710	23.143	57.691
5/10/2007 16:34	8720	23.168	57.691
5/10/2007 16:44	8730	23.168	57.687
5/10/2007 16:54	8740	23.216	57.691
5/10/2007 17:04	8750	23.181	57.684
5/10/2007 17:14	8760	23.191	57.68
5/10/2007 17:24	8770	23.205	57.688
5/10/2007 17:34	8780	23.188	57.68
5/10/2007 17:44	8790	23.179	57.679
5/10/2007 17:54	8800	23.169	57.688
5/10/2007 18:04	8810	23.192	57.687
5/10/2007 18:14	8820	23.208	57.684
5/10/2007 18:24	8830	23.199	57.685

## CW-9 ELECTRONIC DATA WPL PUMPING TEST

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/10/2007 18:34	8840	23.208	57.684
5/10/2007 18:44	8850	23.202	57.688
5/10/2007 18:54	8860	23.198	57.68
5/10/2007 19:04	8870	23.22	57.68
5/10/2007 19:14	8880	23.2	57.686
5/10/2007 19:24	8890	23.2	57.683
5/10/2007 19:34	8900	23.206	57.678
5/10/2007 19:44	8910	16.927	57.668
5/10/2007 19:54	8920	16.782	57.686
5/10/2007 20:04	8930	16.673	57.693
5/10/2007 20:14	8940	16.582	57.711
5/10/2007 20:24	8950	16.501	57.732
5/10/2007 20:34	8960	16.423	57.754
5/10/2007 20:44	8970	16.365	57.784
5/10/2007 20:54	8980	22.754	57.644
5/10/2007 21:04	8990	22.712	57.661
5/10/2007 21:14	9000	22.657	57.653
5/10/2007 21:24	9010	22.703	57.669
5/10/2007 21:34	9020	22.735	57.676
5/10/2007 21:44	9030	22.789	57.681
5/10/2007 21:54	9040	22.798	57.686
5/10/2007 22:04	9050	22.805	57.689
5/10/2007 22:14	9060	22.837	57.693
5/10/2007 22:24	9070	22.837	57.689
5/10/2007 22:34	9080	22.869	57.686
5/10/2007 22:44	9090	22.886	57.69
5/10/2007 22:54	9100	22.911	57.693
5/10/2007 23:04	9110	22.918	57.687
5/10/2007 23:14	9120	22.91	57.677
5/10/2007 23:24	9130	22.946	57.685
5/10/2007 23:34	9140	22.919	57.685
5/10/2007 23:44	9150	22.953	57.686
5/10/2007 23:54	9160	22.971	57.683
5/11/2007 0:04	9170	22.951	57.677
5/11/2007 0:14	9180	22.986	57.683
5/11/2007 0:24	9190	23	57.683
5/11/2007 0:34	9200	22.98	57.68
5/11/2007 0:44	9210	22.965	57.681
5/11/2007 0:54	9220	22.989	57.687
5/11/2007 1:04	9230	22.975	57.681
5/11/2007 1:14	9240	22.989	57.683
5/11/2007 1:24	9250	22.989	57.686
5/11/2007 1:34	9260	23.012	57.687
5/11/2007 1:44	9270	23.006	57.687
5/11/2007 1:54	9280	23.009	57.68
5/11/2007 2:04	9290	23.018	57.683
5/11/2007 2:14	9300	23.015	57.682
5/11/2007 2:24	9310	23.037	57.682
5/11/2007 2:34	9320	23.022	57.686
5/11/2007 2:44	9330	23.033	57.683
5/11/2007 2:54	9340	23.037	57.683
5/11/2007 3:04	9350	22.996	57.687
5/11/2007 3:14	9360	23.048	57.687
5/11/2007 3:24	9370	23.035	57.689
5/11/2007 3:34	9380	23.044	57.683
5/11/2007 3:44	9390	23.037	57.678
5/11/2007 3:54	9400	23.058	57.684
5/11/2007 4:04	9410	23.052	57.683
5/11/2007 4:14	9420	23.064	57.677
5/11/2007 4:24	9430	23.044	57.682
5/11/2007 4:34	9440	23.047	57.683
5/11/2007 4:44	9450	23.046	57.685
5/11/2007 4:54	9460	23.061	57.678
5/11/2007 5:04	9470	23.051	57.68
5/11/2007 5:14	9480	23.053	57.677
5/11/2007 5:24	9490	23.049	57.685
5/11/2007 5:34	9500	23.08	57.676
5/11/2007 5:44	9510	23.065	57.68



**CW-9 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 111099	SN#: 111099
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/11/2007 5:54	9520	23.064	57.674
5/11/2007 6:04	9530	23.038	57.681
5/11/2007 6:14	9540	23.081	57.679
5/11/2007 6:24	9550	23.093	57.678
5/11/2007 6:34	9560	23.073	57.676
5/11/2007 6:44	9570	23.094	57.674
5/11/2007 6:54	9580	23.098	57.677
5/11/2007 7:04	9590	23.081	57.679
5/11/2007 7:14	9600	23.076	57.674
5/11/2007 7:24	9610	23.087	57.675
5/11/2007 7:34	9620	23.103	57.676
5/11/2007 7:44	9630	23.108	57.668
5/11/2007 7:54	9640	23.094	57.671
5/11/2007 8:04	9650	23.089	57.672
5/11/2007 8:14	9660	23.077	57.67
5/11/2007 8:24	9670	23.094	57.67
5/11/2007 8:34	9680	23.075	57.674
5/11/2007 8:44	9690	23.078	57.675
5/11/2007 8:54	9700	23.072	57.675
5/11/2007 9:04	9710	23.068	57.672
5/11/2007 9:14	9720	23.082	57.674
5/11/2007 9:24	9730	23.083	57.67
5/11/2007 9:34	9740	23.077	57.668
5/11/2007 9:44	9750	23.087	57.671
5/11/2007 9:54	9760	23.077	57.674
5/11/2007 10:04	9770	23.087	57.668
5/11/2007 10:14	9780	23.078	57.668
5/11/2007 10:24	9790	23.044	57.667
5/11/2007 10:34	9800	23.077	57.666
5/11/2007 10:44	9810	23.072	57.67
5/11/2007 10:54	9820	23.097	57.674
5/11/2007 11:04	9830	23.099	57.668

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 100G	Sensor: Pres 100G
Date and Time	Elapsed Time Minutes	SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/4/2007 13:53	0	20.529	60.587
5/4/2007 14:03	10	20.485	60.484
5/4/2007 14:13	20	20.444	60.471
5/4/2007 14:23	30	20.409	60.466
5/4/2007 14:33	40	20.362	60.465
5/4/2007 14:43	50	20.326	60.46
5/4/2007 14:53	60	20.287	60.466
5/4/2007 15:03	70	20.263	60.464
5/4/2007 15:13	80	20.227	60.464
5/4/2007 15:23	90	20.19	60.464
5/4/2007 15:33	100	20.177	60.464
5/4/2007 15:43	110	20.131	60.464
5/4/2007 15:53	120	20.113	60.47
5/4/2007 16:03	130	20.094	60.467
5/4/2007 16:13	140	20.073	60.468
5/4/2007 16:23	150	20.062	60.47
5/4/2007 16:33	160	20.037	60.465
5/4/2007 16:43	170	20.015	60.468
5/4/2007 16:53	180	19.987	60.464
5/4/2007 17:03	190	19.979	60.462
5/4/2007 17:13	200	19.955	60.464
5/4/2007 17:23	210	19.937	60.464
5/4/2007 17:33	220	19.93	60.461
5/4/2007 17:43	230	19.916	60.458
5/4/2007 17:53	240	19.909	60.46
5/4/2007 18:03	250	19.884	60.46
5/4/2007 18:13	260	19.876	60.464
5/4/2007 18:23	270	19.857	60.458
5/4/2007 18:33	280	19.845	60.459
5/4/2007 18:43	290	19.848	60.461
5/4/2007 18:53	300	19.826	60.46
5/4/2007 19:03	310	19.813	60.462
5/4/2007 19:13	320	19.806	60.458
5/4/2007 19:23	330	19.79	60.46
5/4/2007 19:33	340	19.771	60.463
5/4/2007 19:43	350	19.767	60.464
5/4/2007 19:53	360	19.775	60.465
5/4/2007 20:03	370	19.75	60.465
5/4/2007 20:13	380	19.732	60.465
5/4/2007 20:23	390	19.735	60.469
5/4/2007 20:33	400	19.723	60.465
5/4/2007 20:43	410	19.716	60.467
5/4/2007 20:53	420	19.705	60.465
5/4/2007 21:03	430	19.701	60.467
5/4/2007 21:13	440	19.687	60.465
5/4/2007 21:23	450	19.676	60.467
5/4/2007 21:33	460	19.676	60.47
5/4/2007 21:43	470	19.668	60.471
5/4/2007 21:53	480	19.657	60.47
5/4/2007 22:03	490	19.666	60.465
5/4/2007 22:13	500	19.644	60.469
5/4/2007 22:23	510	19.638	60.47
5/4/2007 22:33	520	19.625	60.47
5/4/2007 22:43	530	19.621	60.472
5/4/2007 22:53	540	19.618	60.468
5/4/2007 23:03	550	19.593	60.467
5/4/2007 23:13	560	19.593	60.471
5/4/2007 23:23	570	19.595	60.471
5/4/2007 23:33	580	19.591	60.469
5/4/2007 23:43	590	19.579	60.469
5/4/2007 23:53	600	19.572	60.467
5/5/2007 0:03	610	19.564	60.464
5/5/2007 0:13	620	19.56	60.467
5/5/2007 0:23	630	19.553	60.47
5/5/2007 0:33	640	19.549	60.47
5/5/2007 0:43	650	19.537	60.468
5/5/2007 0:53	660	19.537	60.467

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/5/2007 1:03	670	19.524	60.466
5/5/2007 1:13	680	19.529	60.469
5/5/2007 1:23	690	19.528	60.469
5/5/2007 1:33	700	19.508	60.471
5/5/2007 1:43	710	19.513	60.469
5/5/2007 1:53	720	19.504	60.47
5/5/2007 2:03	730	19.489	60.47
5/5/2007 2:13	740	19.481	60.467
5/5/2007 2:23	750	19.492	60.466
5/5/2007 2:33	760	19.477	60.467
5/5/2007 2:43	770	19.465	60.463
5/5/2007 2:53	780	19.46	60.468
5/5/2007 3:03	790	19.464	60.463
5/5/2007 3:13	800	19.438	60.466
5/5/2007 3:23	810	19.445	60.467
5/5/2007 3:33	820	19.444	60.464
5/5/2007 3:43	830	19.422	60.469
5/5/2007 3:53	840	19.429	60.467
5/5/2007 4:03	850	19.421	60.464
5/5/2007 4:13	860	19.439	60.469
5/5/2007 4:23	870	19.412	60.463
5/5/2007 4:33	880	19.404	60.468
5/5/2007 4:43	890	19.411	60.464
5/5/2007 4:53	900	19.392	60.464
5/5/2007 5:03	910	19.388	60.47
5/5/2007 5:13	920	19.387	60.47
5/5/2007 5:23	930	19.381	60.468
5/5/2007 5:33	940	19.374	60.466
5/5/2007 5:43	950	19.372	60.464
5/5/2007 5:53	960	19.363	60.464
5/5/2007 6:03	970	19.355	60.468
5/5/2007 6:13	980	19.348	60.466
5/5/2007 6:23	990	19.356	60.47
5/5/2007 6:33	1000	19.339	60.469
5/5/2007 6:43	1010	19.333	60.469
5/5/2007 6:53	1020	19.327	60.464
5/5/2007 7:03	1030	19.33	60.464
5/5/2007 7:13	1040	19.328	60.468
5/5/2007 7:23	1050	19.316	60.469
5/5/2007 7:33	1060	19.312	60.464
5/5/2007 7:43	1070	19.304	60.465
5/5/2007 7:53	1080	19.317	60.461
5/5/2007 8:03	1090	19.298	60.464
5/5/2007 8:13	1100	19.297	60.464
5/5/2007 8:23	1110	19.287	60.467
5/5/2007 8:33	1120	19.265	60.463
5/5/2007 8:43	1130	19.281	60.467
5/5/2007 8:53	1140	19.266	60.466
5/5/2007 9:03	1150	19.27	60.464
5/5/2007 9:13	1160	19.252	60.463
5/5/2007 9:23	1170	19.256	60.464
5/5/2007 9:33	1180	19.27	60.469
5/5/2007 9:43	1190	19.247	60.467
5/5/2007 9:53	1200	19.234	60.464
5/5/2007 10:03	1210	19.233	60.462
5/5/2007 10:13	1220	19.241	60.468
5/5/2007 10:23	1230	19.23	60.464
5/5/2007 10:33	1240	19.226	60.465
5/5/2007 10:43	1250	19.224	60.465
5/5/2007 10:53	1260	19.206	60.47
5/5/2007 11:03	1270	19.221	60.466
5/5/2007 11:13	1280	19.206	60.469
5/5/2007 11:23	1290	19.203	60.467
5/5/2007 11:33	1300	19.195	60.465
5/5/2007 11:43	1310	19.19	60.466
5/5/2007 11:53	1320	19.188	60.467
5/5/2007 12:03	1330	19.18	60.463

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 100G	Sensor: Pres 100G
Date and Time	Elapsed Time Minutes	SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/5/2007 12:13	1340	19.171	60.462
5/5/2007 12:23	1350	19.164	60.465
5/5/2007 12:33	1360	19.176	60.464
5/5/2007 12:43	1370	19.161	60.465
5/5/2007 12:53	1380	19.166	60.465
5/5/2007 13:03	1390	19.156	60.462
5/5/2007 13:13	1400	19.155	60.462
5/5/2007 13:23	1410	19.136	60.467
5/5/2007 13:33	1420	19.139	60.464
5/5/2007 13:43	1430	19.146	60.461
5/5/2007 13:53	1440	19.142	60.462
5/5/2007 14:03	1450	19.131	60.46
5/5/2007 14:13	1460	19.134	60.463
5/5/2007 14:23	1470	19.123	60.465
5/5/2007 14:33	1480	19.119	60.464
5/5/2007 14:43	1490	19.131	60.463
5/5/2007 14:53	1500	19.113	60.464
5/5/2007 15:03	1510	19.112	60.465
5/5/2007 15:13	1520	19.106	60.461
5/5/2007 15:23	1530	19.107	60.46
5/5/2007 15:33	1540	19.088	60.46
5/5/2007 15:43	1550	19.094	60.462
5/5/2007 15:53	1560	19.087	60.466
5/5/2007 16:03	1570	19.081	60.463
5/5/2007 16:13	1580	19.092	60.463
5/5/2007 16:23	1590	19.063	60.465
5/5/2007 16:33	1600	19.069	60.464
5/5/2007 16:43	1610	19.066	60.463
5/5/2007 16:53	1620	19.061	60.464
5/5/2007 17:03	1630	19.06	60.465
5/5/2007 17:13	1640	19.069	60.463
5/5/2007 17:23	1650	19.063	60.464
5/5/2007 17:33	1660	19.059	60.46
5/5/2007 17:43	1670	19.052	60.459
5/5/2007 17:53	1680	19.049	60.463
5/5/2007 18:03	1690	19.058	60.464
5/5/2007 18:13	1700	19.046	60.463
5/5/2007 18:23	1710	19.036	60.463
5/5/2007 18:33	1720	19.049	60.464
5/5/2007 18:43	1730	19.033	60.459
5/5/2007 18:53	1740	19.023	60.462
5/5/2007 19:03	1750	19.011	60.46
5/5/2007 19:13	1760	19.023	60.458
5/5/2007 19:23	1770	19.012	60.458
5/5/2007 19:33	1780	19.005	60.462
5/5/2007 19:43	1790	19.008	60.456
5/5/2007 19:53	1800	19.008	60.462
5/5/2007 20:03	1810	19.003	60.46
5/5/2007 20:13	1820	19.004	60.461
5/5/2007 20:23	1830	19.006	60.463
5/5/2007 20:33	1840	18.992	60.459
5/5/2007 20:43	1850	18.983	60.461
5/5/2007 20:53	1860	18.995	60.46
5/5/2007 21:03	1870	18.986	60.459
5/5/2007 21:13	1880	18.984	60.464
5/5/2007 21:23	1890	18.986	60.458
5/5/2007 21:33	1900	18.977	60.465
5/5/2007 21:43	1910	18.973	60.46
5/5/2007 21:53	1920	18.975	60.459
5/5/2007 22:03	1930	18.978	60.456
5/5/2007 22:13	1940	18.97	60.461
5/5/2007 22:23	1950	18.975	60.458
5/5/2007 22:33	1960	18.959	60.457
5/5/2007 22:43	1970	18.974	60.459
5/5/2007 22:53	1980	18.959	60.457
5/5/2007 23:03	1990	18.946	60.459
5/5/2007 23:13	2000	18.947	60.459

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/5/2007 23:23	2010	18.957	60.464
5/5/2007 23:33	2020	18.942	60.458
5/5/2007 23:43	2030	18.954	60.463
5/5/2007 23:53	2040	18.949	60.458
5/6/2007 0:03	2050	18.945	60.459
5/6/2007 0:13	2060	18.939	60.462
5/6/2007 0:23	2070	18.936	60.458
5/6/2007 0:33	2080	18.934	60.455
5/6/2007 0:43	2090	18.929	60.458
5/6/2007 0:53	2100	18.919	60.459
5/6/2007 1:03	2110	18.921	60.458
5/6/2007 1:13	2120	18.924	60.457
5/6/2007 1:23	2130	18.918	60.461
5/6/2007 1:33	2140	18.916	60.458
5/6/2007 1:43	2150	18.917	60.458
5/6/2007 1:53	2160	18.909	60.461
5/6/2007 2:03	2170	18.919	60.456
5/6/2007 2:13	2180	18.914	60.458
5/6/2007 2:23	2190	18.901	60.455
5/6/2007 2:33	2200	18.91	60.458
5/6/2007 2:43	2210	18.899	60.46
5/6/2007 2:53	2220	18.901	60.454
5/6/2007 3:03	2230	18.89	60.452
5/6/2007 3:13	2240	18.888	60.458
5/6/2007 3:23	2250	18.898	60.46
5/6/2007 3:33	2260	18.879	60.458
5/6/2007 3:43	2270	18.88	60.457
5/6/2007 3:53	2280	18.887	60.458
5/6/2007 4:03	2290	18.887	60.461
5/6/2007 4:13	2300	18.878	60.459
5/6/2007 4:23	2310	18.876	60.458
5/6/2007 4:33	2320	18.878	60.454
5/6/2007 4:43	2330	18.877	60.457
5/6/2007 4:53	2340	18.872	60.455
5/6/2007 5:03	2350	18.876	60.456
5/6/2007 5:13	2360	18.865	60.458
5/6/2007 5:23	2370	18.869	60.454
5/6/2007 5:33	2380	18.86	60.453
5/6/2007 5:43	2390	18.854	60.46
5/6/2007 5:53	2400	18.856	60.459
5/6/2007 6:03	2410	18.852	60.453
5/6/2007 6:13	2420	18.859	60.451
5/6/2007 6:23	2430	18.844	60.457
5/6/2007 6:33	2440	18.838	60.457
5/6/2007 6:43	2450	18.863	60.451
5/6/2007 6:53	2460	18.836	60.454
5/6/2007 7:03	2470	18.856	60.456
5/6/2007 7:13	2480	18.835	60.454
5/6/2007 7:23	2490	18.833	60.456
5/6/2007 7:33	2500	18.824	60.453
5/6/2007 7:43	2510	18.82	60.456
5/6/2007 7:53	2520	18.831	60.455
5/6/2007 8:03	2530	18.828	60.454
5/6/2007 8:13	2540	18.82	60.452
5/6/2007 8:23	2550	18.816	60.455
5/6/2007 8:33	2560	18.808	60.453
5/6/2007 8:43	2570	18.813	60.454
5/6/2007 8:53	2580	18.817	60.452
5/6/2007 9:03	2590	18.809	60.453
5/6/2007 9:13	2600	18.812	60.455
5/6/2007 9:23	2610	18.802	60.452
5/6/2007 9:33	2620	18.801	60.452
5/6/2007 9:43	2630	18.8	60.458
5/6/2007 9:53	2640	18.796	60.452
5/6/2007 10:03	2650	18.804	60.451
5/6/2007 10:13	2660	18.807	60.454
5/6/2007 10:23	2670	18.788	60.453

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/6/2007 10:33	2680	18.782	60.455
5/6/2007 10:43	2690	18.793	60.453
5/6/2007 10:53	2700	18.78	60.456
5/6/2007 11:03	2710	18.782	60.45
5/6/2007 11:13	2720	18.786	60.451
5/6/2007 11:23	2730	18.773	60.451
5/6/2007 11:33	2740	18.776	60.449
5/6/2007 11:43	2750	18.782	60.452
5/6/2007 11:53	2760	18.769	60.452
5/6/2007 12:03	2770	18.772	60.454
5/6/2007 12:13	2780	18.764	60.448
5/6/2007 12:23	2790	18.782	60.449
5/6/2007 12:33	2800	18.761	60.455
5/6/2007 12:43	2810	18.758	60.449
5/6/2007 12:53	2820	18.761	60.45
5/6/2007 13:03	2830	18.754	60.451
5/6/2007 13:13	2840	18.742	60.446
5/6/2007 13:23	2850	18.761	60.452
5/6/2007 13:33	2860	18.743	60.447
5/6/2007 13:43	2870	18.743	60.449
5/6/2007 13:53	2880	18.75	60.456
5/6/2007 14:03	2890	18.734	60.451
5/6/2007 14:13	2900	18.744	60.452
5/6/2007 14:23	2910	18.739	60.448
5/6/2007 14:33	2920	18.733	60.448
5/6/2007 14:43	2930	18.73	60.449
5/6/2007 14:53	2940	18.728	60.451
5/6/2007 15:03	2950	18.73	60.448
5/6/2007 15:13	2960	18.722	60.443
5/6/2007 15:23	2970	18.719	60.449
5/6/2007 15:33	2980	18.719	60.452
5/6/2007 15:43	2990	18.719	60.452
5/6/2007 15:53	3000	18.714	60.451
5/6/2007 16:03	3010	18.721	60.452
5/6/2007 16:13	3020	18.721	60.452
5/6/2007 16:23	3030	18.704	60.448
5/6/2007 16:33	3040	18.694	60.449
5/6/2007 16:43	3050	18.706	60.448
5/6/2007 16:53	3060	18.707	60.447
5/6/2007 17:03	3070	18.689	60.452
5/6/2007 17:13	3080	18.71	60.447
5/6/2007 17:23	3090	18.699	60.448
5/6/2007 17:33	3100	18.695	60.447
5/6/2007 17:43	3110	18.694	60.446
5/6/2007 17:53	3120	18.71	60.444
5/6/2007 18:03	3130	18.686	60.447
5/6/2007 18:13	3140	18.713	60.447
5/6/2007 18:23	3150	18.696	60.451
5/6/2007 18:33	3160	18.686	60.452
5/6/2007 18:43	3170	18.691	60.453
5/6/2007 18:53	3180	18.689	60.45
5/6/2007 19:03	3190	18.678	60.445
5/6/2007 19:13	3200	18.675	60.448
5/6/2007 19:23	3210	18.676	60.451
5/6/2007 19:33	3220	18.673	60.45
5/6/2007 19:43	3230	18.676	60.443
5/6/2007 19:53	3240	18.675	60.443
5/6/2007 20:03	3250	18.685	60.447
5/6/2007 20:13	3260	18.673	60.447
5/6/2007 20:23	3270	18.672	60.446
5/6/2007 20:33	3280	18.669	60.45
5/6/2007 20:43	3290	18.667	60.445
5/6/2007 20:53	3300	18.664	60.447
5/6/2007 21:03	3310	18.669	60.444
5/6/2007 21:13	3320	18.658	60.447
5/6/2007 21:23	3330	18.671	60.442
5/6/2007 21:33	3340	18.664	60.445

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/6/2007 21:43	3350	18.665	60.447
5/6/2007 21:53	3360	18.658	60.446
5/6/2007 22:03	3370	18.664	60.448
5/6/2007 22:13	3380	18.646	60.441
5/6/2007 22:23	3390	18.649	60.445
5/6/2007 22:33	3400	18.654	60.446
5/6/2007 22:43	3410	18.664	60.442
5/6/2007 22:53	3420	18.645	60.448
5/6/2007 23:03	3430	18.653	60.449
5/6/2007 23:13	3440	18.655	60.443
5/6/2007 23:23	3450	18.654	60.447
5/6/2007 23:33	3460	18.64	60.445
5/6/2007 23:43	3470	18.644	60.445
5/6/2007 23:53	3480	18.636	60.446
5/7/2007 0:03	3490	18.639	60.445
5/7/2007 0:13	3500	18.645	60.444
5/7/2007 0:23	3510	18.627	60.447
5/7/2007 0:33	3520	18.646	60.443
5/7/2007 0:43	3530	18.642	60.441
5/7/2007 0:53	3540	18.646	60.447
5/7/2007 1:03	3550	18.627	60.444
5/7/2007 1:13	3560	18.631	60.441
5/7/2007 1:23	3570	18.627	60.447
5/7/2007 1:33	3580	18.63	60.441
5/7/2007 1:43	3590	18.618	60.441
5/7/2007 1:53	3600	18.635	60.445
5/7/2007 2:03	3610	18.621	60.438
5/7/2007 2:13	3620	18.616	60.441
5/7/2007 2:23	3630	18.621	60.445
5/7/2007 2:33	3640	18.63	60.441
5/7/2007 2:43	3650	18.619	60.443
5/7/2007 2:53	3660	18.615	60.448
5/7/2007 3:03	3670	18.606	60.446
5/7/2007 3:13	3680	18.632	60.436
5/7/2007 3:23	3690	18.607	60.44
5/7/2007 3:33	3700	18.599	60.442
5/7/2007 3:43	3710	18.598	60.439
5/7/2007 3:53	3720	18.597	60.439
5/7/2007 4:03	3730	18.593	60.443
5/7/2007 4:13	3740	18.603	60.442
5/7/2007 4:23	3750	18.6	60.447
5/7/2007 4:33	3760	18.592	60.443
5/7/2007 4:43	3770	18.591	60.44
5/7/2007 4:53	3780	18.586	60.44
5/7/2007 5:03	3790	18.586	60.443
5/7/2007 5:13	3800	18.586	60.438
5/7/2007 5:23	3810	18.582	60.437
5/7/2007 5:33	3820	18.585	60.44
5/7/2007 5:43	3830	18.588	60.442
5/7/2007 5:53	3840	18.583	60.441
5/7/2007 6:03	3850	18.581	60.437
5/7/2007 6:13	3860	18.58	60.435
5/7/2007 6:23	3870	18.573	60.435
5/7/2007 6:33	3880	18.574	60.441
5/7/2007 6:43	3890	18.579	60.434
5/7/2007 6:53	3900	18.576	60.44
5/7/2007 7:03	3910	18.562	60.442
5/7/2007 7:13	3920	18.558	60.44
5/7/2007 7:23	3930	18.567	60.438
5/7/2007 7:33	3940	18.565	60.441
5/7/2007 7:43	3950	18.556	60.437
5/7/2007 7:53	3960	18.549	60.441
5/7/2007 8:03	3970	18.563	60.435
5/7/2007 8:13	3980	18.559	60.441
5/7/2007 8:23	3990	18.545	60.44
5/7/2007 8:33	4000	18.548	60.435
5/7/2007 8:43	4010	18.553	60.434

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/7/2007 8:53	4020	18.546	60.439
5/7/2007 9:03	4030	18.549	60.438
5/7/2007 9:13	4040	18.531	60.434
5/7/2007 9:23	4050	18.542	60.436
5/7/2007 9:33	4060	18.543	60.435
5/7/2007 9:43	4070	18.532	60.437
5/7/2007 9:53	4080	18.535	60.44
5/7/2007 10:03	4090	18.541	60.438
5/7/2007 10:13	4100	18.529	60.434
5/7/2007 10:23	4110	18.541	60.439
5/7/2007 10:33	4120	18.526	60.436
5/7/2007 10:43	4130	18.532	60.437
5/7/2007 10:53	4140	18.519	60.431
5/7/2007 11:03	4150	18.535	60.438
5/7/2007 11:13	4160	18.53	60.435
5/7/2007 11:23	4170	18.52	60.44
5/7/2007 11:33	4180	18.514	60.437
5/7/2007 11:43	4190	18.512	60.435
5/7/2007 11:53	4200	18.508	60.436
5/7/2007 12:03	4210	18.509	60.439
5/7/2007 12:13	4220	18.511	60.435
5/7/2007 12:23	4230	18.513	60.438
5/7/2007 12:33	4240	18.514	60.432
5/7/2007 12:43	4250	18.498	60.438
5/7/2007 12:53	4260	18.515	60.435
5/7/2007 13:03	4270	18.493	60.435
5/7/2007 13:13	4280	18.51	60.431
5/7/2007 13:23	4290	18.496	60.433
5/7/2007 13:33	4300	18.493	60.441
5/7/2007 13:43	4310	18.505	60.446
5/7/2007 13:53	4320	18.473	60.435
5/7/2007 14:03	4330	18.483	60.43
5/7/2007 14:13	4340	18.489	60.433
5/7/2007 14:23	4350	18.737	60.441
5/7/2007 14:33	4360	18.823	60.441
5/7/2007 14:43	4370	18.899	60.439
5/7/2007 14:53	4380	18.954	60.444
5/7/2007 15:03	4390	19.006	60.436
5/7/2007 15:13	4400	19.047	60.442
5/7/2007 15:23	4410	19.089	60.441
5/7/2007 15:33	4420	19.122	60.437
5/7/2007 15:43	4430	19.165	60.438
5/7/2007 15:53	4440	19.191	60.441
5/7/2007 16:03	4450	19.218	60.437
5/7/2007 16:13	4460	19.241	60.439
5/7/2007 16:23	4470	19.266	60.441
5/7/2007 16:33	4480	19.299	60.437
5/7/2007 16:43	4490	19.321	60.437
5/7/2007 16:53	4500	19.346	60.433
5/7/2007 17:03	4510	19.368	60.436
5/7/2007 17:13	4520	19.383	60.43
5/7/2007 17:23	4530	19.407	60.437
5/7/2007 17:33	4540	19.437	60.435
5/7/2007 17:43	4550	19.453	60.433
5/7/2007 17:53	4560	19.471	60.429
5/7/2007 18:03	4570	19.492	60.426
5/7/2007 18:13	4580	19.5	60.434
5/7/2007 18:23	4590	19.54	60.429
5/7/2007 18:33	4600	19.548	60.43
5/7/2007 18:43	4610	19.548	60.429
5/7/2007 18:53	4620	19.564	60.424
5/7/2007 19:03	4630	19.583	60.431
5/7/2007 19:13	4640	19.601	60.424
5/7/2007 19:23	4650	19.615	60.428
5/7/2007 19:33	4660	19.634	60.424
5/7/2007 19:43	4670	19.641	60.426
5/7/2007 19:53	4680	19.656	60.418



