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June 18, 2009

Reference No. 003978

Ms. Sheri Bianchin UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 77 West Jackson Chicago, Illinois 60604

Dear Ms. Bianchin and Mr. Edelstein:

Re: 2008 Annual Monitoring Report Wausau Water Supply NPL Site Mr. Gary Edelstein WISCONSIN DEPARTMENT OF NATURAL RESOURCES P.O. Box 7921 Madison, Wisconsin 53707-7921

On behalf of the Wausau Water Supply PRP Group, Conestoga-Rovers and Associates (CRA) is pleased to submit this 2008 Annual Monitoring Report for the Wausau Water Supply NPL Site. This Report has been prepared as required by the Groundwater Monitoring Plan for the Wausau Water Supply NPL Site.

Please note that we have recommended a new minimum pumping rate for extraction well EW1 of 600 gpm due to declining pumping capacity of the well. The recommendation is made in Section 5.2 and discussed in Section 3.2. This change was discussed with Jeff Gore before the project manager change was made. If this change is acceptable to you, please provide a written response with your approval for our records.

Please call me at (651) 639-0439, extension 305, if you have any questions or comments.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

2RM

Jason Twaddle

JT/sb/2 Encl.

cc: Dave Erickson, City of Wausau Wally Mattson, Marathon Electric Art Flashinski, Wausau Chemical



JUN 2 2 2009

REMEDIATION & REDEVELOPMENT





2008 ANNUAL MONITORING REPORT

WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

PRINTED ON JUN 1,8 2009



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Prepared by: Conestoga-Rovers & Associates

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1.0 INTRODUCTION

Conestoga-Rovers and Associates (CRA) has prepared this 2008 Annual Monitoring Report (Report) for the Wausau Water Supply NPL Site (Site) in Wausau, Wisconsin, on behalf of the Wausau Potential Responsible Party (PRP) Group. This Report presents the results of groundwater and extraction well monitoring at the Site during 2008. This Report also presents operational data for the remediation systems.

1.1 <u>HISTORY</u>

The Wausau PRP Group initiated remedial action at the Site in the early 1990s in accordance with the September 29, 1990, Record of Decision (ROD) and the Consent Decree (CD) entered with the court on January 24, 1991. The final remedial action at the Site consisted of two soil vapor extraction (SVE) systems to address the source areas and groundwater extraction and treatment utilizing existing municipal production wells and an extraction well. The Site location is shown on Figure 1.1 and a Site plan is presented on Figure 1.2.

Source area remediation was accomplished by the installation of SVE systems at Marathon Electric (West Bank) and Wausau Chemical (East Bank) in January 1994. Off-gas treatment was provided by vapor phase carbon. The SVE system at Marathon Electric operated until April 1996, when the West Bank source remediation was approved as complete. The East Bank SVE system was modified in 1996 and continued to operate. In January 2001 the East Bank system was shut down while evaluation for final closure occurred. The East Bank source remediation was approved as complete in 2007.

Groundwater remediation is provided through two existing municipal production wells (CW3 and CW6) and one extraction well installed at Marathon Electric (EW1). Air strippers at the Wausau water treatment plant treat water from the municipal supply wells. Water from EW1 is also treated by air stripping (over riprap on the riverbank) before being discharged to the Wisconsin River.

The pumping rates for the three extraction wells were originally defined in the CD. In the Groundwater Flow Model report (CRA, May 1993), CRA established a range of pumping rates that would maintain capture of the groundwater plume. Then, in an August 4, 1995 letter, the United States Environmental Protection Agency (USEPA) approved a pumping configuration range from that report for the three extraction wells. Those pumping rates are:

- CW3: 65 hours per week at 1,200 gallons per minute (gpm) to 100 hours per week at 1,100 gpm;
- CW6: 85 hours to 100 hours per week at 1,400 gpm; and
- EW1: 800 to 900 gpm continuously.

Additional groundwater remediation was provided by an extraction system operated by Wausau Chemical between 1985 and 1996 as an interim remediation measure. The extraction system at Wausau Chemical consisted of a series of shallow wells at the south end of the Wausau Chemical property. Groundwater was treated by air stripping. This system was not part of the ROD or the CD and operation ceased in 1996.

From 1993 through 2000 groundwater monitoring was conducted according to the Monitoring Program Plan (CRA, 1994). The Monitoring Program Plan consisted of a complex system of monthly, quarterly, semiannual, and annual monitoring. In June 2000, the Groundwater Monitoring Plan replaced the Monitoring Program Plan as the approved groundwater-monitoring program. The Groundwater Monitoring Plan consists of annual monitoring well sampling and quarterly sampling of EW1.

The Groundwater Monitoring Plan requires an annual report on the activities occurring the previous calendar year. This Report fulfills the requirement for 2008.

1.2 <u>BACKGROUND</u>

Groundwater monitoring at this Site is a combination of hydraulic and water quality monitoring designed to verify that the groundwater extraction wells are containing the contaminant plume and that groundwater quality is improving because of past source remediation and volatile organic compound (VOC) removal from the aquifer.

Groundwater remediation at a site like Wausau is a long-term process that cannot be readily measured on a short-term basis using water quality data alone. Because of the time necessary to achieve groundwater remediation, containment of contaminated groundwater is the primary measurable and achievable short-term objective.

Actual remediation of the groundwater is a slower process that is more difficult to measure using field data on a short-term basis. Accordingly, water quality data is measured annually on a long-term basis to show the downward trend of VOC concentrations in groundwater. Significant VOC reductions are measured over a period of years.

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For the purpose of evaluation, groundwater monitoring at Wausau has been divided into two areas, the East Bank and the West Bank of the Wisconsin River, corresponding to the two original source areas. The river forms a natural hydraulic division of the Site. There are three active groundwater extraction wells designed to contain and remove VOC contaminated groundwater. Two of the extraction wells are on the West Bank, (CW6 and EW1) and one is on the East Bank (CW3) (see Figure 1.2).

1.3 <u>SITE GEOLOGY</u>

The Site is underlain by glacial outwash and alluvial sediments that have filled in the preglacial stream valley in which the Wisconsin River now flows. This alluvial aquifer ranges from 0 to 160 feet thick and has an irregular base and lateral boundaries. The relatively impermeable bedrock that underlies the aquifer and forms its lateral boundaries within the preglacial valley defines the boundaries of the aquifer. Six production wells in the Site area provide drinking water for the City of Wausau. These wells are screened in the glacial outwash and alluvial sand and gravel deposits that underlie and are adjacent to the Wisconsin River.

1.4 **GROUNDWATER CLEANUP STANDARDS**

The Groundwater Monitoring Plan was developed to monitor compliance with cleanup standards for the groundwater at the Site. The groundwater cleanup standards for the Site are the United States Environmental Protection Agency (USEPA) maximum drinking water contaminant levels (MCLs). The MCLs for the primary VOC contaminants of concern at the Site are:

•	Trichloroethylene (TCE)	5 µg/L;
•	Tetrachloroethylene (PCE)	5 μg/L;
•	cis-1,2-Dichloroethylene (DCE)	70 µg/L; and
•	Vinyl chloride	2 μg/L.

2.0 <u>2008 MONITORING</u>

Groundwater monitoring during 2008, which included water level measurements and water sampling, was conducted in October in accordance with the Groundwater Monitoring Plan with the following exceptions. As reported in the 2000 Annual Monitoring Report, two monitoring wells (WC2 and W51A) are no longer monitored because they were abandoned in 2000 due to damage. Also, as approved by the USEPA and Wisconsin Department of Natural Resources (WDNR) through the 2002 Annual Monitoring Report, the analysis of bis(2-ethylhexyl)phthalate at C4S and W53A was discontinued in 2003. Monitoring of EW1 was completed quarterly in January, April, July, and October in accordance with the Groundwater Monitoring Plan.

2.1 WATER LEVEL MONITORING

Table 2.1 presents the groundwater elevation data measured on October 13-14, 2008. Water table contours based on these measurements are presented on Figure 2.1. Field staff measured water levels on the East Bank on October 13, 2008, while CW3 was running. CW3 was shut-off and CW6 was turned on that afternoon, after water levels were measured in the East Bank wells. West Bank water levels were then measured on October 14, 2008, after CW6 had been running overnight. Water levels in the City production wells were measured with the assistance of the City staff.

The East Bank and West Bank contours are consistent with flow patterns observed in previous years. The flow patterns are controlled by the operation of EW1 and the City production wells. Under natural conditions, groundwater would flow toward and discharge to the Wisconsin River and its tributary, Bos Creek. Under existing conditions however, groundwater flows toward EW1 and the production wells. The operation of EW1 has created groundwater flow divides between the west and east City well fields and has isolated the former landfill source of contaminated groundwater from the production wells.

2.2 <u>GROUNDWATER SAMPLING</u>

Annual groundwater samples were collected on October 13-15, 2008, according to the Groundwater Monitoring Plan. Monitoring well samples were analyzed for the Site specific VOC list, presented in Table 2.2, by EPA Method 8260. A summary of the groundwater-sampling event, including field parameter measurements, is presented in Table 2.3.

Groundwater sampling was conducted according to the Quality Assurance Project Plan (QAPP), February 1994, as amended by a June 11, 1999, letter to the USEPA. TestAmerica Laboratories, Inc. in North Canton, Ohio, analyzed all samples. Laboratory results are being submitted electronically in the Region V Electronic Data Deliverable (EDD) format for inclusion in the Region V EPA database. A copy of the Data Quality Validation memorandum for the 2008 data is included in Appendix A.

2.3 EXTRACTION WELL (EW1) SAMPLING

The monitoring program for EW1 was designed to measure long-term water quality improvement in the groundwater and to measure the treatment of the groundwater extracted by EW1. This data is also used to measure the contaminant levels discharged to the Wisconsin River from the EW1 treatment system. The discharge should meet the substantive requirements of the Wisconsin Pollutant Discharge Elimination System (WPDES).

Influent and Effluent samples were collected from EW1 quarterly in January, April, July, and October according to the Groundwater Monitoring Plan. Both the influent and effluent samples were analyzed by EPA Method 8260 for the Site specific VOCs (Table 2.2).

Each quarterly sample was analyzed by TestAmerica. Laboratory results are being submitted electronically in the Region V EDD format for inclusion in the Region V EPA database. Copies of the Data Quality Validation memorandums for the 2008 data are included in Appendix A.

3.0 OPERATION AND MAINTENANCE

Operation and maintenance activities reported in this section cover EW1, the city production wells, the groundwater monitoring wells, and the annual inspection of the East Bank source area.

3.1 EXTRACTION WELL (EW1) OPERATION

In 2008, approximately 410,120,000 gallons of water were extracted and treated by the West Bank extraction well (EW1) at Marathon Electric. The extraction well pumped at an average flow rate of 787 gallons per minute during 2008 and at an average rate of 792 gallons per minute while the pump was running. Table 3.1 summarizes EW1 operational data for 2008, including the number of gallons pumped and flow rate.

The West Bank extraction well had one major shutdown in 2008 and several minor shutdowns. The pump was shut down for 51 hours starting February 26, 2008, to update the pump motor controls. Minor shutdowns related to maintenance of the pump and motor included:

•	April 3	0.25 hours	Measure head
•	June 2	1.5 hours	Clean strainer screen
•	August 22	1.5 hours	Clean strainer screen
•	September 8	1.5 hours	Repair pump seal and change motor oil

In addition, the pump shut down on the following dates because of a power failure or electrical repairs at the plant unrelated to the pump operation:

- June 6 3.5 hours
- September 6 0.5 hours
- October 4 1.5 hours

Through regular maintenance of the well screen and pump at EW1, the pumping rate has been maintained within the USEPA-approved 800 to 900 gpm over the eighteen year period that it has been operating. However, the attainable flow rate continues to slowly decline, likely due to plugging of the pore spaces in the surrounding sand pack and aquifer material. As stated above, the average EW1 pumping rate for 2008 was 792 gpm. This rate is still more than sufficient to meet the EW1 performance criteria. The original performance criteria for EW1 specified that the well should pump sufficient groundwater to create groundwater flow divides beneath the river to the east and beneath Bos Creek to the north. Groundwater modeling conducted in 1993¹ tested various pumping rates for EW1 ranging from 300 gpm to 1600 gpm. Comparison of the resulting capture zones indicated that pumping rates of 500 gpm and greater met the performance criteria. Therefore, the 800 gpm flow rate is not a critical lower limit relative to achieving sufficient groundwater capture at EW1. CRA will continue monitoring the performance of EW1 to ensure that it continues operating at its optimal attainable rate.

3.2 <u>CITY PRODUCTION WELLS</u>

CW3 operated as required in 2008 with minimal shutdowns or repairs. CW6 was shutdown from February through April for well screen cleaning and rehabilitation, and again later in April to resize the pump. The City of Wausau also completed maintenance work on CW11, which is not part of the remediation system. CW11 was not used during most of February and March to remedy problems with its meter.

Tables 3.2 presents 2008 pumping data for all six City wells. While only CW3 and CW6 are part of the remediation system, data for all six City wells is presented, as has been done historically. The table shows, by month, the number of hours each well was operated, the number of gallons pumped from each well, and the average pumping rate while the pump was operating.

CW3 and CW6 operated on alternate schedules at rates that generally exceeded the operating requirements established in the Groundwater Flow Model report. CW3 operated for at least 290 hours each month (with the exception of 255 hours in January) at pumping rates greater than 1,360 gpm, exceeding the requirements of 65 hours per week at 1,200 gpm.

As noted in the 2007 Annual Monitoring Report, the production from CW6 had been declining throughout 2007. After well rehabilitation was completed (April 2008) CW6 operated at a higher capacity. From May through the end of the year, CW6 operated for at least 340 hours each month (with the exception of 274 hours in August) at pumping rates greater than 1650 gpm, generally exceeding the requirement of 85 hours per week at 1400 gpm.

¹ Groundwater Flow Model, Wausau Water Supply NPL Site, Wausau, Wisconsin. Conestoga-Rovers & Associates, May, 1993.

3.3 EAST BANK SOURCE REMEDIATION SYSTEM

The USEPA and WDNR approved final closure of the East Bank source remediation system in September 2007. A requirement of the closure was an annual inspection of the paved areas surrounding the Wausau Chemical property, as described in the Pavement Cover and Building Maintenance Plan. The purpose of the inspection is to inspect the integrity of the paved areas of the property and make recommendations as needed to minimize rainwater infiltration and prevent direct human contact with soils. The April 2008 inspection noted some cracks in the pavement next to the building. The cracks were filled with asphalt. A copy of the inspection report is presented in Appendix B.

In September 2008, the SVE wells and soil gas probes that had composed the soil gas extraction and monitoring system for the East Bank SVE system were abandoned according to WDNR requirements. At the same time, the fifteen shallow groundwater extraction wells at the south side of the Wausau Chemical property were also abandoned. As discussed in Section 1.1, these fifteen wells had been operated by Wausau Chemical between 1985 and 1996 as an interim groundwater remediation system. Copies of the abandonment forms for the SVE wells, gas probes and groundwater extraction wells are located in Appendix C.

4.0 EVALUATION OF GROUNDWATER DATA

The objectives of groundwater monitoring at the Wausau Site are to monitor the containment of the contaminant plume and the long-term improvement in groundwater quality.

Table 4.1 presents the laboratory results for monitoring well samples collected in October 2008. The data indicate that, in general, the plumes are stable or decreasing in size and concentration. Total chlorinated VOC data, included in Table 4.1 and presented on Figure 4.1, illustrates the plume configuration based on the October 2008 data.

4.1 WEST BANK

The primary VOC found in the West Bank groundwater is trichloroethene (TCE). The degradation product cis-1,2-dichloroethene (C12DCE) was detected at three locations with relatively low concentrations. Vinyl chloride was detected in one well on the West Bank. Monitoring wells with TCE concentrations greater than the MCL of $5 \mu g/L$ include R2D, R3D, R4D, and W53A. The MCL for TCE was also exceeded in the samples from the two extraction wells, EW1 and CW6 (see Table 4.1).

In the portion of the plume north of extraction well EW1, chlorinated volatile organic compounds (CVOCs) are located in the deeper portions of the aquifer. Wells north of EW1 that exceeded the MCL for TCE (R2D, R3D, R4D, and CW6) are screened in the deeper portion of the aquifer. In the southern portion of the plume, in the vicinity of the old landfill, CVOCs are located in the shallower portions of the aquifer at relatively lower concentrations. MW53A, which also exceeded the MCL for TCE is screened in the shallower potion of the aquifer south of EW1.

In general, the West Bank plume concentrations decreased in 2008 compared to 2007 results. Most of the monitoring wells on the West Bank had total CVOC concentrations in 2008 lower than their 2007 concentrations.

Previous Annual Monitoring Reports discuss the probable migration of a relatively high concentration slug of CVOCs towards extraction well EW1. The slug of CVOCs began in the vicinity of R2D, near the flow divide between EW1 and CW6 in 1993, and has been slowly moving towards EW1. 2008 data indicate that this slug continues to move south toward EW1 (see Figure 4.1). Historical data for R2D, R3D, and R4D are shown below:

<u>Total CVOCs (µg/L)</u>

<u>Year</u>	<u>R2D</u>	<u>R3D</u>	<u>R4D</u>
1993	3635	4	1016
1994	2130	11	1019
1995	152	5	720
1996	1600	2	540
1997	720	5	65/65
1998	320	580	52/58
1999	110	1200	33
2000	45	1800	58
2001	17	1500	13/13
2002	15	1200	36
2003	10	980	39/37
2004	11	899	51
2005	7.5	400	56/57
2006	8.2	480/500	42
2007	9.9	280	1.3
2008	6.5	180	13

As shown above, concentrations in R3D continued to decrease in 2008, and have decreased by 90 percent from 1,800 μ g/L in 2000 to 180 μ g/L in 2008.