**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/7/2007 20:03	4690	19.669	60.421
5/7/2007 20:13	4700	19.69	60.423
5/7/2007 20:23	4710	19.704	60.42
5/7/2007 20:33	4720	19.71	60.422
5/7/2007 20:43	4730	19.72	60.422
5/7/2007 20:53	4740	19.744	60.421
5/7/2007 21:03	4750	19.747	60.419
5/7/2007 21:13	4760	19.764	60.413
5/7/2007 21:23	4770	19.79	60.414
5/7/2007 21:33	4780	19.788	60.418
5/7/2007 21:43	4790	19.794	60.417
5/7/2007 21:53	4800	19.823	60.418
5/7/2007 22:03	4810	19.834	60.42
5/7/2007 22:13	4820	19.845	60.413
5/7/2007 22:23	4830	19.858	60.417
5/7/2007 22:33	4840	19.872	60.415
5/7/2007 22:43	4850	19.867	60.413
5/7/2007 22:53	4860	19.871	60.411
5/7/2007 23:03	4870	19.887	60.41
5/7/2007 23:13	4880	19.904	60.412
5/7/2007 23:23	4890	19.904	60.412
5/7/2007 23:33	4900	19.916	60.411
5/7/2007 23:43	4910	19.938	60.409
5/7/2007 23:53	4920	19.929	60.407
5/8/2007 0:03	4930	19.955	60.408
5/8/2007 0:13	4940	19.956	60.408
5/8/2007 0:23	4950	19.96	60.404
5/8/2007 0:33	4960	19.975	60.408
5/8/2007 0:43	4970	19.979	60.408
5/8/2007 0:53	4980	19.986	60.402
5/8/2007 1:03	4990	19.995	60.401
5/8/2007 1:13	5000	20.004	60.402
5/8/2007 1:23	5010	20.034	60.404
5/8/2007 1:33	5020	20.019	60.403
5/8/2007 1:43	5030	20.038	60.4
5/8/2007 1:53	5040	20.052	60.4
5/8/2007 2:03	5050	20.062	60.392
5/8/2007 2:13	5060	20.078	60.4
5/8/2007 2:23	5070	20.084	60.395
5/8/2007 2:33	5080	20.088	60.395
5/8/2007 2:43	5090	20.081	60.392
5/8/2007 2:53	5100	20.091	60.393
5/8/2007 3:03	5110	20.091	60.39
5/8/2007 3:13	5120	20.119	60.387
5/8/2007 3:23	5130	20.104	60.394
5/8/2007 3:33	5140	20.121	60.39
5/8/2007 3:43	5150	20.126	60.388
5/8/2007 3:53	5160	20.139	60.388
5/8/2007 4:03	5170	20.139	60.389
5/8/2007 4:13	5180	20.153	60.383
5/8/2007 4:23	5190	20.164	60.382
5/8/2007 4:33	5200	20.177	60.381
5/8/2007 4:43	5210	20.172	60.383
5/8/2007 4:53	5220	20.186	60.384
5/8/2007 5:03	5230	20.199	60.38
5/8/2007 5:13	5240	20.204	60.38
5/8/2007 5:23	5250	20.197	60.38
5/8/2007 5:33	5260	20.211	60.383
5/8/2007 5:43	5270	20.23	60.38
5/8/2007 5:53	5280	20.222	60.379
5/8/2007 6:03	5290	20.24	60.377
5/8/2007 6:13	5300	20.248	60.376
5/8/2007 6:23	5310	20.249	60.377
5/8/2007 6:33	5320	20.267	60.376
5/8/2007 6:43	5330	20.271	60.377
5/8/2007 6:53	5340	20.271	60.379
5/8/2007 7:03	5350	20.289	60.373

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/8/2007 7:13	5360	20.284	60.375
5/8/2007 7:23	5370	20.288	60.374
5/8/2007 7:33	5380	20.291	60.373
5/8/2007 7:43	5390	20.301	60.369
5/8/2007 7:53	5400	20.312	60.374
5/8/2007 8:03	5410	20.308	60.373
5/8/2007 8:13	5420	20.304	60.374
5/8/2007 8:23	5430	20.325	60.372
5/8/2007 8:33	5440	20.325	60.373
5/8/2007 8:43	5450	20.353	60.367
5/8/2007 8:53	5460	20.358	60.366
5/8/2007 9:03	5470	20.358	60.369
5/8/2007 9:13	5480	20.364	60.368
5/8/2007 9:23	5490	20.359	60.372
5/8/2007 9:33	5500	20.37	60.373
5/8/2007 9:43	5510	20.384	60.369
5/8/2007 9:53	5520	20.38	60.363
5/8/2007 10:03	5530	20.393	60.368
5/8/2007 10:13	5540	20.403	60.367
5/8/2007 10:23	5550	20.404	60.37
5/8/2007 10:33	5560	20.411	60.367
5/8/2007 10:43	5570	20.413	60.369
5/8/2007 10:53	5580	20.406	60.368
5/8/2007 11:03	5590	20.418	60.372
5/8/2007 11:13	5600	20.415	60.361
5/8/2007 11:23	5610	20.442	60.36
5/8/2007 11:33	5620	20.434	60.363
5/8/2007 11:43	5630	20.455	60.366
5/8/2007 11:53	5640	20.44	60.363
5/8/2007 12:03	5650	20.445	60.36
5/8/2007 12:13	5660	20.459	60.36
5/8/2007 12:23	5670	20.458	60.359
5/8/2007 12:33	5680	20.453	60.361
5/8/2007 12:43	5690	20.465	60.358
5/8/2007 12:53	5700	20.477	60.356
5/8/2007 13:03	5710	20.484	60.36
5/8/2007 13:13	5720	20.496	60.357
5/8/2007 13:23	5730	20.482	60.36
5/8/2007 13:33	5740	20.516	60.357
5/8/2007 13:43	5750	20.509	60.353
5/8/2007 13:53	5760	20.499	60.354
5/8/2007 14:03	5770	20.519	60.354
5/8/2007 14:13	5780	20.513	60.356
5/8/2007 14:23	5790	20.513	60.356
5/8/2007 14:33	5800	20.519	60.359
5/8/2007 14:43	5810	20.538	60.351
5/8/2007 14:53	5820	20.537	60.354
5/8/2007 15:03	5830	20.547	60.357
5/8/2007 15:13	5840	20.546	60.355
5/8/2007 15:23	5850	20.547	60.357
5/8/2007 15:33	5860	20.54	60.352
5/8/2007 15:43	5870	20.539	60.355
5/8/2007 15:53	5880	20.552	60.351
5/8/2007 16:03	5890	20.57	60.351
5/8/2007 16:13	5900	20.577	60.349
5/8/2007 16:23	5910	20.578	60.354
5/8/2007 16:33	5920	20.588	60.354
5/8/2007 16:43	5930	20.604	60.348
5/8/2007 16:53	5940	20.577	60.354
5/8/2007 17:03	5950	20.605	60.351
5/8/2007 17:13	5960	20.603	60.351
5/8/2007 17:23	5970	20.607	60.35
5/8/2007 17:33	5980	20.598	60.355
5/8/2007 17:43	5990	20.61	60.35
5/8/2007 17:53	6000	20.613	60.352
5/8/2007 18:03	6010	20.63	60.35
5/8/2007 18:13	6020	20.632	60.351

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/8/2007 18:23	6030	20.635	60.349
5/8/2007 18:33	6040	20.631	60.344
5/8/2007 18:43	6050	20.647	60.349
5/8/2007 18:53	6060	20.649	60.348
5/8/2007 19:03	6070	20.659	60.347
5/8/2007 19:13	6080	20.657	60.345
5/8/2007 19:23	6090	20.663	60.345
5/8/2007 19:33	6100	20.673	60.351
5/8/2007 19:43	6110	20.675	60.346
5/8/2007 19:53	6120	20.688	60.341
5/8/2007 20:03	6130	20.671	60.343
5/8/2007 20:13	6140	20.697	60.341
5/8/2007 20:23	6150	20.681	60.347
5/8/2007 20:33	6160	20.681	60.341
5/8/2007 20:43	6170	20.704	60.342
5/8/2007 20:53	6180	20.7	60.345
5/8/2007 21:03	6190	20.703	60.343
5/8/2007 21:13	6200	20.701	60.338
5/8/2007 21:23	6210	20.722	60.341
5/8/2007 21:33	6220	20.725	60.343
5/8/2007 21:43	6230	20.715	60.346
5/8/2007 21:53	6240	20.73	60.337
5/8/2007 22:03	6250	20.737	60.337
5/8/2007 22:13	6260	20.745	60.337
5/8/2007 22:23	6270	20.746	60.34
5/8/2007 22:33	6280	20.747	60.34
5/8/2007 22:43	6290	20.754	60.337
5/8/2007 22:53	6300	20.752	60.338
5/8/2007 23:03	6310	20.762	60.331
5/8/2007 23:13	6320	20.766	60.337
5/8/2007 23:23	6330	20.777	60.331
5/8/2007 23:33	6340	20.779	60.331
5/8/2007 23:43	6350	20.775	60.33
5/8/2007 23:53	6360	20.786	60.338
5/9/2007 0:03	6370	20.774	60.329
5/9/2007 0:13	6380	20.796	60.33
5/9/2007 0:23	6390	20.807	60.33
5/9/2007 0:33	6400	20.808	60.329
5/9/2007 0:43	6410	20.816	60.327
5/9/2007 0:53	6420	20.806	60.326
5/9/2007 1:03	6430	20.827	60.326
5/9/2007 1:13	6440	20.822	60.326
5/9/2007 1:23	6450	20.831	60.329
5/9/2007 1:33	6460	20.828	60.325
5/9/2007 1:43	6470	20.832	60.322
5/9/2007 1:53	6480	20.834	60.325
5/9/2007 2:03	6490	20.832	60.325
5/9/2007 2:13	6500	20.845	60.322
5/9/2007 2:23	6510	20.846	60.322
5/9/2007 2:33	6520	20.854	60.321
5/9/2007 2:43	6530	20.855	60.314
5/9/2007 2:53	6540	20.862	60.317
5/9/2007 3:03	6550	20.877	60.315
5/9/2007 3:13	6560	20.866	60.316
5/9/2007 3:23	6570	20.879	60.314
5/9/2007 3:33	6580	20.881	60.311
5/9/2007 3:43	6590	20.882	60.314
5/9/2007 3:53	6600	20.878	60.31
5/9/2007 4:03	6610	20.899	60.31
5/9/2007 4:13	6620	20.893	60.308
5/9/2007 4:23	6630	20.9	60.309
5/9/2007 4:33	6640	20.915	60.304
5/9/2007 4:43	6650	20.903	60.305
5/9/2007 4:53	6660	20.898	60.304
5/9/2007 5:03	6670	20.916	60.304
5/9/2007 5:13	6680	20.927	60.302
5/9/2007 5:23	6690	20.918	60.306

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/9/2007 5:33	6700	20.924	60.302
5/9/2007 5:43	6710	20.912	60.302
5/9/2007 5:53	6720	20.93	60.297
5/9/2007 6:03	6730	20.935	60.295
5/9/2007 6:13	6740	20.929	60.297
5/9/2007 6:23	6750	20.936	60.299
5/9/2007 6:33	6760	20.945	60.301
5/9/2007 6:43	6770	20.955	60.295
5/9/2007 6:53	6780	20.956	60.297
5/9/2007 7:03	6790	20.911	60.299
5/9/2007 7:13	6800	20.908	60.302
5/9/2007 7:23	6810	20.92	60.301
5/9/2007 7:33	6820	20.752	60.312
5/9/2007 7:43	6830	20.657	60.327
5/9/2007 7:53	6840	20.775	60.325
5/9/2007 8:03	6850	20.811	60.32
5/9/2007 8:13	6860	20.822	60.319
5/9/2007 8:23	6870	20.857	60.31
5/9/2007 8:33	6880	20.858	60.306
5/9/2007 8:43	6890	20.882	60.3
5/9/2007 8:53	6900	20.89	60.301
5/9/2007 9:03	6910	20.901	60.299
5/9/2007 9:13	6920	20.915	60.299
5/9/2007 9:23	6930	20.918	60.301
5/9/2007 9:33	6940	20.917	60.288
5/9/2007 9:43	6950	20.918	60.297
5/9/2007 9:53	6960	20.946	60.291
5/9/2007 10:03	6970	20.948	60.3
5/9/2007 10:13	6980	20.952	60.29
5/9/2007 10:23	6990	20.956	60.288
5/9/2007 10:33	7000	20.974	60.285
5/9/2007 10:43	7010	20.975	60.291
5/9/2007 10:53	7020	20.979	60.291
5/9/2007 11:03	7030	20.99	60.291
5/9/2007 11:13	7040	20.99	60.29
5/9/2007 11:23	7050	20.992	60.286
5/9/2007 11:33	7060	20.994	60.294
5/9/2007 11:43	7070	20.998	60.289
5/9/2007 11:53	7080	21.004	60.294
5/9/2007 12:03	7090	21.015	60.293
5/9/2007 12:13	7100	21.019	60.293
5/9/2007 12:23	7110	21.024	60.287
5/9/2007 12:33	7120	21.008	60.287
5/9/2007 12:43	7130	21.019	60.287
5/9/2007 12:53	7140	21.026	60.293
5/9/2007 13:03	7150	21.031	60.289
5/9/2007 13:13	7160	21.029	60.286
5/9/2007 13:23	7170	21.035	60.287
5/9/2007 13:33	7180	21.046	60.283
5/9/2007 13:43	7190	21.047	60.285
5/9/2007 13:53	7200	21.057	60.285
5/9/2007 14:03	7210	21.052	60.281
5/9/2007 14:13	7220	21.05	60.285
5/9/2007 14:23	7230	21.063	60.287
5/9/2007 14:33	7240	21.061	60.284
5/9/2007 14:43	7250	21.055	60.288
5/9/2007 14:53	7260	21.071	60.285
5/9/2007 15:03	7270	21.07	60.291
5/9/2007 15:13	7280	21.079	60.288
5/9/2007 15:23	7290	21.077	60.283
5/9/2007 15:33	7300	21.082	60.287
5/9/2007 15:43	7310	21.081	60.283
5/9/2007 15:53	7320	21.084	60.281
5/9/2007 16:03	7330	21.107	60.285
5/9/2007 16:13	7340	21.098	60.28
5/9/2007 16:23	7350	21.092	60.285
5/9/2007 16:33	7360	21.103	60.279

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 100G	Sensor: Pres 100G
		SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/9/2007 16:43	7370	21.099	60.285
5/9/2007 16:53	7380	21.113	60.284
5/9/2007 17:03	7390	21.107	60.283
5/9/2007 17:13	7400	21.11	60.285
5/9/2007 17:23	7410	21.115	60.286
5/9/2007 17:33	7420	21.117	60.288
5/9/2007 17:43	7430	21.117	60.282
5/9/2007 17:53	7440	21.129	60.281
5/9/2007 18:03	7450	21.126	60.279
5/9/2007 18:13	7460	21.134	60.279
5/9/2007 18:23	7470	21.138	60.287
5/9/2007 18:33	7480	21.134	60.285
5/9/2007 18:43	7490	21.144	60.281
5/9/2007 18:53	7500	21.138	60.284
5/9/2007 19:03	7510	21.143	60.282
5/9/2007 19:13	7520	21.151	60.285
5/9/2007 19:23	7530	21.16	60.285
5/9/2007 19:33	7540	21.149	60.283
5/9/2007 19:43	7550	21.179	60.279
5/9/2007 19:53	7560	21.16	60.277
5/9/2007 20:03	7570	21.16	60.275
5/9/2007 20:13	7580	21.171	60.279
5/9/2007 20:23	7590	21.165	60.278
5/9/2007 20:33	7600	21.166	60.278
5/9/2007 20:43	7610	21.175	60.275
5/9/2007 20:53	7620	21.173	60.28
5/9/2007 21:03	7630	21.185	60.279
5/9/2007 21:13	7640	21.184	60.273
5/9/2007 21:23	7650	21.19	60.278
5/9/2007 21:33	7660	21.19	60.276
5/9/2007 21:43	7670	21.189	60.279
5/9/2007 21:53	7680	21.188	60.275
5/9/2007 22:03	7690	21.194	60.274
5/9/2007 22:13	7700	21.198	60.278
5/9/2007 22:23	7710	21.208	60.279
5/9/2007 22:33	7720	21.205	60.281
5/9/2007 22:43	7730	21.212	60.283
5/9/2007 22:53	7740	21.212	60.28
5/9/2007 23:03	7750	21.209	60.276
5/9/2007 23:13	7760	21.212	60.281
5/9/2007 23:23	7770	21.217	60.278
5/9/2007 23:33	7780	21.227	60.277
5/9/2007 23:43	7790	21.224	60.275
5/9/2007 23:53	7800	21.226	60.281
5/10/2007 0:03	7810	21.225	60.278
5/10/2007 0:13	7820	21.24	60.284
5/10/2007 0:23	7830	21.231	60.28
5/10/2007 0:33	7840	21.243	60.279
5/10/2007 0:43	7850	21.234	60.282
5/10/2007 0:53	7860	21.241	60.277
5/10/2007 1:03	7870	21.253	60.278
5/10/2007 1:13	7880	21.246	60.279
5/10/2007 1:23	7890	21.254	60.281
5/10/2007 1:33	7900	21.246	60.282
5/10/2007 1:43	7910	21.26	60.276
5/10/2007 1:53	7920	21.267	60.28
5/10/2007 2:03	7930	21.267	60.279
5/10/2007 2:13	7940	21.268	60.278
5/10/2007 2:23	7950	21.265	60.273
5/10/2007 2:33	7960	21.266	60.279
5/10/2007 2:43	7970	21.276	60.274
5/10/2007 2:53	7980	21.284	60.273
5/10/2007 3:03	7990	21.27	60.274
5/10/2007 3:13	8000	21.276	60.277
5/10/2007 3:23	8010	21.278	60.273
5/10/2007 3:33	8020	21.274	60.278
5/10/2007 3:43	8030	21.298	60.277

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 100G	Sensor: Pres 100G
Date and Time	Elapsed Time Minutes	SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/10/2007 3:53	8040	21.287	60.273
5/10/2007 4:03	8050	21.288	60.275
5/10/2007 4:13	8060	21.288	60.276
5/10/2007 4:23	8070	21.29	60.273
5/10/2007 4:33	8080	21.294	60.273
5/10/2007 4:43	8090	21.296	60.275
5/10/2007 4:53	8100	21.308	60.271
5/10/2007 5:03	8110	21.301	60.273
5/10/2007 5:13	8120	21.309	60.272
5/10/2007 5:23	8130	21.307	60.271
5/10/2007 5:33	8140	21.301	60.269
5/10/2007 5:43	8150	21.312	60.276
5/10/2007 5:53	8160	21.309	60.273
5/10/2007 6:03	8170	21.318	60.276
5/10/2007 6:13	8180	21.317	60.274
5/10/2007 6:23	8190	21.309	60.277
5/10/2007 6:33	8200	21.329	60.273
5/10/2007 6:43	8210	21.324	60.273
5/10/2007 6:53	8220	21.323	60.275
5/10/2007 7:03	8230	21.324	60.273
5/10/2007 7:13	8240	21.327	60.273
5/10/2007 7:23	8250	21.335	60.273
5/10/2007 7:33	8260	21.336	60.273
5/10/2007 7:43	8270	21.333	60.271
5/10/2007 7:53	8280	21.336	60.273
5/10/2007 8:03	8290	21.333	60.27
5/10/2007 8:13	8300	21.335	60.269
5/10/2007 8:23	8310	21.345	60.271
5/10/2007 8:33	8320	21.352	60.272
5/10/2007 8:43	8330	21.342	60.269
5/10/2007 8:53	8340	21.345	60.27
5/10/2007 9:03	8350	21.364	60.271
5/10/2007 9:13	8360	21.356	60.272
5/10/2007 9:23	8370	21.37	60.27
5/10/2007 9:33	8380	21.354	60.268
5/10/2007 9:43	8390	21.352	60.267
5/10/2007 9:53	8400	21.378	60.27
5/10/2007 10:03	8410	21.363	60.27
5/10/2007 10:13	8420	21.357	60.273
5/10/2007 10:23	8430	21.37	60.263
5/10/2007 10:33	8440	21.372	60.27
5/10/2007 10:43	8450	21.369	60.273
5/10/2007 10:53	8460	21.374	60.27
5/10/2007 11:03	8470	21.383	60.268
5/10/2007 11:13	8480	21.37	60.264
5/10/2007 11:23	8490	21.364	60.269
5/10/2007 11:33	8500	21.346	60.275
5/10/2007 11:43	8510	21.349	60.273
5/10/2007 11:53	8520	21.335	60.269
5/10/2007 12:03	8530	21.338	60.269
5/10/2007 12:13	8540	21.338	60.27
5/10/2007 12:23	8550	21.343	60.27
5/10/2007 12:33	8560	21.349	60.27
5/10/2007 12:43	8570	21.344	60.268
5/10/2007 12:53	8580	21.359	60.273
5/10/2007 13:03	8590	21.349	60.273
5/10/2007 13:13	8600	21.347	60.271
5/10/2007 13:23	8610	21.348	60.273
5/10/2007 13:33	8620	21.349	60.266
5/10/2007 13:43	8630	21.361	60.269
5/10/2007 13:53	8640	21.363	60.272
5/10/2007 14:03	8650	21.364	60.27
5/10/2007 14:13	8660	21.371	60.273
5/10/2007 14:23	8670	21.362	60.27
5/10/2007 14:33	8680	21.352	60.267
5/10/2007 14:43	8690	21.361	60.267
5/10/2007 14:53	8700	21.363	60.266

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 100G	Sensor: Pres 100G
Date and Time	Elapsed Time Minutes	SN#: 111118 Level-DTW (ft)	SN#: 111118 Temperature (F)
5/10/2007 15:03	8710	21.359	60.271
5/10/2007 15:13	8720	21.371	60.266
5/10/2007 15:23	8730	21.374	60.272
5/10/2007 15:33	8740	21.383	60.27
5/10/2007 15:43	8750	21.378	60.266
5/10/2007 15:53	8760	21.38	60.268
5/10/2007 16:03	8770	21.379	60.27
5/10/2007 16:13	8780	21.39	60.27
5/10/2007 16:23	8790	21.378	60.266
5/10/2007 16:33	8800	21.387	60.267
5/10/2007 16:43	8810	21.385	60.265
5/10/2007 16:53	8820	21.388	60.265
5/10/2007 17:03	8830	21.397	60.269
5/10/2007 17:13	8840	21.392	60.265
5/10/2007 17:23	8850	21.394	60.266
5/10/2007 17:33	8860	21.409	60.265
5/10/2007 17:43	8870	21.406	60.265
5/10/2007 17:53	8880	21.41	60.258
5/10/2007 18:03	8890	21.405	60.26
5/10/2007 18:13	8900	21.407	60.261
5/10/2007 18:23	8910	21.405	60.262
5/10/2007 18:33	8920	21.408	60.26
5/10/2007 18:43	8930	21.411	60.26
5/10/2007 18:53	8940	21.409	60.264
5/10/2007 19:03	8950	21.426	60.263
5/10/2007 19:13	8960	21.428	60.267
5/10/2007 19:23	8970	21.419	60.262
5/10/2007 19:33	8980	21.42	60.262
5/10/2007 19:43	8990	21.205	60.264
5/10/2007 19:53	9000	21.093	60.262
5/10/2007 20:03	9010	21.012	60.261
5/10/2007 20:13	9020	20.941	60.264
5/10/2007 20:23	9030	20.868	60.256
5/10/2007 20:33	9040	20.811	60.264
5/10/2007 20:43	9050	20.747	60.269
5/10/2007 20:53	9060	20.938	60.262
5/10/2007 21:03	9070	20.993	60.262
5/10/2007 21:13	9080	21.035	60.261
5/10/2007 21:23	9090	21.048	60.255
5/10/2007 21:33	9100	21.073	60.262
5/10/2007 21:43	9110	21.096	60.263
5/10/2007 21:53	9120	21.109	60.258
5/10/2007 22:03	9130	21.132	60.259
5/10/2007 22:13	9140	21.145	60.261
5/10/2007 22:23	9150	21.154	60.26
5/10/2007 22:33	9160	21.172	60.259
5/10/2007 22:43	9170	21.183	60.26
5/10/2007 22:53	9180	21.187	60.257
5/10/2007 23:03	9190	21.208	60.262
5/10/2007 23:13	9200	21.208	60.258
5/10/2007 23:23	9210	21.212	60.255
5/10/2007 23:33	9220	21.224	60.255
5/10/2007 23:43	9230	21.233	60.254
5/10/2007 23:53	9240	21.23	60.257
5/11/2007 0:03	9250	21.226	60.256
5/11/2007 0:13	9260	21.221	60.256
5/11/2007 0:23	9270	21.233	60.253
5/11/2007 0:33	9280	21.243	60.258
5/11/2007 0:43	9290	21.227	60.256
5/11/2007 0:53	9300	21.235	60.256
5/11/2007 1:03	9310	21.239	60.259
5/11/2007 1:13	9320	21.25	60.256
5/11/2007 1:23	9330	21.262	60.257
5/11/2007 1:33	9340	21.242	60.259
5/11/2007 1:43	9350	21.264	60.256
5/11/2007 1:53	9360	21.244	60.254
5/11/2007 2:03	9370	21.244	60.253

**CW-20 ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 100G	Sensor: Pres 100G
	Elapsed Time	SN#: 111118	SN#: 111118
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/11/2007 2:13	9380	21.253	60.26
5/11/2007 2:23	9390	21.25	60.259
5/11/2007 2:33	9400	21.248	60.252
5/11/2007 2:43	9410	21.259	60.254
5/11/2007 2:53	9420	21.275	60.254
5/11/2007 3:03	9430	21.257	60.251
5/11/2007 3:13	9440	21.282	60.25
5/11/2007 3:23	9450	21.264	60.254
5/11/2007 3:33	9460	21.263	60.252
5/11/2007 3:43	9470	21.275	60.252
5/11/2007 3:53	9480	21.251	60.25
5/11/2007 4:03	9490	21.262	60.247
5/11/2007 4:13	9500	21.246	60.251
5/11/2007 4:23	9510	21.256	60.256
5/11/2007 4:33	9520	21.26	60.251
5/11/2007 4:43	9530	21.282	60.253
5/11/2007 4:53	9540	21.266	60.254
5/11/2007 5:03	9550	21.27	60.252
5/11/2007 5:13	9560	21.281	60.248
5/11/2007 5:23	9570	21.271	60.247
5/11/2007 5:33	9580	21.279	60.249
5/11/2007 5:43	9590	21.301	60.25
5/11/2007 5:53	9600	21.304	60.251
5/11/2007 6:03	9610	21.278	60.249
5/11/2007 6:13	9620	21.285	60.246
5/11/2007 6:23	9630	21.268	60.25
5/11/2007 6:33	9640	21.287	60.247
5/11/2007 6:43	9650	21.297	60.25
5/11/2007 6:53	9660	21.305	60.243
5/11/2007 7:03	9670	21.331	60.253
5/11/2007 7:13	9680	21.307	60.249
5/11/2007 7:23	9690	21.287	60.249
5/11/2007 7:33	9700	21.337	60.248
5/11/2007 7:43	9710	21.313	60.248
5/11/2007 7:53	9720	21.324	60.25
5/11/2007 8:03	9730	21.36	60.246
5/11/2007 8:13	9740	21.317	60.25
5/11/2007 8:23	9750	21.309	60.25
5/11/2007 8:33	9760	21.389	60.25
5/11/2007 8:43	9770	21.409	60.251
5/11/2007 8:53	9780	21.37	60.25
5/11/2007 9:03	9790	21.374	60.252
5/11/2007 9:13	9800	21.39	60.25
5/11/2007 9:23	9810	21.441	60.256
5/11/2007 9:33	9820	21.416	60.25
5/11/2007 9:43	9830	21.293	60.248
5/11/2007 9:53	9840	21.316	60.255
5/11/2007 10:03	9850	21.318	60.249
5/11/2007 10:13	9860	21.313	60.249
5/11/2007 10:23	9870	21.308	60.249
5/11/2007 10:33	9880	21.317	60.25
5/11/2007 10:43	9890	21.325	60.248
5/11/2007 10:53	9900	21.322	60.246
5/11/2007 11:03	9910	21.322	60.245
5/11/2007 11:13	9920	21.333	60.25
5/11/2007 11:23	9930	21.324	60.244
5/11/2007 11:33	9940	21.345	60.244



**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/4/2007 14:31	0	18.072	61.376
5/4/2007 14:41	10	18.034	61.2716
5/4/2007 14:51	20	17.99	61.2482
5/4/2007 15:01	30	17.971	61.241
5/4/2007 15:11	40	17.937	61.2302
5/4/2007 15:21	50	17.907	61.223
5/4/2007 15:31	60	17.882	61.2176
5/4/2007 15:41	70	17.85	61.2176
5/4/2007 15:51	80	17.831	61.2176
5/4/2007 16:01	90	17.815	61.2158
5/4/2007 16:11	100	17.778	61.2086
5/4/2007 16:21	110	17.76	61.2068
5/4/2007 16:31	120	17.755	61.2086
5/4/2007 16:41	130	17.723	61.2086
5/4/2007 16:51	140	17.707	61.2068
5/4/2007 17:01	150	17.685	61.2014
5/4/2007 17:11	160	17.662	61.2014
5/4/2007 17:21	170	17.646	61.1978
5/4/2007 17:31	180	17.645	61.2014
5/4/2007 17:41	190	17.623	61.2014
5/4/2007 17:51	200	17.606	61.1996
5/4/2007 18:01	210	17.594	61.1996
5/4/2007 18:11	220	17.57	61.2014
5/4/2007 18:21	230	17.564	61.196
5/4/2007 18:31	240	17.553	61.196
5/4/2007 18:41	250	17.541	61.1942
5/4/2007 18:51	260	17.535	61.1996
5/4/2007 19:01	270	17.518	61.196
5/4/2007 19:11	280	17.497	61.1942
5/4/2007 19:21	290	17.495	61.1906
5/4/2007 19:31	300	17.486	61.1924
5/4/2007 19:41	310	17.471	61.1942
5/4/2007 19:51	320	17.46	61.196
5/4/2007 20:01	330	17.46	61.1906
5/4/2007 20:11	340	17.45	61.1942
5/4/2007 20:21	350	17.441	61.1978
5/4/2007 20:31	360	17.426	61.1924
5/4/2007 20:41	370	17.423	61.1888
5/4/2007 20:51	380	17.397	61.1888
5/4/2007 21:01	390	17.396	61.1906
5/4/2007 21:11	400	17.388	61.187
5/4/2007 21:21	410	17.391	61.1942
5/4/2007 21:31	420	17.372	61.1924
5/4/2007 21:41	430	17.364	61.1924
5/4/2007 21:51	440	17.346	61.1942
5/4/2007 22:01	450	17.356	61.1906
5/4/2007 22:11	460	17.342	61.1852
5/4/2007 22:21	470	17.321	61.1888
5/4/2007 22:31	480	17.332	61.1852
5/4/2007 22:41	490	17.323	61.1852
5/4/2007 22:51	500	17.299	61.1942
5/4/2007 23:01	510	17.31	61.1906
5/4/2007 23:11	520	17.293	61.1888
5/4/2007 23:21	530	17.288	61.1888
5/4/2007 23:31	540	17.291	61.196
5/4/2007 23:41	550	17.278	61.187
5/4/2007 23:51	560	17.267	61.1906
5/5/2007 0:01	570	17.261	61.1924
5/5/2007 0:11	580	17.251	61.1888
5/5/2007 0:21	590	17.248	61.1852
5/5/2007 0:31	600	17.241	61.1906
5/5/2007 0:41	610	17.234	61.1924
5/5/2007 0:51	620	17.229	61.1888
5/5/2007 1:01	630	17.222	61.1906
5/5/2007 1:11	640	17.214	61.1906
5/5/2007 1:21	650	17.219	61.1888
5/5/2007 1:31	660	17.203	61.1888

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/5/2007 1:41	670	17.199	61.1906
5/5/2007 1:51	680	17.19	61.187
5/5/2007 2:01	690	17.186	61.196
5/5/2007 2:11	700	17.188	61.1888
5/5/2007 2:21	710	17.172	61.1888
5/5/2007 2:31	720	17.165	61.1888
5/5/2007 2:41	730	17.17	61.187
5/5/2007 2:51	740	17.157	61.1924
5/5/2007 3:01	750	17.15	61.1906
5/5/2007 3:11	760	17.133	61.1888
5/5/2007 3:21	770	17.146	61.1942
5/5/2007 3:31	780	17.133	61.187
5/5/2007 3:41	790	17.135	61.1906
5/5/2007 3:51	800	17.125	61.1924
5/5/2007 4:01	810	17.118	61.1852
5/5/2007 4:11	820	17.11	61.1852
5/5/2007 4:21	830	17.105	61.1906
5/5/2007 4:31	840	17.093	61.1906
5/5/2007 4:41	850	17.091	61.1888
5/5/2007 4:51	860	17.079	61.1852
5/5/2007 5:01	870	17.082	61.1888
5/5/2007 5:11	880	17.086	61.187
5/5/2007 5:21	890	17.079	61.1888
5/5/2007 5:31	900	17.075	61.1888
5/5/2007 5:41	910	17.062	61.1852
5/5/2007 5:51	920	17.056	61.187
5/5/2007 6:01	930	17.061	61.187
5/5/2007 6:11	940	17.056	61.1852
5/5/2007 6:21	950	17.052	61.187
5/5/2007 6:31	960	17.037	61.1834
5/5/2007 6:41	970	17.032	61.1924
5/5/2007 6:51	980	17.026	61.1834
5/5/2007 7:01	990	17.022	61.187
5/5/2007 7:11	1000	17.004	61.1816
5/5/2007 7:21	1010	17.008	61.1852
5/5/2007 7:31	1020	17.002	61.1852
5/5/2007 7:41	1030	17.001	61.187
5/5/2007 7:51	1040	16.995	61.1852
5/5/2007 8:01	1050	16.99	61.1852
5/5/2007 8:11	1060	16.989	61.1852
5/5/2007 8:21	1070	16.979	61.1816
5/5/2007 8:31	1080	16.982	61.1798
5/5/2007 8:41	1090	16.965	61.1798
5/5/2007 8:51	1100	16.971	61.1852
5/5/2007 9:01	1110	16.966	61.187
5/5/2007 9:11	1120	16.954	61.1816
5/5/2007 9:21	1130	16.953	61.187
5/5/2007 9:31	1140	16.953	61.1816
5/5/2007 9:41	1150	16.94	61.1834
5/5/2007 9:51	1160	16.941	61.1906
5/5/2007 10:01	1170	16.927	61.1852
5/5/2007 10:11	1180	16.923	61.1852
5/5/2007 10:21	1190	16.912	61.1816
5/5/2007 10:31	1200	16.913	61.1816
5/5/2007 10:41	1210	16.907	61.1816
5/5/2007 10:51	1220	16.906	61.1852
5/5/2007 11:01	1230	16.9	61.1834
5/5/2007 11:11	1240	16.904	61.1798
5/5/2007 11:21	1250	16.899	61.1834
5/5/2007 11:31	1260	16.886	61.178
5/5/2007 11:41	1270	16.887	61.1798
5/5/2007 11:51	1280	16.88	61.1798
5/5/2007 12:01	1290	16.875	61.1762
5/5/2007 12:11	1300	16.865	61.1816
5/5/2007 12:21	1310	16.864	61.178
5/5/2007 12:31	1320	16.859	61.1798
5/5/2007 12:41	1330	16.853	61.1798

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/5/2007 12:51	1340	16.858	61.1798
5/5/2007 13:01	1350	16.847	61.178
5/5/2007 13:11	1360	16.842	61.1762
5/5/2007 13:21	1370	16.847	61.1744
5/5/2007 13:31	1380	16.835	61.1834
5/5/2007 13:41	1390	16.83	61.1762
5/5/2007 13:51	1400	16.823	61.1762
5/5/2007 14:01	1410	16.824	61.178
5/5/2007 14:11	1420	16.816	61.1816
5/5/2007 14:21	1430	16.814	61.1798
5/5/2007 14:31	1440	16.8	61.1762
5/5/2007 14:41	1450	16.814	61.1798
5/5/2007 14:51	1460	16.798	61.178
5/5/2007 15:01	1470	16.796	61.178
5/5/2007 15:11	1480	16.8	61.1852
5/5/2007 15:21	1490	16.787	61.1744
5/5/2007 15:31	1500	16.785	61.1798
5/5/2007 15:41	1510	16.79	61.187
5/5/2007 15:51	1520	16.793	61.178
5/5/2007 16:01	1530	16.773	61.1798
5/5/2007 16:11	1540	16.778	61.1816
5/5/2007 16:21	1550	16.764	61.178
5/5/2007 16:31	1560	16.769	61.1744
5/5/2007 16:41	1570	16.761	61.1798
5/5/2007 16:51	1580	16.755	61.178
5/5/2007 17:01	1590	16.762	61.1762
5/5/2007 17:11	1600	16.754	61.1744
5/5/2007 17:21	1610	16.744	61.1798
5/5/2007 17:31	1620	16.743	61.178
5/5/2007 17:41	1630	16.731	61.1744
5/5/2007 17:51	1640	16.735	61.1744
5/5/2007 18:01	1650	16.72	61.1762
5/5/2007 18:11	1660	16.725	61.1726
5/5/2007 18:21	1670	16.724	61.1762
5/5/2007 18:31	1680	16.723	61.1744
5/5/2007 18:41	1690	16.726	61.1816
5/5/2007 18:51	1700	16.715	61.1762
5/5/2007 19:01	1710	16.71	61.1726
5/5/2007 19:11	1720	16.708	61.1798
5/5/2007 19:21	1730	16.703	61.1798
5/5/2007 19:31	1740	16.705	61.1726
5/5/2007 19:41	1750	16.703	61.178
5/5/2007 19:51	1760	16.695	61.1816
5/5/2007 20:01	1770	16.69	61.1762
5/5/2007 20:11	1780	16.696	61.1762
5/5/2007 20:21	1790	16.698	61.1762
5/5/2007 20:31	1800	16.683	61.178
5/5/2007 20:41	1810	16.692	61.1726
5/5/2007 20:51	1820	16.689	61.1744
5/5/2007 21:01	1830	16.677	61.1726
5/5/2007 21:11	1840	16.673	61.1762
5/5/2007 21:21	1850	16.679	61.1708
5/5/2007 21:31	1860	16.668	61.1726
5/5/2007 21:41	1870	16.674	61.1744
5/5/2007 21:51	1880	16.666	61.1726
5/5/2007 22:01	1890	16.659	61.1762
5/5/2007 22:11	1900	16.661	61.169
5/5/2007 22:21	1910	16.662	61.1762
5/5/2007 22:31	1920	16.652	61.1762
5/5/2007 22:41	1930	16.656	61.1744
5/5/2007 22:51	1940	16.662	61.1708
5/5/2007 23:01	1950	16.647	61.1726
5/5/2007 23:11	1960	16.645	61.169
5/5/2007 23:21	1970	16.641	61.1744
5/5/2007 23:31	1980	16.649	61.1744
5/5/2007 23:41	1990	16.639	61.1708
5/5/2007 23:51	2000	16.634	61.1762

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/6/2007 0:01	2010	16.644	61.1726
5/6/2007 0:11	2020	16.622	61.1762
5/6/2007 0:21	2030	16.627	61.178
5/6/2007 0:31	2040	16.63	61.1708
5/6/2007 0:41	2050	16.618	61.1762
5/6/2007 0:51	2060	16.622	61.169
5/6/2007 1:01	2070	16.613	61.1672
5/6/2007 1:11	2080	16.621	61.1708
5/6/2007 1:21	2090	16.611	61.169
5/6/2007 1:31	2100	16.613	61.1744
5/6/2007 1:41	2110	16.613	61.169
5/6/2007 1:51	2120	16.611	61.178
5/6/2007 2:01	2130	16.596	61.169
5/6/2007 2:11	2140	16.604	61.169
5/6/2007 2:21	2150	16.599	61.169
5/6/2007 2:31	2160	16.598	61.1726
5/6/2007 2:41	2170	16.598	61.1726
5/6/2007 2:51	2180	16.593	61.1726
5/6/2007 3:01	2190	16.58	61.169
5/6/2007 3:11	2200	16.59	61.1708
5/6/2007 3:21	2210	16.587	61.169
5/6/2007 3:31	2220	16.584	61.169
5/6/2007 3:41	2230	16.567	61.1744
5/6/2007 3:51	2240	16.568	61.169
5/6/2007 4:01	2250	16.567	61.1708
5/6/2007 4:11	2260	16.577	61.1744
5/6/2007 4:21	2270	16.573	61.1672
5/6/2007 4:31	2280	16.561	61.1744
5/6/2007 4:41	2290	16.557	61.1708
5/6/2007 4:51	2300	16.568	61.1636
5/6/2007 5:01	2310	16.543	61.169
5/6/2007 5:11	2320	16.559	61.1708
5/6/2007 5:21	2330	16.557	61.1708
5/6/2007 5:31	2340	16.545	61.1654
5/6/2007 5:41	2350	16.545	61.1708
5/6/2007 5:51	2360	16.538	61.169
5/6/2007 6:01	2370	16.549	61.1672
5/6/2007 6:11	2380	16.542	61.1708
5/6/2007 6:21	2390	16.546	61.169
5/6/2007 6:31	2400	16.547	61.169
5/6/2007 6:41	2410	16.538	61.1726
5/6/2007 6:51	2420	16.539	61.1708
5/6/2007 7:01	2430	16.524	61.1672
5/6/2007 7:11	2440	16.533	61.1636
5/6/2007 7:21	2450	16.526	61.169
5/6/2007 7:31	2460	16.518	61.1672
5/6/2007 7:41	2470	16.513	61.1654
5/6/2007 7:51	2480	16.516	61.169
5/6/2007 8:01	2490	16.517	61.1672
5/6/2007 8:11	2500	16.506	61.169
5/6/2007 8:21	2510	16.511	61.169
5/6/2007 8:31	2520	16.512	61.1654
5/6/2007 8:41	2530	16.508	61.169
5/6/2007 8:51	2540	16.508	61.1744
5/6/2007 9:01	2550	16.5	61.1636
5/6/2007 9:11	2560	16.501	61.1654
5/6/2007 9:21	2570	16.498	61.169
5/6/2007 9:31	2580	16.486	61.1672
5/6/2007 9:41	2590	16.496	61.1672
5/6/2007 9:51	2600	16.497	61.1726
5/6/2007 10:01	2610	16.487	61.1654
5/6/2007 10:11	2620	16.479	61.1672
5/6/2007 10:21	2630	16.486	61.1672
5/6/2007 10:31	2640	16.483	61.1636
5/6/2007 10:41	2650	16.467	61.169
5/6/2007 10:51	2660	16.48	61.1636
5/6/2007 11:01	2670	16.464	61.1618

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/6/2007 11:11	2680	16.467	61.1636
5/6/2007 11:21	2690	16.459	61.1708
5/6/2007 11:31	2700	16.466	61.1618
5/6/2007 11:41	2710	16.462	61.169
5/6/2007 11:51	2720	16.46	61.1618
5/6/2007 12:01	2730	16.466	61.1654
5/6/2007 12:11	2740	16.455	61.1618
5/6/2007 12:21	2750	16.443	61.1618
5/6/2007 12:31	2760	16.446	61.1618
5/6/2007 12:41	2770	16.451	61.1672
5/6/2007 12:51	2780	16.44	61.1654
5/6/2007 13:01	2790	16.449	61.1636
5/6/2007 13:11	2800	16.435	61.1654
5/6/2007 13:21	2810	16.442	61.1636
5/6/2007 13:31	2820	16.45	61.16
5/6/2007 13:41	2830	16.435	61.169
5/6/2007 13:51	2840	16.425	61.1636
5/6/2007 14:01	2850	16.429	61.1618
5/6/2007 14:11	2860	16.431	61.1636
5/6/2007 14:21	2870	16.427	61.1636
5/6/2007 14:31	2880	16.416	61.1654
5/6/2007 14:41	2890	16.424	61.1654
5/6/2007 14:51	2900	16.421	61.1654
5/6/2007 15:01	2910	16.423	61.1636
5/6/2007 15:11	2920	16.418	61.1636
5/6/2007 15:21	2930	16.409	61.1618
5/6/2007 15:31	2940	16.415	61.1636
5/6/2007 15:41	2950	16.414	61.1654
5/6/2007 15:51	2960	16.415	61.16
5/6/2007 16:01	2970	16.403	61.1654
5/6/2007 16:11	2980	16.409	61.1618
5/6/2007 16:21	2990	16.404	61.1618
5/6/2007 16:31	3000	16.403	61.1672
5/6/2007 16:41	3010	16.397	61.1582
5/6/2007 16:51	3020	16.386	61.1636
5/6/2007 17:01	3030	16.399	61.1618
5/6/2007 17:11	3040	16.399	61.1636
5/6/2007 17:21	3050	16.405	61.1618
5/6/2007 17:31	3060	16.388	61.16
5/6/2007 17:41	3070	16.393	61.16
5/6/2007 17:51	3080	16.383	61.1582
5/6/2007 18:01	3090	16.394	61.16
5/6/2007 18:11	3100	16.388	61.1582
5/6/2007 18:21	3110	16.373	61.1636
5/6/2007 18:31	3120	16.383	61.1582
5/6/2007 18:41	3130	16.389	61.1582
5/6/2007 18:51	3140	16.382	61.1618
5/6/2007 19:01	3150	16.37	61.1618
5/6/2007 19:11	3160	16.376	61.1582
5/6/2007 19:21	3170	16.377	61.16
5/6/2007 19:31	3180	16.362	61.1582
5/6/2007 19:41	3190	16.372	61.16
5/6/2007 19:51	3200	16.364	61.1618
5/6/2007 20:01	3210	16.362	61.1636
5/6/2007 20:11	3220	16.361	61.1654
5/6/2007 20:21	3230	16.371	61.1618
5/6/2007 20:31	3240	16.364	61.16
5/6/2007 20:41	3250	16.357	61.1618
5/6/2007 20:51	3260	16.356	61.1582
5/6/2007 21:01	3270	16.362	61.16
5/6/2007 21:11	3280	16.351	61.1618
5/6/2007 21:21	3290	16.36	61.1618
5/6/2007 21:31	3300	16.35	61.1564
5/6/2007 21:41	3310	16.355	61.1582
5/6/2007 21:51	3320	16.342	61.16
5/6/2007 22:01	3330	16.348	61.16
5/6/2007 22:11	3340	16.349	61.1582

**MW-37D ELECTRONIC DATA  
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Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/6/2007 22:21	3350	16.338	61.1582
5/6/2007 22:31	3360	16.336	61.1582
5/6/2007 22:41	3370	16.336	61.1582
5/6/2007 22:51	3380	16.343	61.1582
5/6/2007 23:01	3390	16.333	61.1618
5/6/2007 23:11	3400	16.342	61.1564
5/6/2007 23:21	3410	16.339	61.1636
5/6/2007 23:31	3420	16.33	61.1582
5/6/2007 23:41	3430	16.322	61.1636
5/6/2007 23:51	3440	16.327	61.1564
5/7/2007 0:01	3450	16.335	61.16
5/7/2007 0:11	3460	16.332	61.1582
5/7/2007 0:21	3470	16.323	61.16
5/7/2007 0:31	3480	16.332	61.1582
5/7/2007 0:41	3490	16.32	61.1582
5/7/2007 0:51	3500	16.329	61.1546
5/7/2007 1:01	3510	16.324	61.1582
5/7/2007 1:11	3520	16.322	61.1528
5/7/2007 1:21	3530	16.313	61.1564
5/7/2007 1:31	3540	16.323	61.1546
5/7/2007 1:41	3550	16.317	61.1582
5/7/2007 1:51	3560	16.321	61.1564
5/7/2007 2:01	3570	16.305	61.1564
5/7/2007 2:11	3580	16.308	61.1528
5/7/2007 2:21	3590	16.306	61.151
5/7/2007 2:31	3600	16.307	61.1564
5/7/2007 2:41	3610	16.308	61.1564
5/7/2007 2:51	3620	16.308	61.1546
5/7/2007 3:01	3630	16.304	61.1528
5/7/2007 3:11	3640	16.302	61.1564
5/7/2007 3:21	3650	16.296	61.1546
5/7/2007 3:31	3660	16.297	61.1564
5/7/2007 3:41	3670	16.286	61.151
5/7/2007 3:51	3680	16.291	61.151
5/7/2007 4:01	3690	16.292	61.1528
5/7/2007 4:11	3700	16.289	61.1564
5/7/2007 4:21	3710	16.288	61.1492
5/7/2007 4:31	3720	16.287	61.1564
5/7/2007 4:41	3730	16.279	61.1564
5/7/2007 4:51	3740	16.286	61.1528
5/7/2007 5:01	3750	16.284	61.1546
5/7/2007 5:11	3760	16.278	61.1546
5/7/2007 5:21	3770	16.277	61.1564
5/7/2007 5:31	3780	16.268	61.1564
5/7/2007 5:41	3790	16.266	61.1528
5/7/2007 5:51	3800	16.275	61.1528
5/7/2007 6:01	3810	16.261	61.151
5/7/2007 6:11	3820	16.27	61.1492
5/7/2007 6:21	3830	16.267	61.151
5/7/2007 6:31	3840	16.265	61.1528
5/7/2007 6:41	3850	16.253	61.1492
5/7/2007 6:51	3860	16.251	61.1528
5/7/2007 7:01	3870	16.25	61.151
5/7/2007 7:11	3880	16.257	61.151
5/7/2007 7:21	3890	16.246	61.1528
5/7/2007 7:31	3900	16.254	61.1492
5/7/2007 7:41	3910	16.253	61.1528
5/7/2007 7:51	3920	16.251	61.1456
5/7/2007 8:01	3930	16.247	61.1564
5/7/2007 8:11	3940	16.244	61.1528
5/7/2007 8:21	3950	16.239	61.1528
5/7/2007 8:31	3960	16.243	61.151
5/7/2007 8:41	3970	16.238	61.151
5/7/2007 8:51	3980	16.23	61.151
5/7/2007 9:01	3990	16.232	61.1492
5/7/2007 9:11	4000	16.222	61.1474
5/7/2007 9:21	4010	16.233	61.151

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/7/2007 9:31	4020	16.223	61.1474
5/7/2007 9:41	4030	16.217	61.1474
5/7/2007 9:51	4040	16.218	61.1474
5/7/2007 10:01	4050	16.216	61.1492
5/7/2007 10:11	4060	16.223	61.1546
5/7/2007 10:21	4070	16.208	61.1474
5/7/2007 10:31	4080	16.225	61.1528
5/7/2007 10:41	4090	16.217	61.1528
5/7/2007 10:51	4100	16.217	61.1492
5/7/2007 11:01	4110	16.209	61.1456
5/7/2007 11:11	4120	16.197	61.1456
5/7/2007 11:21	4130	16.208	61.1492
5/7/2007 11:31	4140	16.206	61.151
5/7/2007 11:41	4150	16.205	61.1528
5/7/2007 11:51	4160	16.193	61.1474
5/7/2007 12:01	4170	16.201	61.1528
5/7/2007 12:11	4180	16.188	61.1528
5/7/2007 12:21	4190	16.192	61.1438
5/7/2007 12:31	4200	16.193	61.1456
5/7/2007 12:41	4210	16.195	61.151
5/7/2007 12:51	4220	16.19	61.1528
5/7/2007 13:01	4230	16.175	61.1474
5/7/2007 13:11	4240	16.188	61.1456
5/7/2007 13:21	4250	16.184	61.1474
5/7/2007 13:31	4260	16.177	61.1546
5/7/2007 13:41	4270	16.169	61.1492
5/7/2007 13:51	4280	16.169	61.1438
5/7/2007 14:01	4290	16.162	61.1456
5/7/2007 14:11	4300	16.17	61.1456
5/7/2007 14:21	4310	16.389	61.1528
5/7/2007 14:31	4320	16.479	61.1528
5/7/2007 14:41	4330	16.563	61.151
5/7/2007 14:51	4340	16.622	61.1564
5/7/2007 15:01	4350	16.664	61.151
5/7/2007 15:11	4360	16.708	61.1546
5/7/2007 15:21	4370	16.752	61.1564
5/7/2007 15:31	4380	16.793	61.1582
5/7/2007 15:41	4390	16.832	61.1564
5/7/2007 15:51	4400	16.852	61.1492
5/7/2007 16:01	4410	16.897	61.151
5/7/2007 16:11	4420	16.921	61.151
5/7/2007 16:21	4430	16.938	61.1564
5/7/2007 16:31	4440	16.97	61.1528
5/7/2007 16:41	4450	16.997	61.1474
5/7/2007 16:51	4460	17.02	61.151
5/7/2007 17:01	4470	17.045	61.151
5/7/2007 17:11	4480	17.055	61.1492
5/7/2007 17:21	4490	17.086	61.1474
5/7/2007 17:31	4500	17.097	61.1492
5/7/2007 17:41	4510	17.115	61.1474
5/7/2007 17:51	4520	17.148	61.1546
5/7/2007 18:01	4530	17.159	61.1474
5/7/2007 18:11	4540	17.173	61.1474
5/7/2007 18:21	4550	17.189	61.1492
5/7/2007 18:31	4560	17.216	61.1456
5/7/2007 18:41	4570	17.235	61.1474
5/7/2007 18:51	4580	17.24	61.1456
5/7/2007 19:01	4590	17.256	61.1456
5/7/2007 19:11	4600	17.28	61.1492
5/7/2007 19:21	4610	17.294	61.1492
5/7/2007 19:31	4620	17.309	61.1438
5/7/2007 19:41	4630	17.322	61.1438
5/7/2007 19:51	4640	17.333	61.151
5/7/2007 20:01	4650	17.356	61.1492
5/7/2007 20:11	4660	17.368	61.151
5/7/2007 20:21	4670	17.384	61.1474
5/7/2007 20:31	4680	17.398	61.1474

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/7/2007 20:41	4690	17.412	61.1492
5/7/2007 20:51	4700	17.434	61.1492
5/7/2007 21:01	4710	17.427	61.142
5/7/2007 21:11	4720	17.452	61.142
5/7/2007 21:21	4730	17.456	61.1438
5/7/2007 21:31	4740	17.465	61.142
5/7/2007 21:41	4750	17.487	61.1438
5/7/2007 21:51	4760	17.488	61.1456
5/7/2007 22:01	4770	17.51	61.1456
5/7/2007 22:11	4780	17.512	61.1456
5/7/2007 22:21	4790	17.519	61.1474
5/7/2007 22:31	4800	17.54	61.1456
5/7/2007 22:41	4810	17.553	61.1456
5/7/2007 22:51	4820	17.561	61.1438
5/7/2007 23:01	4830	17.565	61.1438
5/7/2007 23:11	4840	17.581	61.142
5/7/2007 23:21	4850	17.586	61.1456
5/7/2007 23:31	4860	17.6	61.142
5/7/2007 23:41	4870	17.613	61.1474
5/7/2007 23:51	4880	17.621	61.1456
5/8/2007 0:01	4890	17.633	61.1456
5/8/2007 0:11	4900	17.644	61.1402
5/8/2007 0:21	4910	17.65	61.1456
5/8/2007 0:31	4920	17.665	61.1456
5/8/2007 0:41	4930	17.67	61.1456
5/8/2007 0:51	4940	17.668	61.1438
5/8/2007 1:01	4950	17.689	61.1456
5/8/2007 1:11	4960	17.695	61.1456
5/8/2007 1:21	4970	17.702	61.142
5/8/2007 1:31	4980	17.715	61.1456
5/8/2007 1:41	4990	17.723	61.1456
5/8/2007 1:51	5000	17.722	61.1402
5/8/2007 2:01	5010	17.739	61.1402
5/8/2007 2:11	5020	17.741	61.1456
5/8/2007 2:21	5030	17.75	61.142
5/8/2007 2:31	5040	17.757	61.1384
5/8/2007 2:41	5050	17.773	61.1438
5/8/2007 2:51	5060	17.785	61.142
5/8/2007 3:01	5070	17.788	61.142
5/8/2007 3:11	5080	17.799	61.142
5/8/2007 3:21	5090	17.805	61.1348
5/8/2007 3:31	5100	17.816	61.1438
5/8/2007 3:41	5110	17.822	61.1366
5/8/2007 3:51	5120	17.82	61.1348
5/8/2007 4:01	5130	17.837	61.1402
5/8/2007 4:11	5140	17.84	61.1402
5/8/2007 4:21	5150	17.845	61.1438
5/8/2007 4:31	5160	17.853	61.1438
5/8/2007 4:41	5170	17.864	61.142
5/8/2007 4:51	5180	17.882	61.1366
5/8/2007 5:01	5190	17.875	61.1384
5/8/2007 5:11	5200	17.89	61.1402
5/8/2007 5:21	5210	17.889	61.1384
5/8/2007 5:31	5220	17.893	61.1384
5/8/2007 5:41	5230	17.908	61.1402
5/8/2007 5:51	5240	17.91	61.1366
5/8/2007 6:01	5250	17.928	61.1384
5/8/2007 6:11	5260	17.943	61.1438
5/8/2007 6:21	5270	17.942	61.1366
5/8/2007 6:31	5280	17.952	61.1456
5/8/2007 6:41	5290	17.947	61.1366
5/8/2007 6:51	5300	17.95	61.1384
5/8/2007 7:01	5310	17.96	61.1384
5/8/2007 7:11	5320	17.968	61.1348
5/8/2007 7:21	5330	17.982	61.1348
5/8/2007 7:31	5340	17.991	61.1294
5/8/2007 7:41	5350	17.99	61.1348



**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/8/2007 7:51	5360	18.004	61.1348
5/8/2007 8:01	5370	18.008	61.133
5/8/2007 8:11	5380	18.011	61.1384
5/8/2007 8:21	5390	18.011	61.1366
5/8/2007 8:31	5400	18.029	61.1384
5/8/2007 8:41	5410	18.024	61.1384
5/8/2007 8:51	5420	18.04	61.1366
5/8/2007 9:01	5430	18.049	61.133
5/8/2007 9:11	5440	18.042	61.142
5/8/2007 9:21	5450	18.049	61.1366
5/8/2007 9:31	5460	18.07	61.1348
5/8/2007 9:41	5470	18.072	61.1312
5/8/2007 9:51	5480	18.076	61.133
5/8/2007 10:01	5490	18.08	61.1384
5/8/2007 10:11	5500	18.084	61.1348
5/8/2007 10:21	5510	18.083	61.1348
5/8/2007 10:31	5520	18.096	61.1366
5/8/2007 10:41	5530	18.105	61.1312
5/8/2007 10:51	5540	18.108	61.1312
5/8/2007 11:01	5550	18.116	61.1312
5/8/2007 11:11	5560	18.117	61.1258
5/8/2007 11:21	5570	18.124	61.133
5/8/2007 11:31	5580	18.132	61.133
5/8/2007 11:41	5590	18.132	61.133
5/8/2007 11:51	5600	18.144	61.133
5/8/2007 12:01	5610	18.142	61.1348
5/8/2007 12:11	5620	18.148	61.1294
5/8/2007 12:21	5630	18.155	61.1312
5/8/2007 12:31	5640	18.152	61.1348
5/8/2007 12:41	5650	18.157	61.1312
5/8/2007 12:51	5660	18.176	61.133
5/8/2007 13:01	5670	18.172	61.133
5/8/2007 13:11	5680	18.181	61.1276
5/8/2007 13:21	5690	18.186	61.1258
5/8/2007 13:31	5700	18.191	61.1276
5/8/2007 13:41	5710	18.204	61.1312
5/8/2007 13:51	5720	18.201	61.1294
5/8/2007 14:01	5730	18.197	61.1384
5/8/2007 14:11	5740	18.208	61.1312
5/8/2007 14:21	5750	18.21	61.1294
5/8/2007 14:31	5760	18.217	61.1276
5/8/2007 14:41	5770	18.225	61.1312
5/8/2007 14:51	5780	18.22	61.1294
5/8/2007 15:01	5790	18.234	61.1312
5/8/2007 15:11	5800	18.239	61.1312
5/8/2007 15:21	5810	18.233	61.133
5/8/2007 15:31	5820	18.249	61.1312
5/8/2007 15:41	5830	18.242	61.1294
5/8/2007 15:51	5840	18.248	61.124
5/8/2007 16:01	5850	18.26	61.1276
5/8/2007 16:11	5860	18.26	61.1258
5/8/2007 16:21	5870	18.273	61.1258
5/8/2007 16:31	5880	18.269	61.1294
5/8/2007 16:41	5890	18.292	61.1294
5/8/2007 16:51	5900	18.289	61.1312
5/8/2007 17:01	5910	18.292	61.1294
5/8/2007 17:11	5920	18.299	61.1258
5/8/2007 17:21	5930	18.304	61.1276
5/8/2007 17:31	5940	18.307	61.1276
5/8/2007 17:41	5950	18.319	61.1294
5/8/2007 17:51	5960	18.314	61.124
5/8/2007 18:01	5970	18.321	61.1258
5/8/2007 18:11	5980	18.324	61.124
5/8/2007 18:21	5990	18.335	61.124
5/8/2007 18:31	6000	18.327	61.1294
5/8/2007 18:41	6010	18.345	61.1312
5/8/2007 18:51	6020	18.346	61.1294

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/8/2007 19:01	6030	18.349	61.124
5/8/2007 19:11	6040	18.355	61.124
5/8/2007 19:21	6050	18.349	61.1294
5/8/2007 19:31	6060	18.363	61.1276
5/8/2007 19:41	6070	18.368	61.1258
5/8/2007 19:51	6080	18.375	61.1258
5/8/2007 20:01	6090	18.376	61.1276
5/8/2007 20:11	6100	18.383	61.124
5/8/2007 20:21	6110	18.387	61.124
5/8/2007 20:31	6120	18.391	61.1258
5/8/2007 20:41	6130	18.396	61.1276
5/8/2007 20:51	6140	18.394	61.1222
5/8/2007 21:01	6150	18.405	61.1258
5/8/2007 21:11	6160	18.414	61.1312
5/8/2007 21:21	6170	18.417	61.1258
5/8/2007 21:31	6180	18.428	61.124
5/8/2007 21:41	6190	18.421	61.1204
5/8/2007 21:51	6200	18.421	61.124
5/8/2007 22:01	6210	18.424	61.1258
5/8/2007 22:11	6220	18.439	61.1258
5/8/2007 22:21	6230	18.444	61.1276
5/8/2007 22:31	6240	18.446	61.124
5/8/2007 22:41	6250	18.448	61.1258
5/8/2007 22:51	6260	18.446	61.1204
5/8/2007 23:01	6270	18.459	61.1258
5/8/2007 23:11	6280	18.465	61.1222
5/8/2007 23:21	6290	18.457	61.1312
5/8/2007 23:31	6300	18.468	61.1222
5/8/2007 23:41	6310	18.467	61.1258
5/8/2007 23:51	6320	18.484	61.124
5/9/2007 0:01	6330	18.488	61.1186
5/9/2007 0:11	6340	18.482	61.1222
5/9/2007 0:21	6350	18.496	61.124
5/9/2007 0:31	6360	18.488	61.1276
5/9/2007 0:41	6370	18.503	61.124
5/9/2007 0:51	6380	18.505	61.1222
5/9/2007 1:01	6390	18.517	61.124
5/9/2007 1:11	6400	18.518	61.1204
5/9/2007 1:21	6410	18.522	61.124
5/9/2007 1:31	6420	18.527	61.1222
5/9/2007 1:41	6430	18.529	61.1204
5/9/2007 1:51	6440	18.527	61.1294
5/9/2007 2:01	6450	18.528	61.124
5/9/2007 2:11	6460	18.542	61.124
5/9/2007 2:21	6470	18.55	61.1204
5/9/2007 2:31	6480	18.554	61.1204
5/9/2007 2:41	6490	18.553	61.124
5/9/2007 2:51	6500	18.56	61.1222
5/9/2007 3:01	6510	18.565	61.1222
5/9/2007 3:11	6520	18.569	61.124
5/9/2007 3:21	6530	18.571	61.124
5/9/2007 3:31	6540	18.568	61.1186
5/9/2007 3:41	6550	18.582	61.1222
5/9/2007 3:51	6560	18.575	61.1186
5/9/2007 4:01	6570	18.582	61.1222
5/9/2007 4:11	6580	18.59	61.1204
5/9/2007 4:21	6590	18.602	61.1186
5/9/2007 4:31	6600	18.591	61.124
5/9/2007 4:41	6610	18.607	61.124
5/9/2007 4:51	6620	18.609	61.1204
5/9/2007 5:01	6630	18.613	61.124
5/9/2007 5:11	6640	18.617	61.1204
5/9/2007 5:21	6650	18.61	61.1186
5/9/2007 5:31	6660	18.626	61.124
5/9/2007 5:41	6670	18.626	61.1204
5/9/2007 5:51	6680	18.63	61.1186
5/9/2007 6:01	6690	18.642	61.1222