While most of the mass in this CVOC slug has migrated well past R3D, it has not appeared in the wells down gradient of R3D. The CVOC concentration at R4D, has remained relatively steady during the same time period, actually decreasing since 2000. The CVOC concentrations at W52 ($0.85 \mu g/L$ in 2008), which is between R3D and R4D, have remained below $3 \mu g/L$ since 2000. Since it is unlikely that the CVOC slug has attenuated almost completely between R3D and R4D, it may be migrating toward EW1 along a narrow and more permeable lens within the aquifer that is not monitored by W52 and R4D (R4D and W52 are screened 6 feet and 15 feet higher than R3D respectively).

In the far north portion of the plume, within the capture area of City production well CW6 (see Figure 4.1), the total CVOC concentration in CW6 and W55 (almost exclusively TCE) has steadily declined since 2000. There has been a decrease in TCE concentration

at CW6 from 14 μ g/L to 5.6 μ g/L during this time period. The TCE concentration at W55 decreased from 11 μ g/L to 2.9 μ g/L (less than the MCL) during this time period. This area of the plume appears to be stable with gradually decreasing CVOC concentrations.

In the southern portion of the West Bank plume, under the old landfill, CVOC concentrations remained relatively stable in 2008. While the total CVOC concentrations at W53A increased to 39 μ g/L in 2008, the CVOC concentrations at C4S, and WSWD were less than 1 μ g/L and no CVOCs were detected at W54.

4.1.1 GROUNDWATER FLOW DIVIDE AND CVOC MIGRATION

In the vicinity of R3D there is a groundwater flow divide between the capture zones of CW6 and EW1. Depending on the pumping schedule at CW6, groundwater flow in this area may be to the north toward CW6 when it is pumping, but to the south toward EW1 when CW6 is not pumping. The net effect is that the movement of groundwater in the flow divide area is much slower or stagnate. Since this area contains a significant slug of CVOC, a decrease in the average pumping rate at CW6 could accelerate CVOC migration toward EW1 by moving the divide closer to CW6 and increasing the hydraulic gradient toward EW1. This could be accomplished with a moderate reduction in the average pumping rate of CW6 that would still achieve its performance standard of creating a hydraulic barrier between the CVOC plume and the other City wells in the West well field.

The current USEPA-approved pumping schedule for CW6 requires a minimum average pumping rate of 708 gpm on a weekly basis (85 hours per week at 1,400 gpm). When the groundwater flow model was constructed in 1993, several model runs were conducted to estimate lower limits for the City well pumping rates. The lower limits represented the approximate pumping rate for individual wells at which the CVOC plume was no longer contained. Based on the flow model estimates, the minimum pumping rate required for CW6 to contain the plume was 4,200,000 gallons/week (420 gpm weekly average or 50 hours per week at 1,400 gpm). Hence, pumping of CW6 could potentially be reduced up to 40 percent (708 gpm to 420 gpm weekly average) while maintaining the hydraulic containment performance standard.

4.2 EAST BANK

While tetrachloroethene (PCE) was the original contaminant on the East Bank, the presence of TCE, C12DCE, and vinyl chloride at concentrations that equal or exceed the

PCE concentration in most wells indicates an active natural biodegradation process (see Table 4.1). For example, at E23A, and E37A the C12DCE concentrations were higher than the PCE and TCE concentrations combined.

Three East Bank wells had PCE concentrations that exceeded the MCL of $5 \mu g/L$ (out of seven detections). The highest PCE concentration was 110 $\mu g/L$ at E23A. Two wells (E37A and E23A) also had TCE, C12DCE, and vinyl chloride concentrations that exceeded the MCLs of $5 \mu g/L$, 70 $\mu g/L$, and 2 $\mu g/L$ respectively.

Overall, the data indicate that CW3 continues to effectively capture the East Bank plume and is effectively remediating the groundwater on the East Bank. The extent of the East Bank contaminant plume (see Figure 4.1) remained relatively stable in 2008; however, concentration trends were variable. Total CVOC concentrations from 2004 through 2008 for key East Bank wells are shown below:

		-		
<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
10.2	1.4	18	4.2	1.5
10.1	12	8.4	1.8	2.8
2.6	1.6	3.7	1.1	1
9.2	ND	14	10	ND
16.4	.17	8.5	34	460
15.2	66	47	130	260
10.1	28	78	35	12
7.2	6.4	4.6	4.8	6.4
8.9	6.6	13	. 11	4.4
	2004 10.2 10.1 2.6 9.2 16.4 15.2 10.1 7.2 8.9	2004200510.21.410.1122.61.69.2ND16.41715.26610.1287.26.48.96.6	2004 2005 2006 10.2 1.4 18 10.1 12 8.4 2.6 1.6 3.7 9.2 ND 14 16.4 17 8.5 15.2 66 47 10.1 28 78 7.2 6.4 4.6 8.9 6.6 13	2004 2005 2006 2007 10.2 1.4 18 4.2 10.1 12 8.4 1.8 2.6 1.6 3.7 1.1 9.2 ND 14 10 16.4 17 8.5 34 15.2 66 47 130 10.1 28 78 35 7.2 6.4 4.6 4.8 8.9 6.6 13 11

<u>Total CVOCs (µg/L)</u>

The two wells closest to the source at the south end of the Wausau Chemical building, WC3B and WC5A, had historically low CVOC concentrations in 2008, with none of the detected VOCs at these two wells exceeding the MCLs.

Higher CVOC concentrations were exhibited at monitoring wells E37A and E23A, which are midway between the source and City extraction well CW3, continuing a trend observed in 2007. Meanwhile the CVOC concentration at WW6, which is farther down gradient, continued to decrease in 2008. These changes in CVOC concentrations are probably due to ongoing movement of contaminant slugs as they migrate toward CW3. Although individual monitoring well concentrations generally have not shown a clear downward trend from 2007 through 2008, the CVOC concentrations at CW3 remained steady.

Concentrations at the edge of the plume have remained relatively constant. As shown above, the CVOC concentration at E24A has remained below $3.7 \,\mu g/L$ since 2002. CVOC concentrations at E22A have been near 10 $\mu g/L$ since 2002, with the exception of 2005, and 2008, when no CVOCs were detected. CVOC concentrations at MW10A, MW10B, and WW4 (see Figure 4.1) have been below the detection limit since 2001.

The island well, IWD, had a generally increasing TCE concentration beginning in 2000 that stabilized in 2007 at $11 \mu g/L$, and decreased to $4.4 \mu g/L$ in 2008. The aquifer at IWD appears to have been impacted by West Bank contaminants based on the depth and the composition (TCE only). Most likely, prior to operation of EW1, CW3 captured some groundwater from the West Bank and caused it to migrate beneath the river towards the east side. There is likely a low concentration remnant of the West Bank contaminants in a relatively stagnant area between the capture zones of EW1 and CW3. This remnant will move slowly toward one side or the other, depending on the pumping rates and pumping patterns of EW1 and CW3.

The 2008 concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) at monitoring well FVD5 were consistent with historical data. The BTEX parameters found in this well are independent of the Wausau NPL site remediation process. During 2004, a third party conducted an investigation at the former Wausau Energy property where FVD5 is located.

4.3 <u>EW1</u>

The 2008 influent and effluent laboratory results for EW1 are presented in Table 4.2. TCE was the primary VOC detected. C12DCE was also detected in samples from all sampling events, but its concentration was less than $1 \mu g/L$.

Influent concentrations of TCE remained steady between $6 \mu g/L$ and $9 \mu g/L$, a slight decrease since 2007. The influent concentration has shown a steady decrease over the past several years. The effluent concentrations indicate that the EW1 treatment system removes about 50 percent of the VOCs in the extracted groundwater.

The results of the effluent samples were compared to surface water discharge limits for discharge to the Wisconsin River, as calculated by the WDNR. Those discharge limits were presented in the Remedial Action Plan, Groundwater Extraction, Treatment, and Discharge System, Marathon Electric Manufacturing Co., Wausau, Wisconsin. None of

the discharge limits were exceeded during 2008. EW1 influent and effluent sampling results are also reported quarterly.

4.4 HYDRAULIC CAPTURE

Hydraulic capture of the contaminant plume is demonstrated by the water table contours illustrated on Figure 2.1. The water table contours indicate that groundwater flow in the contaminated portions of the Site is toward the three extraction wells (CW3, CW6, and EW1) which is supported by the analytical data as discussed in Sections 4.1 and 4.2. At nested well locations, the water table elevations for shallow and deep wells are similar, indicating horizontal flow and hydraulic containment of the shallow and deeper portions of the aquifer. Figure 4.1 also demonstrates that hydraulic containment of the containment of the containment was maintained through 2008.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 <u>CONCLUSIONS</u>

- The Marathon Electric extraction well (EW1) and the two City production wells (CW3 and CW6) continue to capture the CVOC plume as evidenced by analysis of the hydraulic data and the chemical data.
- The East Bank CVOC plume has decreased in size and concentration historically and remained fairly stable from 2007 to 2008. CVOC concentrations near the source have decreased while CVOC concentrations at the midpoint of the plume have increased. There is significant evidence of natural attenuation of the East Bank plume.
- The CVOC plume on the West Bank remained stable in its extent. The high concentration slug of CVOCs near R3D decreased in concentration and tended to dissipate as it moved towards EW1. The plume is shallower and less concentrated under the old landfill than it is north of EW1.
- Four West Bank monitoring wells (W53A, R2D, R3D, and R4D) and the two West Bank pumping wells (EW1 and CW6) had TCE concentrations greater than the MCL of 5 μg/L.
- Three East Bank wells had a PCE concentration greater than the MCL of $5 \mu g/L$ (WW6, E37A, and E23A). Two of these wells (E37A and E23A) also had TCE, C12DCE, and vinyl chloride concentration greater then the MCLs of $5 \mu g/L$, $70 \mu g/L$ and $2 \mu g/L$ respectively.
- EW1 removed approximately 410,120,000 gallons of water in 2008 at an average pumping rate of 787 gallons per minute. The well was shut down for 51 hours in February to update the pump motor controls and for periods less than 3.5 hours on seven other occasions for minor maintenance and electrical outages. EW1 operated at an average rate of 792 gpm while the pump was running.
- The EW1 treatment system removed approximately 50 percent of the VOCs from the extracted groundwater. The effluent concentrations from the treatment system were well below the discharge limits.
- The City production wells operated as scheduled and generally within the requirements established in the Groundwater Flow Model Report. Production at CW6 had been declining throughout 2007 and had fallen below the minimum required pumping rate; therefore, it was shutdown for cleaning and rehabilitation from February through April 2008. Since pumping resumed, the pumping rate has exceed the minimum required rate.
- The SVE wells and soil gas probes that had composed the East Bank soil gas extraction and monitoring system at Wausau Chemical were abandoned in September 2008. The shallow groundwater extraction wells that were part of the

interim groundwater remediation system at Wausau Chemical from 1985 to 1996 were also abandoned at that time.

• During the annual inspection of the pavement and building barrier at Wausau Chemical, some minor cracks were noted in the pavement next to the building. These were filled with asphalt.

5.2 <u>RECOMMENDATIONS</u>

- Monitoring in 2009 should continue as described in the Groundwater Monitoring Plan with slight modifications discussed in previous reports. WC2 and W51A have been eliminated from the monitoring schedule because of abandonment as described in the 2000 Annual Monitoring Report. Analysis of bis(2-ethylhexyl)phthalate was eliminated as recommended in the 2002 Annual Monitoring Report.
- Despite ongoing maintenance, the EW1 pumping rate continues to decline slowly, likely due to plugging of the pore spaces in the surrounding sand pack and aquifer material. The current USEPA-approved pumping rate for EW1 is 800 to 900 gpm. The original performance criteria for EW1 specified that the well should pump sufficient groundwater to create groundwater flow divides beneath the river to the east and beneath Bos Creek to the north. Groundwater modeling performed in 1993 indicated that pumping rates of 500 gpm and greater met the performance criteria. Therefore, the 800 gpm flow rate is not a critical lower limit relative to achieving sufficient groundwater capture at EW1. Due to declining pumping capacity, a new lower limit of 600 gpm for the EW1 pumping rate is recommended.
- A 20 percent reduction in the minimum average pumping rate of CW6 is recommended as it will maintain the hydraulic containment and potentially increase the hydraulic gradient between R3D and EW1. The current USEPA-approved pumping schedule for CW6 requires a minimum average pumping rate of 708 gpm (85 hours per week at 1,400 gpm) on a weekly basis. Groundwater modeling in 1993 indicated that a CW6 minimum pumping rate of 4,200,000 gallons per week (420 gpm weekly average) was sufficient to maintain containment of the CVOC plume. Hence, pumping of CW6 could be reduced by 20 percent from the current USEPA-approved rate to a weekly average of 5,700,000 gallons (565 gpm weekly average) while maintaining the hydraulic containment performance standard. The City will continue to operate CW6 at pumping rates above this minimum average to meet City water supply demands.



003978-00(027)GIS-SP001 APR 29/2009







TABLE 2.1

GROUNDWATER ELEVATIONS - 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

			Water Table
	<i>Reference</i>	Water Level	Elevation
	Elevation	10/13-14/2008	10/13-14/2008
East Bank			
CW3	1202.15	57.00	1145.15
E21	1197.51	12.12	1185.39
E22	1195.47	10.76	1184.71
E22A	1195.88	11.16	1184.72
E23A	1197.61	13.29	1184.32
E24	1210.01	24.72	1185.29
E24A	1211.07	25.83	1185.24
E26	1199.02	13.95	1185.07
E26A	1 199.13	14.02	1185.11
E28A	1211.60	26.07	1185.53
E37A	1197.84	13.30	1184.54
FVD5	1198.89	. 14.11	1184.78
GM6D	1198.57	15.06	1183.51
W. HURD	1200.23	,14.40	1185.83
IWD	1192.10	⁽¹⁾ 5.84	1186.26
MW10A	1210.67	25.17	1185.50
MW10B	1210.37	24.90	1185.47
WC3	1198.26	12.76	1185.50
WC3B	1198.04	12.56	1185.48
WC4	1196.74	11.15	1185.59
WC4A	1196.57	10.95	1185.62
WC5	1196.62	11.43	1185.19
WC5A	1196.66	11.46	1185.20
WC7	1196.77	11.03	1185.74
WW4	1202.23	18.62	1183.61
WW6	1200.53	19.95	1180.58

Notes:

Elevations relative to National Geodetic Vertical Datum.

⁽¹⁾ All reference elevations based on 2003 survey data except IWI which was last surveyed in 1993.

TABLE 2.1

GROUNDWATER ELEVATIONS - 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

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			Water Table
	Reference	Water Level	Elevation
	Elevation	10/13-14/2008	10/13-14/2008
West Bank			
EW1	NA	NA	NA
CW6	1220.33	58.00	1162.33
CW7	1224.14	39.00	1185.14
CW9	1226.16	40.00	1186.16
CW9 OBS	1224.24	39.04	1185.20
CW10	1218.49	32.00	1186.49
CW11	1216.51	32.00	1184.51
C2S	1219.05	34.52	1184.53
C3S	1220.58	34.88	1185.70
C4S	1216.70	30.55	1186.15
C4D	1216.16	29.98	1186.18
C6S	1221.58	35.20	1186.38
C7S	1220.87	35.90	1184.97
GM2S	1211.78	25.62	1186.16
GM4D	1216.35	31.18	1185.17
MW1A	1215.69	29.90	1185.79
MW3A	1220.87 ⁽	²⁾ 35.41	1185.46
MW4A	1215.48	31.26	1184.22
MW4B	1215.10	30.84	1184.26
MW7	1218.53	36.79	1181.74
R1D	1222.24	36.56	1185.68
R2S	1209.70	23.52	1186.18
R2D	1209.42	23.70	1185.72
R3S	1215.17	Dry	Dry
R3D	1215.42	29.90	1185.52
R4D	1218.90	37.85	1181.05
W50	1215.54	29.94	1185.60
W52	1219.16	33.95	1185.21
W52A	1218.95	33.60	1185.35
W53	1216.67	31.50	1185.17
W53A	1216.90	31.78	1185.12
W54	1216.19	31.18	1185.01
W55	1217.04	32.00	1185.04
W55A	1217.31	31.95	1185.36
W56	1200.01	14.58	1185.43
W57	1205.17	20.51	1184.66
WSWS	1193.04	5.96	1187.08
WSWD	1193.02	7.90	1185.12

Notes:

Elevations relative to National Geodetic Vertical Datum. (1) All reference elevations based on 2003 survey data except IWI which was last surveyed in 1993.

⁽²⁾ Well MW3A was converted to a flush mount in 2006 and the reference elevation was resurveyed.

TABLE 2.3

GROUNDWATER SAMPLING SUMMARY - OCTOBER 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

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Well	pН	Conductivity (us)	Temperature (°C)	Water Clarity	Gallons Removed	Sample ID Number	QA/QC
CW3	6.38	814.0	14.3	Clear	Grab	W-081013-RA-01	·
MW-10A	7.16	179.3 ·	12.9	Clear	27.0	W-081013-RA-02/03	Duplicate
MW-10B	6.89	205.0	12.6	Clear	9.0	W-081013-RA-04	
WC5A	6.99	273.0	15.9	Clear	4.5	W-081013-RA-05	
WC3B	6.95	242.0	13.8	Clear	7.5	W-081013-RA-06	
WW4	6.43	567.0	12.1	Clear	15.0	W-081013-RA-08 W-081013-RA-07	Rinsate
WW6	7.02	211.0	12.5	Clear	10.0	W-081013-RA-09	
CW6	7.02	198.0	9.3	Clear	Grab	W-081014-RA-10	

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TABLE 2.3

GROUNDWATER SAMPLING SUMMARY - OCTOBER 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

Well	pH .	Conductivity (us)	Temperature (°C)	Water Clarity	Gallons Removed	Sample ID Number	QA/QC
E22A	10.10	65.4	10.5	Sl. Cloudy	10.0	W-081014-RA-11	
E23A	6.81	368.0	11.1	Light Brown	9.0	W-081014-RA-12	
E37A	6.81	403.0	12.6	Sl. Cloudy	6.0	W-081014-RA-13	
FVD 5	6.59	279.0	11.9	Suspended Solids	3.0	W-081014-RA-14	
E24A	6.71	244.0	10.2	Sl. Rusty	6.0	W-081014-RA-15	
W54	7.18	176.1	11.3	Clear	6.0	W-081014-RA-16	MS/MSD
W53A	6.71	448.0	14.0	Clear	4.5	W-081014-RA-17/18	Duplicate
WSWD	7.27	167.3	16.1	Clear	3.0	W-081014-RA-20 W-081014-RA-19	Field Blank
IWD	6.95	1371.0	14.0	Clear	3.0	W-081014-RA-21	
R2D	7.22	153.3	12.3	Clear	8.0	W-081014-RA-22	
W55	7.31	142.5	18.5	Clear	12.0	W-081014-RA-23	
MW-1A	10.07	123.3	18.5	Clear	10.0	W-081014-RA-24	

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TABLE 2.3

GROUNDWATER SAMPLING SUMMARY - OCTOBER 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

Well	рН	Conductivity (us)	Temperature (°C)	Water Clarity	Gallons Removed	Sample ID Number	QA/QC
R4D	6.02	244.0	13.8	Clear	3.0	W-081015-RA-25	
W52	7.01	130.1	15.6	Clear	3.0	W-081015-RA-27 W-081015-RA-26	Field Blank
C2S	6.64	114.7	NA	Clear	3.0	W-081015-RA-28/29	Duplicate
W56	7.60	169.4	NA	Clear	27.0	W-081015-RA-30	MS/MSD
C4S	6.58	819.0	10.2	Clear	3.0	W-081015-RA-31	
EW-1 Influent	6.97	268.0	8.8	Clear	Grab	W-081015-RA-32	
EW-1 Effluent	7.05	232.0	10.5	Clear	Grab	W-081015-RA-33	
R3D	6.65	170.1	NA	Clear	51.0	W-081015-RA-34	

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TABLE 3.1

EXTRACTION WELL (EW1) PUMPING RATES - 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

	Elapsed		Total Flow '	Flow Rate ¹	
Date	Time	Meter Reading	(gallons)	(gpm)	
01/03/08		328,926,000			
01/21/08	25,797	350,120,000	21,194,000	822	
02/28/08	55,210	389,889,000	39,769,000	720 ²	
03/31/08	45,900	429,241,000	39,352,000	· 857	
04/23/08	33,180	455,417,000	26,176,000	789 ³	
06/02/08	57,635	499,277,000	43,860,000	761	
07/03/08	44,688	537,024,000	37,747,000	845 ^{3, 4}	
08/11/08	55,756	580,452,000	43,428,000	779	
09/02/08	31,732	604,314,000	23,862,000	752 ^{3, 4}	
10/01/08	41,729	640,119,000	35,805,000	858 ^{3, 4}	
10/31/08	43,200	674,408,000	34,289,000	794 ⁴	
12/01/08	44,625	704,604,000	30,196,000	677	
12/30/08	41,775	739,046,000	34,442,000	824	
2008 Total	521,227		410,120,000	787	

Flow rate while pump was running (excluding downtimes)

Notes:

¹ The total flows and the average flow rates shown are for the period preceding the date.

² Pump was shut down for 51 hours February 26-28 to update pump motor controls

- ³ Pump was shut down to do well maintenance and measure head on the following dates: April 3 (0.25 hours), June 2 (1.5 hours), August 22 (1.5 hours), September 8 (1.5 hours).
- ⁴ Pump was shut down due to an electrical failure or electrical repairs at the plant on the follow June 6 (3.5 hours), September 6 (0.5 hours), October 4 (1.5 hours).

TABLE 3.2

CITY SUPPLY WELL PUMPING SUMMARY - 2008 WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

Month		Well #3	Well #6	Well #7	Well #9	Well #10	Well #11
	Hours ¹	255.5	486.5	184.8	147.6	162.3	133.8
January	MG ²	21.917	30.144	22.677	8.656	31.782	24.574
•	gpm ³	1430	1033	2045	977	3264	3061
· · · · · · · · · · · · · · · · · · ·	Hours	496.8	196.9	196.7	197.2	213.3	4.3
February	MG	41.922	12.241	24.029	11.55	40.998	0.529
•	gpm	1406	1036	2036	976	3203	2050
	Hours	742.5	0	226.8	189.3	158.9	69
March	MG	60.679	0	27.991	11.138	30.721	13.574
	gpm	1362	0	2057	981	3222	3279
	Hours	429	290.5	188.7	176.8	132	155
April	MG	35.539	16.479	23.251	10.37	25.09	30.309
-	gpm	1381	945	2054	978	3168	3259
	Hours	314.9	402	205.8	210.7	134.4	93.7
May	MG	27.294	40.161	25.2	11.378	25.8	18.511
-	gpm	1445	1665	2041	900	3199	3293
	Hours	310	406.7	229.4	172.2	135	163.6
June	MG	27.516	41.154	28.564	8.674	25.201	31.43
-	gpm	1479	1687	2075	840	3111	3202
	Hours	310.4	430.3	221.7	176.5	230.7	216.2
July	MG	27.849	44.988	27.302	7.888	42.941	41.38
•	gpm	1495	1743	2052	745	3102	3190
	Hours	466.3	273.8	319.3	160.6	184.4	293.8
August	MG	44.058	29.513	38.714	5.961	34.432	56.923
-	gpm	1575	1797	2021	619	3112	3229
	Hours	379.4	338	330.9	124.1	163.6	111.9
September	MG	35.903	36.011	41.467	4.069	31.555	21.457
-	gpm	. 1577	1776	2089	546	3215	3196
	Hours	339.1	401.7	262.2	66.8	117.9	73.6
October	MG	32.131	42.585	33.377	2.272	22.804	14.668
	gpm	1579	1767	2122	567	3224	3322
	Hours	354.8	361.4	255.9	39.8	85.4	74.4
November	MG	33.855	38.242	32.564	1.339	16.428	14.62
	gpm	1590	1764	212 1	561	3206	3275
	Hours	294.3	445.8	235	70.2	91.9	128
December	MG	27.39	47.263	30.176	2.368	17.605	24.148
<u></u>	gpm	1551	1767	2140	562	3193	3144
Average gpm		1478	1565	2073	824	3180	3209

Notes:

¹ Hours indicates total hours pumped each month.

² MG indicates millions of gallons pumped each month.

³ gpm indicates the average flow rate for the month while the pump is operating.

⁴ Well #6 was shutdown from February through April for screen cleaning and rehabilitation.

The pump was then resized in April.

⁵ Well #11 was not used during parts of February and March because of problems with the meter.

TABLE 4.1

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MONITORING WELL LABORATORY RESULTS - 2008 (µg/L) WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

Location	Date	MCT Acetone 2 Benzene		Ethylbenzene 002	əuənloL 1000	00001 Xylenes (total)	Garbon tetrachloride	l Chloroform	√ 1,1-Dichloroethene	l Methylene chloride	ы 1,1,2-Trichloroethane	Gn Tetrachloroethene	Gn Trichloroethene	0 cis-1,2-Dichloroethene	N Vinyl chloride	Total CVOCs	
East Bank														2			
CW3	10/13/08		< ·10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.6	1.1	2.2	0.5 J	6.4
E22A	10/14/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
E23A	10/14/08		< 50	< 5	< 5	< 5	< 5	< 5	< 5	1.2 J	< 5	< 5	110	14	130	5.9	260
E24A	10/14/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1
E37A	10/14/08		< 80	< 8	< 8	< 8	< 8	< 8	< 8	3.4 J	4.8 J	< 8	57	23	320	53	460
FVD5	10/14/08		< 91	86	240	18	960	< 9.1	< 9.1	< 9.1	7.8 J	< 9.1	3.1 J	< 9.1	< 9.1	< 9.1	3.1
IWD	10/14/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.4	< 1	< 1	4.4
MW10A	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
MW10A	10/13/08	D	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
MW10B	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
WC3B	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.92 J	0.54 J	1.5
WC5A	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.8	0.48 J	0.53 J	< 1	2.8
WW4	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ND
WW6	10/13/08		< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.4	1.1	3.5	1.6	12

TABLE 4.1

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MONITORING WELL LABORATORY RESULTS - 2008 (μg/L) WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

			Acetone	Benzene		Ethylbenzene	Toluene	~	Xylenes (total)		Carbon tetrachloride	Chlonofoun	Chloroform		1,1-Dichloroethene		Methylene chloride		1,1,2-Trichloroethane		Tetrachloroethene		Trichloroethene		cis-1,2-Dichloroethene		Vinyl chloride		Total CVOCs
Location	Date	MCL		5		700	1000		10000		5		-		7				5		5		5		70		2		
West Ban	k									1						1										-			
C2S	10/15/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1		25	-	1	-	1		2 5
C2S	10/15/08	D	< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1		2.5	-	1	-	1		2.5
C4S	10/15/08		3.8	I 1.1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1	<	1	-	1	È	1 0.60 I		2.4
CW6	10/14/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1	15.17	56	~	1	1	0.09 J		5.6
MW1A	10/14/08		< 10	< 1	<	1	0.39	1	0.82	<	1	< 1	1	<	1	<	1	<	1	<	1	<	1	~	1	~	1		ND
R2D	10/14/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1	1	65	<	1	2	1		65
R3D	10/15/08		< 50	< 5	<	5	< 5	<	5	<	5	< 5	5	<	5		2.4 I	<	5	<	5		180		28 I	<	5		180
R4D	10/15/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1		12		0.66 I	<	1		13
W52	10/15/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1		0.85 1	<	1	<	1		1.5
W53A	10/14/08		< 10	< 1	<	1	< 1	<	1		0.91	J 0.8	85 J	<	1	<	1	<	1	<	1	1.00	26		11	<	1		39
W53A	10/14/08	D	< 10	< 1	<	1	< 1	<	1		0.87	J 0.8	89 J	<	1	<	1	<	1	<	1	2002	26		10	<	1		38
W54	10/14/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1		ND
W55	10/14/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	l	<	1	<	1	<	1	<	1		2.9	<	1	<	1		29
W56	10/15/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	l	<	1	<	1	<	1	<	1	<	1	<	1	<	1		ND
WSWD	10/14/08		< 10	< 1	<	1	< 1	<	1	<	1	< 1	L	<	1	<	1	<	1	<	1		0.39 J	<	1	<	1	(0.39

Notes:

MCL - Maximum Contaminant Levels for drinking water published by the United States Environmental Protection Agency

Total CVOCs - Total chlorinated voloatile organic compounds.

D - Duplicate Sample

J - Estimated value, value is below the reporting limit

ND - All CVOCs are less than the reporting limit.

Shaded values exceed the MCL.

TABLE 4.2

Page 1 of 1

EW1 LABORATORY RESULTS - 2008 (μg/L) WAUSAU WATER SUPPLY NPL SITE WAUSAU, WISCONSIN

	мсі	Acetone	. Benzene		64 Ethylbenzene		Toluene		Volumes (total)	G Carbon tetrachloride		l Chloroform		1,1-Dichloroethene		Methylene chloride		ы 1,1,2-Trichloroethane		л Tetrachloroethene		л Trichloroethene	Scis-1,2-Dichloroethene	o Vinyl chloride	
Location	Date				/00		1000		10000		0				,				5		5	J	70	-	
	· · · · · · · · · · · · · · · · · · ·																								
Effluent	1/3/08	< 10	< 1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	4.8	0.31 J	< 1	
Effluent	4/1/08	< 10	< 1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	4.9	0.34 J	< 1	
Effluent	7/9/08	< 10	< 1	<	1	<	1 U	<	1 U	<	1		0.6 J	<	1	<	1	<	1	<	1	4.1	0.31 J	< 1	
Effluent	10/8/08	< 10	< 1	<	1	<	1.	<	1	<	1		1.6	<	1	<	1	<	1	<	1	4.2	0.25 J	< 1	
Influent	1/3/08	< 10	< 1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	9	0.46 J	< 1	
Influent	4/1/08	< 10	< 1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	6.7	0.47 J	< 1	
Influent	7/9/08	< 10	< 1	<	1	<	1 U	<	1 U	<	1	<	1	<	1	<	1	<	1	<	1	9	0.49 J	< 1	
Influent	10/8/08	< 10	< 1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	<	1	8.4	0.43 J	< 1	

Notes:

MCL - Maximum Contaminant Level for drinking water.

U - Estimated detection limit

J - Estimated value, value is below the reporting limit

APPENDIX A

DATA QUALITY VALIDATION MEMORANDUMS
1801 Old Highway 8 NW, Suite #114 St. Paul, Minnesota 55112 Telephone: (651) 639-0913 Fax: (651) 639-0923 www.CRAworld.com

	MEMORANDUM									
TO:	Jason Twaddle; CRA	Ref. No.:	003978-10							
FROM:	Ruth L. Mickle	DATE:	February 21, 2008							
C.C.:	Analytical Data File									
RE:	Data Quality Assessment January 3, 2008 Sampling Event Wausau Superfund Site - Wausau, Wisconsin (COC 37445	5)								

CONESTOGA-ROVERS

& ASSOCIATES

The following details a data quality assessment for groundwater samples collected January 3, 2008, at the Wausau Superfund Site in Wausau, Wisconsin. The samples identified as W080103MT-470 (Influent) and W080103MT-471(Effluent) were analyzed for volatile organic compounds (VOCs).¹ The analyses were performed by Test America in North Canton, Ohio. The quality assurance criteria were defined by the quality assurance project plan (QAPP).²

HOLDING TIME PERIOD

The holding time period for VOC analyses is 14 days from sample collection to completion of analyses.

On the basis of the sample collection date on the chain-of-custody form and the analytical report provided by Test America, the analyses were completed within the specified holding time period.

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for VOC analyses was monitored using surrogate recoveries. The surrogate recoveries were within acceptance criteria.

VOC Method 8260B was derived from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, November 1986 and updates.

² Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999.

CRA MEMORANDUM

METHOD BLANK SAMPLE

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analyses of a method blank sample. The VOC blank was free of target analytes.

LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Overall performance of the analyses was monitored by means of LCS/LCSD data. The LCS recovery and RPD data for the analyses were within control limits criteria, indicating that overall performance was adequate.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. Since the MS/MSD spike samples were non-project samples, no evaluation of project samples was made based on matrix spike results.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC associated with the sampling event consisted of one trip blank sample.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, a trip blank sample was submitted to the laboratory for VOC analysis. The trip blank yielded acetone and methylene chloride detections. Since the associated sample data were nondetect for these parameters, no data qualification was required based on trip blank results.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used without qualification.

RLM/jla/79

Ċ	CONESTOGA-ROVERS & ASSOCIATES	1801 Old Highway 8 NW, Suite St. Paul, Minnesota 55112 Telephone: (651) 639-0913 www.CRAworld.com	#114 Fax: (651)639-0923
	MEMORA	ANDUM	
TO:	Jason Twaddle; CRA	Ref. NO.:	003978-10
FROM:	Grant Anderson	DATE:	April 28, 2008
C.C.:	Analytical Data File		
RE:	Data Quality Assessment April 1, 2008 Sampling Event Wausau Superfund Site - Wausau, Wiscor	nsin (COC 372331)	

The following details a data quality assessment for water samples collected April 1, 2008, at the Wausau Superfund Site in Wausau, Wisconsin. The samples identified as W080401MT-472 (Influent) and W071002MT-473 (Effluent) were analyzed for volatile organic compounds (VOCs).¹ The analyses were performed by Test America Laboratories, Inc. (Test America) in North Canton, Ohio. The quality assurance criteria were defined by the quality assurance project plan (QAPP).²

HOLDING TIME PERIOD

The holding time period for VOC analyses is 14 days from sample collection to completion of analyses.

On the basis of the sample collection date on the chain-of-custody form and the analytical report provided by Test America, the analyses were completed within the specified holding time period.

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for VOC analyses was monitored using surrogate recoveries. The surrogate recoveries were within acceptance criteria.

² Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999.



VOC Method 8260B was derived from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, November 1986 and updates.

CRA MEMORANDUM

METHOD BLANK SAMPLE

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of a method blank sample. The VOC method blank was reported to be free from detectable concentrations of target analytes, indicating that laboratory contamination was unlikely.

LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Overall performance of the analyses was monitored by means of LCS/LCSD data. The LCS recovery and RPD data for the analyses were within control limits criteria, indicating that overall performance was adequate.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. Since the MS/MSD spike samples were non-project samples, no evaluation of project samples was made based on matrix spike results.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC associated with the sampling event consisted of a trip blank sample.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, a trip blank sample was submitted to the laboratory for VOC analysis. The trip blank yielded a methylene chloride detection. However, methylene chloride was not detected in any of the associated samples; therefore, no qualification of data was required based on trip blank results.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used without qualification.

GDA/ma/81

CONESTOGA-ROVERS & ASSOCIATES 1801 Old Highway 8 NW, Suite #114 St. Paul, Minnesota 55112 Telephone: (651) 639-0913 Fax: (651) 639-0923 www.CRAworld.com

MEMORANDUM										
TO:	Jason Twaddle; CRA	Ref. NO.:	003978-10							
FROM:	Ruth L. Mickle	DĄTE:	October 14, 2008							
C.C.:	Analytical Data File									
RE:	Data Quality Assessment July 9, 2008 Sampling Event Wausau Superfund Site - Wausau, Wisconsin (COC 012767	7)								

The following details a data quality assessment for water samples collected July 9, 2008, at the Wausau Superfund Site in Wausau, Wisconsin. The samples identified as W080709RL-474 (Effluent) and W080709RL-475 (Influent) were analyzed for volatile organic compounds (VOCs).¹ The analyses were performed by Test America Laboratories, Inc. (Test America) in North Canton, Ohio. The quality assurance criteria were defined by the quality assurance project plan (QAPP).²

HOLDING TIME PERIOD

The holding time period for VOC analyses is 14 days from sample collection to completion of analyses.

On the basis of the sample collection date on the chain-of-custody form and the analytical report provided by Test America, the analyses were completed within the specified holding time period.

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for VOC analyses was monitored using surrogate recoveries. The surrogate recoveries were within acceptance criteria.

² Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999.



¹ VOC Method 8260B was derived from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, November 1986 and updates.

CRA MEMORANDUM

METHOD BLANK SAMPLE

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of a method blank sample. The VOC method blank yielded methylene chloride, toluene and xylenes detections. There were no associated methylene chloride detections in project samples. Therefore, no data qualification of methylene chloride data was required. The associated toluene and xylenes detections in samples identified in Table 1 should be qualified as nondetect (U).

LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Overall performance of the analyses was monitored by means of LCS/LCSD data. The LCS recovery and RPD data for the analyses were within control limits criteria, indicating that overall performance was adequate.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. Since the MS/MSD spike samples were non-project samples, no evaluation of project samples was made based on matrix spike results.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC associated with the sampling event consisted of a trip blank sample.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, a trip blank sample was submitted to the laboratory for VOC analysis. The trip blank yielded acetone and toluene detections. Acetone was not detected in any of the associated samples; therefore; no qualification of acetone data was required based on trip blank results. The associated toluene detections were previously qualified as nondetect (U) based on method blank results; therefore, no qualification of toluene data was required based on trip blank results.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

RLM/sb/82 Enc. CONESTOGA-ROVERS

1801 Old Highway 8 NW, Suite #114 St. Paul, Minnesota 55112 Telephone: (651) 639-0913 Fax: (651) 639-0923 www.CRAworld.com

	MEMORANDUM									
To:	Jason Twaddle; CRA	Ref. No.:	003978-10							
FROM:	Ruth Mickle	DATE:	December 17, 2008							
C.C.:	Analytical Data File									
RE:	Data Quality Assessment October 8, 2008 Sampling Event Wausau Superfund Site - Wausau, Wisconsin (COC 6045)									

The following details a data quality assessment for water samples collected October 8, 2008, at the Wausau Superfund Site in Wausau, Wisconsin. The samples identified as W081008MV-476 (Effluent) and W081008MV-477 (Influent) were analyzed for Site list volatile organic compounds (VOCs).¹ The analyses were performed by Test America Laboratories, Inc. (Test America) in North Canton, Ohio. The quality assurance criteria were defined by the quality assurance project plan (QAPP).²

HOLDING TIME PERIOD

The holding time period for VOC analyses is 14 days from sample collection to completion of analyses.

On the basis of the sample collection date on the chain-of-custody form and the analytical report provided by Test America, the analyses were completed within the specified holding time period.

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for VOC analyses was monitored using surrogate recoveries. The surrogate recoveries were within acceptance criteria.

² Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999.



VOC Method 8260B was derived from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, November 1986 and updates.

CRA MEMORANDUM

METHOD BLANK SAMPLE

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of a method blank sample. The method blank yielded a methylene chloride detection. However, methylene chloride was not detected in any of the associated samples; therefore, no qualification of data was required based on method blank results.

LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Overall performance of the analyses was monitored by means of LCS/LCSD data. The LCS recovery and RPD data for the analyses were within control limits criteria, indicating that overall performance was adequate.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. Since the MS/MSD spike samples were non-project samples, no evaluation of project samples was made based on matrix spike results.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC associated with the sampling event consisted of a trip blank sample.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, a trip blank sample was submitted to the laboratory for VOC analysis. The trip blank yielded a acetone detection. However, acetone was not detected in any of the associated samples; therefore, no qualification of data was required based on trip blank results.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision and may be used without qualification.

RLM/sb/84

CONESTOGA-ROVERS & ASSOCIATES 1801 Old Highw St. Paul, Minnes Telephone: (63

1801 Old Highway 8 NW, Suite #114 St. Paul, Minnesota 55112 Telephone: (651) 639-0913 Fax: (651) 639-0923 www.CRAworld.com

MEMORANDUM TO: Jason Twaddle; CRA REF. NO.: 003978 FROM: Ruth Mickle DATE: December 17, 2008 C.C.: Analytical Data File Variable Variable RE: Data Quality Assessment October 13-15, 2008, Annual Sampling Event Wausau Superfund Site - Wausau, Wisconsin (COC 15036-38) Variable

The following details a data quality assessment for water samples collected October 13-15, 2008, at the Wausau Superfund Site in Wausau, Wisconsin. The samples identified in Table 1 were analyzed for Site list volatile organic compounds (VOCs).¹ The analyses were performed by Test America Laboratories, Inc. (Test America) in North Canton, Ohio. The quality assurance criteria were established in the Quality Assurance Project Plan (QAPP).²

HOLDING TIME PERIODS

The holding time period for VOC analyses is 14 days from sample collection to analysis.

On the basis of sample collection dates on the chain-of-custody forms and the analytical report provided by Test America, the analyses were completed within the specified holding time period.

METHOD BLANK SAMPLES

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analyses of method blank samples. With one exception, the method blank samples were free of target analytes. One method blank (batch 8301454) yielded a detection of methylene chloride. Since the associated data were nondetect, no qualification was required based on method blank results.

² Application of relevant quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", October 1999.



VOC Method 8260B was derived from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW 846, Third Edition, November 1986 and updates.

CRA MEMORANDUM

SURROGATE COMPOUND PERCENT RECOVERIES (SURROGATE RECOVERIES)

Individual sample performance for the analyses was monitored by surrogate recoveries. The surrogate recoveries were within acceptance criteria, indicating that individual sample performance was adequate.

LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Overall performance for the analyses was monitored by means of a LCS/LCSD. The percent recoveries were within acceptance criteria.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

To assess the long-term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for the analyses. The percent recovery and RPD data for project samples were within acceptance criteria.

FIELD QUALITY ASSURANCE/ QUALITY CONTROL (QA/QC) SAMPLES

The field QA/QC associated with the sampling event consisted of one trip blank sample, one rinsate blank, two field blanks and three field duplicate sets.

To evaluate the possibility of contamination arising from sample transport, the environment, and/or shipping, a trip blank sample was submitted to the laboratory for VOC analysis. The trip blank yielded a detection of acetone. Since the associated data were nondetect, no qualification was required based on trip blank results.

As a check for cleanliness of sampling equipment, one rinsate blank was collected as authentic sample for labeling and submission to the lab. The rinsate sample is identified in Table 1. The rinsate blank sample yielded a acetone detection. However, since the associated data were nondetect, no qualification was required based on rinsate blank results.

As a check for cleanliness of overall sampling conditions, two field blanks were collected as authentic sample for labeling and submission to the lab. The field blank samples are identified in Table 1. The field blank samples yielded acetone detections. However, since the associated data were nondetect, no qualification was required based on field blank results.

Overall precision for the sampling event was monitored using field duplicate samples identified in Table 1. The RPD values for positive parameter results were found to be acceptable (RPD values less than or equal to 25 where both results are 5+ times the reporting limit), indicating an adequate level of precision was achieved.

CRA MEMORANDUM

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision pertaining to the above criteria, and may be used without qualification.

RLM/sb/85 Enc.

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

TABLE 1

SAMPLE IDENTIFICATION NUMBERS WAUSAU SUPERFUND SITE OCTOBER 13-15, 2008 SAMPLING EVENT

Sample ID

Sample Location

W-081013-RA-01
W-081013-RA-02
W-081013-RA-03
W-081013-RA-04
W-081013-RA-05
W-081013-RA-06
W-081013-RA-07
W-081013-RA-08
W-081013-RA-09
W-081014-RA-10
W-081014-RA-11
W-081014-RA-12
W-081014-RA-13
W-081014-RA-14
W-081014-RA-15
W-081014-RA-16
W-081014-RA-17
W-081014-RA-18
W-081014-RA-19
W-081014-RA-20
W-081014-RA-21
W-081014-RA-22
W-081014-RA-23
W-081014-RA-24
W-081015-RA-25
W-081015-RA-26
W-081015-RA-27
W-081015-RA-28
W-081015-RA-29
W-081015-RA-30
W-081015-RA-31
W-081015-RA-32
W-081015-RA-33
W-081015-RA-34

CW3 MW10A MW10A dup MW10B WC5A WC3B WW4 rinsate blk WW4 WW6 CW6 E22A E23A E37A FVD5 E24A W54 W53A W53A dup WSWD field blk WSWD IWD R2D W55 MW1A R4D W52 field blk W52 C2S C2S dup W56 C4S Influent Effluent R3D

CRA 003978TWAD85-T1

APPENDIX B

PAVEMENT COVER AND BUILDING BARRIER MAINTENANCE INSPECTION REPORT

ANNUAL INSPECTION RECORD PAVEMENT AND BUILDING BARRIER WAUSAU CHEMICAL CORPORATION, WAUSAU, WI

Annual inspections completed as required by the Pavement Cover and Building Barrier Maintenance Plan, October 17, 2006, for the Wausau Chemical Corporation property in Wausau, Wisconsin.

May 10, 2007, Inspection by Art Flashinski - Surfaces were intact. No action required.

April 15, 2008, Inspection by Art Flashinski. A few cracks along the building had developed and were packed with asphalt-sand mix. The cracks were repaired during the last week of April.

APPENDIX C

ABANDONMENT FORMS

EAST BANK SVE WELLS, GAS PROBES, AND GROUNDWATER EXTRACTION WELLS

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal			Drinking V Waste Ma	Nater Inagement		Vatershed/Wa)ther:	istewater	X]Remedia	ition/Redevi	Biopment			
1. Well Location Informatio	NI- 1	engê (jînge).		·	2. Facility / Owner Information								
County MU	nique Weil # o	1 Hici	р#	·····	Facility Name								
MARATHON	oved Well				Wausau Chemical								
Lattitude / Longitude (Degrees (and Minutes)	Hethod Co	de (see ins	(anotione)	Facility ID (FID or PWS)								
•	'N						13 1105 8	20					
	"				License/Pern	nit/Monitoring	#						
·	<u> </u>												
<u>%1% NW % NW</u>	Section	Townst	hip Range	' [x] E	Unginal vvsti Owner Wausan Chemical								
or Gov't Lot #	25	29	N 7		Present Well	Owner	usau Chennear						
Well Street Address						W	ausau Chemicai						
2001 N. River Drive					Mailing Addr	ess of Preser	nt Owner						
Well City, Village of Lown			Well ZIP Co				2001 N. RI	ver Drive					
Subdivision Name			54402-09	53	City of Prese	nt Owner		State	ZIP Code	<u></u>			
						Wau	54 U	wi	54402-0)953			
Reason For Removal From Ser	nvice WI Uniq	ue Well #	of Replacem	ent Well	4. Pump, L	Iner, Scree	n, Casing & Se	aling Mater	tal'				
Not in Service		·	_	Pump and	l piping remo	ved?			。 🗆 N//				
3. Well / Drillhole / Boreho	le informatio	n			Liner(s) re	moved?		다		。 🖾 N//			
—	nstruction	Date (mm/d	(diryyy)	Screen re	moved?		図	Yes 🗖 Ni	0 🗆 N/				
Monitoring Well	10	10/15/85				Casing left in place?							
[X] Water Well	If a Well C	If a Well Construction Report is available,				ng cut off bek	ow surface?	n – – – – – – – – – – – – – – – – – – –		. 🗹 N/			
Borehole / Dritthole	piezse atta	ich.			Did sealing material rise to surface?								
Construction Type:		_			Did material settle after 24 hours?								
	n (Sandpoint)	L	Dug		If yes,	, was hole ref	opped?		Yes 🗖 N	。 🖾 N/			
Other (specify):					If bentonite chips were used, were they hydrated [X] yes INO N/								
Formation Type:					Required Me	thod of Placin	ng Sealing Materia						
[X] Unconsolidated Formation	n [Bedrock			Conductor Pipe-Gravity Conductor Pipe-Pumped								
Total Well Depth From Ground	Surface (ft.)	Casing Dia	imeter (in.)	- 111	(X) Screen	ed & Poured site Chice)	Other (Ex	plain):					
23		_ L	4		Sealing Materiale								
Lower Drillhole Diameter (in.)		Casing De	pth (ft.)		Nest Cement Grout Clay-Sand Slurry (11 lb./gal. w								
]		13		Sand-C	Conc	rete) Grout	Bentonite	-Sand Slum	y			
Was well annular space groute	x7 [X]	Yes [Unknown	Concre	te		X] Bentonite	Chips				
If yes, to what depth (feet)?	Depth	to Water	(inet)		For Monitorir	ng Wells and I	Monitoring Well Bo	veholes Only	r:				
5'		12	(Benton	ille Chipe	Ben	tonite - Cem	ent Grout				
	<u> </u>	1.2			Granu	ar Bentoniae		Ionne - Sano	Siuny				
o. Material Used to Pill Well				•	From (ft.)	To (fL)	Sacks Se	alant					
3/8" Hole Plug					Surface	23.4	<u> </u>						
	•			•		ļ			ļ				
6 Commonte					<u> </u>	L	L						
Groundwater Extraction V	Vell (WCX	-75											
7. Supervision of Work								DNR Use	Only .				
Name of Person or Firm Doing	Filling & Seali	ing Licen	se #	Date of Fi	lling & Sealin	g (mm/dd/yy)	y) Date Received	l No	ted By				
Boart Longyear			6189	<u> </u>	9/3/2008			<u></u>	<u> </u>	:			
Changed and Day 47				i fi	elephone Nun	nber	Comments						
Street or Route	.n S#			. I.	<u>(715)359-7090</u>								
Street or Route 101 Alderso City	on St.	State	TIP Code	(715) 359-	7090	Alad-		- <u> </u>	<u>.</u>			
Street or Route 101 Alderso City Schofield	on St.	State WI	ZIP Code 54476-	(715) 359-' Signature of	7090 Person Doin	ig Work	Pa	te Signed	1_09			