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/9/2007 6:11	6700	18.633	61.124
5/9/2007 6:21	6710	18.642	61.1186
5/9/2007 6:31	6720	18.645	61.1186
5/9/2007 6:41	6730	18.649	61.124
5/9/2007 6:51	6740	18.651	61.1186
5/9/2007 7:01	6750	18.588	61.1168
5/9/2007 7:11	6760	18.619	61.1204
5/9/2007 7:21	6770	18.604	61.1168
5/9/2007 7:31	6780	18.473	61.115
5/9/2007 7:41	6790	18.365	61.115
5/9/2007 7:51	6800	18.456	61.1114
5/9/2007 8:01	6810	18.49	61.1168
5/9/2007 8:11	6820	18.523	61.115
5/9/2007 8:21	6830	18.544	61.1168
5/9/2007 8:31	6840	18.557	61.115
5/9/2007 8:41	6850	18.579	61.1114
5/9/2007 8:51	6860	18.591	61.1186
5/9/2007 9:01	6870	18.596	61.1168
5/9/2007 9:11	6880	18.596	61.1186
5/9/2007 9:21	6890	18.611	61.1186
5/9/2007 9:31	6900	18.622	61.1168
5/9/2007 9:41	6910	18.622	61.1168
5/9/2007 9:51	6920	18.635	61.1186
5/9/2007 10:01	6930	18.638	61.1168
5/9/2007 10:11	6940	18.641	61.1168
5/9/2007 10:21	6950	18.655	61.1168
5/9/2007 10:31	6960	18.664	61.1168
5/9/2007 10:41	6970	18.668	61.1168
5/9/2007 10:51	6980	18.674	61.1114
5/9/2007 11:01	6990	18.679	61.1132
5/9/2007 11:11	7000	18.694	61.1168
5/9/2007 11:21	7010	18.689	61.1168
5/9/2007 11:31	7020	18.689	61.1186
5/9/2007 11:41	7030	18.686	61.115
5/9/2007 11:51	7040	18.692	61.1168
5/9/2007 12:01	7050	18.713	61.1186
5/9/2007 12:11	7060	18.714	61.1096
5/9/2007 12:21	7070	18.717	61.1114
5/9/2007 12:31	7080	18.721	61.115
5/9/2007 12:41	7090	18.717	61.1132
5/9/2007 12:51	7100	18.725	61.1078
5/9/2007 13:01	7110	18.738	61.1168
5/9/2007 13:11	7120	18.729	61.1114
5/9/2007 13:21	7130	18.742	61.1132
5/9/2007 13:31	7140	18.742	61.1168
5/9/2007 13:41	7150	18.743	61.1168
5/9/2007 13:51	7160	18.75	61.1114
5/9/2007 14:01	7170	18.756	61.1114
5/9/2007 14:11	7180	18.758	61.1114
5/9/2007 14:21	7190	18.765	61.1132
5/9/2007 14:31	7200	18.766	61.1132
5/9/2007 14:41	7210	18.768	61.1132
5/9/2007 14:51	7220	18.759	61.1168
5/9/2007 15:01	7230	18.776	61.1114
5/9/2007 15:11	7240	18.78	61.1114
5/9/2007 15:21	7250	18.779	61.1168
5/9/2007 15:31	7260	18.784	61.115
5/9/2007 15:41	7270	18.79	61.1132
5/9/2007 15:51	7280	18.793	61.1186
5/9/2007 16:01	7290	18.804	61.1078
5/9/2007 16:11	7300	18.796	61.1096
5/9/2007 16:21	7310	18.801	61.1132
5/9/2007 16:31	7320	18.794	61.1114
5/9/2007 16:41	7330	18.807	61.1114
5/9/2007 16:51	7340	18.807	61.1114
5/9/2007 17:01	7350	18.812	61.1096
5/9/2007 17:11	7360	18.816	61.106

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108481	SN#: 108481
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/9/2007 17:21	7370	18.813	61.1096
5/9/2007 17:31	7380	18.82	61.115
5/9/2007 17:41	7390	18.826	61.1096
5/9/2007 17:51	7400	18.827	61.115
5/9/2007 18:01	7410	18.824	61.1114
5/9/2007 18:11	7420	18.836	61.1114
5/9/2007 18:21	7430	18.83	61.1114
5/9/2007 18:31	7440	18.85	61.1096
5/9/2007 18:41	7450	18.856	61.1132
5/9/2007 18:51	7460	18.853	61.1114
5/9/2007 19:01	7470	18.852	61.106
5/9/2007 19:11	7480	18.855	61.1114
5/9/2007 19:21	7490	18.86	61.1114
5/9/2007 19:31	7500	18.855	61.1096
5/9/2007 19:41	7510	18.864	61.1096
5/9/2007 19:51	7520	18.867	61.1078
5/9/2007 20:01	7530	18.868	61.1114
5/9/2007 20:11	7540	18.873	61.1042
5/9/2007 20:21	7550	18.877	61.1078
5/9/2007 20:31	7560	18.881	61.1114
5/9/2007 20:41	7570	18.884	61.1078
5/9/2007 20:51	7580	18.882	61.1114
5/9/2007 21:01	7590	18.889	61.1096
5/9/2007 21:11	7600	18.894	61.1096
5/9/2007 21:21	7610	18.896	61.106
5/9/2007 21:31	7620	18.894	61.106
5/9/2007 21:41	7630	18.897	61.1078
5/9/2007 21:51	7640	18.906	61.106
5/9/2007 22:01	7650	18.916	61.106
5/9/2007 22:11	7660	18.909	61.1078
5/9/2007 22:21	7670	18.908	61.1042
5/9/2007 22:31	7680	18.913	61.1042
5/9/2007 22:41	7690	18.92	61.106
5/9/2007 22:51	7700	18.919	61.1042
5/9/2007 23:01	7710	18.921	61.1078
5/9/2007 23:11	7720	18.926	61.1042
5/9/2007 23:21	7730	18.926	61.106
5/9/2007 23:31	7740	18.939	61.1042
5/9/2007 23:41	7750	18.925	61.1114
5/9/2007 23:51	7760	18.935	61.1042
5/10/2007 0:01	7770	18.936	61.1096
5/10/2007 0:11	7780	18.94	61.1042
5/10/2007 0:21	7790	18.943	61.1096
5/10/2007 0:31	7800	18.945	61.1042
5/10/2007 0:41	7810	18.948	61.1078
5/10/2007 0:51	7820	18.952	61.1042
5/10/2007 1:01	7830	18.958	61.106
5/10/2007 1:11	7840	18.965	61.1078
5/10/2007 1:21	7850	18.961	61.1042
5/10/2007 1:31	7860	18.964	61.106
5/10/2007 1:41	7870	18.958	61.1078
5/10/2007 1:51	7880	18.967	61.1042
5/10/2007 2:01	7890	18.969	61.1078
5/10/2007 2:11	7900	18.971	61.1042
5/10/2007 2:21	7910	18.978	61.1042
5/10/2007 2:31	7920	18.979	61.106
5/10/2007 2:41	7930	18.991	61.1042
5/10/2007 2:51	7940	18.986	61.1042
5/10/2007 3:01	7950	18.986	61.1042
5/10/2007 3:11	7960	18.996	61.1006
5/10/2007 3:21	7970	18.984	61.106
5/10/2007 3:31	7980	18.992	61.1096
5/10/2007 3:41	7990	18.995	61.1024
5/10/2007 3:51	8000	18.986	61.106
5/10/2007 4:01	8010	18.997	61.1024
5/10/2007 4:11	8020	19.008	61.0988
5/10/2007 4:21	8030	18.996	61.1042

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108481	SN#: 108481
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/10/2007 4:31	8040	19.005	61.106
5/10/2007 4:41	8050	19.009	61.1078
5/10/2007 4:51	8060	19.013	61.106
5/10/2007 5:01	8070	19.024	61.1042
5/10/2007 5:11	8080	19.014	61.1042
5/10/2007 5:21	8090	19.01	61.1024
5/10/2007 5:31	8100	19.022	61.106
5/10/2007 5:41	8110	19.019	61.1042
5/10/2007 5:51	8120	19.026	61.1042
5/10/2007 6:01	8130	19.028	61.1024
5/10/2007 6:11	8140	19.037	61.1024
5/10/2007 6:21	8150	19.03	61.106
5/10/2007 6:31	8160	19.038	61.097
5/10/2007 6:41	8170	19.035	61.1042
5/10/2007 6:51	8180	19.046	61.1042
5/10/2007 7:01	8190	19.039	61.1024
5/10/2007 7:11	8200	19.03	61.1078
5/10/2007 7:21	8210	19.042	61.1006
5/10/2007 7:31	8220	19.043	61.1006
5/10/2007 7:41	8230	19.052	61.097
5/10/2007 7:51	8240	19.048	61.0988
5/10/2007 8:01	8250	19.051	61.1024
5/10/2007 8:11	8260	19.054	61.1006
5/10/2007 8:21	8270	19.064	61.1024
5/10/2007 8:31	8280	19.048	61.1042
5/10/2007 8:41	8290	19.06	61.1006
5/10/2007 8:51	8300	19.069	61.1042
5/10/2007 9:01	8310	19.076	61.1078
5/10/2007 9:11	8320	19.064	61.1042
5/10/2007 9:21	8330	19.075	61.0988
5/10/2007 9:31	8340	19.071	61.1006
5/10/2007 9:41	8350	19.073	61.1006
5/10/2007 9:51	8360	19.081	61.0988
5/10/2007 10:01	8370	19.075	61.097
5/10/2007 10:11	8380	19.077	61.1024
5/10/2007 10:21	8390	19.066	61.1006
5/10/2007 10:31	8400	19.083	61.0988
5/10/2007 10:41	8410	19.079	61.0934
5/10/2007 10:51	8420	19.084	61.097
5/10/2007 11:01	8430	19.085	61.097
5/10/2007 11:11	8440	19.085	61.1006
5/10/2007 11:21	8450	19.09	61.1024
5/10/2007 11:31	8460	19.085	61.1024
5/10/2007 11:41	8470	19.09	61.0988
5/10/2007 11:51	8480	19.09	61.0988
5/10/2007 12:01	8490	19.094	61.1006
5/10/2007 12:11	8500	19.097	61.097
5/10/2007 12:21	8510	19.101	61.1006
5/10/2007 12:31	8520	19.098	61.1006
5/10/2007 12:41	8530	19.1	61.097
5/10/2007 12:51	8540	19.106	61.097
5/10/2007 13:01	8550	19.107	61.1024
5/10/2007 13:11	8560	19.106	61.097
5/10/2007 13:21	8570	19.108	61.0952
5/10/2007 13:31	8580	19.113	61.097
5/10/2007 13:41	8590	19.11	61.097
5/10/2007 13:51	8600	19.113	61.0988
5/10/2007 14:01	8610	19.124	61.0952
5/10/2007 14:11	8620	19.119	61.1024
5/10/2007 14:21	8630	19.111	61.097
5/10/2007 14:31	8640	19.122	61.0988
5/10/2007 14:41	8650	19.12	61.097
5/10/2007 14:51	8660	19.127	61.097
5/10/2007 15:01	8670	19.139	61.0952
5/10/2007 15:11	8680	19.122	61.0952
5/10/2007 15:21	8690	19.131	61.0934
5/10/2007 15:31	8700	19.133	61.0988

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108481 Level-DTW (ft)	SN#: 108481 Temperature (F)
5/10/2007 15:41	8710	19.142	61.0916
5/10/2007 15:51	8720	19.148	61.0952
5/10/2007 16:01	8730	19.141	61.0952
5/10/2007 16:11	8740	19.142	61.0952
5/10/2007 16:21	8750	19.147	61.097
5/10/2007 16:31	8760	19.144	61.097
5/10/2007 16:41	8770	19.145	61.0916
5/10/2007 16:51	8780	19.148	61.0952
5/10/2007 17:01	8790	19.158	61.097
5/10/2007 17:11	8800	19.152	61.0916
5/10/2007 17:21	8810	19.168	61.0988
5/10/2007 17:31	8820	19.162	61.0952
5/10/2007 17:41	8830	19.157	61.097
5/10/2007 17:51	8840	19.161	61.0916
5/10/2007 18:01	8850	19.162	61.0952
5/10/2007 18:11	8860	19.164	61.0934
5/10/2007 18:21	8870	19.16	61.0916
5/10/2007 18:31	8880	19.175	61.0916
5/10/2007 18:41	8890	19.177	61.0898
5/10/2007 18:51	8900	19.173	61.097
5/10/2007 19:01	8910	19.178	61.088
5/10/2007 19:11	8920	19.194	61.0934
5/10/2007 19:21	8930	19.185	61.0916
5/10/2007 19:31	8940	19.188	61.0934
5/10/2007 19:41	8950	18.979	61.0934
5/10/2007 19:51	8960	18.872	61.0862
5/10/2007 20:01	8970	18.781	61.0844
5/10/2007 20:11	8980	18.696	61.0844
5/10/2007 20:21	8990	18.635	61.0826
5/10/2007 20:31	9000	18.577	61.0826
5/10/2007 20:41	9010	18.523	61.0826
5/10/2007 20:51	9020	18.671	61.0862
5/10/2007 21:01	9030	18.719	61.0898
5/10/2007 21:11	9040	18.774	61.0862
5/10/2007 21:21	9050	18.797	61.0916
5/10/2007 21:31	9060	18.826	61.0934
5/10/2007 21:41	9070	18.847	61.0916
5/10/2007 21:51	9080	18.856	61.0934
5/10/2007 22:01	9090	18.884	61.0898
5/10/2007 22:11	9100	18.891	61.0952
5/10/2007 22:21	9110	18.913	61.0862
5/10/2007 22:31	9120	18.936	61.0934
5/10/2007 22:41	9130	18.936	61.0988
5/10/2007 22:51	9140	18.952	61.0898
5/10/2007 23:01	9150	18.951	61.0952
5/10/2007 23:11	9160	18.965	61.0862
5/10/2007 23:21	9170	18.972	61.0916
5/10/2007 23:31	9180	18.968	61.0844
5/10/2007 23:41	9190	18.981	61.0844
5/10/2007 23:51	9200	18.978	61.088
5/11/2007 0:01	9210	18.983	61.0916
5/11/2007 0:11	9220	18.994	61.0916
5/11/2007 0:21	9230	18.991	61.0916
5/11/2007 0:31	9240	18.99	61.088
5/11/2007 0:41	9250	18.996	61.0916
5/11/2007 0:51	9260	18.995	61.0916
5/11/2007 1:01	9270	19.002	61.0898
5/11/2007 1:11	9280	19.002	61.0916
5/11/2007 1:21	9290	19.016	61.0898
5/11/2007 1:31	9300	19.005	61.0862
5/11/2007 1:41	9310	19.007	61.088
5/11/2007 1:51	9320	19.016	61.088
5/11/2007 2:01	9330	19.01	61.0916
5/11/2007 2:11	9340	19.021	61.088
5/11/2007 2:21	9350	19.016	61.0898
5/11/2007 2:31	9360	19.014	61.0862
5/11/2007 2:41	9370	19.006	61.0898

**MW-37D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108481	SN#: 108481
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/11/2007 2:51	9380	19.014	61.0934
5/11/2007 3:01	9390	19.027	61.0862
5/11/2007 3:11	9400	19.022	61.0898
5/11/2007 3:21	9410	19.018	61.0916
5/11/2007 3:31	9420	19.021	61.0934
5/11/2007 3:41	9430	19.028	61.0916
5/11/2007 3:51	9440	19.033	61.0934
5/11/2007 4:01	9450	19.02	61.0844
5/11/2007 4:11	9460	19.022	61.0826
5/11/2007 4:21	9470	19.022	61.088
5/11/2007 4:31	9480	19.021	61.0826
5/11/2007 4:41	9490	19.025	61.088
5/11/2007 4:51	9500	19.025	61.0862
5/11/2007 5:01	9510	19.024	61.0844
5/11/2007 5:11	9520	19.031	61.0826
5/11/2007 5:21	9530	19.023	61.0862
5/11/2007 5:31	9540	19.032	61.088
5/11/2007 5:41	9550	19.034	61.0862
5/11/2007 5:51	9560	19.032	61.0898
5/11/2007 6:01	9570	19.044	61.0862
5/11/2007 6:11	9580	19.038	61.0844
5/11/2007 6:21	9590	19.047	61.0844
5/11/2007 6:31	9600	19.037	61.0898
5/11/2007 6:41	9610	19.038	61.0826
5/11/2007 6:51	9620	19.043	61.0808
5/11/2007 7:01	9630	19.042	61.0844
5/11/2007 7:11	9640	19.042	61.0826
5/11/2007 7:21	9650	19.041	61.0862
5/11/2007 7:31	9660	19.045	61.0844
5/11/2007 7:41	9670	19.046	61.0844
5/11/2007 7:51	9680	19.044	61.0862
5/11/2007 8:01	9690	19.049	61.0826
5/11/2007 8:11	9700	19.049	61.0826
5/11/2007 8:21	9710	19.049	61.0826
5/11/2007 8:31	9720	19.05	61.0862
5/11/2007 8:41	9730	19.045	61.0862
5/11/2007 8:51	9740	19.055	61.0826
5/11/2007 9:01	9750	19.053	61.0844
5/11/2007 9:11	9760	19.055	61.0826
5/11/2007 9:21	9770	19.059	61.0826
5/11/2007 9:31	9780	19.057	61.0826
5/11/2007 9:41	9790	19.061	61.0862
5/11/2007 9:51	9800	19.063	61.0844
5/11/2007 10:01	9810	19.061	61.0754
5/11/2007 10:11	9820	19.065	61.0826
5/11/2007 10:21	9830	19.062	61.0808
5/11/2007 10:31	9840	19.066	61.0808
5/11/2007 10:41	9850	19.069	61.0862
5/11/2007 10:51	9860	19.074	61.0808
5/11/2007 11:01	9870	19.077	61.0826
5/11/2007 11:11	9880	19.071	61.0826
5/11/2007 11:21	9890	19.083	61.0808
5/11/2007 11:31	9900	19.076	61.0808

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/4/2007 14:23	0	19.878	61.938
5/4/2007 14:33	10	19.832	60.885
5/4/2007 14:43	20	19.785	60.761
5/4/2007 14:53	30	19.764	60.731
5/4/2007 15:03	40	19.719	60.713
5/4/2007 15:13	50	19.687	60.701
5/4/2007 15:23	60	19.665	60.691
5/4/2007 15:33	70	19.625	60.692
5/4/2007 15:43	80	19.612	60.68
5/4/2007 15:53	90	19.576	60.685
5/4/2007 16:03	100	19.554	60.68
5/4/2007 16:13	110	19.538	60.678
5/4/2007 16:23	120	19.515	60.681
5/4/2007 16:33	130	19.497	60.675
5/4/2007 16:43	140	19.475	60.678
5/4/2007 16:53	150	19.453	60.675
5/4/2007 17:03	160	19.436	60.668
5/4/2007 17:13	170	19.42	60.67
5/4/2007 17:23	180	19.394	60.676
5/4/2007 17:33	190	19.386	60.672
5/4/2007 17:43	200	19.375	60.673
5/4/2007 17:53	210	19.356	60.67
5/4/2007 18:03	220	19.34	60.671
5/4/2007 18:13	230	19.329	60.672
5/4/2007 18:23	240	19.315	60.669
5/4/2007 18:33	250	19.293	60.671
5/4/2007 18:43	260	19.29	60.666
5/4/2007 18:53	270	19.275	60.669
5/4/2007 19:03	280	19.262	60.667
5/4/2007 19:13	290	19.254	60.668
5/4/2007 19:23	300	19.245	60.67
5/4/2007 19:33	310	19.224	60.667
5/4/2007 19:43	320	19.212	60.669
5/4/2007 19:53	330	19.202	60.67
5/4/2007 20:03	340	19.2	60.672
5/4/2007 20:13	350	19.188	60.668
5/4/2007 20:23	360	19.181	60.666
5/4/2007 20:33	370	19.172	60.667
5/4/2007 20:43	380	19.16	60.671
5/4/2007 20:53	390	19.152	60.664
5/4/2007 21:03	400	19.144	60.667
5/4/2007 21:13	410	19.133	60.672
5/4/2007 21:23	420	19.126	60.664
5/4/2007 21:33	430	19.116	60.663
5/4/2007 21:43	440	19.109	60.665
5/4/2007 21:53	450	19.1	60.664
5/4/2007 22:03	460	19.083	60.668
5/4/2007 22:13	470	19.087	60.666
5/4/2007 22:23	480	19.075	60.667
5/4/2007 22:33	490	19.068	60.665
5/4/2007 22:43	500	19.061	60.665
5/4/2007 22:53	510	19.053	60.661
5/4/2007 23:03	520	19.044	60.665
5/4/2007 23:13	530	19.037	60.669
5/4/2007 23:23	540	19.031	60.666
5/4/2007 23:33	550	19.027	60.669
5/4/2007 23:43	560	19.017	60.662
5/4/2007 23:53	570	19.013	60.665
5/5/2007 0:03	580	19.004	60.665
5/5/2007 0:13	590	18.996	60.662
5/5/2007 0:23	600	18.992	60.662
5/5/2007 0:33	610	18.982	60.664
5/5/2007 0:43	620	18.975	60.661
5/5/2007 0:53	630	18.969	60.661
5/5/2007 1:03	640	18.965	60.662
5/5/2007 1:13	650	18.949	60.663
5/5/2007 1:23	660	18.948	60.66



**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/5/2007 1:33	670	18.945	60.659
5/5/2007 1:43	680	18.927	60.667
5/5/2007 1:53	690	18.933	60.661
5/5/2007 2:03	700	18.924	60.661
5/5/2007 2:13	710	18.919	60.659
5/5/2007 2:23	720	18.912	60.659
5/5/2007 2:33	730	18.908	60.665
5/5/2007 2:43	740	18.896	60.655
5/5/2007 2:53	750	18.894	60.662
5/5/2007 3:03	760	18.888	60.663
5/5/2007 3:13	770	18.883	60.657
5/5/2007 3:23	780	18.875	60.661
5/5/2007 3:33	790	18.87	60.658
5/5/2007 3:43	800	18.863	60.663
5/5/2007 3:53	810	18.859	60.658
5/5/2007 4:03	820	18.853	60.662
5/5/2007 4:13	830	18.839	60.658
5/5/2007 4:23	840	18.84	60.658
5/5/2007 4:33	850	18.836	60.656
5/5/2007 4:43	860	18.832	60.656
5/5/2007 4:53	870	18.821	60.663
5/5/2007 5:03	880	18.819	60.66
5/5/2007 5:13	890	18.809	60.654
5/5/2007 5:23	900	18.804	60.659
5/5/2007 5:33	910	18.799	60.654
5/5/2007 5:43	920	18.795	60.657
5/5/2007 5:53	930	18.788	60.661
5/5/2007 6:03	940	18.787	60.655
5/5/2007 6:13	950	18.778	60.653
5/5/2007 6:23	960	18.775	60.656
5/5/2007 6:33	970	18.771	60.656
5/5/2007 6:43	980	18.763	60.656
5/5/2007 6:53	990	18.759	60.66
5/5/2007 7:03	1000	18.753	60.651
5/5/2007 7:13	1010	18.748	60.655
5/5/2007 7:23	1020	18.748	60.655
5/5/2007 7:33	1030	18.732	60.653
5/5/2007 7:43	1040	18.732	60.653
5/5/2007 7:53	1050	18.723	60.657
5/5/2007 8:03	1060	18.721	60.659
5/5/2007 8:13	1070	18.72	60.655
5/5/2007 8:23	1080	18.711	60.655
5/5/2007 8:33	1090	18.708	60.654
5/5/2007 8:43	1100	18.7	60.656
5/5/2007 8:53	1110	18.698	60.652
5/5/2007 9:03	1120	18.692	60.652
5/5/2007 9:13	1130	18.685	60.657
5/5/2007 9:23	1140	18.68	60.655
5/5/2007 9:33	1150	18.683	60.654
5/5/2007 9:43	1160	18.671	60.652
5/5/2007 9:53	1170	18.673	60.654
5/5/2007 10:03	1180	18.659	60.655
5/5/2007 10:13	1190	18.653	60.653
5/5/2007 10:23	1200	18.651	60.655
5/5/2007 10:33	1210	18.644	60.652
5/5/2007 10:43	1220	18.637	60.652
5/5/2007 10:53	1230	18.635	60.657
5/5/2007 11:03	1240	18.632	60.649
5/5/2007 11:13	1250	18.627	60.65
5/5/2007 11:23	1260	18.618	60.653
5/5/2007 11:33	1270	18.618	60.651
5/5/2007 11:43	1280	18.611	60.653
5/5/2007 11:53	1290	18.617	60.65
5/5/2007 12:03	1300	18.599	60.652
5/5/2007 12:13	1310	18.598	60.649
5/5/2007 12:23	1320	18.59	60.652
5/5/2007 12:33	1330	18.586	60.654

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/5/2007 12:43	1340	18.584	60.653
5/5/2007 12:53	1350	18.579	60.656
5/5/2007 13:03	1360	18.571	60.653
5/5/2007 13:13	1370	18.569	60.65
5/5/2007 13:23	1380	18.567	60.656
5/5/2007 13:33	1390	18.569	60.649
5/5/2007 13:43	1400	18.558	60.652
5/5/2007 13:53	1410	18.553	60.651
5/5/2007 14:03	1420	18.549	60.657
5/5/2007 14:13	1430	18.544	60.65
5/5/2007 14:23	1440	18.544	60.652
5/5/2007 14:33	1450	18.536	60.649
5/5/2007 14:43	1460	18.534	60.65
5/5/2007 14:53	1470	18.53	60.649
5/5/2007 15:03	1480	18.534	60.647
5/5/2007 15:13	1490	18.528	60.65
5/5/2007 15:23	1500	18.509	60.648
5/5/2007 15:33	1510	18.509	60.646
5/5/2007 15:43	1520	18.507	60.645
5/5/2007 15:53	1530	18.502	60.648
5/5/2007 16:03	1540	18.501	60.648
5/5/2007 16:13	1550	18.495	60.649
5/5/2007 16:23	1560	18.491	60.643
5/5/2007 16:33	1570	18.485	60.649
5/5/2007 16:43	1580	18.477	60.648
5/5/2007 16:53	1590	18.48	60.649
5/5/2007 17:03	1600	18.477	60.65
5/5/2007 17:13	1610	18.473	60.646
5/5/2007 17:23	1620	18.465	60.642
5/5/2007 17:33	1630	18.467	60.643
5/5/2007 17:43	1640	18.462	60.642
5/5/2007 17:53	1650	18.457	60.645
5/5/2007 18:03	1660	18.455	60.646
5/5/2007 18:13	1670	18.45	60.648
5/5/2007 18:23	1680	18.445	60.646
5/5/2007 18:33	1690	18.444	60.646
5/5/2007 18:43	1700	18.443	60.646
5/5/2007 18:53	1710	18.44	60.646
5/5/2007 19:03	1720	18.434	60.645
5/5/2007 19:13	1730	18.429	60.642
5/5/2007 19:23	1740	18.432	60.645
5/5/2007 19:33	1750	18.423	60.646
5/5/2007 19:43	1760	18.424	60.647
5/5/2007 19:53	1770	18.419	60.646
5/5/2007 20:03	1780	18.413	60.645
5/5/2007 20:13	1790	18.411	60.647
5/5/2007 20:23	1800	18.418	60.643
5/5/2007 20:33	1810	18.404	60.642
5/5/2007 20:43	1820	18.402	60.644
5/5/2007 20:53	1830	18.401	60.646
5/5/2007 21:03	1840	18.398	60.642
5/5/2007 21:13	1850	18.399	60.642
5/5/2007 21:23	1860	18.398	60.641
5/5/2007 21:33	1870	18.39	60.641
5/5/2007 21:43	1880	18.389	60.643
5/5/2007 21:53	1890	18.396	60.641
5/5/2007 22:03	1900	18.38	60.641
5/5/2007 22:13	1910	18.379	60.639
5/5/2007 22:23	1920	18.376	60.645
5/5/2007 22:33	1930	18.375	60.643
5/5/2007 22:43	1940	18.371	60.642
5/5/2007 22:53	1950	18.369	60.643
5/5/2007 23:03	1960	18.369	60.646
5/5/2007 23:13	1970	18.366	60.643
5/5/2007 23:23	1980	18.362	60.643
5/5/2007 23:33	1990	18.356	60.644
5/5/2007 23:43	2000	18.355	60.638

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/5/2007 23:53	2010	18.357	60.64
5/6/2007 0:03	2020	18.349	60.642
5/6/2007 0:13	2030	18.359	60.641
5/6/2007 0:23	2040	18.345	60.638
5/6/2007 0:33	2050	18.343	60.643
5/6/2007 0:43	2060	18.34	60.644
5/6/2007 0:53	2070	18.34	60.638
5/6/2007 1:03	2080	18.333	60.644
5/6/2007 1:13	2090	18.332	60.643
5/6/2007 1:23	2100	18.326	60.638
5/6/2007 1:33	2110	18.327	60.639
5/6/2007 1:43	2120	18.325	60.637
5/6/2007 1:53	2130	18.323	60.637
5/6/2007 2:03	2140	18.319	60.641
5/6/2007 2:13	2150	18.316	60.642
5/6/2007 2:23	2160	18.313	60.639
5/6/2007 2:33	2170	18.309	60.639
5/6/2007 2:43	2180	18.311	60.645
5/6/2007 2:53	2190	18.307	60.639
5/6/2007 3:03	2200	18.303	60.639
5/6/2007 3:13	2210	18.3	60.637
5/6/2007 3:23	2220	18.3	60.638
5/6/2007 3:33	2230	18.297	60.637
5/6/2007 3:43	2240	18.302	60.638
5/6/2007 3:53	2250	18.29	60.633
5/6/2007 4:03	2260	18.291	60.636
5/6/2007 4:13	2270	18.285	60.637
5/6/2007 4:23	2280	18.293	60.637
5/6/2007 4:33	2290	18.283	60.637
5/6/2007 4:43	2300	18.277	60.639
5/6/2007 4:53	2310	18.278	60.637
5/6/2007 5:03	2320	18.273	60.641
5/6/2007 5:13	2330	18.268	60.637
5/6/2007 5:23	2340	18.273	60.633
5/6/2007 5:33	2350	18.264	60.632
5/6/2007 5:43	2360	18.262	60.636
5/6/2007 5:53	2370	18.264	60.633
5/6/2007 6:03	2380	18.26	60.634
5/6/2007 6:13	2390	18.258	60.632
5/6/2007 6:23	2400	18.256	60.637
5/6/2007 6:33	2410	18.26	60.636
5/6/2007 6:43	2420	18.251	60.634
5/6/2007 6:53	2430	18.244	60.634
5/6/2007 7:03	2440	18.254	60.633
5/6/2007 7:13	2450	18.246	60.639
5/6/2007 7:23	2460	18.237	60.638
5/6/2007 7:33	2470	18.235	60.633
5/6/2007 7:43	2480	18.236	60.637
5/6/2007 7:53	2490	18.232	60.628
5/6/2007 8:03	2500	18.228	60.635
5/6/2007 8:13	2510	18.225	60.632
5/6/2007 8:23	2520	18.223	60.633
5/6/2007 8:33	2530	18.219	60.633
5/6/2007 8:43	2540	18.215	60.631
5/6/2007 8:53	2550	18.214	60.633
5/6/2007 9:03	2560	18.214	60.638
5/6/2007 9:13	2570	18.212	60.636
5/6/2007 9:23	2580	18.207	60.632
5/6/2007 9:33	2590	18.204	60.635
5/6/2007 9:43	2600	18.203	60.629
5/6/2007 9:53	2610	18.202	60.633
5/6/2007 10:03	2620	18.195	60.632
5/6/2007 10:13	2630	18.194	60.629
5/6/2007 10:23	2640	18.202	60.631
5/6/2007 10:33	2650	18.189	60.632
5/6/2007 10:43	2660	18.19	60.632
5/6/2007 10:53	2670	18.183	60.633