FW: 1-983

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State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal				ute to: Drinkin Waste	g Water Manageme	nt [] Watershed/M] Other:	/astewater	[X]Remed	liation/Red	levelopment		
1. Well Location Inform	nation					2. Pacill	2. Facility / Owner Information						
County	M Unique	Well # of	Hica	ip#		Facility Na	me			and a solar line			
MADATHON	Removed	Well					Wausa	u Chemical					
MARATION			<u> </u>	A		Facility ID	(FID or PWS)	· · · · · · · · · · · · · · · · · · ·	~~ \				
Latinude / Longitude (Degi	nees and N	unutes) M	lethod Co		Instructions	2	-	137103	5820				
·		`N				License/P	License/Permit/Monitoring #						
		'w											
%/% NW % NY	w k	Section	Townsh	ip Rar	90 (v1E	Original V	let Owner						
or Gov't Lot #		25	29	N 7	Ĥw		ч	ausau Chemic	el				
Well Street Address	Ł			<u> </u>		-Present V	/ell Owner						
2001 N. River Drive							1	Vausau Chemi	cal		·		
Well City, Village or Town				Mell ZIP	Code		dress of Pres	ant Owner					
Wausau 54				54402-	0953	City of D		2001	. River Drive	bin or	4		
Subdivision Name				.ot #					Suite	ZIP CO			
							wa	115816		544	12-0953		
Reason For Removal From Service M Unique Well # of Replacement Well					- Punt	, Liner, Scru	en, casing a	Sealing Met					
Not in Service						Pump	and piping rem	oved?	Ĺ	_ <u>ا</u> γ₀₅ ل_	INO MINI		
3. Well / Drillhole / Borehole Information						Liner(s) removed?		L	_lYes L			
Original Constru				Date (mr	n/dd/yyyy)	Screen	removed?			gres [
	L	10/15/85				Casing left in place?							
	11	If a Well Construction Report is available,				Was c	using cut off be	Now surface?	Г	ᢇᡜ᠋			
Borehole / Drillhole	P	lease attac	オ 1.			Did sealing material rise to surface?XiyesNoN//							
Construction Type:				-		Did ma	Did material settle after 24 hours?						
	Driven (Sa	ndpoint)		Dug		If yes, was hole retopped?							
Other (specify):						If bent	nite chips wen	a used, were the	by hydrated []	xhan [
Formation Type:						Required	Method of Plac	ing Sealing Ma	terial				
[X] Linconsolidated For	nation	–	Bedrock			Conductor Pipe-Gravity Conductor Pipe-Pumped							
Total Well Depth From Gr	nund Surf		asing Dis	meter (ir	• •	- [X] Screened & Poured Other (Evolution)							
23		τ, μ	-чч	nnesen (n	•••	(Bentonita Chips)							
Lower Drillhole Diameter	(ເກ.)	- c	asino De	oth (fL)			t Cement Grou	•		and Starry	(11 lb /oal wt		
	()	Γ		73	,	Sand-Camant (Concrete) Grout Rentraties.Sand Stary *							
		[v].	. Г	<u>л. г</u>			crete		X Benton	ite Chine			
Was well annular space g	prouted?	<u>ک</u> ا	∕es L			For Monk	oring Weils and	t Monitoring We	ll Bareholes O	niv:			
If yes, to what depth (feet	1)?	Depth	to Water	(feet)		Ber	tonite Chips		Bentonite - Ce	ment Grou	đ		
۷	2		0			Gri	nular Bentonite	, 0	Bentonite - Sa	nd Slurry			
5. Material Used To Fill	Well / Dr	lihole				From	L) To (ft.)	1 Sack	e Soalant	1			
3/8" Hole Plug	<u></u>			****		Surfac	- 71		JCaldit				
5/0 1000106						5410		7	<u> </u>				
									·				
6. Comments		-·	· · ·				<u></u>	- .		<u> </u>	·		
Groundwater Extract	ion Well	(WLX	-3)		<u> </u>	<u> </u>	······						
7. Supervision of Wo	rk						• . •	•	DNR U	e Only			
Name of Person or Firm I	Doing Fillin	ng & Sealir	ng Licen	se #	Date of	Filling & Sei	ling (mm/dd/y	yyy) Date Reci	bevie	Noted By			
Boart Longyear				6189		9/3/20	8		ŀ	• •			
Street or Route						Telephone I	lumber	Comment	•				
101 Al	derson St.					(715)35	9-7090						
City			State	ZIP Co	de	Signatur	of Person Do	ing Work		Date Signe	d		
Schofield		<u> </u>	l wi	5447	6-			11 60	ie-		8-09		





JOB/CLIENT	WAUSAU CHEMICAL	STS IOP No	12774 0
FW: 1 983			<u> 12 76 - B</u>

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal			R	toute to: Drinking V Waste Ma	Vater Inagement]w:]o:	atershed/Wa: her:	stewater	[X]F	temedia	Watershed/Wastewater [X] Remediation/Redevelo							
1 Well Location Infor	metion					2 Eacl	the f	Ourse Inf	in the struct	Section 1	er, . 1.1.1								
County	MI Linious	Well # of	-	icao #		Encility No	Line			<u> 1995 (</u>			<u></u>						
· · · · · · · · · · · · · · · · · · ·	Removed	Well						Wausau	Chemical										
MARATHON	<u> </u>					Facility (D	(FIC) or PWS)											
Lattitude / Longitude (Deg	rees and M	linutes)	Aethod (Code (see ins	tructions)		v	7	37105	82	0								
••\bullet•\bullet•\bullet\bullet		· N				License/P	ermi	<i>t/Monitoring</i>	#										
•		·w						-											
X/X NW K N	w k	iection L	Town	whip Rappa	1.10	Original V	Vell () Wner											
	<u> </u>	75	20	7				Wa	us <mark>au</mark> Chemica	1									
Mall Street Address		~~~				Present Well Owner													
2001 N. River Drive								Wa	usau Chemic	al									
Well City Village or Town				Well ZiP Co	de	Mailing A	ddre	ss of Presen	t Owner										
Wallsall S4402-0053				 				2001 N	. River	Drive		_							
Subdivision Name				Lot		City of Pr	USOF	it Owner		ß	tete		Code						
								Waus		<u> </u>	WI	5	4402-09	53					
Reason For Removal From Service MI Unique Well # of Regiscement Well					ent Well	4. Pum	p, U	ner, Scree	n, Cesing &	Seclin	, Neto			•					
Not in Service					_	Pump	and	piping remov	red?			Yes	D No	×N/					
3. Weil / Drillhole / Borshole information			<u></u>			Liner(s) rer	noved?			D	Yes		× N/					
Contract Construct				n Dete (mm/d	d/www)	Scree	n ren	noved?				Yes	X No						
Monitoring Well .		10/14/45				Casing left in place?													
X Water Well		If a Well Construction Report is available.				Was	acin	a cut off beic	w surface?			Yes							
Borehole / Drillhole please attach.					Dida	aline	naterial ris	e to surface?		[x]	Vas								
Construction Type:	,						oted:	el cotto ello	24 hours2		Ē	Vee							
	Driven (Sa	(indpoint)	1	Dug		If	ves.	was hole ret	ooned?		п	Vaa		[X] _N					
						If bentonite chips were used, were they hydrated for the second s													
						With w		Nom a known	Sale Source?		LA	Yes							
Formation Type:		_	-					nog ur Piece		unter Di									
X Unconsolidated For	mation	L	Bedro	xck		I Conductor Pipe-Gravity Conductor Pipe-Pumped													
Total Well Depth From G	Fround Surf	808 (fl.) (Casing (Diameter (in.)		(Bentonite Chipe)													
<u></u>			•••••	1		Scaling Materials													
Lower Drillhole Diameter	r (m.)	ľ	Casing L	Depth (π.)	2	Nest Cement Grout Clay-Sand Surry (11 lb.							ojgal. w						
		<u> </u>		<u> </u>		Sand-Cement (Concrete) Grout						••							
Was well annular space	grouted?	X	Yes		Unknown		ncre		te u lite eine bite	[▲] 8 " De se bu	lentonite	Chip	\$						
If yes, to what depth (fee	t)?	Depth	to Wat	er (feet)				g vvexs end i In China		li Borani Domini		y: 							
Ĩ			10	Ĵ.			siconi 	te Chips n Restantin	H	Dentonia Dentonia	n Sand	ent G t Chur	rou(
				<u>A /</u>								T	. y						
5. Material Used To Fi	li Weli / Dr	lincie	•			From (RL)	TO (TL)	Sacks	Seala	nt	.l							
3/8" Hole Plug						Surfa	œ	777	L	2		1							
						1													
]												
6. Comments								·			·								
Groundwater Extra	tion Well	(wcx.	-3)																
7. Supervision of We	ork							•		D	NR Use	Onl	<u>Y</u>						
Name of Person or Firm	Doing Filli	ng & Seal	ing Lic	anse #	Date of F	ining & Se	taling Inc) (mm/dd/yyy	(y) Date Rect	ived.	No	Ned 8	Y						
Boart Longyear				6189		9/3/20	08							y-ar					
STIBEL OF KOULE	Idores - 64				ſ	elephone	NUN	1000°	Comment	•									
101 A	liderson St.	•	Ctate	bin cada		(715)3	59-7	/U90	18 hard-		F -								
City Schoffold				Code	r	pignatu		rerson Doin	NOR	~	- P	ne Sk		7-09					
JCBOINEIQ				1 544/0-	•	^		~~~~~		·			10-2	-/					





Well No. 3 WCX DATE INSTALLED 10-1	14-85 DRILL RIG CME 45
TILLER JOHN WRIGHT DRILL CREW _	DAVID WONCH
JOB/CLIENT ALAUSAU CHEMICAL	STS JOB No776 - B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

			Ro	pute to:							f7 _			
_Verification Only of	Fill and	Seal			ing Wati le Manar	er Dement			atershed/Wa:	stewater	[X]Reme	liation/	Redevelo	pment
. Well Location Inform					2. Fr		Owner infr	mation	Stonatora	1.5				
County	VI Unique V	Nell # of	Hic	ap #			Facilit	v Name					<u></u>	
MARATHON	Removed W	Audi	ł	•					Wausau	Chemical				
attitude / Longitude (Degr	es and Mir	utes) M	ethort C	ode (se	e instru	(anoit	Facilit	y ID (FI	D or PWS)	77710-	12			
•		'N			• • •				· · · · · · · · · · · · · · · · · · ·	51/05	820			
· ·		-					Licens	ie/Perm	Montoring	*				
· · · · · · · · · · · · · · · · · · ·	<u> </u>	_ · w]	<u> </u>				Oriain	al Wali (Owner					
<u> </u>	/S•	ction	Towns	nip R	ange	x]E			Wa	usau Chemical				
or Govt Lot #		25	29	N	7	W	Prese	nt Well	Owner					
Nell Street Address									Wa	usau Chemical				
2001 N. River Drive			·	ALM 71	D Code		Mailin	g Addre	as of Presen	t Owner				
Wansan				5440	7.0041					2001 N. R	iver Drive			
Subdivision Name				0440	4-0955		City o	f Preser	nt Owner		State	ZIP	Code	
							<u> </u>		Wau	90	WI		54402-09	53
Reason For Removal From	acement	Well	A. P	ump, L	iner, Scree	n, Casing & Se	eling Me	bertal.						
Not in Service					Pu	mp and	piping remov	red?	ַ	_Yes				
3. Well / Drillhole / Bor	ehole Info	mation	1	•			Lir	ner(s) re	moved?		Ĺ	Yes		
Criginal Construction Date (mm/dd/yy							l s∝	reen rer	noved?			Syes		
Monitoring Well		10/4/35					Casing left in place?							
[X] Water Well	tf a	If a Well Construction Report is available, please stlach				isble,	Was casing cut off below surface?							K N/A
Borehole / Drillhole	pie	ase attac	h .				Did sealing material rise to surface? IXIYes UN0 UN/							
Construction Type:			~	_			Did material settle after 24 hours?							
	hten (San	dpoint)	L	Dug				lf yes,	was hole ret	opped?	[]γes		× N/A
Other (specify):							l If I	bentoniti th water	from a knowl	used, were they h h safe source?	iydrated [xlyes		
Formation Type:							Requ	red Me	hod of Placin	g Sealing Materia	N			
[X] Unconsolidated Form	ation		Bedroc	×				Conduc	tor Pipe-Grav	rity 🔲 Conduct	tor Pipe-Pu	mped		
Total Well Depth From Gr	ound Surfac	x (fL) C	asing Di	iameter	(in.)		۱Ľ	Screen (Bentor	ed & Poured like Chips)	Other (E	xoplain):			
27.2	e e la companya de la La companya de la comp			4			Seal	ng Mate	riale					
Lower Drillhole Diameter (in.)	q	asing D	epth (ft.))	1 1	10	Nest C	ement Grout		🔲 Clay-S	and Sk	ату (11 R	o./gal. wt
						<u>1. L</u>	Sand-Cernent (Concrete) Grout							
Was well annular space of	outed?	[X]	res [known	ΙU	Concre	10	ļ	X Benton	ite Chi	ps	
If yes, to what depth (feet)	2	Depth	to Water	(feet)			for	Aonitorin	g Wells and I	Vonitoring Well B	loreholes C	hnly:		
	•		13 7	·			IH	Benton	ite Chips		ntonite - Ce		Srout	
		<u> </u>	1.24.5	.		·	╉┺┙	Granus	ar Bemonina		nionne - 5a	Ind Sill	ny	·····
5. Material Used To Fill	Well / Orilli	hole			. :	· · ·	Fro	rat (ft.)	- To (ft.)	Sacks S	ealant			
3/8" Hole Plug					a a mart de filment de		Su	irface	<u>~77</u>		Ч			
							<u> </u>							
		<u></u>								L				
v. Comments Groundwater Extracti	on Wall 7	W/ m.	-41							· ·		······		
Groundwater Extract			٦)											
7. Supervision of Wor	k -								·		DNR U	se On	N	
Name of Person or Firm D	oing Filling	& Sealir	ng Lice	nse #	p	ate of F	illing (Seating	(mm/dd/yy)	y) Date Receive	d	Noted	By	
Boart Longyear	_			6189			9Å	/2008		•			-	
Street or Route					·····	Π	eleph	one Nun	ber	Commente				
101 Ak	lerson St.				N	[(715) 359-	7090	<u> </u>				
City			State				Sign	ature of	Person Doin	o Wart		Date S	igned	-19
Scnotield				54	476-			And the second s		118 64		(6	<u> </u>





Well NO. 4 LICK DATE INSTALLED 10-2-35 DRILL RIG CME 45	
PRILLER JOHN WRIGHT DRILLCREW DAVID WONCH	
JOB/CLIENT WAUSAU CHEMICAL STS JOB NO. 12776 - B	ł

State of Wis., Dept. of Natural Resources dnr.wi.gov

Weil / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

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Verification Only o	of Fill ar	nd Seal	R. [oute to Dri	o: inking V aste Ma	Vater Inagemen	:	□w □o	atershed/Wa	stewater	[x]	Remedia	tion/Red	leveiopm	ient
1. Weil Location Inform	nation						Z. Fan	Nillia I	Öwner hel	mation		ine and		•••	
County	WI Uniqu	e Well # of	- Hic	-			Facility I	Name						<u></u>	
	Removed	Welt		•					Wausau	Chemical					
MARATHUN				and a de			Facility	ID (FI	D or PWS)			.			
Latitude / Longitude (Deg	uecs and r	vinues) w	eunod C	,0 00 (1		ruccons)				37105	ØLL	>			
· ·		'N					License	/Perm	it/Monitoring	#					
• • · · .		·w _													
%/% NW % N	W	Section	Town	ship	Range	[v]E	Original	Well	Owner	<u> </u>					
or Govt Lot #		25	29	N	7	Hw			Wa	usau Chemica	1				
Well Street Address		······································			1		Present	Well	Owner						
2001 N. River Drive							Anilian	Adde	Wi	A Outper					
Well City, Village or Town				Well	ZIP Co	de				2001 N	River	Drive			
Wausau				54	402-09:	53	City of I	Press	nt Owner	2001 1	k	State			
Subdivision Name				Lot #			T~,		Wam		1	WI	544	~ 02-0953	
							A. Dise	nn I	iner: Seme	n. Casing R	Santh	a Mete			
Reason For Removal Fro	m Service	Wi Uniqu	e Weil a	t of Re	placem	ent Well		and and and			out and				٦
Not in Service							Pum	ip and	piping remo	ved?		Ř			JN/A ZI
3. Well / Drillhole / Bo	rehole k	formation					Line	r(s) re	moved?				Yes L	i∾ ⊭	
	p	viginal Con	struction	n Date	(mm/d	(dyyyy)	Scre	ion rei	moved?			a B	Yes L		ᆌᅍᅀ
	L L		101	1/3	5			ing lef	t in place?				Yes K		
		lf a Well Col	nstructic h	m Rap	ort is an	vailabie,	Was	casir	ng cut off beid	w surface?		[]] [v]	Yes L	┤ ^{No} 본	ANK
			· · · · · · · · · · · · · · · · · · ·				Did	scalin	g material ris	e to surface?		면	Yes L		
			г	٦~.	_		Did	mater	iai settie afte	r 24 hours?		님	Yes [²	JNo l	JN/A
	Driven (S	anopoint)	L	_100	0		l M he	lf yes,	was hole ret	opped?	w huden		Yes L	JNo L	LIN/A
Other (specify):							with	water	from a know	n safe source?		[X]	Yes L	<u>] No [</u>	
Formation Type:							Require	ed Me	thod of Placin	ig Sealing Mat	enal				
[X] Unconsolidated For	mation		Bedroo	ck 🛛				Condui	ctor Pipe-Gra		luctor P	ipe-Pumj	bed		
Total Well Depth From G	round Sur	face (fL) C	asing D	iamek	er (in.)		 	Bento	nile Chips)	L. Othe	r (Explai	n):			
30	009			Ц			Sealing	Mate	nels)	
Lower Drillhole Diameter	(in.)	p	asing D	epth (ft.)		י⊔	iest C	ement Grout		Ц	Clay-San	d Sluny	(11 lb./g	;al. wt.)
				1+	_		ᆡᅛᄫ	iand-C	Coment (Conc	rete) Grout		Bentonite	-Sand S	iluny * *	
Was well annular space (routed?	[X]	es [Unknown		concre			[X]	Bentonite	Chips		
if yas to what depth (fee	1)2	Depth	o Wate	r (feat)		For Mo	nitorir	ig Wells and i	Monitoring We	li Borah	oles Oni	y:		
() you, to what depart (red	.,,,		14	1	1			Senton	ite Chipe	님	Benton	he - Cem	ent Gro	x	
<u> </u>		<u>_</u>	/ 1,		<u>.</u>			sranu	ar Bentonine		Benton	88 - Sand			
5. Material Used To Fil	Well / D	rillhole .				; .	From	· (R)	To (ft.)	Sack	s Seals	int			-
3/8" Hole Plug							Surf	face	27	4	!				
									1						
6. Comments										• • •	· .				
Groundwater Extrac	tion Well	WCX-	5)												
												A 100 4 4			
7. Supervision of Wo	Dela - Ett					Data		3 M.	, 		D	NR Use	Only		
Name of Person of Firm	Doing Fill	nig a Sealt	w La	21 36 7	00	Late of I	ang & S Mino	>6970 000	g (mm/dd/yy)	ry) juene Reci		PKC PKC	ned By		
Street or Pourte				61	89	J			where	Comment					
	lderson St	t.					0100011000 (716.)	150.°	7000						
City			State	715	2 Code	1	Signat	337- ure d	Person Doin	l Work		- b.	te Sian		<u></u>
Schofield			w	Γ.	54476-					11/		- Ľ	- / _	ar-0	9





Well NO. <u>5 WCXS</u> DATE INSTALLED 10-9-35 DRILL RIG <u>CME 45</u> DRILLER JOHN WRIGHT DRILL CREW <u>DAVID WONCH</u> JOB/CLIENT <u>WAUSAU</u> <u>CHEMIICAL</u> STS JOB NO. <u>12776 - B</u> FW: 1983 State of Wis., Dept. of Natural Resources dnr.wl.gov

Weii / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

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			R	oute t	to:										في الم	
Verification Only	of Fill an	id Seal	[Dr	inking V	Vater			Wa	tershed/Wa	stewater	[x]	Remed	iation/	Redevek	opment
			[l w	aste Ma	nageme	ent		Oth	10r:			·			
1. Well Location Infor	nation				•		2.	Facility	11	Owner Info	nation					, , , , , , , , , , , , , , , , , , ,
County	M Uniqu	• Well # of	Hi	cap #			Fac	ity Nan	ne							
MARATHON	Kernoved									Wausau	Chemical					
Lattitude / Longitude (Deg	inees and M	Ninutes) Me	thod C	Code (see insi	Inuction	Fac	ility ID (i	FID	or PWS)	72710	ca-	10			
•		'N								A I - - 1 - - 1 - - 1 - - 1	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	500				
							LICE		nnit	wonkonng	*					
······································				-			-01	ainal We		wner						
ATA NW PA N	<u>w</u>	Sector		нар	rcange	<u>י</u> אופיי		Wausau Chemical								
Wolf Sheet Address		25	29	N	11 /		Pre	sent We	l C	wner						
2001 N. River Drive										W	ausau Chen	nical				
Well City, Village or Town	1	••••••••		Mal	ZIP Co	de	-Ma	lling Add	dres	is of Presen	t Owner					
Wausau				54	402-09	53				A	2001	N. Rive	r Drive	-	0-4-	
Subdivision Name				Lot	•		-[~"]	or Pres	Keni	t Owner			State			
								Onena	11	Wau	a Cashar	* * • • •		[: 	4402-09	
Reason For Removal Fro	m Service	WI Unique	Well 1	t of R	epiacem	ent We	TP-	rump,		ver, ogree	n, casing	a gezi			<u> </u>	
Not in Service								Pump ai	nd p	piping remov	ved?		느	JYes	Цю	
3. Well / Drilthole / Bo	orehole in	formation				• •		Liner(s)	Геп	noved?				JYes a	∐ _№	
	p	riginal Cons	Inclin	n Deti	e (mm/d	(diyyyy)		Screen	le W	ioved?			2	JYes T	₩ N0	
			101	114/	47		4	Cesina i	ieft i	in place?			<u>_</u>	JYes	LANO	
	ļ!	f a Well Con	sirucija	on Reg	port is a	vailable	• '	Was cas	sing	cut off beic	w surface?		l	lyes.	∐ _№	₩
								Did seal	ling	material ris	e to surface	?	12	Yes		
	Data and Co.		ſ	_ _				Did mat	arla	i sette afte	r 24 hours?			LY os		L JN/A
	Unven (Sa	enapoent)	L		1 0			if ye If bentor	15, V nite	vas hole ret chins were i	opped?	hev hvdr	L. • hele	Jyes		
Other (specify):							-	with wat	ter 1	rom a known	n safe sourc	•?		(Yes		
Formation Type:	metion		Berlinx	chr.			R	Cond	Juci	nod of Placin or Pipe-Grav	ig Sealing M vity 🔲 Co	aterial nductor (Pipe-Pur	beqn		
Total Well Depth From G	mund Sur		sina D	v. Namel	er (in)		(î	X Scree	ene	d & Poured	· 🗖 🗤	er (Exoli				
22				4	an (kity			(Sen Mina Mi	uteri	ata						
Lower Drillhole Diameter	(in.)	Ce	sing D)epth ((fL)	•	-1ï		Ce	ment Grout			Clay-Sr	ind Sk	arry (11 H	b <i>l</i> gal. wt
					13		[s-Ce	ment (Conc	rete) Grout	Ē	Bentoni	te-Sar	nd Silumy	
	orouted?	[x]v	<u> </u>		<u>.</u> П	Linkoo			crete	•	•	[X]	Bentoni	te Chi	ps ·	
	y culor		144-4-4		<u> </u>	UNIN	Fo	r Monito	rring	Wells and i	Monitoring V	Vell Bore	holes Or	nly:		
If yes, to what depth (ree	Ŋr	Deputito	i i		Ŋ		ļļ	Bent	onit	e Chipe	Ĺ	Bento	nite - Cel	ment (Srout	
<u> </u>			11				L	Gran	wia:	r Bentonite	L	Bento	nite - Sa	nd Sku	my	
5. Material Used To Fi	il Well / Dr	ilihole		•		. :	۴	rom (ft.)	To (ft.)	Sac	ks Seal	ant			
3/8" Hole Plug								Surface	:	23	~					-
6. Comments												· · · ·	is *			· .
Groundwater Extrac	tion Well	WCX-	6)													
7. Supervision of Wo	orik									·		1	DNR Ur	e On	N	
Name of Person or Firm	Doing Filli	ng & Sealing	Lice)	Date o	Filling	& Sea	ling	(mm/dd/yy)	y) Date Re	ceived		ioted	Эу	
Boart Longyear	<u></u>			61	89		9	/3/200	8						-	
Street or Route							Teler	hone N	um	ber	Comme	nte				
101 A	Iderson St						(71	5)359	9-7	090						
City			State	ונק	PCode		S	gnature	qu	Person Doin	Wed			ate S	igned	. ~~
Scholiela			WI		54476-		1	معنعس			111 60	in fa		- b	- 81	01





Well NO. 6 OCX 6 DATE INSTALLED 10 - 14 - 35 DRILL RIG CME 45
DRILLER WRIGHT DRILLCREW
JOB/CLIENT WAUSAU CHEMICAL STS JOB NO. 12766-B

State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personality identificate information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

		Ro	ute t	0:								
Verification Only of Fill ar	nd Seal] Drl	inking V	Vater			atershed/Wa:	stewater [X]Remedia	ation/Redevelopm	ient
_ ·]wa	aste Ma	nage	ment	Do	ther:				
1. Well Location Information	· · · · · · · · · · · · · · · · · · ·						2. Facility/	Owner Inic	innation			
County M Uniqu	e Well # of	Hici	ф#				Facility Name					همشمسير
MARATHON								Wausau	Chemical			
Lattitude / Longitude (Degrees and I	Minutes) Me	thod Co	de (see insi	iructi	(202)	Facility ID (FI	DorPWS)	127105	020		
•	'N					~~~~	:	/	51105 8	320		
							License/Perm	ivivionitoring				
1/ 11/ ATTY / // ATTY							Driginal Well	Owner				
	75	20	π μ		' X	E	•	Wat	usau Chemical			
Moll Street Address	45	69	N	1		W	Present Well	Owner			=	
2001 N. River Drive								Wa	usau Chemical			
Well City, Village or Town				ZIP Co	de		Mailing Addre	iss of Presen	t Owner			
Wausau			54	402-09	53				2001 N. Riv	ver Drive	TTD Code	
Subdivision Name			Lot	•			City of Prese			State	54402-0953	
							A Dump I	Waus	n Casing & See	illing Materia		·
Reason For Removal From Service	WI Unique	Well #	of Re	placam	ient V	Mail	The Pantipy L		ni acoulă e dan			1
Not in Service							Pump and	piping remov	ved?	님	Yes L⊒No LΩ L. □□ IX	ЫN/А ПГ
3. Well / Drillhole / Borehole k	formation						Liner(s) re	moved?			Nes LINO 12	אאני רר
	Niginal Cons	truction	Dete	e (mm/d	idiyy	YY)	Screen rer	moved?			Yes KANO L	
X Water Well		219	2				Casing lef	t in place?				<u>J N/A</u>
Borehole / Drillhole	il a Well Con please atlact	sh uc ho f 1.	h Reç	ont is a	Vijeli ji	Die,	Was casin	ig cut off belo	w surface?	۲ ۲		
Construction Type:			,				Did sealin	g material ris				
	andopint)	Г		n			Did materi	une bole ent	724 NOURS?			
				•			If bentonik	e chips were i	used, were they hy	drated free		
							With water	from a known	n safe source?	<u>ر</u> ۸	IVes LINO L	
Formation Type:		_						nou or Place tor Pine-Gran	atv Coortucto	r Pine-Pum	hed	
[X] Unconsolidated Formation		Bedroci	K				- [X] Screen	ed & Poured		niain):	, ,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Total Well Depth From Ground Su	1909 (II.) [Ca		Serriet Serriet	ær (in.)			(Bentor	nile Chipe)		Press 17.		
Lower Drillhole Diameter (in)		using De	nth (1				ement Grout	Г		nd Slumy (11 lib /o	tw ta
	–			17			Sand-C	ament (Conc	mate) Grout	Bentonit	e-Sand Slurry * *	
	[v].	Г	أ.				Concre	ie		K Bentonil	e Chips	
Was well annular space grouted?					Unk	nown	For Monitorin	ng Wells and i	Monitoring Well Bo	veholes On	ly:	
If yes, to what depth (feet)?	Depth t	o Water	(fect	ŋ			Benton	ite Chips	🛄 Ben	tonite - Cen	nent Grout	
		152	<u>)</u>				Granul	ar Bentonille	Ben	tonite - San	d Slurry	
5. Material Used To Fill Well / D	rilihole		• •			. .	From (ft.)	To (fL)	' Sacks Se	alant		
3/8" Hole Plug							Surface	21	4			
6. Comments												
Groundwater Extraction Well	CWCX-	·7)										
7 Supervision of Work									I	ONDIL	- Only	
Name of Person or Firm Doing Fill	ing & Sealin		N .0 E	1	Det	e of F	illing & Sealin	o (mmkichoo	() Date Received		olad By	
Boart Longyear			61	89	Γ		9/3/2008	= \		ין -		
Street or Route		i				ħ	elephone Nun	nber	Commenta	_ _		
101 Alderson S	t.						(715) 359-	7090				
City		State	21	P Code			Signature of	Person Doin	w Work	p	ate Signed	NO NO
Schofield		WI		51476-			1	mannen .		- L	1-4-0	M





DRILLER JOHN WRIGHT DRILL CREW DAVID JONCH

FW: 1-983

JOB/CLIENT WAUSAU CHENNICAL STS JOB No. 12776 - B State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return

orm to the appropriate DM	NR office an	d bureau. Se	e instru	ctions on rev	verse for m	nore information	n.		-		
Verification Only	/ of Fill a	nd Seal		ute to: Drinking V	Vater		atershed/Was	stewater	[X]Remedia	ation/Redevelop	ment
					inagamen		her:				
. Well Location info	mation		r .	•		2. Facility /	Owner info	mation			
MARATHON	Remove	d Weil # of		ND #		Facility Name	Wausau	Chemical			
attitude / Longitude (De	sorees and	Minutes) M	mithod Co	de (see ins	Inictions)	Facility ID (FIC	D or PWS)	7771.00	-9.71	5	
•		'N					(131/0-	~~~~	-	
'	·	w				License/Perm	(/Monitoring	7			
%/% NW %	NW	Section	Townet	tip Range	Ix]E	Original Well (Owner				
or Gov't Lot #		25	29	N 7	Шw	Draw and Mahill	Ourser .	usau Chemicai			
Nell Street Address						CHOIR FICH	With Wi	usau Chemical			
2001 N. River Drive						Mailing Addre	as of Presen	t Owner			
Well City, Village or Tov	NI)			Well ZIP Co	de	•		2001 N. R	liver Drive		
Wausau				54402-09	53	City of Preser	nt Owner		State	ZIP Code	·
Subdivision Name				Lot#			Wau		wi	54402-0953	3
	Onada	Ad their		of Declarge	Nert Mint	4. Pump, U	iner, Scree	n, Casing & S	sating Main	etat 👘 📖	• •
Reason For Removal F	rom Servic					Pump and		ed?	X		
Not in Service	lambala	<u></u>			.		mound?		Ē		2 N/
3. Well / Drillnow / t	i à rôuaige	Normation		Date (mmh	titheon()		moved?		M		
Monitoring Well	. [11.714	5		Casing ief	t in place?				
[X] Water Well	ł	H = Whill Cor		Report is a		Mine casio	a aut off belo				
Borehole / Drillhol	•	please attac	h.		reneure,	Did cash	ng cuk on ben. A material de		íx		$\overline{\Box}_{N}$
Construction Type:			•			Did meted	y meusile affe			Var XING	
X Drilled	Driven (S	Sandpoint)	C	Dug		If yes,	was hole ret e chips were	opped? used, were they i	hydrated f _{av}	Yes INO	∐ _{N/}
Uner (specity):						with water	from a know	n sale source?		Yes LINO I	
Formation Type: [X] Unconsolidated F	ormation		Bedroci	k			ctor Pipe-Grav	vity Conduc	a tor Pipe-Pum	ped	
Total Well Depth From	Ground Su 27	rface (fl.) C	asing Di	smeter (in.)		(Bentor	ed & Poured nile Chipe) visia	LJ Other (E	Explain):		
Lower Drillhole Diamet	ier (in.)	c	asing D	····th (fL)	7	Nest C	ement Grout Cement (Conc	rete) Grout	Clay-Sai	nd Siurry (11 lb./ e-Sand Siurry *	igal. w
Was well annular spac	e grouted?	X)	'es [Unknowr		ie Io Wells and i	Monitoring Well I	[X] Bentonit Boreholes On	e Chips Ar:	
If yes, to what depth (fi	eet)?	Depth	o Water	(foet)		Benton	ite Chipe	Ū Be	ntonile - Cen	nent Grout	
5	-		13,	7		Granut	ar Sentonite	🔲 ва	Intonite - San	d Siurry	
5. Material Used To I	Fill Wall / C	rilihole	•	· · · · · · · · · · · · · · · · · · ·	· · · · ·	From (ft.)	To (ft.)	1 Sacks S	Sealant		
3/8" Hole Plum				•••		Surface	24	1		1	
		·						<u> </u>			
						[L	12 51 , 214		
Croundwetter Fate	action Well	C with the	-4						V. Y		
Groundwater EXIF	acuon wen		עד								
7. Supervision of V	Nork		······						DNR Us	e Only	
Name of Person or Fir	m Doing Fi	ling & Sealir	licer	nse #	Date of	Filling & Sealin	g (mm/dd/vv	yy) Date Receiv	d N	oled By	
Boart Longyear		•	-	6189		9/9/2008			ſ		
Street or Route	· · · · · · · · · · · · · · · · · · ·		L		f	Telephone Nur	nber	Comments			
101	Alderson S	St.				(715) 359-	70 90				
City			State	ZIP Code)	Signature of	Person Doir	Ng Work	, p	ate Signad	
Schofield			WI	54476-			in many	- /11/		- 68	- 0





RILLER JOHN WRIGHT DRILLCREW DAVID WONCH

JOB/CLIENT WAUSAU CHEMICAL STS JOB NO. 12776 - B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