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/6/2007 11:03	2680	18.183	60.632
5/6/2007 11:13	2690	18.178	60.633
5/6/2007 11:23	2700	18.181	60.635
5/6/2007 11:33	2710	18.182	60.629
5/6/2007 11:43	2720	18.169	60.627
5/6/2007 11:53	2730	18.166	60.633
5/6/2007 12:03	2740	18.163	60.628
5/6/2007 12:13	2750	18.176	60.635
5/6/2007 12:23	2760	18.174	60.63
5/6/2007 12:33	2770	18.163	60.63
5/6/2007 12:43	2780	18.157	60.631
5/6/2007 12:53	2790	18.159	60.628
5/6/2007 13:03	2800	18.154	60.629
5/6/2007 13:13	2810	18.151	60.629
5/6/2007 13:23	2820	18.148	60.629
5/6/2007 13:33	2830	18.146	60.632
5/6/2007 13:43	2840	18.148	60.627
5/6/2007 13:53	2850	18.144	60.63
5/6/2007 14:03	2860	18.134	60.63
5/6/2007 14:13	2870	18.14	60.626
5/6/2007 14:23	2880	18.132	60.629
5/6/2007 14:33	2890	18.131	60.629
5/6/2007 14:43	2900	18.13	60.633
5/6/2007 14:53	2910	18.128	60.627
5/6/2007 15:03	2920	18.123	60.632
5/6/2007 15:13	2930	18.124	60.629
5/6/2007 15:23	2940	18.122	60.625
5/6/2007 15:33	2950	18.122	60.623
5/6/2007 15:43	2960	18.12	60.627
5/6/2007 15:53	2970	18.122	60.627
5/6/2007 16:03	2980	18.118	60.631
5/6/2007 16:13	2990	18.113	60.627
5/6/2007 16:23	3000	18.108	60.625
5/6/2007 16:33	3010	18.107	60.627
5/6/2007 16:43	3020	18.11	60.627
5/6/2007 16:53	3030	18.105	60.631
5/6/2007 17:03	3040	18.105	60.624
5/6/2007 17:13	3050	18.102	60.627
5/6/2007 17:23	3060	18.101	60.624
5/6/2007 17:33	3070	18.096	60.627
5/6/2007 17:43	3080	18.095	60.627
5/6/2007 17:53	3090	18.104	60.625
5/6/2007 18:03	3100	18.09	60.625
5/6/2007 18:13	3110	18.09	60.628
5/6/2007 18:23	3120	18.097	60.624
5/6/2007 18:33	3130	18.088	60.624
5/6/2007 18:43	3140	18.092	60.628
5/6/2007 18:53	3150	18.087	60.625
5/6/2007 19:03	3160	18.082	60.622
5/6/2007 19:13	3170	18.08	60.627
5/6/2007 19:23	3180	18.078	60.626
5/6/2007 19:33	3190	18.078	60.622
5/6/2007 19:43	3200	18.075	60.619
5/6/2007 19:53	3210	18.081	60.622
5/6/2007 20:03	3220	18.075	60.624
5/6/2007 20:13	3230	18.071	60.622
5/6/2007 20:23	3240	18.074	60.621
5/6/2007 20:33	3250	18.07	60.621
5/6/2007 20:43	3260	18.07	60.623
5/6/2007 20:53	3270	18.067	60.619
5/6/2007 21:03	3280	18.065	60.624
5/6/2007 21:13	3290	18.063	60.62
5/6/2007 21:23	3300	18.063	60.621
5/6/2007 21:33	3310	18.06	60.621
5/6/2007 21:43	3320	18.066	60.62
5/6/2007 21:53	3330	18.054	60.626
5/6/2007 22:03	3340	18.061	60.623

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/6/2007 22:13	3350	18.062	60.62
5/6/2007 22:23	3360	18.052	60.619
5/6/2007 22:33	3370	18.05	60.62
5/6/2007 22:43	3380	18.054	60.619
5/6/2007 22:53	3390	18.045	60.62
5/6/2007 23:03	3400	18.061	60.62
5/6/2007 23:13	3410	18.052	60.626
5/6/2007 23:23	3420	18.042	60.621
5/6/2007 23:33	3430	18.043	60.617
5/6/2007 23:43	3440	18.04	60.621
5/6/2007 23:53	3450	18.037	60.621
5/7/2007 0:03	3460	18.047	60.62
5/7/2007 0:13	3470	18.04	60.624
5/7/2007 0:23	3480	18.035	60.62
5/7/2007 0:33	3490	18.038	60.62
5/7/2007 0:43	3500	18.029	60.618
5/7/2007 0:53	3510	18.031	60.62
5/7/2007 1:03	3520	18.034	60.619
5/7/2007 1:13	3530	18.029	60.614
5/7/2007 1:23	3540	18.035	60.62
5/7/2007 1:33	3550	18.022	60.617
5/7/2007 1:43	3560	18.031	60.619
5/7/2007 1:53	3570	18.029	60.614
5/7/2007 2:03	3580	18.016	60.619
5/7/2007 2:13	3590	18.015	60.619
5/7/2007 2:23	3600	18.015	60.62
5/7/2007 2:33	3610	18.017	60.62
5/7/2007 2:43	3620	18.009	60.614
5/7/2007 2:53	3630	18.01	60.621
5/7/2007 3:03	3640	18.005	60.617
5/7/2007 3:13	3650	18.003	60.619
5/7/2007 3:23	3660	18.002	60.618
5/7/2007 3:33	3670	18.009	60.615
5/7/2007 3:43	3680	17.998	60.615
5/7/2007 3:53	3690	17.995	60.621
5/7/2007 4:03	3700	17.994	60.616
5/7/2007 4:13	3710	17.992	60.617
5/7/2007 4:23	3720	17.989	60.616
5/7/2007 4:33	3730	17.997	60.616
5/7/2007 4:43	3740	17.986	60.618
5/7/2007 4:53	3750	17.986	60.615
5/7/2007 5:03	3760	17.989	60.613
5/7/2007 5:13	3770	17.98	60.616
5/7/2007 5:23	3780	17.986	60.611
5/7/2007 5:33	3790	17.975	60.617
5/7/2007 5:43	3800	17.975	60.614
5/7/2007 5:53	3810	17.971	60.619
5/7/2007 6:03	3820	17.973	60.612
5/7/2007 6:13	3830	17.98	60.614
5/7/2007 6:23	3840	17.968	60.62
5/7/2007 6:33	3850	17.977	60.614
5/7/2007 6:43	3860	17.959	60.61
5/7/2007 6:53	3870	17.962	60.614
5/7/2007 7:03	3880	17.956	60.618
5/7/2007 7:13	3890	17.96	60.614
5/7/2007 7:23	3900	17.957	60.614
5/7/2007 7:33	3910	17.953	60.621
5/7/2007 7:43	3920	17.965	60.614
5/7/2007 7:53	3930	17.951	60.615
5/7/2007 8:03	3940	17.947	60.617
5/7/2007 8:13	3950	17.944	60.614
5/7/2007 8:23	3960	17.946	60.612
5/7/2007 8:33	3970	17.941	60.612
5/7/2007 8:43	3980	17.938	60.614
5/7/2007 8:53	3990	17.939	60.609
5/7/2007 9:03	4000	17.935	60.611
5/7/2007 9:13	4010	17.934	60.614

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/7/2007 9:23	4020	17.942	60.611
5/7/2007 9:33	4030	17.93	60.614
5/7/2007 9:43	4040	17.938	60.612
5/7/2007 9:53	4050	17.933	60.613
5/7/2007 10:03	4060	17.938	60.614
5/7/2007 10:13	4070	17.923	60.612
5/7/2007 10:23	4080	17.925	60.612
5/7/2007 10:33	4090	17.928	60.613
5/7/2007 10:43	4100	17.92	60.614
5/7/2007 10:53	4110	17.91	60.607
5/7/2007 11:03	4120	17.912	60.613
5/7/2007 11:13	4130	17.906	60.608
5/7/2007 11:23	4140	17.91	60.611
5/7/2007 11:33	4150	17.905	60.607
5/7/2007 11:43	4160	17.912	60.613
5/7/2007 11:53	4170	17.903	60.61
5/7/2007 12:03	4180	17.906	60.614
5/7/2007 12:13	4190	17.896	60.609
5/7/2007 12:23	4200	17.899	60.609
5/7/2007 12:33	4210	17.899	60.613
5/7/2007 12:43	4220	17.893	60.612
5/7/2007 12:53	4230	17.888	60.613
5/7/2007 13:03	4240	17.887	60.612
5/7/2007 13:13	4250	17.89	60.612
5/7/2007 13:23	4260	17.888	60.608
5/7/2007 13:33	4270	17.889	60.607
5/7/2007 13:43	4280	17.887	60.606
5/7/2007 13:53	4290	17.886	60.611
5/7/2007 14:03	4300	17.875	60.612
5/7/2007 14:13	4310	17.879	60.609
5/7/2007 14:23	4320	18.135	60.607
5/7/2007 14:33	4330	18.225	60.607
5/7/2007 14:43	4340	18.295	60.607
5/7/2007 14:53	4350	18.354	60.614
5/7/2007 15:03	4360	18.403	60.612
5/7/2007 15:13	4370	18.435	60.612
5/7/2007 15:23	4380	18.478	60.607
5/7/2007 15:33	4390	18.511	60.608
5/7/2007 15:43	4400	18.549	60.612
5/7/2007 15:53	4410	18.59	60.609
5/7/2007 16:03	4420	18.61	60.607
5/7/2007 16:13	4430	18.639	60.607
5/7/2007 16:23	4440	18.671	60.612
5/7/2007 16:33	4450	18.687	60.608
5/7/2007 16:43	4460	18.711	60.609
5/7/2007 16:53	4470	18.734	60.608
5/7/2007 17:03	4480	18.759	60.61
5/7/2007 17:13	4490	18.787	60.61
5/7/2007 17:23	4500	18.798	60.607
5/7/2007 17:33	4510	18.816	60.609
5/7/2007 17:43	4520	18.845	60.613
5/7/2007 17:53	4530	18.869	60.609
5/7/2007 18:03	4540	18.88	60.606
5/7/2007 18:13	4550	18.894	60.608
5/7/2007 18:23	4560	18.918	60.606
5/7/2007 18:33	4570	18.925	60.605
5/7/2007 18:43	4580	18.945	60.605
5/7/2007 18:53	4590	18.964	60.607
5/7/2007 19:03	4600	18.978	60.613
5/7/2007 19:13	4610	18.995	60.609
5/7/2007 19:23	4620	19.015	60.607
5/7/2007 19:33	4630	19.024	60.607
5/7/2007 19:43	4640	19.04	60.601
5/7/2007 19:53	4650	19.06	60.604
5/7/2007 20:03	4660	19.071	60.601
5/7/2007 20:13	4670	19.076	60.603
5/7/2007 20:23	4680	19.1	60.607

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/7/2007 20:33	4690	19.107	60.603
5/7/2007 20:43	4700	19.131	60.601
5/7/2007 20:53	4710	19.132	60.605
5/7/2007 21:03	4720	19.151	60.607
5/7/2007 21:13	4730	19.158	60.606
5/7/2007 21:23	4740	19.179	60.602
5/7/2007 21:33	4750	19.193	60.601
5/7/2007 21:43	4760	19.204	60.605
5/7/2007 21:53	4770	19.215	60.603
5/7/2007 22:03	4780	19.224	60.604
5/7/2007 22:13	4790	19.227	60.604
5/7/2007 22:23	4800	19.237	60.601
5/7/2007 22:33	4810	19.245	60.597
5/7/2007 22:43	4820	19.263	60.607
5/7/2007 22:53	4830	19.279	60.603
5/7/2007 23:03	4840	19.277	60.603
5/7/2007 23:13	4850	19.297	60.602
5/7/2007 23:23	4860	19.306	60.603
5/7/2007 23:33	4870	19.306	60.602
5/7/2007 23:43	4880	19.322	60.601
5/7/2007 23:53	4890	19.34	60.6
5/8/2007 0:03	4900	19.347	60.603
5/8/2007 0:13	4910	19.348	60.602
5/8/2007 0:23	4920	19.357	60.6
5/8/2007 0:33	4930	19.368	60.599
5/8/2007 0:43	4940	19.384	60.603
5/8/2007 0:53	4950	19.389	60.604
5/8/2007 1:03	4960	19.397	60.601
5/8/2007 1:13	4970	19.402	60.603
5/8/2007 1:23	4980	19.419	60.601
5/8/2007 1:33	4990	19.417	60.594
5/8/2007 1:43	5000	19.428	60.599
5/8/2007 1:53	5010	19.435	60.603
5/8/2007 2:03	5020	19.444	60.601
5/8/2007 2:13	5030	19.461	60.597
5/8/2007 2:23	5040	19.469	60.599
5/8/2007 2:33	5050	19.476	60.6
5/8/2007 2:43	5060	19.478	60.601
5/8/2007 2:53	5070	19.489	60.599
5/8/2007 3:03	5080	19.505	60.594
5/8/2007 3:13	5090	19.509	60.602
5/8/2007 3:23	5100	19.517	60.591
5/8/2007 3:33	5110	19.515	60.599
5/8/2007 3:43	5120	19.522	60.601
5/8/2007 3:53	5130	19.53	60.597
5/8/2007 4:03	5140	19.545	60.599
5/8/2007 4:13	5150	19.554	60.599
5/8/2007 4:23	5160	19.566	60.598
5/8/2007 4:33	5170	19.566	60.594
5/8/2007 4:43	5180	19.57	60.599
5/8/2007 4:53	5190	19.574	60.599
5/8/2007 5:03	5200	19.583	60.598
5/8/2007 5:13	5210	19.601	60.595
5/8/2007 5:23	5220	19.611	60.595
5/8/2007 5:33	5230	19.606	60.597
5/8/2007 5:43	5240	19.625	60.595
5/8/2007 5:53	5250	19.63	60.595
5/8/2007 6:03	5260	19.631	60.595
5/8/2007 6:13	5270	19.634	60.599
5/8/2007 6:23	5280	19.641	60.592
5/8/2007 6:33	5290	19.658	60.594
5/8/2007 6:43	5300	19.669	60.594
5/8/2007 6:53	5310	19.668	60.595
5/8/2007 7:03	5320	19.668	60.594
5/8/2007 7:13	5330	19.686	60.591
5/8/2007 7:23	5340	19.689	60.589
5/8/2007 7:33	5350	19.699	60.594

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/8/2007 7:43	5360	19.7	60.595
5/8/2007 7:53	5370	19.7	60.593
5/8/2007 8:03	5380	19.715	60.588
5/8/2007 8:13	5390	19.713	60.588
5/8/2007 8:23	5400	19.723	60.592
5/8/2007 8:33	5410	19.74	60.59
5/8/2007 8:43	5420	19.751	60.594
5/8/2007 8:53	5430	19.749	60.593
5/8/2007 9:03	5440	19.747	60.592
5/8/2007 9:13	5450	19.748	60.588
5/8/2007 9:23	5460	19.762	60.588
5/8/2007 9:33	5470	19.772	60.594
5/8/2007 9:43	5480	19.776	60.593
5/8/2007 9:53	5490	19.782	60.59
5/8/2007 10:03	5500	19.788	60.594
5/8/2007 10:13	5510	19.791	60.589
5/8/2007 10:23	5520	19.799	60.589
5/8/2007 10:33	5530	19.797	60.588
5/8/2007 10:43	5540	19.811	60.596
5/8/2007 10:53	5550	19.807	60.588
5/8/2007 11:03	5560	19.82	60.593
5/8/2007 11:13	5570	19.816	60.591
5/8/2007 11:23	5580	19.835	60.589
5/8/2007 11:33	5590	19.833	60.59
5/8/2007 11:43	5600	19.842	60.59
5/8/2007 11:53	5610	19.846	60.584
5/8/2007 12:03	5620	19.84	60.59
5/8/2007 12:13	5630	19.845	60.591
5/8/2007 12:23	5640	19.851	60.587
5/8/2007 12:33	5650	19.859	60.59
5/8/2007 12:43	5660	19.873	60.585
5/8/2007 12:53	5670	19.865	60.584
5/8/2007 13:03	5680	19.874	60.589
5/8/2007 13:13	5690	19.883	60.582
5/8/2007 13:23	5700	19.888	60.586
5/8/2007 13:33	5710	19.895	60.587
5/8/2007 13:43	5720	19.9	60.592
5/8/2007 13:53	5730	19.898	60.586
5/8/2007 14:03	5740	19.903	60.588
5/8/2007 14:13	5750	19.914	60.588
5/8/2007 14:23	5760	19.917	60.588
5/8/2007 14:33	5770	19.928	60.585
5/8/2007 14:43	5780	19.928	60.588
5/8/2007 14:53	5790	19.926	60.584
5/8/2007 15:03	5800	19.93	60.582
5/8/2007 15:13	5810	19.94	60.586
5/8/2007 15:23	5820	19.949	60.587
5/8/2007 15:33	5830	19.954	60.588
5/8/2007 15:43	5840	19.95	60.585
5/8/2007 15:53	5850	19.964	60.586
5/8/2007 16:03	5860	19.97	60.584
5/8/2007 16:13	5870	19.975	60.587
5/8/2007 16:23	5880	19.977	60.585
5/8/2007 16:33	5890	19.973	60.588
5/8/2007 16:43	5900	19.979	60.59
5/8/2007 16:53	5910	19.986	60.582
5/8/2007 17:03	5920	19.997	60.585
5/8/2007 17:13	5930	19.993	60.582
5/8/2007 17:23	5940	20.008	60.589
5/8/2007 17:33	5950	20.009	60.582
5/8/2007 17:43	5960	20.012	60.586
5/8/2007 17:53	5970	20.019	60.58
5/8/2007 18:03	5980	20.019	60.586
5/8/2007 18:13	5990	20.027	60.584
5/8/2007 18:23	6000	20.024	60.582
5/8/2007 18:33	6010	20.03	60.582
5/8/2007 18:43	6020	20.043	60.583



**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/8/2007 18:53	6030	20.05	60.579
5/8/2007 19:03	6040	20.053	60.583
5/8/2007 19:13	6050	20.054	60.583
5/8/2007 19:23	6060	20.059	60.582
5/8/2007 19:33	6070	20.067	60.581
5/8/2007 19:43	6080	20.07	60.585
5/8/2007 19:53	6090	20.077	60.582
5/8/2007 20:03	6100	20.067	60.578
5/8/2007 20:13	6110	20.082	60.582
5/8/2007 20:23	6120	20.086	60.581
5/8/2007 20:33	6130	20.097	60.577
5/8/2007 20:43	6140	20.1	60.58
5/8/2007 20:53	6150	20.106	60.579
5/8/2007 21:03	6160	20.101	60.58
5/8/2007 21:13	6170	20.107	60.58
5/8/2007 21:23	6180	20.11	60.58
5/8/2007 21:33	6190	20.114	60.585
5/8/2007 21:43	6200	20.123	60.584
5/8/2007 21:53	6210	20.133	60.577
5/8/2007 22:03	6220	20.137	60.58
5/8/2007 22:13	6230	20.133	60.582
5/8/2007 22:23	6240	20.138	60.581
5/8/2007 22:33	6250	20.148	60.575
5/8/2007 22:43	6260	20.155	60.577
5/8/2007 22:53	6270	20.158	60.582
5/8/2007 23:03	6280	20.155	60.579
5/8/2007 23:13	6290	20.165	60.581
5/8/2007 23:23	6300	20.166	60.579
5/8/2007 23:33	6310	20.169	60.58
5/8/2007 23:43	6320	20.184	60.578
5/8/2007 23:53	6330	20.175	60.577
5/9/2007 0:03	6340	20.187	60.58
5/9/2007 0:13	6350	20.196	60.578
5/9/2007 0:23	6360	20.198	60.58
5/9/2007 0:33	6370	20.203	60.578
5/9/2007 0:43	6380	20.206	60.576
5/9/2007 0:53	6390	20.209	60.581
5/9/2007 1:03	6400	20.219	60.576
5/9/2007 1:13	6410	20.221	60.576
5/9/2007 1:23	6420	20.217	60.578
5/9/2007 1:33	6430	20.231	60.581
5/9/2007 1:43	6440	20.228	60.576
5/9/2007 1:53	6450	20.24	60.579
5/9/2007 2:03	6460	20.243	60.579
5/9/2007 2:13	6470	20.24	60.575
5/9/2007 2:23	6480	20.247	60.577
5/9/2007 2:33	6490	20.245	60.576
5/9/2007 2:43	6500	20.259	60.575
5/9/2007 2:53	6510	20.257	60.573
5/9/2007 3:03	6520	20.269	60.575
5/9/2007 3:13	6530	20.267	60.575
5/9/2007 3:23	6540	20.276	60.576
5/9/2007 3:33	6550	20.277	60.58
5/9/2007 3:43	6560	20.28	60.576
5/9/2007 3:53	6570	20.285	60.575
5/9/2007 4:03	6580	20.291	60.573
5/9/2007 4:13	6590	20.292	60.574
5/9/2007 4:23	6600	20.301	60.575
5/9/2007 4:33	6610	20.302	60.576
5/9/2007 4:43	6620	20.306	60.575
5/9/2007 4:53	6630	20.311	60.579
5/9/2007 5:03	6640	20.306	60.572
5/9/2007 5:13	6650	20.317	60.575
5/9/2007 5:23	6660	20.32	60.575
5/9/2007 5:33	6670	20.326	60.57
5/9/2007 5:43	6680	20.328	60.579
5/9/2007 5:53	6690	20.32	60.574

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/9/2007 6:03	6700	20.338	60.573
5/9/2007 6:13	6710	20.342	60.574
5/9/2007 6:23	6720	20.336	60.574
5/9/2007 6:33	6730	20.345	60.575
5/9/2007 6:43	6740	20.347	60.571
5/9/2007 6:53	6750	20.346	60.573
5/9/2007 7:03	6760	20.305	60.568
5/9/2007 7:13	6770	20.313	60.569
5/9/2007 7:23	6780	20.316	60.57
5/9/2007 7:33	6790	20.146	60.578
5/9/2007 7:43	6800	20.042	60.569
5/9/2007 7:53	6810	20.17	60.573
5/9/2007 8:03	6820	20.206	60.572
5/9/2007 8:13	6830	20.225	60.569
5/9/2007 8:23	6840	20.246	60.571
5/9/2007 8:33	6850	20.261	60.571
5/9/2007 8:43	6860	20.276	60.569
5/9/2007 8:53	6870	20.283	60.569
5/9/2007 9:03	6880	20.298	60.567
5/9/2007 9:13	6890	20.307	60.57
5/9/2007 9:23	6900	20.313	60.569
5/9/2007 9:33	6910	20.322	60.566
5/9/2007 9:43	6920	20.33	60.569
5/9/2007 9:53	6930	20.338	60.568
5/9/2007 10:03	6940	20.338	60.569
5/9/2007 10:13	6950	20.342	60.571
5/9/2007 10:23	6960	20.354	60.566
5/9/2007 10:33	6970	20.364	60.569
5/9/2007 10:43	6980	20.367	60.569
5/9/2007 10:53	6990	20.367	60.564
5/9/2007 11:03	7000	20.38	60.565
5/9/2007 11:13	7010	20.383	60.565
5/9/2007 11:23	7020	20.388	60.565
5/9/2007 11:33	7030	20.391	60.565
5/9/2007 11:43	7040	20.398	60.567
5/9/2007 11:53	7050	20.401	60.571
5/9/2007 12:03	7060	20.406	60.562
5/9/2007 12:13	7070	20.407	60.563
5/9/2007 12:23	7080	20.415	60.568
5/9/2007 12:33	7090	20.409	60.563
5/9/2007 12:43	7100	20.417	60.564
5/9/2007 12:53	7110	20.425	60.563
5/9/2007 13:03	7120	20.432	60.565
5/9/2007 13:13	7130	20.433	60.559
5/9/2007 13:23	7140	20.436	60.56
5/9/2007 13:33	7150	20.436	60.564
5/9/2007 13:43	7160	20.442	60.556
5/9/2007 13:53	7170	20.447	60.563
5/9/2007 14:03	7180	20.448	60.556
5/9/2007 14:13	7190	20.443	60.561
5/9/2007 14:23	7200	20.457	60.561
5/9/2007 14:33	7210	20.459	60.564
5/9/2007 14:43	7220	20.466	60.561
5/9/2007 14:53	7230	20.465	60.556
5/9/2007 15:03	7240	20.469	60.563
5/9/2007 15:13	7250	20.473	60.558
5/9/2007 15:23	7260	20.474	60.559
5/9/2007 15:33	7270	20.478	60.561
5/9/2007 15:43	7280	20.48	60.56
5/9/2007 15:53	7290	20.483	60.559
5/9/2007 16:03	7300	20.487	60.562
5/9/2007 16:13	7310	20.488	60.558
5/9/2007 16:23	7320	20.496	60.556
5/9/2007 16:33	7330	20.497	60.558
5/9/2007 16:43	7340	20.501	60.562
5/9/2007 16:53	7350	20.502	60.559
5/9/2007 17:03	7360	20.505	60.559

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/9/2007 17:13	7370	20.508	60.559
5/9/2007 17:23	7380	20.515	60.562
5/9/2007 17:33	7390	20.512	60.56
5/9/2007 17:43	7400	20.519	60.557
5/9/2007 17:53	7410	20.517	60.556
5/9/2007 18:03	7420	20.527	60.557
5/9/2007 18:13	7430	20.529	60.557
5/9/2007 18:23	7440	20.531	60.56
5/9/2007 18:33	7450	20.536	60.558
5/9/2007 18:43	7460	20.539	60.559
5/9/2007 18:53	7470	20.54	60.558
5/9/2007 19:03	7480	20.544	60.553
5/9/2007 19:13	7490	20.548	60.555
5/9/2007 19:23	7500	20.548	60.556
5/9/2007 19:33	7510	20.552	60.555
5/9/2007 19:43	7520	20.551	60.556
5/9/2007 19:53	7530	20.555	60.556
5/9/2007 20:03	7540	20.565	60.555
5/9/2007 20:13	7550	20.564	60.558
5/9/2007 20:23	7560	20.568	60.556
5/9/2007 20:33	7570	20.572	60.558
5/9/2007 20:43	7580	20.576	60.555
5/9/2007 20:53	7590	20.572	60.559
5/9/2007 21:03	7600	20.58	60.561
5/9/2007 21:13	7610	20.574	60.559
5/9/2007 21:23	7620	20.587	60.555
5/9/2007 21:33	7630	20.581	60.556
5/9/2007 21:43	7640	20.588	60.56
5/9/2007 21:53	7650	20.597	60.556
5/9/2007 22:03	7660	20.596	60.557
5/9/2007 22:13	7670	20.6	60.557
5/9/2007 22:23	7680	20.604	60.556
5/9/2007 22:33	7690	20.605	60.559
5/9/2007 22:43	7700	20.609	60.56
5/9/2007 22:53	7710	20.609	60.556
5/9/2007 23:03	7720	20.612	60.559
5/9/2007 23:13	7730	20.613	60.55
5/9/2007 23:23	7740	20.614	60.558
5/9/2007 23:33	7750	20.624	60.553
5/9/2007 23:43	7760	20.624	60.553
5/9/2007 23:53	7770	20.624	60.556
5/10/2007 0:03	7780	20.631	60.551
5/10/2007 0:13	7790	20.634	60.556
5/10/2007 0:23	7800	20.634	60.553
5/10/2007 0:33	7810	20.633	60.559
5/10/2007 0:43	7820	20.639	60.552
5/10/2007 0:53	7830	20.643	60.554
5/10/2007 1:03	7840	20.648	60.553
5/10/2007 1:13	7850	20.649	60.556
5/10/2007 1:23	7860	20.644	60.558
5/10/2007 1:33	7870	20.651	60.553
5/10/2007 1:43	7880	20.646	60.555
5/10/2007 1:53	7890	20.658	60.553
5/10/2007 2:03	7900	20.66	60.554
5/10/2007 2:13	7910	20.661	60.552
5/10/2007 2:23	7920	20.662	60.558
5/10/2007 2:33	7930	20.671	60.551
5/10/2007 2:43	7940	20.673	60.554
5/10/2007 2:53	7950	20.682	60.55
5/10/2007 3:03	7960	20.678	60.553
5/10/2007 3:13	7970	20.679	60.553
5/10/2007 3:23	7980	20.684	60.555
5/10/2007 3:33	7990	20.681	60.554
5/10/2007 3:43	8000	20.69	60.552
5/10/2007 3:53	8010	20.688	60.551
5/10/2007 4:03	8020	20.687	60.55
5/10/2007 4:13	8030	20.683	60.547

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/10/2007 4:23	8040	20.693	60.543
5/10/2007 4:33	8050	20.691	60.554
5/10/2007 4:43	8060	20.696	60.552
5/10/2007 4:53	8070	20.7	60.547
5/10/2007 5:03	8080	20.694	60.551
5/10/2007 5:13	8090	20.701	60.554
5/10/2007 5:23	8100	20.709	60.55
5/10/2007 5:33	8110	20.708	60.552
5/10/2007 5:43	8120	20.713	60.549
5/10/2007 5:53	8130	20.711	60.55
5/10/2007 6:03	8140	20.715	60.556
5/10/2007 6:13	8150	20.719	60.55
5/10/2007 6:23	8160	20.72	60.55
5/10/2007 6:33	8170	20.728	60.546
5/10/2007 6:43	8180	20.724	60.547
5/10/2007 6:53	8190	20.726	60.546
5/10/2007 7:03	8200	20.727	60.549
5/10/2007 7:13	8210	20.733	60.55
5/10/2007 7:23	8220	20.728	60.545
5/10/2007 7:33	8230	20.733	60.543
5/10/2007 7:43	8240	20.735	60.549
5/10/2007 7:53	8250	20.738	60.55
5/10/2007 8:03	8260	20.739	60.547
5/10/2007 8:13	8270	20.745	60.551
5/10/2007 8:23	8280	20.742	60.551
5/10/2007 8:33	8290	20.746	60.551
5/10/2007 8:43	8300	20.749	60.546
5/10/2007 8:53	8310	20.751	60.551
5/10/2007 9:03	8320	20.747	60.552
5/10/2007 9:13	8330	20.752	60.547
5/10/2007 9:23	8340	20.752	60.549
5/10/2007 9:33	8350	20.756	60.55
5/10/2007 9:43	8360	20.757	60.545
5/10/2007 9:53	8370	20.761	60.549
5/10/2007 10:03	8380	20.762	60.543
5/10/2007 10:13	8390	20.76	60.544
5/10/2007 10:23	8400	20.763	60.543
5/10/2007 10:33	8410	20.768	60.544
5/10/2007 10:43	8420	20.765	60.543
5/10/2007 10:53	8430	20.768	60.543
5/10/2007 11:03	8440	20.776	60.545
5/10/2007 11:13	8450	20.773	60.543
5/10/2007 11:23	8460	20.776	60.548
5/10/2007 11:33	8470	20.765	60.631
5/10/2007 11:43	8480	20.779	60.548
5/10/2007 11:53	8490	20.778	60.546
5/10/2007 12:03	8500	20.786	60.544
5/10/2007 12:13	8510	20.784	60.548
5/10/2007 12:23	8520	20.784	60.538
5/10/2007 12:33	8530	20.792	60.542
5/10/2007 12:43	8540	20.793	60.543
5/10/2007 12:53	8550	20.791	60.544
5/10/2007 13:03	8560	20.793	60.543
5/10/2007 13:13	8570	20.795	60.543
5/10/2007 13:23	8580	20.796	60.545
5/10/2007 13:33	8590	20.798	60.544
5/10/2007 13:43	8600	20.799	60.546
5/10/2007 13:53	8610	20.805	60.543
5/10/2007 14:03	8620	20.803	60.545
5/10/2007 14:13	8630	20.807	60.543
5/10/2007 14:23	8640	20.816	60.545
5/10/2007 14:33	8650	20.811	60.543
5/10/2007 14:43	8660	20.826	60.542
5/10/2007 14:53	8670	20.813	60.543
5/10/2007 15:03	8680	20.816	60.543
5/10/2007 15:13	8690	20.821	60.543
5/10/2007 15:23	8700	20.816	60.542