Page 1 of 2

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			Ro	ute to:									
Verification Only	of Fill an	d Seal		Drinking \	Water		Watershed/Wa	stewater	[X]Remed	iation/Rede	velopment		
				Waste Ma	anagement		Other:						
1. Well Location Infor	mation		٤	· •		2. Facility	/ Owner, Inf	ormation			!		
County	WI Unique	Well # of	Hici	ip #		Facility Nam	6	, ,					
MARATHON							Wausau	Chemical					
Lattitude / Longitude (Dec	rees and N	linutes) M	ethod Co	de (see ins	structions)	Facility ID (I	FID or PWS)	コマフィの	587	4			
•·		'N				icense/Per	mitAlonitoring	1 - 110					
•		·w											
<u>7/1/2 NW 1/2 N</u>	<u> </u>	inction	Townsh	in Rann		Original We	8 Owner	·· · · · · · · · · · · · · · · · · · ·					
or Gov't Lot #	<u> </u>	25	29	7			Wa	usau Chemical					
Well Stmet Address	1			N /		Present We	ll Owner						
2001 N. River Drive						Wausau Chemical							
Well City, Village or Town	1		J	Nell ZIP Co	de	-Mailing Address of Present Owner							
Wausau			ł	54402-09	53			2001 N.	River Drive	hun Code			
Subdivision Name				Lot #		Lay or Pres	ZIP C000						
						Wausau Wi 54402-0953							
Reason For Removal Fro	om Service	W Uniqu	e Wei # (of Replacen	nent Well	r ranspy							
Not in Service						Pump and piping removed?							
3. Well / Drillhole / Be	orehole in	formation	1		 	Liner(s)	removed?						
Monitoring Well	pr	iginal Con	struction		ddiyyyy)	Screen	emoved?		Ľ r		№ <u>Ш</u> N/A		
X Water Well	H			<u>/•</u>			BIT IN DIACE?				<u>No LUN/A</u>		
Borehole / Dritihole please sttach.							ing cut off bei	ow surface?			No 101.N/A		
Construction Type:							ing material na side) settle side		, r	Tres [1]			
	Driven (Sa	ndpoint)	E	Dua		Ling mate	silai sette ane s. was hole ne	r 24 nours7	ř				
						If bentor	ite chips were	used, were they	hydrated r.				
						Recipiend M	er from a know	n sale source?	ूर्य सन्त				
Formation Type:		–	1			Cond	uctor Pine-Gra		rtor Pine-Pur	noed			
LAJ Unconsolidated Fo	mation		Bedrock			[X] Scree	med & Pourad		(Evolein):				
Total weat Deput From C	1 2	•0• (it.) it.		imenaer (in.) _j		(Bent	onthe Chips)						
Lower Drillhole Diameter	<u></u> r (in.)	c	asing De	oth (ft.)			Cement Grout		Clark-Se	and Siumy (1	1 lb./aal.wt1		
	(,	Γ		1-	2		-Cement (Con	crete) Grout	Bentoni	te-Sand Stu	KTV * *		
		[x]	<u>г. Г</u>			Conc	reta	,	X Benton	te Chips			
vvas wen annuar space	groutedr					For Monito	ning Wells and	Monitoring Well	Boreholes Or	nly:			
If yes, to what depth (let	H17	Depth	to Water	(1961) 		Bento	nite Chips		ientonite - Ce	ment Grout			
			10	<u>,)</u>		Gran	ular Bentonite		entonite - Sa	nd Slurry			
5. Material Used To Fi	li Weli / Dri	Rhole			· · · ·	From (ft.)) To (ft.)	Sacks	Sealant				
3/8" Hole Plug						Surface	23.1		2	-1	7. Toma <u>Constituen</u> on an and a second		
		•											
6. Comments		-						•	241		· · .		
Groundwater Extrac	tion Well:	(WCK	-9)										
7 Supendalan of We													
Name of Person or Firm	Doing Fillin	n & Sealir	na linen	4.0 £	Date of 5	ilino & Cast	nn Immidde	Inthe Dates		le Uniy			
Boart Longvear	Song Fill	'y u ocali		6190		9/3/2001	на (шилоскуў З	IX) Pane (recel		HOUNG BY			
Street or Route				V:07	- <u>-</u> h	clephone Ni	umber	Comments	I				
101 A	lderson St.					(715) 359	-7090						
City			State	ZIP Code		Signature	of Person Dol	ng Work	E	ate Signed			
Schofield			wi	54476-				My.		6-	3-09		
								Le	and the second s				





Well No. 9 OCK9 DATE INSTALLED 10-13-35 DRILL RIG CME 45
DRILLER JOHN NRIGHT DRILLCREW DAVID MONCH
JOB/CLIENT MAUSAU CHEMICAL STSJOBNO. 12776 - B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Verification Only o	of Fill and	l Seal	R	oute to Dri Wa	o: nking Wat Iste Manag	er gement]w:]œ	atershed/Was	stewater	[x]]Remedi	ation/f	Redevek	pment
1. Well Location Inform	netion					2	L. Faci		Owner Info	nnation		121.			:
County	M Unique	Well # of	H	cap #			acility N	ame						<u></u>	
MADATHON	Removed V	Vali							Wausau	Chemical					
MARATHUN	·		<u> </u>	No. 40. 41		F	acility I	D (FIC) or PWS)						
Latitude / Longitude (Deg	nees and Mi	nutes) N		2008 (8											
··································		— 'N				ļ.	.jcense/l	Permi	it/Monitoring	#					
		·w													
%/% NW % N	w s	ction	Town	ship	Range r	-16	Original \	Well (Owner						
or Gavit Lat #		25	29	N	7	4			Wa	usau Chem	ical				
Well Street Address							Present	Woll	Owner						
2001 N River Drive									Wa	usau Cher	nical				
Well City, Village or Town				Adadt 2	ZIP Code		Mailing /	Addre	ss of Presen	t Owner					
Wausau				54	402-0953					2001	N. Rive	r Drive			
Subdivision Name				La s	102-4755		City of P	Teser	st Owner			State	ZIP	Code	
									Wau			WI	5	4402-09	53
Reason For Removal Fro	m Service	W Unio	e Weil :	af Re	olacement	t Well	4. Pum	ıp, U	mer, Scree	n, Casing	& Scol	ing Nets	rial	• • • • •	• • • •
Not in Service							Pump	o and	nina nino	ved?			-		
t Well / Drillhole / Ro	mbole Inf	ominatio	n				Linen	(s) res	moved?				Yes		
		vinal Cor		o Dete	(mm/ddk	ecce)	Scree		noved?			Ē	Vas	K No	
Monitoring Well	۲				8 5	1111	Casia					Ē			
X Water Well			101	1112								<u> </u>			
Borabola / Dritthola	n i of	e vvoe co Nene atta	nsuuce ch.	on Kep	ort is avai		vvas -	Cesin	g cut off beid	w suitece?	_	l Ív	IY es L		
	1						Dids	caling	y material ris	e lo surfaci	97		JYes 1	LJN0	
	D.4		(_		Did n	nateri	al sottle after	r 24 hours?			JYes 1		L JN/A
	Driven (Sar	idpoint)	1		0		H H	iyes,	was hole ret	opped?			Yes	LI No	
Other (specify):							with v	Neter	from a knowl	n safe sou rd	unary nya ≫?	(1	hes		
Formation Type:							Require	d Met	hod of Placin	g Sealing k	laterial				
X Unconsolidated For	mation	Г	Bedro	ck			П¢	onduc	tor Pipe-Grav	why ∐ Co	nductor	Pipe-Pur	ped		
Total Well Depth From G	round Surf	ce (ft.) k	Casing (Xamete	r (in.)		I 🛛 👷	creen	ed & Poured		her (Expl	ein):			
	25.1		L	1			Section								
Lower Drillhole Diameter	(in.)		Cesing) Depth (1	R.) _			bet Ce	ement Grout			Clav-Sa	nd Sku	ITY (11 8	b./gal. wt
	(,	ſ			25			and-C	ament (Conc	nete) Grout		Bentonii	s-Sar	d Slurry	• •
		[v]			<u> </u>		IE C	oncre	10	,	İx	Beniooli	e Chi	05	
Was well annular space (grouted?		Yes	L No	Un	known	For Mon	nitorin	a Wells and i	Monitorina I	Nell Bon	holes On	h:	-	
If yas, to what depth (fee	1)?	Depth	to Wate	r (feet))		Пв	entoni	te Chine	Ī	Bento	nile - Cer	nent C	Grout	
	5			13."	7		ĒG	ranula	r Bentonite	Ē	Bento	nite - Sar	d Slu	TY	
5 Meterial Head To EN		thale		· · ·	<u>.</u>			1	T- (+)		les San	1	T		- <u>-</u>
					• •	•••	FIOM	firt	10(11)	280	Ks Sea	1401 3			
3/8" Hole Plug							Surte	ice	dele						
							ļ						_		
							<u> </u>			L					
6. Comments		,								• •					
Groundwater Extrac	tion Well	30%	~ ^ / *	1-1											
7. Supervision of Wo	rk	111	CN	<u>L'AJ</u>						- T		DNR L	e On	hv.	
Name of Person or Firm	Doing Fillin	g & Seal		5068 #	D	ate of Fi	lino & S	enin	a (mm/dd/\\\		colved	N	ofart 1		
Boart Longvear				611	к о Г		9/1/21	008		,, <u> </u>		ſ		-,	
Street or Route			l	011		h	ienhone	Num	ber	Comm	nte	L			
101 A	lderson St.						714 \ 1	K 40*	7000						
City			State	ZIP	Code	<u> </u>	Sinnatu	ne of	Person Doin	u Work		h	ate S	aned	
Schofield			WI	Γ.	54476-		1	2		NV /				<u> </u>	-12
			_	I			تنسيسك	-		L'El for	ing in			<u>a 0</u>	<u>~</u>





Well NO. 10 AUCKION DATE INSTALLED 10-11-95 DRILL RIG CME 45	
PALLER JOHN WRIGHT DRILL CREW DAVID MONCH	
JOB/CLIENT AUSAU CHEMICAL STSJOBNO. 12776-B	1

State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personalty identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only o	of Fill ar	nd Seal		Route (Dr	to: Inking Wa aste Man:	ater agament		Watershed/W	'aslewater	[X]Remedia	ation/Redevelopment
1 Well I cretion Joint	mation		l				2 Fraint		for most on the second s		the first state of the
County	All Links			Scan E			La FOGU				A. Lan B.
County	Removed	i Well					Pecifity Ne	Wouldo	. Chemical		
MARATHON							Cecility ID				
Lattitude / Longitude (Deg	rees and I	Minutes)	lethod	Code (see instru	uctions)			7 27101	-920	
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· · · ·									g #		
· · · · · · · · · · · · · · · · · · ·		<u> </u>					Orderland 18				
<u>%1% NW % N</u>	W	Section	Tow	nship	Range	[x] E			aucou Chomico		
or Gov't Lot #		25	29	9 N	7	Πw			ausau chemica		
Well Street Address						And it.	PTESON V				
2001 N. River Drive								1	Vausau Chemic		
Well City, Village or Town				And	ZIP Code	1	Mailing Ad	dress of Press	int Owner		
Wausau					407-0051		<u> </u>		2001 N.	River Drive	
Subdivision Name						,	City of Pre	sent Owner		State	ZIP Code
Subdivision righting								Wa	116810	WI	54402-0953
Passan For Permanel Fre	- Realize	LAR I Inim	an Lâdad	e		né Vědně	A. Pump	Liner, Scre	en, Casing &	Seeling Mate	rtal Constant State
Reason For Removal Pro	m Sélvicé										
Not in Service					<u> </u>		Pumpa	ina piping rem	oved?		
3. Well / Drillhole / Bo	rehole in	nformatio	R				Liner(s)	removed?		بإ	
	p	riginal Cor	structio	on Dete	(mm/dd/	(1111)	Screen	removed?			
			D	34	5		Casing	left in place?		L_	Yes 12 No UN
X Water Well	Γ	If a Well Co	nstruct	ion Rep	port is ava	ilable,	Was ca	sing cut off be	iow surface?	Γ	
Borehole / Drillhole	1	piease atta	sh.	•		-	Didage			ſx	
Construction Type:								ning material i		È.	
	Driven (S)	endooint)			0			ional solue an	er 24 nours?		Tes (≕JNO (JN) L: [Y].
					~		I If bento	cs, was nois i nite chine weri	stopped?		
Uther (specify):							with wa	ter from a know	IN SER SOURCe?	[X	Yes INO IN
Formation Type:							Required	Method of Plac	ing Scaling Mate	rial	
X Unconsolidated For	mation	Г	Bedro	ock			Con	ductor Pipe-Gr	avity 🛄 Condi	uctor Pipe-Pum	ped
Total Well Depth From G	round Sur	face (fl.)	asino i	Diamet	er (in.)		X Scr	ened & Pours	1 Dother	(Explain):	
24				LJ.	- ()		Casting M	nonie Cripe)			
Lower Dollhole Diameter	/in)		'acion) Death (•		
	(#1.)	1	aan y	Deho. (15	-		Cemera Grou			NO SILITY (TI NO JOBIL W
		<u> </u>			<u> </u>		님의	d-Cement (Cor	icrete) Grout		e-Sand Slumy
Was well annular space of	routed?	X.	res		ի 🗌 տ	nknown		crete		[X] Bentonik	e Chips
If yes to what death /feet		Death	to 10/m	at lines			For Monit	oring Wells and	Monitoring Well	l Borsholes Oni	y :
n yeel to what gebuiliteel	‴ <u>~</u>	- Paper	1 1		4		Ben	tonite Chips	L e	Sentonite - Cerr	ent Grout
	2		17					nular Bentonite		Bentonite - San	d Sturry
5. Material Used To Fill	l Well / Dr	lilhole		•	•• •• ••		From (f) To (R)	Sacks	Sealant	
3/8" Hole Plus	· · ·	i					Surfac		1 1 5		
JIG HOLE HUE		·····					June	-35			
							- <u> </u>				+
							<u> </u>		<u> </u>		1
5. Comments		· · · · · · · · · · · · · · · · · · ·	·····						· :		
Groundwater Extract	tion Well ((WCX	-11))							
7. Supervision of Wo	rk 🔄							•-		DNR Us	Only
Name of Person or Firm	Doing Filli	ing & Seali	ng Lic	onse #	p	ate of F	itting A Sea	ling (mm/dd/y	vyy) Date Recei	ved No	xted By
Boart Longyear				61	89		• •	~ 1/4/2.	15		
Street or Route					h .,	দ	elephone N	lumber	Comments		-
101 AI	derson St					- 14	715)35	9-7090			
City			State	ZIF	Code	<u>C</u>	Signature	of Person Do	ing Work	b	tte Signed
Schofield			WI	l L'	54476-				14		E-9-19
	·····			ĺ							


FIELD WELL INSTALLATION DIAGRAM



TILLER JOHN WRIGHT DRILL CREW DAVID WONCH

JOB/CLIENT WAUSAU CHEMICAL STSJOBNO. 12776-B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Weil / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., all characteristic and characteristic characteristic and characteristic charact

	•		R	oute to):										
Verification Only o	of Fill an	nd Seal] [Dnir	nking V	Vater	C	Jw	atershed/Wa	stewater	[x]	Remedia	ntion/F	Redevelo	pment
				wa	ste Ma	nagemen	t [Пo	her:						
1. Well Location Inform	nation						2 Faci		Owner Infr	notion		********			
County	W Uniqu	• Weil # of	Hi	cao #			Facility N	ame				. 1. 12	<u></u>		
	Removed	Well							Wausau	Chemical					
MARATHON			<u> </u>				Facility I	D (FIL) or PWS)						
Lattitude / Longitude (Degi	rees and l	Vinutes) M	ethod C	code (s	iee insi	tructions)		•	-	737	105	820	2		
* * · · .		'N					License/	Perm	it/Monitoring	*					
<u> </u>		•w													
%/% NW % NY	N I	Section	Town	ship	Rance	1.1.1	Original \	Well	Owner		_				
or Gov't Lot #		25	29	- N	7				Wa	usau Chen	li cal				
Well Street Address				N	<u> </u>		Present	Well	Owner						
2001 N Diver Drive									W	ausau Che	mical				
Well City Village or Town				Adam 2		de	-Mailing /	Addre	ss of Presen	t Owner					
Wansan					107_00	55 61				200	N. Rive	r Drive			
Subdivision Name				Lar			-City of P	Tesel	nt Owner			State	ZIP (Code	
									Wau	120		WI	5	4402-09	53
Reason For Removal From	n Service	WI Uniou	e Well (f of Re	nacem	ent Well	4. Pum	ıp, Li	iner, Scree	n, Cesing	& Seali	ng Mate	rial	 	• •
Not in Service							Pump	o and	piping remo	ved?			Yes		
3 Well / Drillhole / Bo	mhole in	formatio	, ,				Liner	(s) re	moved?				Yes		
		doinal Con	structio	n Dete	(mm/d	dánnar)	Scree	nen mer	noved?			X	Yes	LINO	
Monitoring Well	Γ		1.7	7117	1 leh	· · · ·	Casin	n lef	in place?				Vas		
[X] Water Well		t a White Co						na na n							
Borehole / Drithole	li	piezze attac	h.	are roop		veneure,	VV25		g cur off der 		r -0	ſx			
Construction Type:	·							Casn	g material na et cette effe		er	Ē			
	Driven (Sa	endnoint)	1					natori Luce		r 24 nours occord2			17 85 L.		
	0				•		tf ben	i yes. itoniti	Chips were	used, were	they hydr	nated r	iyes I		
Curier (specify):							with v	Nater	from a know	n safé sour	ce?	ĮX	Yes	L No	
Formation Type:							Require	d Mei	hod of Plack	ng Sealing	Viacorial				
X Unconsolidated For	mation		Bedro	ck					107 Pipe-Gra nd & Doursd		onductor i	Pape-Pum	ped		
Total Well Depth From G	round Sur	face (fl.) C	asing C)amete	ir (in.)		۲ B B	entor	sta Chips)	പം	ther (Expli	ein):			
23)		-1	1			Seeting	Mate	riala						
Lower Drillhole Diameter	(in.)	p	asing C)epth (f	t),	7	<u> </u> ∐™	est Co	ement Grout		Ц	Clay-Sar	nd Silu	rry (11 lt	o./gal. wt.
· · · · · · · · · · · · · · · · · · ·		l		<u> </u>	1		ᅴ님의	and-C	ement (Conc	rete) Grou		Bentoniti	в-San	d Slurry	
Was well annular space of	routed?	[X] [、]	res			Unknow	╷╷⊔∝	oncre	te		[X]	Bentonit	a Chir	X S	
If yes, to what death (fee	12	Denth	lo Wate	r (feat)			For Mon	nitorin	g Wells and	Monitoring I	Well Bore	holes On	ly:		
in yes, to what doppin (idea	"C		1/7	27				enton	ite Chipe	l		nite - Cen	nent G	irout	
	<u></u>	<u> </u>	<u></u>	91				ranula	er Bentonite	<u>ا</u>	Bento	nite - San	d Silur	TY	
5. Material Used To Fil	Well / De	rillh cie			. ·		From	(R .)	To (R)	' Sa	iks Seal	lant			
3/8" Hole Plug							Surfa	ice	23			1.5			
<u></u>													Т		
6. Comments	ويها بون النصب المتعاد	······································									•	., ,			•
Groundwater Extract	tion Well	(wex-	-12)												
		<u> </u>													
7. Supervision of Wo	rk	-									1	DNR Us	• On	y i	
Name of Person or Firm	Doing Filli	ing & Seali	ng Lia	ense #		Date of	Filling & S	caling	g (mm/dd/yy)	y) Date R	ecsived	N	oted E	y .	
Boart Longyear				618	89		9/3/20	008							
Street or Route							Telephone	Nun	hber	Comm	ente				
101 A	derson St	•					(715)3	359-1	7090						
City			State	ZIP	Code		Signatu	ne of	Person Doir	ng Work		p	ste Si	gned	•
Schofield			WI		54476-						<u> </u>			10-8	-04
											and a second			-	