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 103588 Level-DTW (ft)	SN#: 103588 Temperature (F)
5/10/2007 15:33	8710	20.822	60.54
5/10/2007 15:43	8720	20.824	60.541
5/10/2007 15:53	8730	20.827	60.541
5/10/2007 16:03	8740	20.826	60.541
5/10/2007 16:13	8750	20.832	60.542
5/10/2007 16:23	8760	20.832	60.541
5/10/2007 16:33	8770	20.835	60.537
5/10/2007 16:43	8780	20.834	60.536
5/10/2007 16:53	8790	20.837	60.542
5/10/2007 17:03	8800	20.847	60.543
5/10/2007 17:13	8810	20.841	60.537
5/10/2007 17:23	8820	20.849	60.537
5/10/2007 17:33	8830	20.848	60.54
5/10/2007 17:43	8840	20.852	60.538
5/10/2007 17:53	8850	20.852	60.535
5/10/2007 18:03	8860	20.853	60.537
5/10/2007 18:13	8870	20.854	60.539
5/10/2007 18:23	8880	20.86	60.54
5/10/2007 18:33	8890	20.86	60.541
5/10/2007 18:43	8900	20.862	60.541
5/10/2007 18:53	8910	20.862	60.538
5/10/2007 19:03	8920	20.866	60.539
5/10/2007 19:13	8930	20.872	60.535
5/10/2007 19:23	8940	20.874	60.536
5/10/2007 19:33	8950	20.874	60.539
5/10/2007 19:43	8960	20.644	60.533
5/10/2007 19:53	8970	20.534	60.539
5/10/2007 20:03	8980	20.447	60.533
5/10/2007 20:13	8990	20.372	60.531
5/10/2007 20:23	9000	20.308	60.537
5/10/2007 20:33	9010	20.247	60.534
5/10/2007 20:43	9020	20.19	60.533
5/10/2007 20:53	9030	20.374	60.528
5/10/2007 21:03	9040	20.427	60.535
5/10/2007 21:13	9050	20.467	60.538
5/10/2007 21:23	9060	20.492	60.536
5/10/2007 21:33	9070	20.522	60.537
5/10/2007 21:43	9080	20.537	60.535
5/10/2007 21:53	9090	20.558	60.537
5/10/2007 22:03	9100	20.574	60.531
5/10/2007 22:13	9110	20.59	60.536
5/10/2007 22:23	9120	20.604	60.531
5/10/2007 22:33	9130	20.619	60.53
5/10/2007 22:43	9140	20.624	60.532
5/10/2007 22:53	9150	20.641	60.538
5/10/2007 23:03	9160	20.645	60.532
5/10/2007 23:13	9170	20.648	60.533
5/10/2007 23:23	9180	20.653	60.531
5/10/2007 23:33	9190	20.659	60.534
5/10/2007 23:43	9200	20.663	60.534
5/10/2007 23:53	9210	20.668	60.534
5/11/2007 0:03	9220	20.676	60.532
5/11/2007 0:13	9230	20.678	60.531
5/11/2007 0:23	9240	20.68	60.534
5/11/2007 0:33	9250	20.682	60.531
5/11/2007 0:43	9260	20.685	60.532
5/11/2007 0:53	9270	20.683	60.531
5/11/2007 1:03	9280	20.689	60.526
5/11/2007 1:13	9290	20.691	60.527
5/11/2007 1:23	9300	20.693	60.525
5/11/2007 1:33	9310	20.695	60.529
5/11/2007 1:43	9320	20.699	60.529
5/11/2007 1:53	9330	20.698	60.528
5/11/2007 2:03	9340	20.699	60.527
5/11/2007 2:13	9350	20.703	60.526
5/11/2007 2:23	9360	20.703	60.528
5/11/2007 2:33	9370	20.704	60.53

**MW-75D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 103588	SN#: 103588
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/11/2007 2:43	9380	20.704	60.528
5/11/2007 2:53	9390	20.708	60.528
5/11/2007 3:03	9400	20.717	60.525
5/11/2007 3:13	9410	20.713	60.527
5/11/2007 3:23	9420	20.709	60.525
5/11/2007 3:33	9430	20.699	60.526
5/11/2007 3:43	9440	20.71	60.525
5/11/2007 3:53	9450	20.713	60.528
5/11/2007 4:03	9460	20.711	60.528
5/11/2007 4:13	9470	20.712	60.52
5/11/2007 4:23	9480	20.715	60.524
5/11/2007 4:33	9490	20.714	60.524
5/11/2007 4:43	9500	20.715	60.528
5/11/2007 4:53	9510	20.719	60.528
5/11/2007 5:03	9520	20.719	60.521
5/11/2007 5:13	9530	20.72	60.528
5/11/2007 5:23	9540	20.722	60.523
5/11/2007 5:33	9550	20.722	60.524
5/11/2007 5:43	9560	20.721	60.524
5/11/2007 5:53	9570	20.725	60.526
5/11/2007 6:03	9580	20.726	60.526
5/11/2007 6:13	9590	20.729	60.524
5/11/2007 6:23	9600	20.732	60.524
5/11/2007 6:33	9610	20.732	60.524
5/11/2007 6:43	9620	20.73	60.524
5/11/2007 6:53	9630	20.73	60.523
5/11/2007 7:03	9640	20.734	60.521
5/11/2007 7:13	9650	20.739	60.52
5/11/2007 7:23	9660	20.736	60.522
5/11/2007 7:33	9670	20.739	60.519
5/11/2007 7:43	9680	20.738	60.516
5/11/2007 7:53	9690	20.736	60.522
5/11/2007 8:03	9700	20.74	60.518
5/11/2007 8:13	9710	20.743	60.518
5/11/2007 8:23	9720	20.737	60.52
5/11/2007 8:33	9730	20.744	60.522
5/11/2007 8:43	9740	20.743	60.521
5/11/2007 8:53	9750	20.748	60.519
5/11/2007 9:03	9760	20.748	60.524
5/11/2007 9:13	9770	20.748	60.522
5/11/2007 9:23	9780	20.746	60.517
5/11/2007 9:33	9790	20.752	60.521
5/11/2007 9:43	9800	20.753	60.516
5/11/2007 9:53	9810	20.756	60.518
5/11/2007 10:03	9820	20.759	60.517
5/11/2007 10:13	9830	20.754	60.522
5/11/2007 10:23	9840	20.758	60.517
5/11/2007 10:33	9850	20.762	60.518
5/11/2007 10:43	9860	20.759	60.518
5/11/2007 10:53	9870	20.759	60.519
5/11/2007 11:03	9880	20.759	60.515
5/11/2007 11:13	9890	20.761	60.516
5/11/2007 11:23	9900	20.765	60.513
5/11/2007 11:33	9910	20.763	60.517

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/4/2007 14:44	0	19.217	61.439
5/4/2007 14:54	10	19.21	58.973
5/4/2007 15:04	20	19.204	58.825
5/4/2007 15:14	30	19.184	58.643
5/4/2007 15:24	40	19.186	58.685
5/4/2007 15:34	50	19.171	58.683
5/4/2007 15:44	60	19.157	58.722
5/4/2007 15:54	70	19.137	58.747
5/4/2007 16:04	80	19.142	58.684
5/4/2007 16:14	90	19.126	58.824
5/4/2007 16:24	100	19.12	58.714
5/4/2007 16:34	110	19.113	58.652
5/4/2007 16:44	120	19.095	58.63
5/4/2007 16:54	130	19.088	58.804
5/4/2007 17:04	140	19.086	58.913
5/4/2007 17:14	150	19.075	58.863
5/4/2007 17:24	160	19.067	58.673
5/4/2007 17:34	170	19.055	58.727
5/4/2007 17:44	180	19.05	58.703
5/4/2007 17:54	190	19.04	58.734
5/4/2007 18:04	200	19.04	58.871
5/4/2007 18:14	210	19.034	58.899
5/4/2007 18:24	220	19.03	58.796
5/4/2007 18:34	230	19.024	58.77
5/4/2007 18:44	240	19.011	58.76
5/4/2007 18:54	250	19.004	58.904
5/4/2007 19:04	260	18.991	58.988
5/4/2007 19:14	270	18.99	58.895
5/4/2007 19:24	280	18.967	58.92
5/4/2007 19:34	290	18.976	58.82
5/4/2007 19:44	300	18.973	58.666
5/4/2007 19:54	310	18.965	58.79
5/4/2007 20:04	320	18.949	58.87
5/4/2007 20:14	330	18.951	58.8
5/4/2007 20:24	340	18.932	58.804
5/4/2007 20:34	350	18.943	58.764
5/4/2007 20:44	360	18.938	58.71
5/4/2007 20:54	370	18.926	58.722
5/4/2007 21:04	380	18.922	58.744
5/4/2007 21:14	390	18.928	58.805
5/4/2007 21:24	400	18.915	58.728
5/4/2007 21:34	410	18.904	58.838
5/4/2007 21:44	420	18.912	58.829
5/4/2007 21:54	430	18.898	58.703
5/4/2007 22:04	440	18.89	58.808
5/4/2007 22:14	450	18.889	58.77
5/4/2007 22:24	460	18.874	58.866
5/4/2007 22:34	470	18.874	58.788
5/4/2007 22:44	480	18.865	58.955
5/4/2007 22:54	490	18.863	58.692
5/4/2007 23:04	500	18.856	58.71
5/4/2007 23:14	510	18.861	58.733
5/4/2007 23:24	520	18.852	58.752
5/4/2007 23:34	530	18.841	58.785
5/4/2007 23:44	540	18.835	58.78
5/4/2007 23:54	550	18.835	58.818
5/5/2007 0:04	560	18.826	58.717
5/5/2007 0:14	570	18.819	58.758
5/5/2007 0:24	580	18.82	58.694
5/5/2007 0:34	590	18.81	58.695
5/5/2007 0:44	600	18.799	58.729
5/5/2007 0:54	610	18.805	58.689
5/5/2007 1:04	620	18.796	58.646
5/5/2007 1:14	630	18.79	58.654
5/5/2007 1:24	640	18.788	58.689
5/5/2007 1:34	650	18.786	58.699
5/5/2007 1:44	660	18.777	58.729

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/5/2007 1:54	670	18.769	58.632
5/5/2007 2:04	680	18.773	58.662
5/5/2007 2:14	690	18.759	58.682
5/5/2007 2:24	700	18.761	58.859
5/5/2007 2:34	710	18.754	58.818
5/5/2007 2:44	720	18.747	58.759
5/5/2007 2:54	730	18.741	58.825
5/5/2007 3:04	740	18.745	58.79
5/5/2007 3:14	750	18.742	58.738
5/5/2007 3:24	760	18.723	58.765
5/5/2007 3:34	770	18.716	58.831
5/5/2007 3:44	780	18.725	58.759
5/5/2007 3:54	790	18.783	58.741
5/5/2007 4:04	800	18.717	58.798
5/5/2007 4:14	810	18.711	58.716
5/5/2007 4:24	820	18.696	58.882
5/5/2007 4:34	830	18.698	58.813
5/5/2007 4:44	840	18.723	58.839
5/5/2007 4:54	850	18.681	58.783
5/5/2007 5:04	860	18.68	58.725
5/5/2007 5:14	870	18.675	58.763
5/5/2007 5:24	880	18.664	58.822
5/5/2007 5:34	890	18.664	58.874
5/5/2007 5:44	900	18.657	58.884
5/5/2007 5:54	910	18.653	58.872
5/5/2007 6:04	920	18.66	58.879
5/5/2007 6:14	930	18.646	58.864
5/5/2007 6:24	940	18.646	58.776
5/5/2007 6:34	950	18.634	58.882
5/5/2007 6:44	960	18.632	58.804
5/5/2007 6:54	970	18.624	58.828
5/5/2007 7:04	980	18.618	58.738
5/5/2007 7:14	990	18.623	58.717
5/5/2007 7:24	1000	18.62	58.763
5/5/2007 7:34	1010	18.607	58.78
5/5/2007 7:44	1020	18.602	58.742
5/5/2007 7:54	1030	18.6	58.815
5/5/2007 8:04	1040	18.592	58.782
5/5/2007 8:14	1050	18.59	58.793
5/5/2007 8:24	1060	18.579	58.831
5/5/2007 8:34	1070	18.588	58.816
5/5/2007 8:44	1080	18.576	58.726
5/5/2007 8:54	1090	18.574	58.855
5/5/2007 9:04	1100	18.572	58.838
5/5/2007 9:14	1110	18.56	58.745
5/5/2007 9:24	1120	18.567	58.653
5/5/2007 9:34	1130	18.552	58.846
5/5/2007 9:44	1140	18.553	58.735
5/5/2007 9:54	1150	18.551	58.774
5/5/2007 10:04	1160	18.546	58.673
5/5/2007 10:14	1170	18.533	58.644
5/5/2007 10:24	1180	18.537	58.768
5/5/2007 10:34	1190	18.531	58.741
5/5/2007 10:44	1200	18.525	58.784
5/5/2007 10:54	1210	18.527	58.658
5/5/2007 11:04	1220	18.522	58.623
5/5/2007 11:14	1230	18.515	58.676
5/5/2007 11:24	1240	18.516	58.798
5/5/2007 11:34	1250	18.513	58.869
5/5/2007 11:44	1260	18.503	58.878
5/5/2007 11:54	1270	18.492	58.824
5/5/2007 12:04	1280	18.493	58.811
5/5/2007 12:14	1290	18.488	58.786
5/5/2007 12:24	1300	18.481	58.753
5/5/2007 12:34	1310	18.484	58.848
5/5/2007 12:44	1320	18.477	58.899
5/5/2007 12:54	1330	18.479	58.788



**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/5/2007 13:04	1340	18.469	58.839
5/5/2007 13:14	1350	18.467	58.726
5/5/2007 13:24	1360	18.474	58.71
5/5/2007 13:34	1370	18.468	58.636
5/5/2007 13:44	1380	18.473	58.571
5/5/2007 13:54	1390	18.464	58.69
5/5/2007 14:04	1400	18.462	58.68
5/5/2007 14:14	1410	18.454	58.69
5/5/2007 14:24	1420	18.452	58.851
5/5/2007 14:34	1430	18.452	58.941
5/5/2007 14:44	1440	18.444	58.9
5/5/2007 14:54	1450	18.438	58.937
5/5/2007 15:04	1460	18.433	58.713
5/5/2007 15:14	1470	18.43	58.721
5/5/2007 15:24	1480	18.429	58.756
5/5/2007 15:34	1490	18.425	58.741
5/5/2007 15:44	1500	18.427	58.663
5/5/2007 15:54	1510	18.422	58.759
5/5/2007 16:04	1520	18.414	58.794
5/5/2007 16:14	1530	18.418	58.962
5/5/2007 16:24	1540	18.415	58.802
5/5/2007 16:34	1550	18.414	58.746
5/5/2007 16:44	1560	18.403	58.715
5/5/2007 16:54	1570	18.402	58.822
5/5/2007 17:04	1580	18.396	58.968
5/5/2007 17:14	1590	18.4	58.943
5/5/2007 17:24	1600	18.385	59.026
5/5/2007 17:34	1610	18.386	59.033
5/5/2007 17:44	1620	18.381	58.999
5/5/2007 17:54	1630	18.378	59.001
5/5/2007 18:04	1640	18.375	59.018
5/5/2007 18:14	1650	18.372	59.052
5/5/2007 18:24	1660	18.369	59.041
5/5/2007 18:34	1670	18.365	59.029
5/5/2007 18:44	1680	18.364	59.018
5/5/2007 18:54	1690	18.373	59.003
5/5/2007 19:04	1700	18.364	58.976
5/5/2007 19:14	1710	18.362	58.76
5/5/2007 19:24	1720	18.362	58.758
5/5/2007 19:34	1730	18.357	58.882
5/5/2007 19:44	1740	18.348	58.865
5/5/2007 19:54	1750	18.345	58.924
5/5/2007 20:04	1760	18.346	59.004
5/5/2007 20:14	1770	18.35	58.996
5/5/2007 20:24	1780	18.358	58.957
5/5/2007 20:34	1790	18.348	58.849
5/5/2007 20:44	1800	18.344	58.826
5/5/2007 20:54	1810	18.344	58.998
5/5/2007 21:04	1820	18.333	59.017
5/5/2007 21:14	1830	18.335	58.975
5/5/2007 21:24	1840	18.332	58.939
5/5/2007 21:34	1850	18.332	58.748
5/5/2007 21:44	1860	18.333	58.78
5/5/2007 21:54	1870	18.328	58.946
5/5/2007 22:04	1880	18.322	58.974
5/5/2007 22:14	1890	18.325	58.957
5/5/2007 22:24	1900	18.319	58.972
5/5/2007 22:34	1910	18.323	58.888
5/5/2007 22:44	1920	18.318	58.746
5/5/2007 22:54	1930	18.315	58.923
5/5/2007 23:04	1940	18.306	59.002
5/5/2007 23:14	1950	18.319	58.968
5/5/2007 23:24	1960	18.31	59.004
5/5/2007 23:34	1970	18.294	58.752
5/5/2007 23:44	1980	18.303	58.715
5/5/2007 23:54	1990	18.31	58.81
5/6/2007 0:04	2000	18.301	58.722

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

Date and Time	Elapsed Time Minutes	Sensor: Pres 30G	Sensor: Pres 30G
		SN#: 108486 Level-DTW (ft)	SN#: 108486 Temperature (F)
5/6/2007 0:14	2010	18.308	58.866
5/6/2007 0:24	2020	18.295	58.861
5/6/2007 0:34	2030	18.29	58.808
5/6/2007 0:44	2040	18.287	58.906
5/6/2007 0:54	2050	18.291	58.761
5/6/2007 1:04	2060	18.281	58.849
5/6/2007 1:14	2070	18.284	58.923
5/6/2007 1:24	2080	18.279	58.891
5/6/2007 1:34	2090	18.279	58.947
5/6/2007 1:44	2100	18.278	58.862
5/6/2007 1:54	2110	18.27	58.79
5/6/2007 2:04	2120	18.269	58.86
5/6/2007 2:14	2130	18.272	58.813
5/6/2007 2:24	2140	18.257	58.943
5/6/2007 2:34	2150	18.263	58.936
5/6/2007 2:44	2160	18.26	58.876
5/6/2007 2:54	2170	18.264	58.727
5/6/2007 3:04	2180	18.261	58.773
5/6/2007 3:14	2190	18.258	58.86
5/6/2007 3:24	2200	18.242	58.733
5/6/2007 3:34	2210	18.256	58.886
5/6/2007 3:44	2220	18.239	58.711
5/6/2007 3:54	2230	18.237	58.805
5/6/2007 4:04	2240	18.238	58.966
5/6/2007 4:14	2250	18.234	58.846
5/6/2007 4:24	2260	18.231	58.829
5/6/2007 4:34	2270	18.233	58.785
5/6/2007 4:44	2280	18.223	58.801
5/6/2007 4:54	2290	18.226	58.931
5/6/2007 5:04	2300	18.223	58.838
5/6/2007 5:14	2310	18.22	58.822
5/6/2007 5:24	2320	18.218	58.83
5/6/2007 5:34	2330	18.211	58.881
5/6/2007 5:44	2340	18.216	58.791
5/6/2007 5:54	2350	18.21	58.648
5/6/2007 6:04	2360	18.214	58.638
5/6/2007 6:14	2370	18.204	58.665
5/6/2007 6:24	2380	18.202	58.625
5/6/2007 6:34	2390	18.211	58.581
5/6/2007 6:44	2400	18.198	58.546
5/6/2007 6:54	2410	18.193	58.581
5/6/2007 7:04	2420	18.199	58.692
5/6/2007 7:14	2430	18.189	58.827
5/6/2007 7:24	2440	18.196	58.875
5/6/2007 7:34	2450	18.196	58.846
5/6/2007 7:44	2460	18.182	58.777
5/6/2007 7:54	2470	18.185	58.846
5/6/2007 8:04	2480	18.179	58.788
5/6/2007 8:14	2490	18.172	58.748
5/6/2007 8:24	2500	18.179	58.787
5/6/2007 8:34	2510	18.166	58.776
5/6/2007 8:44	2520	18.164	58.858
5/6/2007 8:54	2530	18.162	58.839
5/6/2007 9:04	2540	18.168	58.691
5/6/2007 9:14	2550	18.175	58.714
5/6/2007 9:24	2560	18.166	58.839
5/6/2007 9:34	2570	18.162	58.706
5/6/2007 9:44	2580	18.16	58.84
5/6/2007 9:54	2590	18.164	58.875
5/6/2007 10:04	2600	18.157	58.863
5/6/2007 10:14	2610	18.146	58.805
5/6/2007 10:24	2620	18.156	58.737
5/6/2007 10:34	2630	18.153	58.692
5/6/2007 10:44	2640	18.153	58.741
5/6/2007 10:54	2650	18.15	58.849
5/6/2007 11:04	2660	18.144	58.838
5/6/2007 11:14	2670	18.136	58.822

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/6/2007 11:24	2680	18.133	58.741
5/6/2007 11:34	2690	18.134	58.736
5/6/2007 11:44	2700	18.129	58.742
5/6/2007 11:54	2710	18.131	58.821
5/6/2007 12:04	2720	18.129	58.86
5/6/2007 12:14	2730	18.123	58.842
5/6/2007 12:24	2740	18.122	58.831
5/6/2007 12:34	2750	18.124	58.845
5/6/2007 12:44	2760	18.134	58.683
5/6/2007 12:54	2770	18.12	58.822
5/6/2007 13:04	2780	18.121	58.689
5/6/2007 13:14	2790	18.114	58.681
5/6/2007 13:24	2800	18.113	58.721
5/6/2007 13:34	2810	18.108	58.79
5/6/2007 13:44	2820	18.103	58.865
5/6/2007 13:54	2830	18.113	58.817
5/6/2007 14:04	2840	18.107	58.815
5/6/2007 14:14	2850	18.11	58.83
5/6/2007 14:24	2860	18.107	58.766
5/6/2007 14:34	2870	18.102	58.799
5/6/2007 14:44	2880	18.105	58.743
5/6/2007 14:54	2890	18.101	58.766
5/6/2007 15:04	2900	18.099	58.768
5/6/2007 15:14	2910	18.091	58.772
5/6/2007 15:24	2920	18.098	58.863
5/6/2007 15:34	2930	18.1	58.867
5/6/2007 15:44	2940	18.08	58.845
5/6/2007 15:54	2950	18.095	58.866
5/6/2007 16:04	2960	18.082	58.814
5/6/2007 16:14	2970	18.081	58.865
5/6/2007 16:24	2980	18.084	58.782
5/6/2007 16:34	2990	18.079	58.882
5/6/2007 16:44	3000	18.08	58.789
5/6/2007 16:54	3010	18.085	58.741
5/6/2007 17:04	3020	18.077	58.796
5/6/2007 17:14	3030	18.078	58.861
5/6/2007 17:24	3040	18.079	58.784
5/6/2007 17:34	3050	18.08	58.677
5/6/2007 17:44	3060	18.079	58.826
5/6/2007 17:54	3070	18.08	58.905
5/6/2007 18:04	3080	18.072	58.757
5/6/2007 18:14	3090	18.068	58.652
5/6/2007 18:24	3100	18.07	58.661
5/6/2007 18:34	3110	18.06	58.819
5/6/2007 18:44	3120	18.054	58.737
5/6/2007 18:54	3130	18.06	58.72
5/6/2007 19:04	3140	18.067	58.731
5/6/2007 19:14	3150	18.059	58.666
5/6/2007 19:24	3160	18.054	58.788
5/6/2007 19:34	3170	18.059	58.825
5/6/2007 19:44	3180	18.058	58.888
5/6/2007 19:54	3190	18.058	58.857
5/6/2007 20:04	3200	18.062	58.893
5/6/2007 20:14	3210	18.056	58.83
5/6/2007 20:24	3220	18.053	58.879
5/6/2007 20:34	3230	18.055	58.917
5/6/2007 20:44	3240	18.057	58.838
5/6/2007 20:54	3250	18.047	58.817
5/6/2007 21:04	3260	18.054	58.861
5/6/2007 21:14	3270	18.051	58.789
5/6/2007 21:24	3280	18.049	58.759
5/6/2007 21:34	3290	18.042	58.749
5/6/2007 21:44	3300	18.04	58.75
5/6/2007 21:54	3310	18.039	58.603
5/6/2007 22:04	3320	18.034	58.651
5/6/2007 22:14	3330	18.049	58.882
5/6/2007 22:24	3340	18.032	58.864

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/6/2007 22:34	3350	18.031	58.883
5/6/2007 22:44	3360	18.037	58.857
5/6/2007 22:54	3370	18.035	58.814
5/6/2007 23:04	3380	18.041	58.845
5/6/2007 23:14	3390	18.04	58.879
5/6/2007 23:24	3400	18.037	58.897
5/6/2007 23:34	3410	18.03	58.885
5/6/2007 23:44	3420	18.029	58.931
5/6/2007 23:54	3430	18.024	58.893
5/7/2007 0:04	3440	18.026	58.851
5/7/2007 0:14	3450	18.032	58.783
5/7/2007 0:24	3460	18.019	58.867
5/7/2007 0:34	3470	18.013	58.857
5/7/2007 0:44	3480	18.023	58.627
5/7/2007 0:54	3490	18.019	58.765
5/7/2007 1:04	3500	18.013	58.919
5/7/2007 1:14	3510	18.014	58.894
5/7/2007 1:24	3520	18.021	58.802
5/7/2007 1:34	3530	18.01	58.705
5/7/2007 1:44	3540	18.007	58.655
5/7/2007 1:54	3550	18.007	58.64
5/7/2007 2:04	3560	18.011	58.685
5/7/2007 2:14	3570	17.999	58.726
5/7/2007 2:24	3580	18	58.702
5/7/2007 2:34	3590	17.992	58.889
5/7/2007 2:44	3600	18	58.894
5/7/2007 2:54	3610	17.994	58.734
5/7/2007 3:04	3620	17.992	58.95
5/7/2007 3:14	3630	17.989	58.986
5/7/2007 3:24	3640	17.98	58.998
5/7/2007 3:34	3650	17.986	58.974
5/7/2007 3:44	3660	17.987	58.981
5/7/2007 3:54	3670	17.985	58.996
5/7/2007 4:04	3680	17.977	58.981
5/7/2007 4:14	3690	17.998	58.88
5/7/2007 4:24	3700	17.972	58.988
5/7/2007 4:34	3710	17.971	58.986
5/7/2007 4:44	3720	17.97	58.98
5/7/2007 4:54	3730	17.969	58.995
5/7/2007 5:04	3740	17.962	58.987
5/7/2007 5:14	3750	17.963	58.999
5/7/2007 5:24	3760	17.96	58.956
5/7/2007 5:34	3770	17.959	58.956
5/7/2007 5:44	3780	17.958	58.953
5/7/2007 5:54	3790	17.955	58.968
5/7/2007 6:04	3800	17.952	58.961
5/7/2007 6:14	3810	17.953	58.824
5/7/2007 6:24	3820	17.946	58.755
5/7/2007 6:34	3830	17.944	58.967
5/7/2007 6:44	3840	17.95	59.008
5/7/2007 6:54	3850	17.937	58.963
5/7/2007 7:04	3860	17.94	58.979
5/7/2007 7:14	3870	17.938	58.965
5/7/2007 7:24	3880	17.936	58.969
5/7/2007 7:34	3890	17.939	58.955
5/7/2007 7:44	3900	17.938	58.918
5/7/2007 7:54	3910	17.932	58.927
5/7/2007 8:04	3920	17.925	58.76
5/7/2007 8:14	3930	17.925	58.85
5/7/2007 8:24	3940	17.927	58.903
5/7/2007 8:34	3950	17.921	58.936
5/7/2007 8:44	3960	17.919	58.905
5/7/2007 8:54	3970	17.92	58.861
5/7/2007 9:04	3980	17.93	58.77
5/7/2007 9:14	3990	17.919	58.952
5/7/2007 9:24	4000	17.915	58.939
5/7/2007 9:34	4010	17.918	58.861

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/7/2007 9:44	4020	17.92	58.851
5/7/2007 9:54	4030	17.906	58.728
5/7/2007 10:04	4040	17.9	58.724
5/7/2007 10:14	4050	17.902	58.814
5/7/2007 10:24	4060	17.894	58.748
5/7/2007 10:34	4070	17.895	58.752
5/7/2007 10:44	4080	17.901	58.691
5/7/2007 10:54	4090	17.899	58.715
5/7/2007 11:04	4100	17.893	58.669
5/7/2007 11:14	4110	17.891	58.651
5/7/2007 11:24	4120	17.892	58.68
5/7/2007 11:34	4130	17.901	58.736
5/7/2007 11:44	4140	17.884	58.826
5/7/2007 11:54	4150	17.896	58.815
5/7/2007 12:04	4160	17.889	58.904
5/7/2007 12:14	4170	17.878	58.882
5/7/2007 12:24	4180	17.882	58.891
5/7/2007 12:34	4190	17.883	58.88
5/7/2007 12:44	4200	17.876	58.957
5/7/2007 12:54	4210	17.885	58.953
5/7/2007 13:04	4220	17.871	58.81
5/7/2007 13:14	4230	17.875	58.968
5/7/2007 13:24	4240	17.871	58.962
5/7/2007 13:34	4250	17.874	58.927
5/7/2007 13:44	4260	17.867	58.902
5/7/2007 13:54	4270	17.876	58.912
5/7/2007 14:04	4280	17.867	58.914
5/7/2007 14:14	4290	17.858	58.904
5/7/2007 14:24	4300	17.913	58.914
5/7/2007 14:34	4310	17.934	58.889
5/7/2007 14:44	4320	17.958	58.836
5/7/2007 14:54	4330	17.977	58.923
5/7/2007 15:04	4340	17.985	58.871
5/7/2007 15:14	4350	17.999	58.858
5/7/2007 15:24	4360	18.005	58.912
5/7/2007 15:34	4370	18.012	58.776
5/7/2007 15:44	4380	18.038	58.816
5/7/2007 15:54	4390	18.042	58.888
5/7/2007 16:04	4400	18.055	58.749
5/7/2007 16:14	4410	18.06	58.794
5/7/2007 16:24	4420	18.072	58.847
5/7/2007 16:34	4430	18.08	58.878
5/7/2007 16:44	4440	18.093	58.903
5/7/2007 16:54	4450	18.102	58.698
5/7/2007 17:04	4460	18.113	58.675
5/7/2007 17:14	4470	18.121	58.654
5/7/2007 17:24	4480	18.129	58.741
5/7/2007 17:34	4490	18.131	58.802
5/7/2007 17:44	4500	18.149	58.808
5/7/2007 17:54	4510	18.16	58.74
5/7/2007 18:04	4520	18.153	58.622
5/7/2007 18:14	4530	18.174	58.686
5/7/2007 18:24	4540	18.173	58.562
5/7/2007 18:34	4550	18.183	58.575
5/7/2007 18:44	4560	18.189	58.52
5/7/2007 18:54	4570	18.196	58.475
5/7/2007 19:04	4580	18.206	58.543
5/7/2007 19:14	4590	18.209	58.498
5/7/2007 19:24	4600	18.219	58.468
5/7/2007 19:34	4610	18.231	58.627
5/7/2007 19:44	4620	18.235	58.62
5/7/2007 19:54	4630	18.247	58.599
5/7/2007 20:04	4640	18.247	58.489
5/7/2007 20:14	4650	18.254	58.486
5/7/2007 20:24	4660	18.265	58.507
5/7/2007 20:34	4670	18.28	58.483
5/7/2007 20:44	4680	18.281	58.507

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/7/2007 20:54	4690	18.285	58.569
5/7/2007 21:04	4700	18.297	58.581
5/7/2007 21:14	4710	18.293	58.548
5/7/2007 21:24	4720	18.304	58.542
5/7/2007 21:34	4730	18.318	58.618
5/7/2007 21:44	4740	18.325	58.67
5/7/2007 21:54	4750	18.332	58.692
5/7/2007 22:04	4760	18.334	58.811
5/7/2007 22:14	4770	18.336	58.817
5/7/2007 22:24	4780	18.342	58.801
5/7/2007 22:34	4790	18.349	58.762
5/7/2007 22:44	4800	18.354	58.676
5/7/2007 22:54	4810	18.36	58.78
5/7/2007 23:04	4820	18.378	58.836
5/7/2007 23:14	4830	18.379	58.709
5/7/2007 23:24	4840	18.38	58.649
5/7/2007 23:34	4850	18.39	58.716
5/7/2007 23:44	4860	18.397	58.795
5/7/2007 23:54	4870	18.403	58.753
5/8/2007 0:04	4880	18.411	58.784
5/8/2007 0:14	4890	18.419	58.735
5/8/2007 0:24	4900	18.421	58.727
5/8/2007 0:34	4910	18.431	58.755
5/8/2007 0:44	4920	18.432	58.75
5/8/2007 0:54	4930	18.439	58.675
5/8/2007 1:04	4940	18.443	58.71
5/8/2007 1:14	4950	18.446	58.772
5/8/2007 1:24	4960	18.452	58.747
5/8/2007 1:34	4970	18.469	58.814
5/8/2007 1:44	4980	18.459	58.844
5/8/2007 1:54	4990	18.468	58.789
5/8/2007 2:04	5000	18.473	58.79
5/8/2007 2:14	5010	18.478	58.769
5/8/2007 2:24	5020	18.494	58.773
5/8/2007 2:34	5030	18.492	58.712
5/8/2007 2:44	5040	18.497	58.746
5/8/2007 2:54	5050	18.495	58.638
5/8/2007 3:04	5060	18.509	58.651
5/8/2007 3:14	5070	18.512	58.697
5/8/2007 3:24	5080	18.52	58.77
5/8/2007 3:34	5090	18.525	58.842
5/8/2007 3:44	5100	18.528	58.845
5/8/2007 3:54	5110	18.522	58.765
5/8/2007 4:04	5120	18.532	58.749
5/8/2007 4:14	5130	18.531	58.716
5/8/2007 4:24	5140	18.541	58.713
5/8/2007 4:34	5150	18.546	58.756
5/8/2007 4:44	5160	18.558	58.816
5/8/2007 4:54	5170	18.555	58.735
5/8/2007 5:04	5180	18.535	58.839
5/8/2007 5:14	5190	18.568	58.73
5/8/2007 5:24	5200	18.575	58.808
5/8/2007 5:34	5210	18.587	58.729
5/8/2007 5:44	5220	18.584	58.676
5/8/2007 5:54	5230	18.59	58.689
5/8/2007 6:04	5240	18.586	58.695
5/8/2007 6:14	5250	18.612	58.809
5/8/2007 6:24	5260	18.613	58.713
5/8/2007 6:34	5270	18.614	58.676
5/8/2007 6:44	5280	18.61	58.596
5/8/2007 6:54	5290	18.614	58.658
5/8/2007 7:04	5300	18.622	58.663
5/8/2007 7:14	5310	18.628	58.669
5/8/2007 7:24	5320	18.634	58.662
5/8/2007 7:34	5330	18.586	58.704
5/8/2007 7:44	5340	18.647	58.804
5/8/2007 7:54	5350	18.643	58.645

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/8/2007 8:04	5360	18.659	58.72
5/8/2007 8:14	5370	18.645	58.658
5/8/2007 8:24	5380	18.663	58.707
5/8/2007 8:34	5390	18.659	58.676
5/8/2007 8:44	5400	18.682	58.665
5/8/2007 8:54	5410	18.68	58.696
5/8/2007 9:04	5420	18.671	58.853
5/8/2007 9:14	5430	18.682	58.835
5/8/2007 9:24	5440	18.683	58.649
5/8/2007 9:34	5450	18.689	58.63
5/8/2007 9:44	5460	18.689	58.734
5/8/2007 9:54	5470	18.696	58.825
5/8/2007 10:04	5480	18.709	58.689
5/8/2007 10:14	5490	18.707	58.757
5/8/2007 10:24	5500	18.706	58.784
5/8/2007 10:34	5510	18.711	58.682
5/8/2007 10:44	5520	18.719	58.775
5/8/2007 10:54	5530	18.718	58.821
5/8/2007 11:04	5540	18.728	58.837
5/8/2007 11:14	5550	18.726	58.744
5/8/2007 11:24	5560	18.738	58.92
5/8/2007 11:34	5570	18.745	58.904
5/8/2007 11:44	5580	18.743	58.874
5/8/2007 11:54	5590	18.748	58.831
5/8/2007 12:04	5600	18.749	58.746
5/8/2007 12:14	5610	18.749	58.649
5/8/2007 12:24	5620	18.764	58.636
5/8/2007 12:34	5630	18.757	58.654
5/8/2007 12:44	5640	18.771	58.735
5/8/2007 12:54	5650	18.766	58.77
5/8/2007 13:04	5660	18.769	58.711
5/8/2007 13:14	5670	18.773	58.845
5/8/2007 13:24	5680	18.782	58.807
5/8/2007 13:34	5690	18.791	58.852
5/8/2007 13:44	5700	18.778	58.768
5/8/2007 13:54	5710	18.79	58.791
5/8/2007 14:04	5720	18.798	58.852
5/8/2007 14:14	5730	18.793	58.734
5/8/2007 14:24	5740	18.802	58.728
5/8/2007 14:34	5750	18.798	58.843
5/8/2007 14:44	5760	18.802	58.777
5/8/2007 14:54	5770	18.809	58.743
5/8/2007 15:04	5780	18.811	58.792
5/8/2007 15:14	5790	18.812	58.86
5/8/2007 15:24	5800	18.827	58.889
5/8/2007 15:34	5810	18.828	58.894
5/8/2007 15:44	5820	18.83	58.822
5/8/2007 15:54	5830	18.838	58.863
5/8/2007 16:04	5840	18.838	58.842
5/8/2007 16:14	5850	18.843	58.753
5/8/2007 16:24	5860	18.854	58.738
5/8/2007 16:34	5870	18.851	58.899
5/8/2007 16:44	5880	18.859	58.835
5/8/2007 16:54	5890	18.866	58.825
5/8/2007 17:04	5900	18.862	58.826
5/8/2007 17:14	5910	18.887	58.876
5/8/2007 17:24	5920	18.868	58.905
5/8/2007 17:34	5930	18.874	58.935
5/8/2007 17:44	5940	18.875	58.922
5/8/2007 17:54	5950	18.885	58.863
5/8/2007 18:04	5960	18.89	58.9
5/8/2007 18:14	5970	18.886	58.885
5/8/2007 18:24	5980	18.885	58.899
5/8/2007 18:34	5990	18.891	58.786
5/8/2007 18:44	6000	18.901	58.757
5/8/2007 18:54	6010	18.902	58.842
5/8/2007 19:04	6020	18.907	58.89

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/8/2007 19:14	6030	18.91	58.919
5/8/2007 19:24	6040	18.916	58.925
5/8/2007 19:34	6050	18.926	58.935
5/8/2007 19:44	6060	18.923	58.87
5/8/2007 19:54	6070	18.941	58.781
5/8/2007 20:04	6080	18.938	58.769
5/8/2007 20:14	6090	18.932	58.802
5/8/2007 20:24	6100	18.943	58.892
5/8/2007 20:34	6110	18.949	58.844
5/8/2007 20:44	6120	18.953	58.871
5/8/2007 20:54	6130	18.955	58.929
5/8/2007 21:04	6140	18.957	58.962
5/8/2007 21:14	6150	18.962	58.942
5/8/2007 21:24	6160	18.964	58.958
5/8/2007 21:34	6170	18.975	58.949
5/8/2007 21:44	6180	18.972	58.966
5/8/2007 21:54	6190	18.979	58.969
5/8/2007 22:04	6200	18.982	58.911
5/8/2007 22:14	6210	18.996	58.763
5/8/2007 22:24	6220	18.993	58.89
5/8/2007 22:34	6230	18.989	58.895
5/8/2007 22:44	6240	18.997	58.87
5/8/2007 22:54	6250	19.001	58.896
5/8/2007 23:04	6260	19.007	58.857
5/8/2007 23:14	6270	19.01	58.766
5/8/2007 23:24	6280	19.005	58.709
5/8/2007 23:34	6290	19.015	58.814
5/8/2007 23:44	6300	19.029	58.75
5/8/2007 23:54	6310	19.029	58.81
5/9/2007 0:04	6320	19.04	58.831
5/9/2007 0:14	6330	19.043	58.9
5/9/2007 0:24	6340	19.036	58.916
5/9/2007 0:34	6350	19.048	58.898
5/9/2007 0:44	6360	19.043	58.827
5/9/2007 0:54	6370	19.046	58.9
5/9/2007 1:04	6380	19.05	58.902
5/9/2007 1:14	6390	19.054	58.963
5/9/2007 1:24	6400	19.066	58.913
5/9/2007 1:34	6410	19.064	58.872
5/9/2007 1:44	6420	19.069	58.881
5/9/2007 1:54	6430	19.073	58.731
5/9/2007 2:04	6440	19.07	58.687
5/9/2007 2:14	6450	19.077	58.83
5/9/2007 2:24	6460	19.081	58.855
5/9/2007 2:34	6470	19.082	58.675
5/9/2007 2:44	6480	19.085	58.809
5/9/2007 2:54	6490	19.086	58.825
5/9/2007 3:04	6500	19.091	58.835
5/9/2007 3:14	6510	19.09	58.825
5/9/2007 3:24	6520	19.093	58.903
5/9/2007 3:34	6530	19.101	58.743
5/9/2007 3:44	6540	19.105	58.866
5/9/2007 3:54	6550	19.104	58.913
5/9/2007 4:04	6560	19.125	58.923
5/9/2007 4:14	6570	19.113	58.839
5/9/2007 4:24	6580	19.112	58.851
5/9/2007 4:34	6590	19.108	58.898
5/9/2007 4:44	6600	19.115	58.805
5/9/2007 4:54	6610	19.115	58.855
5/9/2007 5:04	6620	19.121	58.75
5/9/2007 5:14	6630	19.119	58.79
5/9/2007 5:24	6640	19.13	58.851
5/9/2007 5:34	6650	19.127	58.864
5/9/2007 5:44	6660	19.128	58.845
5/9/2007 5:54	6670	19.13	58.84
5/9/2007 6:04	6680	19.138	58.881
5/9/2007 6:14	6690	19.139	58.747



**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/9/2007 6:24	6700	19.14	58.713
5/9/2007 6:34	6710	19.146	58.895
5/9/2007 6:44	6720	19.148	58.909
5/9/2007 6:54	6730	19.154	58.88
5/9/2007 7:04	6740	19.148	58.907
5/9/2007 7:14	6750	19.151	58.882
5/9/2007 7:24	6760	19.146	58.916
5/9/2007 7:34	6770	19.125	58.887
5/9/2007 7:44	6780	19.104	58.887
5/9/2007 7:54	6790	19.121	58.764
5/9/2007 8:04	6800	19.146	58.853
5/9/2007 8:14	6810	19.15	58.717
5/9/2007 8:24	6820	19.154	58.686
5/9/2007 8:34	6830	19.15	58.685
5/9/2007 8:44	6840	19.153	58.674
5/9/2007 8:54	6850	19.158	58.708
5/9/2007 9:04	6860	19.163	58.77
5/9/2007 9:14	6870	19.162	58.883
5/9/2007 9:24	6880	19.175	58.801
5/9/2007 9:34	6890	19.171	58.922
5/9/2007 9:44	6900	19.172	58.682
5/9/2007 9:54	6910	19.173	58.549
5/9/2007 10:04	6920	19.176	58.605
5/9/2007 10:14	6930	19.18	58.538
5/9/2007 10:24	6940	19.188	58.538
5/9/2007 10:34	6950	19.189	58.473
5/9/2007 10:44	6960	19.189	58.457
5/9/2007 10:54	6970	19.199	58.425
5/9/2007 11:04	6980	19.198	58.422
5/9/2007 11:14	6990	19.196	58.448
5/9/2007 11:24	7000	19.201	58.475
5/9/2007 11:34	7010	19.2	58.727
5/9/2007 11:44	7020	19.202	58.764
5/9/2007 11:54	7030	19.216	58.679
5/9/2007 12:04	7040	19.218	58.694
5/9/2007 12:14	7050	19.215	58.784
5/9/2007 12:24	7060	19.221	58.781
5/9/2007 12:34	7070	19.219	58.784
5/9/2007 12:44	7080	19.22	58.698
5/9/2007 12:54	7090	19.224	58.671
5/9/2007 13:04	7100	19.234	58.704
5/9/2007 13:14	7110	19.231	58.747
5/9/2007 13:24	7120	19.23	58.833
5/9/2007 13:34	7130	19.248	58.85
5/9/2007 13:44	7140	19.237	58.822
5/9/2007 13:54	7150	19.249	58.679
5/9/2007 14:04	7160	19.239	58.781
5/9/2007 14:14	7170	19.25	58.844
5/9/2007 14:24	7180	19.255	58.801
5/9/2007 14:34	7190	19.262	58.789
5/9/2007 14:44	7200	19.262	58.855
5/9/2007 14:54	7210	19.261	58.802
5/9/2007 15:04	7220	19.265	58.834
5/9/2007 15:14	7230	19.264	58.759
5/9/2007 15:24	7240	19.268	58.751
5/9/2007 15:34	7250	19.278	58.756
5/9/2007 15:44	7260	19.279	58.841
5/9/2007 15:54	7270	19.275	58.827
5/9/2007 16:04	7280	19.285	58.737
5/9/2007 16:14	7290	19.286	58.679
5/9/2007 16:24	7300	19.291	58.692
5/9/2007 16:34	7310	19.283	58.753
5/9/2007 16:44	7320	19.293	58.661
5/9/2007 16:54	7330	19.295	58.733
5/9/2007 17:04	7340	19.299	58.791
5/9/2007 17:14	7350	19.302	58.847
5/9/2007 17:24	7360	19.307	58.857

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/9/2007 17:34	7370	19.311	58.784
5/9/2007 17:44	7380	19.315	58.793
5/9/2007 17:54	7390	19.314	58.745
5/9/2007 18:04	7400	19.315	58.8
5/9/2007 18:14	7410	19.319	58.763
5/9/2007 18:24	7420	19.315	58.743
5/9/2007 18:34	7430	19.328	58.758
5/9/2007 18:44	7440	19.325	58.72
5/9/2007 18:54	7450	19.331	58.724
5/9/2007 19:04	7460	19.328	58.785
5/9/2007 19:14	7470	19.33	58.744
5/9/2007 19:24	7480	19.33	58.71
5/9/2007 19:34	7490	19.324	58.794
5/9/2007 19:44	7500	19.33	58.838
5/9/2007 19:54	7510	19.346	58.784
5/9/2007 20:04	7520	19.347	58.815
5/9/2007 20:14	7530	19.352	58.706
5/9/2007 20:24	7540	19.339	58.797
5/9/2007 20:34	7550	19.353	58.819
5/9/2007 20:44	7560	19.351	58.834
5/9/2007 20:54	7570	19.353	58.836
5/9/2007 21:04	7580	19.352	58.698
5/9/2007 21:14	7590	19.358	58.768
5/9/2007 21:24	7600	19.362	58.802
5/9/2007 21:34	7610	19.367	58.761
5/9/2007 21:44	7620	19.363	58.744
5/9/2007 21:54	7630	19.37	58.721
5/9/2007 22:04	7640	19.372	58.721
5/9/2007 22:14	7650	19.377	58.68
5/9/2007 22:24	7660	19.378	58.673
5/9/2007 22:34	7670	19.387	58.65
5/9/2007 22:44	7680	19.384	58.643
5/9/2007 22:54	7690	19.39	58.64
5/9/2007 23:04	7700	19.388	58.693
5/9/2007 23:14	7710	19.396	58.613
5/9/2007 23:24	7720	19.402	58.646
5/9/2007 23:34	7730	19.396	58.754
5/9/2007 23:44	7740	19.403	58.823
5/9/2007 23:54	7750	19.399	58.772
5/10/2007 0:04	7760	19.401	58.739
5/10/2007 0:14	7770	19.406	58.802
5/10/2007 0:24	7780	19.406	58.863
5/10/2007 0:34	7790	19.412	58.802
5/10/2007 0:44	7800	19.42	58.783
5/10/2007 0:54	7810	19.42	58.882
5/10/2007 1:04	7820	19.42	58.86
5/10/2007 1:14	7830	19.424	58.728
5/10/2007 1:24	7840	19.422	58.677
5/10/2007 1:34	7850	19.426	58.802
5/10/2007 1:44	7860	19.432	58.832
5/10/2007 1:54	7870	19.434	58.873
5/10/2007 2:04	7880	19.435	58.692
5/10/2007 2:14	7890	19.438	58.689
5/10/2007 2:24	7900	19.44	58.784
5/10/2007 2:34	7910	19.444	58.883
5/10/2007 2:44	7920	19.439	58.863
5/10/2007 2:54	7930	19.439	58.791
5/10/2007 3:04	7940	19.448	58.687
5/10/2007 3:14	7950	19.441	58.683
5/10/2007 3:24	7960	19.441	58.857
5/10/2007 3:34	7970	19.457	58.856
5/10/2007 3:44	7980	19.454	58.756
5/10/2007 3:54	7990	19.451	58.787
5/10/2007 4:04	8000	19.441	58.701
5/10/2007 4:14	8010	19.451	58.853
5/10/2007 4:24	8020	19.459	58.764
5/10/2007 4:34	8030	19.452	58.663

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/10/2007 4:44	8040	19.461	58.782
5/10/2007 4:54	8050	19.455	58.729
5/10/2007 5:04	8060	19.458	58.751
5/10/2007 5:14	8070	19.463	58.757
5/10/2007 5:24	8080	19.463	58.73
5/10/2007 5:34	8090	19.455	58.732
5/10/2007 5:44	8100	19.469	58.839
5/10/2007 5:54	8110	19.462	58.794
5/10/2007 6:04	8120	19.467	58.82
5/10/2007 6:14	8130	19.473	58.744
5/10/2007 6:24	8140	19.473	58.661
5/10/2007 6:34	8150	19.48	58.715
5/10/2007 6:44	8160	19.476	58.795
5/10/2007 6:54	8170	19.483	58.725
5/10/2007 7:04	8180	19.481	58.814
5/10/2007 7:14	8190	19.483	58.792
5/10/2007 7:24	8200	19.486	58.833
5/10/2007 7:34	8210	19.484	58.808
5/10/2007 7:44	8220	19.494	58.827
5/10/2007 7:54	8230	19.486	58.844
5/10/2007 8:04	8240	19.494	58.857
5/10/2007 8:14	8250	19.49	58.763
5/10/2007 8:24	8260	19.488	58.782
5/10/2007 8:34	8270	19.496	58.699
5/10/2007 8:44	8280	19.499	58.688
5/10/2007 8:54	8290	19.498	58.847
5/10/2007 9:04	8300	19.508	58.818
5/10/2007 9:14	8310	19.499	58.692
5/10/2007 9:24	8320	19.536	58.82
5/10/2007 9:34	8330	19.486	58.795
5/10/2007 9:44	8340	19.517	58.845
5/10/2007 9:54	8350	19.518	58.77
5/10/2007 10:04	8360	19.517	58.802
5/10/2007 10:14	8370	19.512	58.813
5/10/2007 10:24	8380	19.514	58.753
5/10/2007 10:34	8390	19.518	58.782
5/10/2007 10:44	8400	19.515	58.618
5/10/2007 10:54	8410	19.524	58.78
5/10/2007 11:04	8420	19.523	58.823
5/10/2007 11:14	8430	19.528	58.846
5/10/2007 11:24	8440	19.521	58.803
5/10/2007 11:34	8450	19.53	58.765
5/10/2007 11:44	8460	19.527	58.771
5/10/2007 11:54	8470	19.523	58.867
5/10/2007 12:04	8480	19.522	58.865
5/10/2007 12:14	8490	19.53	58.83
5/10/2007 12:24	8500	19.526	58.88
5/10/2007 12:34	8510	19.53	58.746
5/10/2007 12:44	8520	19.532	58.639
5/10/2007 12:54	8530	19.547	58.697
5/10/2007 13:04	8540	19.549	58.905
5/10/2007 13:14	8550	19.545	58.923
5/10/2007 13:24	8560	19.541	58.934
5/10/2007 13:34	8570	19.55	58.934
5/10/2007 13:44	8580	19.556	58.906
5/10/2007 13:54	8590	19.556	58.794
5/10/2007 14:04	8600	19.553	58.748
5/10/2007 14:14	8610	19.552	58.641
5/10/2007 14:24	8620	19.555	58.593
5/10/2007 14:34	8630	19.554	58.841
5/10/2007 14:44	8640	19.557	58.917
5/10/2007 14:54	8650	19.564	58.887
5/10/2007 15:04	8660	19.573	58.874
5/10/2007 15:14	8670	19.578	58.815
5/10/2007 15:24	8680	19.568	58.776
5/10/2007 15:34	8690	19.571	58.865
5/10/2007 15:44	8700	19.577	58.875

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/10/2007 15:54	8710	19.588	58.882
5/10/2007 16:04	8720	19.575	58.74
5/10/2007 16:14	8730	19.585	58.867
5/10/2007 16:24	8740	19.586	58.808
5/10/2007 16:34	8750	19.592	58.839
5/10/2007 16:44	8760	19.579	58.784
5/10/2007 16:54	8770	19.593	58.932
5/10/2007 17:04	8780	19.602	58.894
5/10/2007 17:14	8790	19.602	58.867
5/10/2007 17:24	8800	19.598	58.887
5/10/2007 17:34	8810	19.596	58.923
5/10/2007 17:44	8820	19.603	58.887
5/10/2007 17:54	8830	19.604	58.851
5/10/2007 18:04	8840	19.612	58.852
5/10/2007 18:14	8850	19.606	58.898
5/10/2007 18:24	8860	19.612	58.851
5/10/2007 18:34	8870	19.628	58.863
5/10/2007 18:44	8880	19.617	58.921
5/10/2007 18:54	8890	19.619	58.839
5/10/2007 19:04	8900	19.625	58.888
5/10/2007 19:14	8910	19.622	58.879
5/10/2007 19:24	8920	19.632	58.913
5/10/2007 19:34	8930	19.629	58.758
5/10/2007 19:44	8940	19.602	58.897
5/10/2007 19:54	8950	19.575	58.844
5/10/2007 20:04	8960	19.555	58.888
5/10/2007 20:14	8970	19.536	58.85
5/10/2007 20:24	8980	19.528	58.737
5/10/2007 20:34	8990	19.505	58.829
5/10/2007 20:44	9000	19.488	58.86
5/10/2007 20:54	9010	19.515	58.903
5/10/2007 21:04	9020	19.529	58.875
5/10/2007 21:14	9030	19.533	58.875
5/10/2007 21:24	9040	19.524	58.901
5/10/2007 21:34	9050	19.515	58.887
5/10/2007 21:44	9060	19.512	58.783
5/10/2007 21:54	9070	19.507	58.778
5/10/2007 22:04	9080	19.506	58.677
5/10/2007 22:14	9090	19.504	58.678
5/10/2007 22:24	9100	19.491	58.85
5/10/2007 22:34	9110	19.491	58.823
5/10/2007 22:44	9120	19.481	58.739
5/10/2007 22:54	9130	19.48	58.885
5/10/2007 23:04	9140	19.469	58.837
5/10/2007 23:14	9150	19.459	58.871
5/10/2007 23:24	9160	19.452	58.845
5/10/2007 23:34	9170	19.439	58.69
5/10/2007 23:44	9180	19.439	58.77
5/10/2007 23:54	9190	19.428	58.894
5/11/2007 0:04	9200	19.426	58.844
5/11/2007 0:14	9210	19.409	58.877
5/11/2007 0:24	9220	19.41	58.846
5/11/2007 0:34	9230	19.404	58.896
5/11/2007 0:44	9240	19.402	58.854
5/11/2007 0:54	9250	19.393	58.866
5/11/2007 1:04	9260	19.384	58.857
5/11/2007 1:14	9270	19.372	58.695
5/11/2007 1:24	9280	19.369	58.861
5/11/2007 1:34	9290	19.375	58.889
5/11/2007 1:44	9300	19.363	58.921
5/11/2007 1:54	9310	19.363	58.904
5/11/2007 2:04	9320	19.355	58.89
5/11/2007 2:14	9330	19.355	58.845
5/11/2007 2:24	9340	19.362	58.894
5/11/2007 2:34	9350	19.346	58.857
5/11/2007 2:44	9360	19.349	58.845
5/11/2007 2:54	9370	19.346	58.805

**MW-93D ELECTRONIC DATA  
WPL PUMPING TEST**

Harley-Davidson Motor Company Operations, Inc.

		Sensor: Pres 30G	Sensor: Pres 30G
	Elapsed Time	SN#: 108486	SN#: 108486
Date and Time	Minutes	Level-DTW (ft)	Temperature (F)
5/11/2007 3:04	9380	19.347	58.833
5/11/2007 3:14	9390	19.34	58.748
5/11/2007 3:24	9400	19.347	58.715
5/11/2007 3:34	9410	19.344	58.685
5/11/2007 3:44	9420	19.35	58.676
5/11/2007 3:54	9430	19.352	58.624
5/11/2007 4:04	9440	19.356	58.817
5/11/2007 4:14	9450	19.354	58.829
5/11/2007 4:24	9460	19.349	58.87
5/11/2007 4:34	9470	19.359	58.872
5/11/2007 4:44	9480	19.357	58.88
5/11/2007 4:54	9490	19.368	58.896
5/11/2007 5:04	9500	19.367	58.848
5/11/2007 5:14	9510	19.373	58.734
5/11/2007 5:24	9520	19.367	58.796
5/11/2007 5:34	9530	19.372	58.806
5/11/2007 5:44	9540	19.37	58.833
5/11/2007 5:54	9550	19.376	58.925
5/11/2007 6:04	9560	19.38	58.931
5/11/2007 6:14	9570	19.383	58.884
5/11/2007 6:24	9580	19.382	58.905
5/11/2007 6:34	9590	19.391	58.872
5/11/2007 6:44	9600	19.395	58.879
5/11/2007 6:54	9610	19.389	58.759
5/11/2007 7:04	9620	19.392	58.738
5/11/2007 7:14	9630	19.396	58.807
5/11/2007 7:24	9640	19.391	58.925
5/11/2007 7:34	9650	19.405	58.909
5/11/2007 7:44	9660	19.406	58.86
5/11/2007 7:54	9670	19.407	58.819
5/11/2007 8:04	9680	19.413	58.713
5/11/2007 8:14	9690	19.412	58.887
5/11/2007 8:24	9700	19.42	58.896
5/11/2007 8:34	9710	19.425	58.888
5/11/2007 8:44	9720	19.415	58.897
5/11/2007 8:54	9730	19.43	58.869
5/11/2007 9:04	9740	19.424	58.838
5/11/2007 9:14	9750	19.433	58.827
5/11/2007 9:24	9760	19.436	58.83
5/11/2007 9:34	9770	19.438	58.744
5/11/2007 9:44	9780	19.445	58.694
5/11/2007 9:54	9790	19.445	58.642
5/11/2007 10:04	9800	19.447	58.652
5/11/2007 10:14	9810	19.447	58.707
5/11/2007 10:24	9820	19.442	58.716
5/11/2007 10:34	9830	19.449	58.847
5/11/2007 10:44	9840	19.453	58.856
5/11/2007 10:54	9850	19.459	58.843
5/11/2007 11:04	9860	19.46	58.741
5/11/2007 11:14	9870	19.46	58.821
5/11/2007 11:24	9880	19.462	58.907
5/11/2007 11:34	9890	19.471	58.841
5/11/2007 11:44	9900	19.474	58.858
5/11/2007 11:54	9910	19.476	58.833
5/11/2007 12:04	9920	19.475	58.801

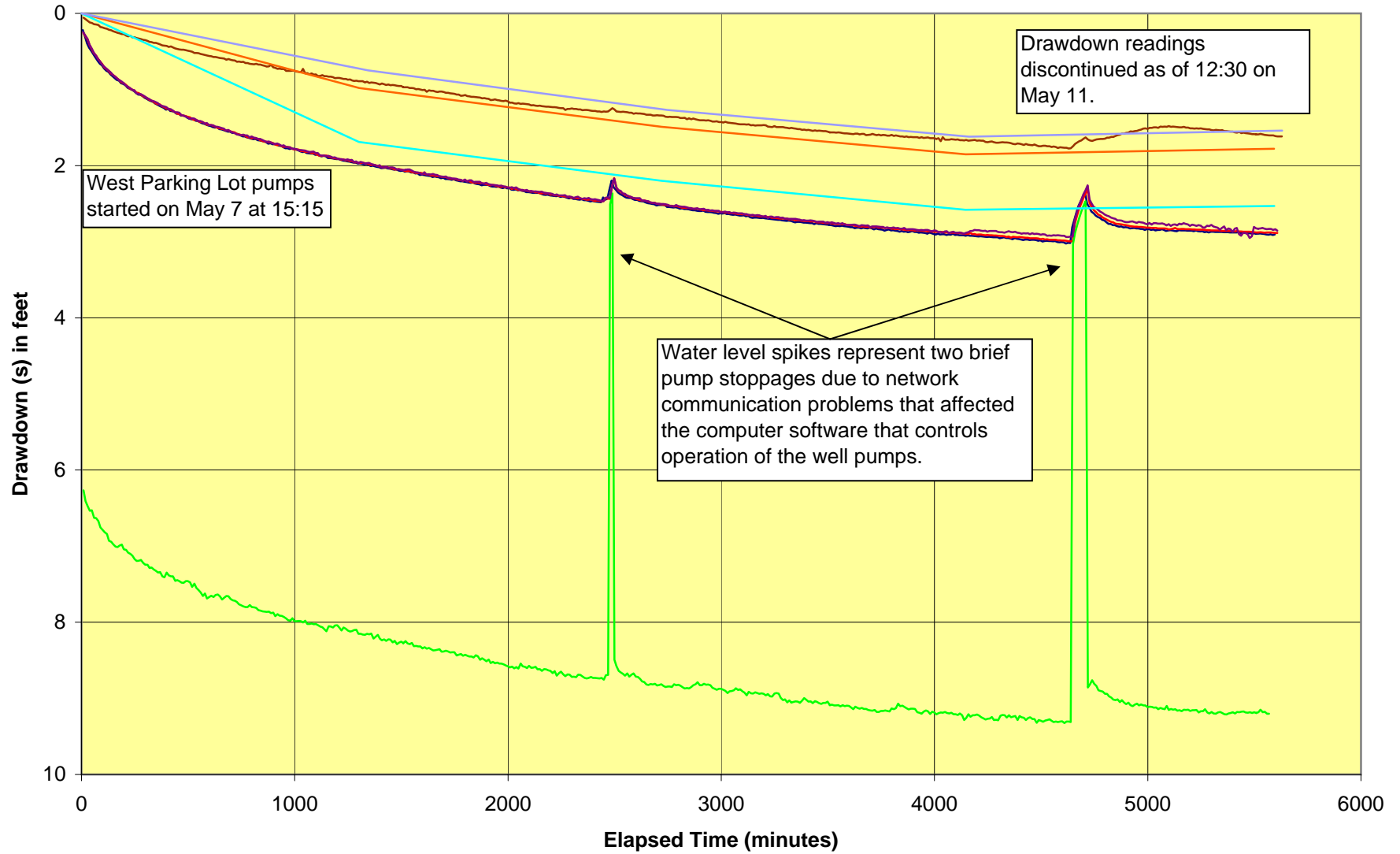
## **APPENDIX L**

### **West Parking Lot Constant Rate Test - Graphical Plots**

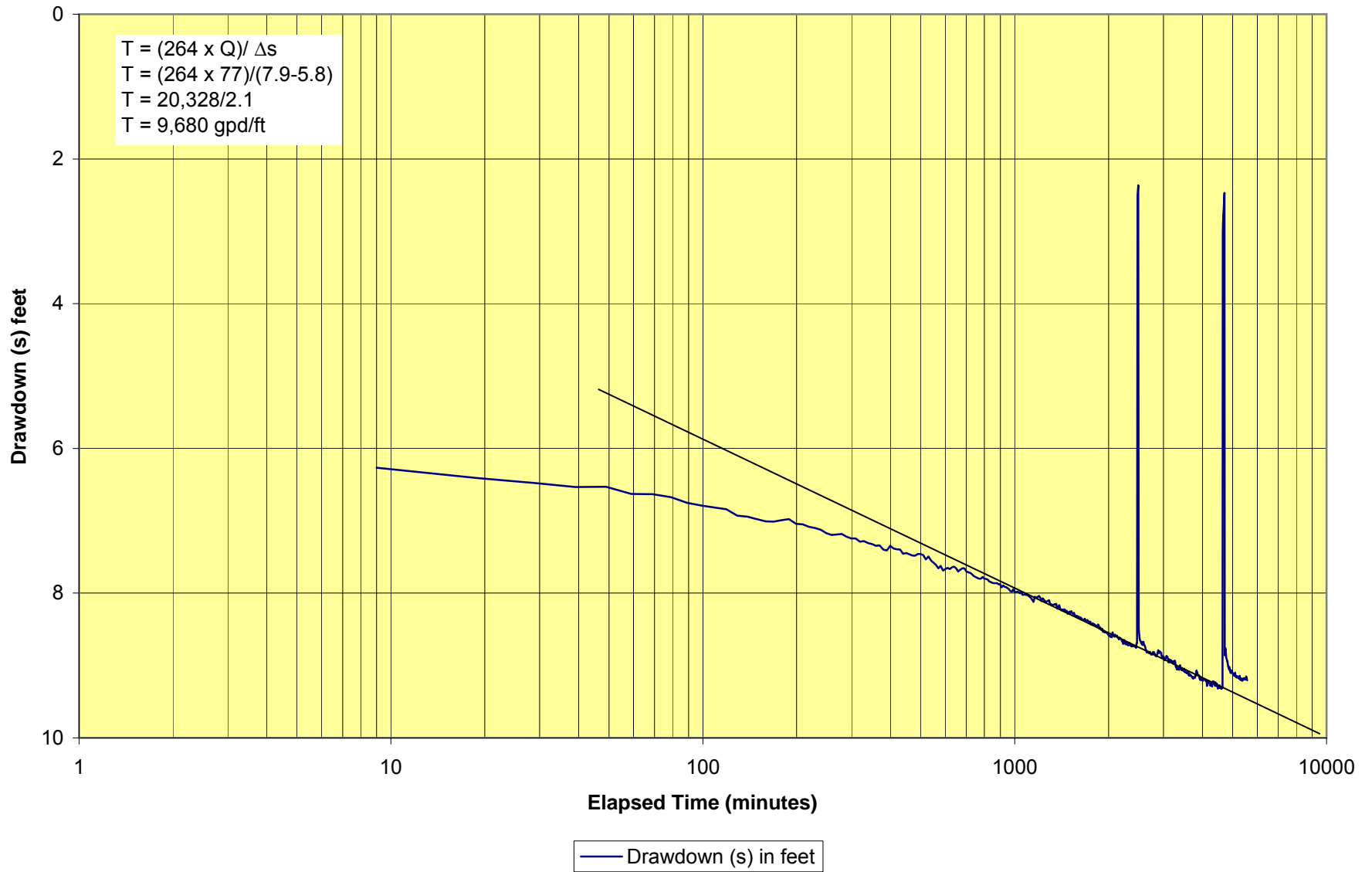
# APPENDIX L

## Groundwater Drawdown During WPL Pumping Test

Harley-Davidson Motor Company Operations, Inc.

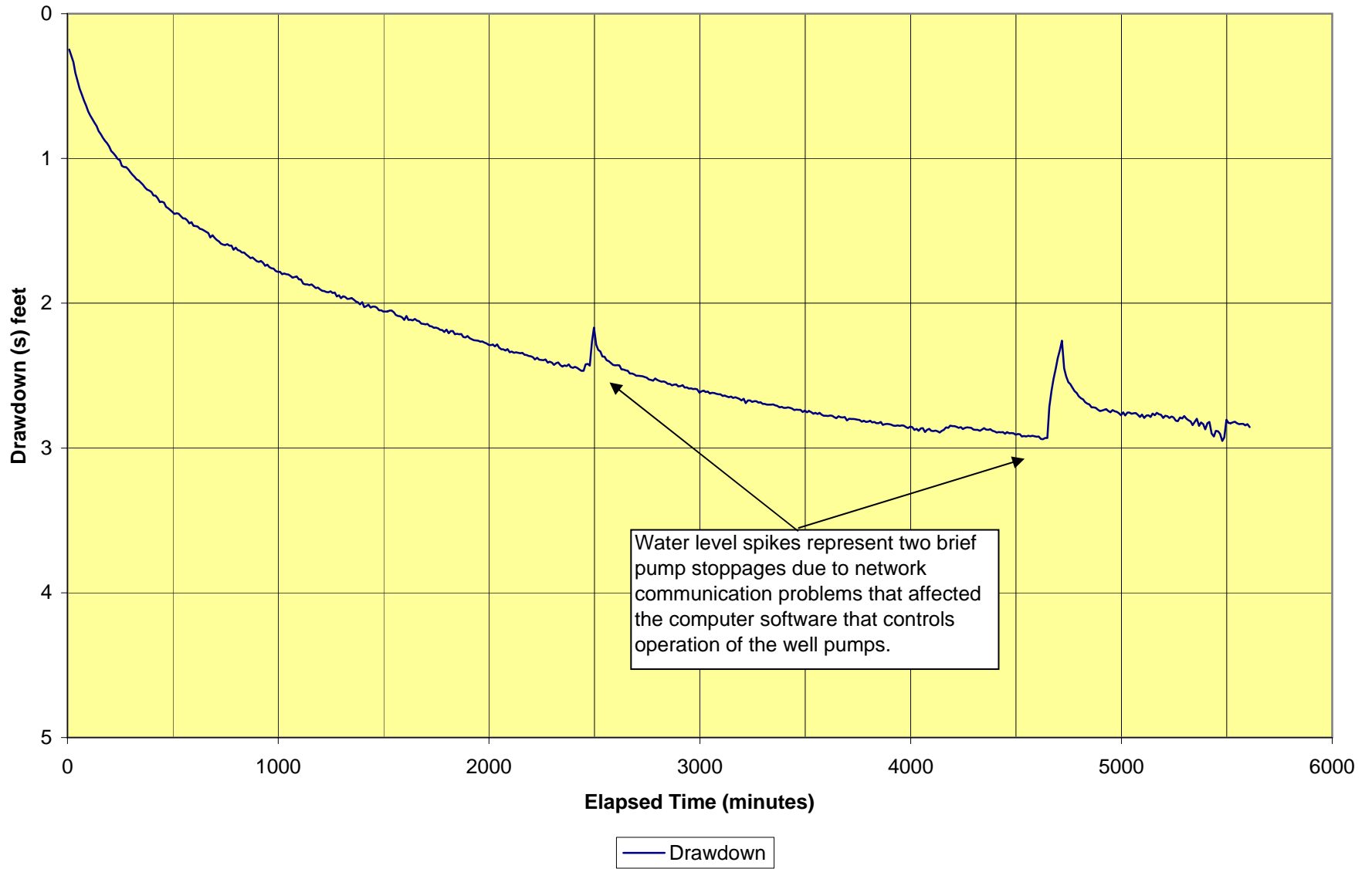


**APPENDIX L**  
**CW-9 Drawdown Data from**  
**WPL Pumping Test - May 7 to 11, 2007**  
Harley-Davidson Motor Company Operations, Inc.

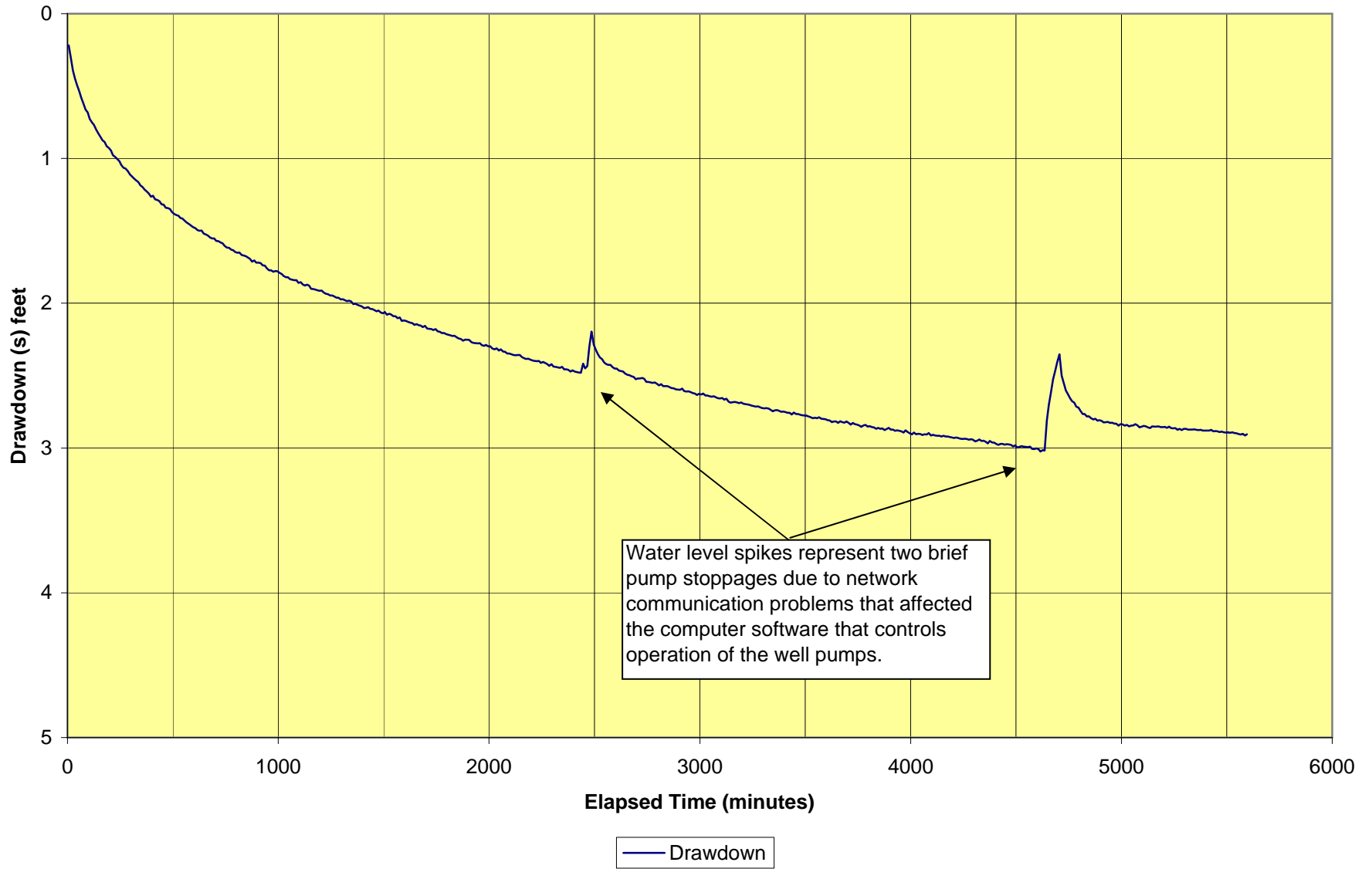




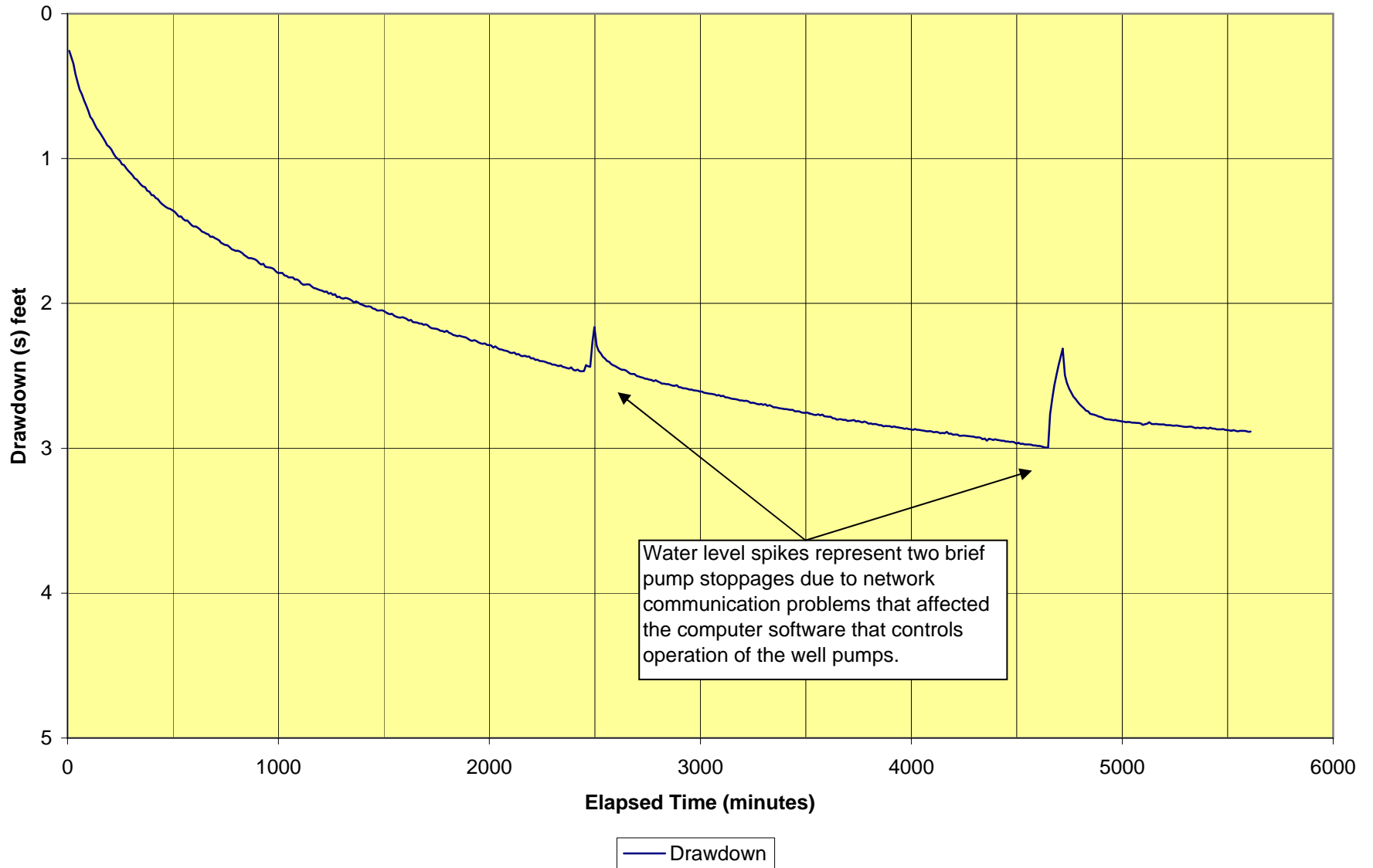
**APPENDIX L**  
**CW-20 Drawdown Data from**  
**WPL Pumping Test - May 7, 2007**  
Harley-Davidson Motor Company Operations, Inc.



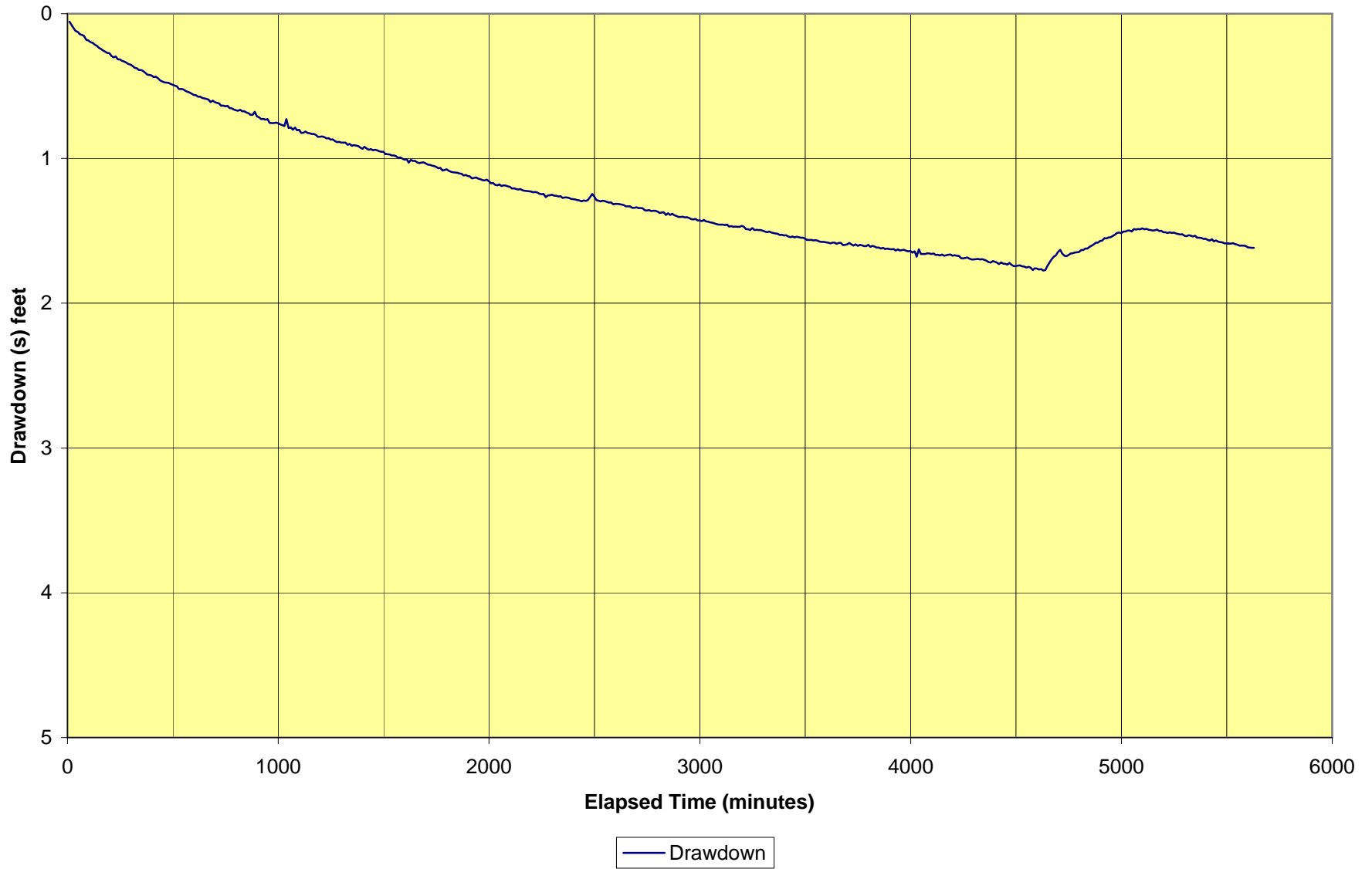
**APPENDIX L**  
**MW-37D Drawdown Data from**  
**WPL Pumping Test - May 7 to 11, 2007**  
Harley-Davidson Motor Company Operations, Inc.



**APPENDIX L**  
**MW-75D Drawdown Data from**  
**WPL Pumping Test - May 7 to 11, 2007**  
Harley-Davidson Motor Company Operations, Inc.



**APPENDIX L**  
**MW-93D Drawdown Data from**  
**WPL Pumping Test - May 7 to 11, 2007**  
Harley-Davidson Motor Company Operations, Inc.



## **APPENDIX M**

### **Mechanical Considerations for CW-20**

### **Conveyance Piping Limitations**

When the WPL groundwater collection system was installed in 1994, a spare groundwater collection line was left in place between Building 41 and the CW-9 wellhead. It was intended to be used for a potential future well to the south of CW-9, if such a well became necessary. Prior to the construction of rerouted Eden Road, and in anticipation of the CW-20 project, the spare groundwater conveyance line and power and communication conduits were extended to the vicinity of proposed well CW-20. These spare conduits (and the groundwater conveyance line) were connected to the CW-20 wellhead during the summer of 2006. The spare groundwater conveyance line installed in 1994 was a two-inch-diameter HDPE pipe.

During the CW-20 step-test, the pump curve for the temporary submersible pump suggested that the pump in use would achieve approximately 100 gpm through the existing plumbing. However, a maximum flow rate of only 71 gpm could be attained. As a test, SAIC rerouted piping at the wellhead to discharge groundwater directly to a portable tank. The submersible pump was then activated and the yield measured while pumping with minimal flow resistance. During this test, the submersible pump attained a flow rate of approximately 200 gpm. As a result, it appears that there are additional limiting factors that are part of the existing plumbing system that will need to be considered if design of a permanent pumping system at well CW-20 is pursued.

### **Electrical Source Limitations**

When the WPL groundwater collection system was installed in 1994, a spare direct burial power cable was left in place between Building 41 and the CW-9 wellhead. During the summer of 2006, an empty conduit was extended from the area of CW-9 to the CW-20 wellhead. The spare power cable currently extending from Building 41 to CW-9 consists of #10 wire.

Based on the installed power line, the largest motor available for connection in conformance with standard wiring guidelines is a 3-hp motor. During the CW-20 pumping test, a 15-hp pump

motor was powered using a portable generator to produce 60 gpm. Therefore, the existing power lead cannot supply the energy needed for the necessary pump.

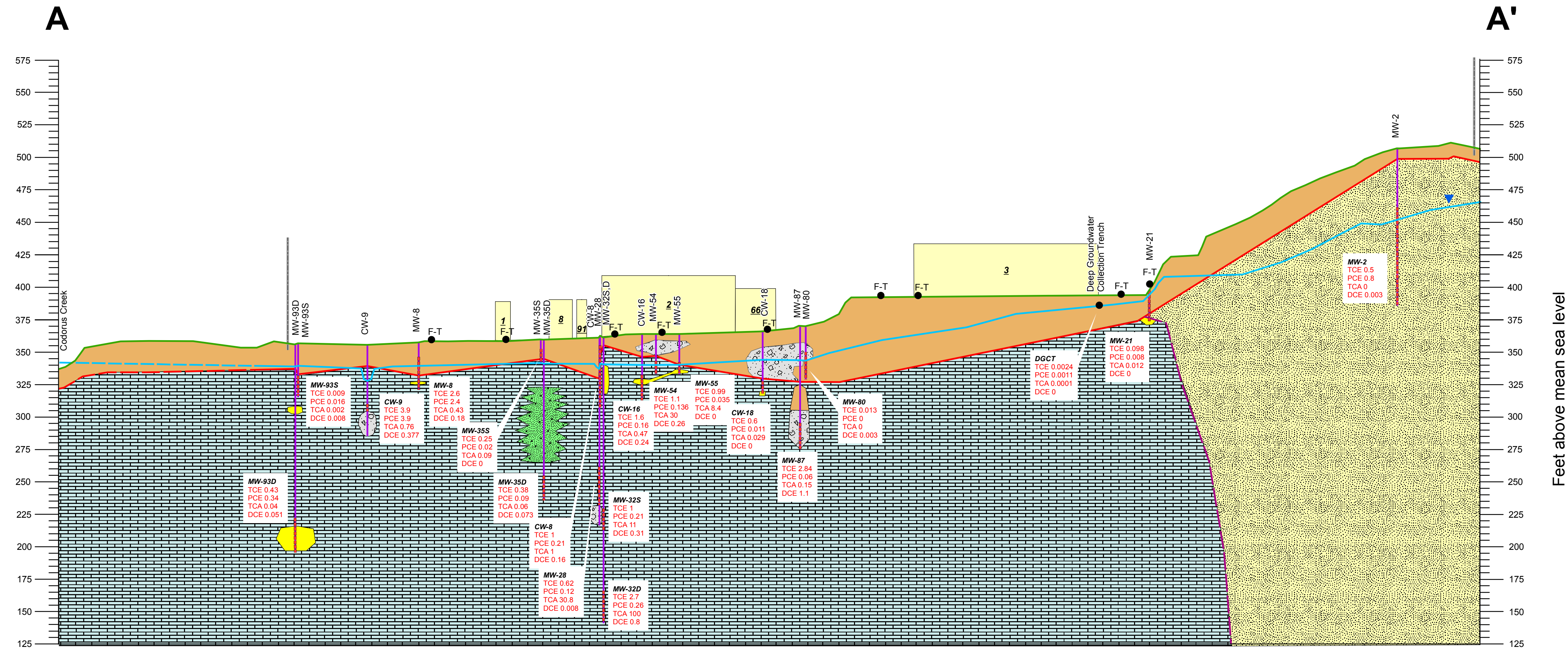
As a result, several options will need to be evaluated by Harley-Davidson in order to supply power to the CW-20 wellhead. These options include the following:

- 1. Existing Power Panel Southeast of Storm water Basin A** – Harley-Davidson has assessed the available electric power in a control panel located southeast of Storm water Basin A. The power to this panel was confirmed to be 480-volt, single-phase. In order to operate a 15-hp pump, 3-phase power would be more efficient; thus, this source is not desirable for use. Additionally, without further research, this panel may not have the capacity to provide the necessary amperage. It may be possible to supply 480-volt, 3-phase power to this panel, but further evaluation of the power feeding this panel is necessary.
- 2. Supply Power from Building 41** – Consistent with other WPL wells, Harley-Davidson could install new conduits and wiring from the existing WPL panel (GWTS-CP-4). This would involve trenching from Building 41 through the WPL and under Eden Road.
- 3. Coordinate New Electrical Service** – This method would involve contacting the local electric provider to install a new electrical service to the vicinity of well CW-20. This would likely involve setting a new pole, new transformer, and a new electrical meter.
- 4. Identify another Harley-Davidson Power Source to Feed From** – If the unit powering the Storm water Basin A panel (number 1 above) is not available, power may be able to be provided from another existing source. Coordination with Harley-Davidson electrical engineers would be necessary. This task would likely involve trenching beneath Eden Road.

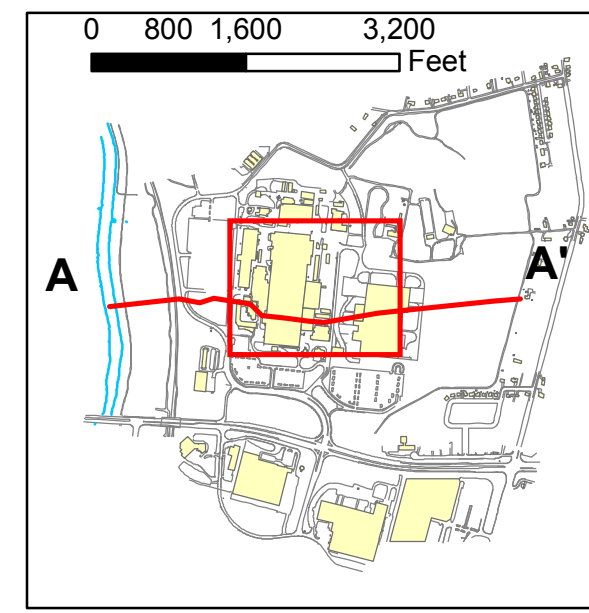
It should be noted that options 1, 3, and 4 above will result in the need for hardware installations at the CW-20 wellhead instead of the WPL control panel GWTS-CP-4. This is a result of the

need to be able to control and monitor operation of the CW-20 wellhead with power and control wires that do not originate in GWTS-CP-4. At a minimum, a new control panel with a new motor starter (and wiring), new programmable logic controller (PLC), new level control, and new radio receivers/transmitters will be necessary to effectively control and monitor operation of the CW-20 well pump using the existing RSView software package.





Feet above mean sea level



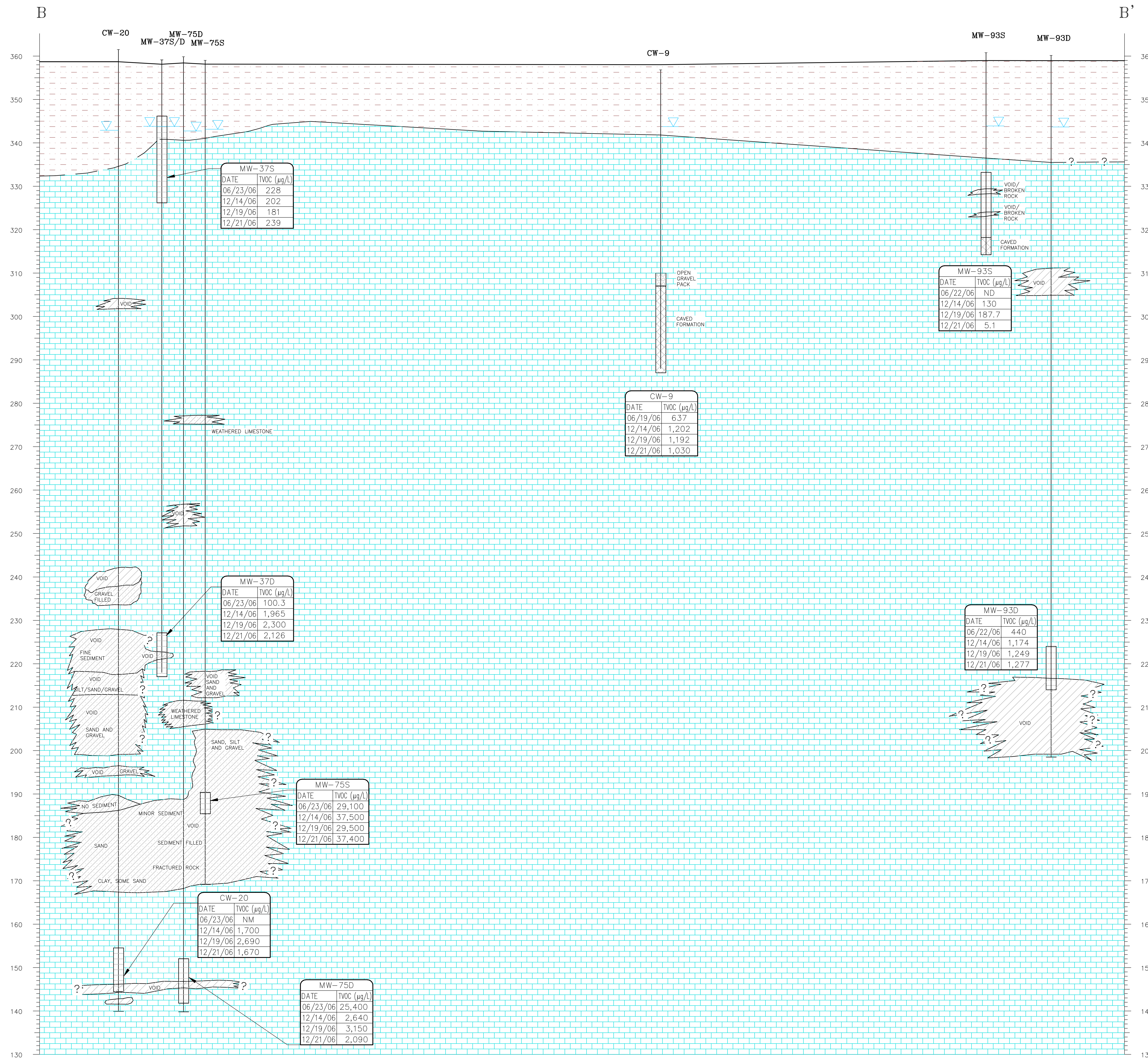
**Legend**

- Surface
- Water Table
- Extrapolated Water Table
- Property Boundry
- Wells
- Screened Interval
- Bedrock
- Extrapolated Bedrock
- Bedrock Contact
- # Buildings
- Silt / Clay
- Open Solution Cavity
- Solution Cavity with Unknown Material
- Alluvial Gravels
- Limestone / Dolostone
- Sandstone / Quartzite

**Notes:**  
 - Groundwater table profile based on groundwater contours from waterlevels of June, 2005 (SAIC, 9/2005).  
 - Colors not representative of geologic age.  
 - Red lettered values indicate maximum detected concentrations in the groundwater throughout period of record (1986-2004) in parts per million.  
 0 = below detection limit  
 TCE = Trichloroethene  
 PCE = Tetrachloroethene  
 TCA = 1,1,1 Trichloroethane  
 DCE = cis 1,2 Dichloroethene

**SCALES**  
 Horizontal: 1"=200'  
 Vertical: 1"=50'  
 Vertical Exaggeration 4x

<b>HARLEY - DAVIDSON MOTOR COMPANY OPERATIONS, INC. YORK FACILITY</b>			
Site-Wide Cross Section A - A'			
Drawn: PAE	Checked: SMS	Approved: SMS	Revisions: PAE
Date: 1/25/06	2/4/06	2/4/06	2/7/06



MW-37S

DATE	TVOC (µg/L)
06/23/06	228
12/14/06	202
12/19/06	181
12/21/06	239

CW-9

DATE	TVOC (µg/L)
06/19/06	6.37
12/14/06	1,202
12/19/06	1,192
12/21/06	1,030

MW-93S

DATE	TVOC (µg/L)
06/22/06	ND
12/14/06	130
12/19/06	187.7
12/21/06	5.1

MW-37D

DATE	TVOC (µg/L)
06/23/06	100.3
12/14/06	1,965
12/19/06	2,300
12/21/06	2,126

MW-93D

DATE	TVOC (µg/L)
06/22/06	440
12/14/06	1,174
12/19/06	1,249
12/21/06	1,277

MW-75S

DATE	TVOC (µg/L)
06/23/06	29,100
12/14/06	37,500
12/19/06	29,500
12/21/06	37,400

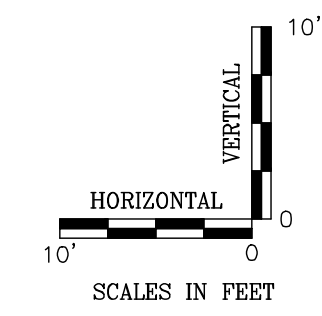
CW-20

DATE	TVOC (µg/L)
06/23/06	NM
12/14/06	1,700
12/19/06	2,690
12/21/06	1,670

MW-75D

DATE	TVOC (µg/L)
06/23/06	25,400
12/14/06	2,640
12/19/06	3,150
12/21/06	2,090

**DRAFT**



**HARLEY-DAVIDSON MOTOR COMPANY OPERATIONS, INC.**  
 YORK VEHICLE OPERATIONS  
 1425 EDEN ROAD, YORK PA 17402

**SOUTHWEST CORNER OF WEST PARKING LOT CROSS-SECTION**

checked	approved	plate no.
RAM		2
10/25/07	date	date
job no. 01-1633-00-9574-600	file no. 9574-004.dwg	

**SAIC**  
From Science to Solutions