FIELD WELL INSTALLATION DIAGRAM



Well NO. 12 ()CXIL DATE INSTALLED 10-13-85 DRILL RIG CME 45 PRILLER JOHN WRIGHT DRILL CREW DAVID WOINCH JOB/CLIENT WAUSAU CHEMILCAL STS JOB NO. 12776-8 State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

			R	oute t	0:									
Verification Only of	of Fill an	d Seal		Dr	inking W	/ater]wa	itershed/Was	tewater	[X]Reme	diatio	n/Redeve	lopment
,			[Wa	aste Mai	nagement		Ot	her:			_		
1. Well Location Inform	netion				•		2. Facili	ý1	Owner Info	metion			1. i 1. i 1. i	
County	M Unique	Well # of	1	cap #			Facility Na	me						
MARATHON	Devoment								Wausau C	Chemical				
Lattitude / Longitude (Deg	rees and N	finutes) M	ethod C	Code (nee inst	ructions)	Facility ID	(FID	or PWS)	フィフル	near	0		
•		'N		、		-	inora De		Alexiterine	/ 5/10	1302			
							License/Pe		vivionitioning i	•				
		<u> </u>					Original W	hill C	Wher					
<u>774 NW 74 NV</u>	<u>w</u> f	Section	Town	emp	Kange	(X) E			Wau	isau Chemica	1			
or Govi Lot #		25	29	N	1	W	Present W		Owner					
Well Street Address								•	Wa	usau Chemic	nl			
2001 N. River Drive			~	LAL	718 6~	40	Mailing Ad	Idre	ss of Present	Owner				
Well City, Visage of Town					407.004	1963 11				2001 N.	River Drive	:		
Subdivision Name				Lot i	402-073		City of Pre	1981	t Owner		State	21	P Code	
									Waus	80	WI		54402-0	953
Reason For Removal Fro	m Service	W Uniqu	s Weil d	of Re	placem	ent Well	4. Pump	<u>, u</u>	ner, Screen	L, Casing &	Sealing Ma	toria		
Not in Service				-		_	Pumpa	brid	piping remov	ed?		<u>_</u> r•	∎ <u>□</u> N	₀ ⊠N/A
3. Well / Drillhole / Bo	rehole in	formation]				Liner(s) ner	noved?		[ns ⊡N	₀ <u>⊠</u> №
<u></u>	q	iginal Con	structio	n Dete) (mm/d	d/yyyy)	Screen	nen i	noved?			<u>ר</u> ע•	<u>в М</u> и	₀ <u>U</u> n/A
Monitoring Well			10/10	165			Casing	left	in place?			述 Ye		<u>_ [] N/A</u>
X Water Well	F	I & Well Cor	nstructio	on Rep	port is an	vailable,	Was c	nsin(g cut off belo	w surface?		× _Y	n 🗖 N	₀ <u>□</u> n//
Borehole / Drillhole	ء [iesse stac	h.				Did set	aling	material rise	e to surface?			ж <u>П</u> м	₀∐№
Construction Type:							Did ma	iterii	el sottie after	24 hours?			⊨ <u>[X]</u> N	o []N//
X Drilled	Driven (Sa	indpoint)		լիս	9		lfy	-05,	was hole reto	pped?			ns ⊡N	o 🖾 N//
Other (specify):							If bents with wi	nite Point	i chips were u from a known	sed, were the safe source?	y hydraled	[x _{ye}		0 🗆 N/
Formation Type:							Required	Met	hod of Placing	g Sealing Mat	riat			
[x] Unconsolidated For	mation	Г	Bedro	ck				duc	tor Pipe-Grav	ity 🔲 Condi	uctor Pipe-Pi	umpe	d	
Total Well Depth From G	round Sur	face (fl.) C	asing C	Vamet	er (in.)			eene nion	d & Poured Re Chips)	LJ Other	(Explain):			
23,4			-	Н		•	Sealing N	Later	riale					
Lower Drillhole Diameter	(in.)	7	asing ()enth (nt.) ,	7 11		it Ce	ement Grout		🔲 Clay-S	Sand #	Slurry (11	lb./gal. wi
				•		5.9	_ 🛄 Sør	d-C	ement (Conci	rete) Grout	Bento	nita-S	and Skin	y
	amuted?	[x]	(Π	Linknown		ncrel	•		[X] Bento	nite C	hip s	
Was were bruched death (fee	000001						For Mont	orin	g Wells and A	Nonitoring We	l Borsholes (Only:		
in yas, to what depth (ree	"· ٢	Depun	KO ¥¥atua ∧1 ⊾∠		4		Ber	ntoni	te Chips	Ц	Bentonite - C	emen	at Grout	
		11	KY .					inula	r Bentonile		Bentonite - S	and S	Sturry	
5. Material Used To Fil	i Weli / Dr	lilhole				÷.	From (f	2)	To (ft.)	Sacks	Sealant			
3/8" Hole Plug							Surfac	æ	7	1	•			
		•												
6. Comments		· · ·		·					<u></u>		1989. Y			
Groundwater Extrac	tion Well	(WCX	-13))										
T. Queendalen of Ma											DND	100 (
Name of Person or Firm	Doing FH	na & Cesti	-	-	t	Date of I	iline L C.		minista	N) Data Para	Unit L	Note	d By	
Roart Longveer	Long ran		~ [~	۵ ک نب اب ۱ ک	89		9/3/20	08	, (~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Street or Route			I			F	elephone	Nurr	nber	Comments	}	<u> </u>		
101 A	lderson St	•					(715)3	59-7	7090					
City			State	ZI	P Code	l	Signatur	e of	Person Doin	g Work	a .	Date	Signed	
Schofield			I wi		53476-		1 7	2	-		and and	1-	I-G	2-04



FIELD WELL INSTALLATION DIAGRAM



Well NO. 13 WELS DATE INSTALLED 10-10-85 DRILL RIG CME 45 DRILLER JOHN WRIGHT DRILL CREW DAVID WONCH JB/CLIENT WAUSAU CHEMICAL STSJOB NO. 12776-B FW: 1983 State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Verification Only o	of Fill an	d Seal	R		o: inking W aste Mar	/ater nagement		□w □o	atershed/Was	stewater	[X]Reme	diation	/Redevek	opment
1. Well Location Inform	nation						2. Fa	cility /	Owner Info	mation				
County	Wi Unique		i hi	cap #			Facility	Name				/ili t	*. • • • • •	<u>.</u>
MADATHON	Removed	Weil		•					Wausau	Chemical				
NIARATHUN	<u> </u>						Facility	ID (FI	D or PWS)		~ <i>0</i> 7	-		
Latitude / Longitude (Deg	rees and IV	whutes)	vethod (Code (:	see inst	ructions)				137105	> 8 L l	>		
· · · · -		— [·] №]					License	e/Perm	it/Monitoring	#				
		·w												
%/% NW % NY	w k	iection	Town	chip	Range	(-) F	Örigine	i Well (Owner				-	
or Gov't Lot #	<u> </u>	25	29	N	7	범 ፌ			Wa	usau Chemical				
Well Street Address	1			1			Preser	nt Well	Owner					
2001 N River Drive									Wi	usau Chemical				
Well City, Village or Town				Mail	ZIP Coc	je	Mailing	y Addre	iss of Presen	t Owner				
Wausau				54	402-095	3				2001 N. R	iver Drive	ha a		
Subdivision Name				Lat)		City of	Prese	nt Owner		State	ZIF	' Code	
							ļ		Waus			<u> </u>	54402-09	253
Reason For Removal Fro	m Service	WI Uniq	ue Well	of Re	placem	ant Well	Pu	imp, L	Iner, Scree	n, Casing & Se	haling No	terial		· · · ·
Not in Service						-	Pur	np and	piping remov	ved?	Ē	XY		
3. Well / Drillhole / Bo	rehole in	formatio					Line	er(s) re	moved?		[
	6	ioinal Cor	nstructio	n Dete	e (mm/de	d/www)	l Scr	ien neer	noved?					
Monitoring Well	-		inf	K) 14	15		Cas	tina lef	t in place?		Ē	Zlyes		
X Water Well		a Wall C			vort is av	milabin				au eudace?		XI.		
Borehole / Drilihole	P	iezze atta	ch.				D		n meterial de		ĩ	xh.		
Construction Type:								i acamin I meteri	y matoria na		i	.		
	Oriven (Sa	ndooint)			ю			I ITTELICETI I France	wee hole ret	24 (KURB) 0000017	ř	۳.		
	0		1		•		I II D	entonik	e chips were i	used, were they i	u voiraied r	1¥61 '1		
Cuner (specity):							wit	h water	from a known	safe source?"		XIYe	i LINO	
Formation Type:							Kedn	red Me						
X Unconsolidated For	metion	L	Bedro	ck			나라	Conduc	ad 2. Downed		tor Hipe-Hu	mpea		
Total Well Depth From G	round Surf	200 (fl.)	Casing C	Diamet	er (in.)		6	(Bentor	ville Chips)	U Other (E	: (nie)çç			· · ·
2312	<u>`</u>			4			Sealin	ng Mate	riale		<u> </u>			
Lower Drillhole Diameter	(in.)		Casing (Depth ((ft.)		Ц	Neet C	ement Grout		∐ Clay-S	and S	lurry (11 ll	b./gal. wt
				+ >			니님	Sand-C	Conc	rele) Grout	Bentor	vile-Sa	Ind Slurry	• •
Was well annular space (arouted?	[x]	Yes		• □ •	Unknown		Concre			X Bentor	ile Ch	ips	
If use to what dooth /fee	112	Death	to Mate	er /faud			For M	anitorin	g Wells and i	Vonitoring Well E	Borsholes C)nly:		
n yes, to what deput the	$\langle \zeta \rangle$	Caput	() · · ·)]	4			Benton	ite Chips	니아	ntonite - Ce	Iment	Grout	
·		<u> </u>	1 4	$\overline{\mathbf{N}}$				Granul	er Bentonile	L Be	ntonite - Si	end Sli	uny	
5. Material Used To Fil	l Ŵell / Dr	lilhole	<u>.</u> ۰.	•	• •	·	From	y (ft.)	To (ft.)	Sacks S	ealant			
3/8" Hole Plug							Su	rface	13	115				
							1							
			****				1							
6. Comments		<i>,</i>								· · · ·	181, 14			
Groundwater Extrac	tion Well	C W	ICX -	4)										
		Ú.)										
7. Supervision of Wo	rk								· . ·	1	DNR U		niy	
Name of Person or Firm	Doing Filli	ng & Seal	ing Lia	ense Ø	;	Date of F	illing &	Sealin	g (mm/dd/yw	y) Date Receive	d	Noted	By	
Boart Longyear	-	-		61	89		9/3/	2008					•	
Street or Route			i			'n	elepho	ne Nur	nber	Commente				·
101 A	lderson St.						715)	359-1	7090					
City			State	21	P Code		Signa	iture of	Person Doin	g Wests ~	~	Date S	Signed	• •
Schofield			WI		54476-					11/	· ·		6-8	-04



FIELD WELL INSTALLATION DIAGRAM



Well No. 14 WCX 9 DATE INSTALLED 10-	DRILL RIG CME 45
PRILLER JOHN WRIGHT DRILL CREW	DAVID WONCH
JOB/CLIENT WAUSAU CHEMICAL	STS JOB NoG - B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

Page 1 of 2

			R	oute to:										
Verification Only	of Fill an	d Seal] [Drinki	ing Wat	er	۳	Vatershed/Wa	astewater	[X]	Remedia	ition/F	Redevek	opment
			[Waste	e Manag	gament)ther:						
1. Well Location Infor	mation						2. Facility	/ Owner Inf	ormation	· Andori				
County	WI Unique	Wel # of	Hi	cap #			Facility Name)						·
MARATHON	Removed						-	Wausau	Chemical					
Lattitude / Longitude (Dec	irees and M	linutes) M	ethod C	ode (see	instruc	tions)	Facility ID (Fi	D or PWS)	רכרי	000	~			
•		'N							<u> </u>	258	20			
·							Liconse/Pem	nit/Monitoring)#					
· ·		<u>`wl</u>					Ordenia al Malar	<u></u>						
<u>%/% NW % N</u>	w s	ection	Towns	ihip Ra	Inge [x] E	Ongenal wes	Owner Wa	ussu Cham	ical				
or Gov't Lot #		25	29	N	<u>7</u>]w	Present Well	Owner	lusau Chem					
Well Street Address								W	ausau Chen	nical				
2001 N. River Drive							Mailing Addr	ess of Prese	nt Owner					**************************************
Wenter	1			Well Zip	Code				2001	N. River	Drive			
Subdivision Name				54402	1-0953	<u> </u>	City of Prese	int Owner			State	ZIP (Code	
							L	Wau	sau		WI	5	4402-09	53
Reason For Removal Fro	m Service	WI Unique	. Weil d	of Repia	cement	Well	4. Pump, L	Iner, Scree	n, Casing	& Seell	ig Metai	tel'		
Not in Service							Pump and	l piping remo	ved?		Ø	Yes		
3. Well / Drillhole / Bo	vehole inf	ormation)				Liner(s) re	moved?				Yes		
	Ori	iginal Cons	truction	Dete (m	www.	YYY)	Screen re	moved?				Yes	No	
Monitoring Well			\mathcal{D}	2/85	-		Casing let	t in place?				Yes		
[X] Water Well	af.	a Well Con	structio	n Report	is avail	able,	Was casir	ng cut off bei	ow surface?		П	Yes		KI NA
Borehole / Drithole	pi	esse atlaci	h				Did sealin	g material ris	e to surface	7	[X]	Yes		
Construction Type:			-				Did mater	ial sottle afte	r 24 hours?			Yes	[X] _{No}	
X Drilled	Driven (Sai	ndpoint)	L	Dug			If yes,	was hole rel	topped?			Yes		X N/A
Other (specify):							If bentonit with water	e chips were from a know	used, were l n safe sourc	hey hydri e?	ted [x]	Yes		
Formation Type:							Required Me	thod of Placin	ng Sealing M	laterial				
[X] Unconsolidated For	mation		Bedroc	*			Condu	ctor Pipe-Gra	vity 🔲 Co	nductor P	ipe-Pump	bed		
Total Well Depth From G	round Surfa	ice (fL) Ca	using D	iametar (i	in.)		Bento	ed & Poured nile Chice)	00	ver (Explai	in);			
75	5,5		L	4			Sealing Mate	riale						
Lower Drillhole Diameter	(in.)	Ç.	asing D	epth (fL)	17 5		Nest C	ement Grout			Clay-San	d Siur	ry (11 lb	./gal. wt.
		I			<u>در </u>	, 	Sand-(Cement (Conc	crete) Grout	Ū	Bentonite	-Sand	l Slurry '	
Was well annular space	grouted?	[X] _Y	es [known	Concre	te		[X]	Bentonite	Chip	5	
If yes, to what depth (fee	- 1)?	Depth t	o Water	(feet)			For Monitoria	ng Wells and	Monitoring V	Vell Borel "	ioles Only	<i>r</i> :		
.5			1	5.4			Benton	lite Chips		_ Senton	lte - Cem	ent Gi	rout	
E Meterial flood To Fil					• • •		Gninu	ar Benconne		1 Seuton	ne - Send	Sium	<u>y</u>	
					··:		From (ft)	TO (R.)	Sac	ks Seal:	ant	ļ		
3/8" Hole Plug							Surface	103.5	7	2		 		
									ļ			 		
6 Commonto							L		L			L		
Crowners Entropy		6.16	× 15	-			····			f`				
Groundwater Extrac	tion well	Cur	~~~.;	ソ										
7. Supervision of Wo	rik			•• · · · · · · · · · · · · · · · · · ·							ND I lea	Oab		
Name of Person or Firm	Doing Fillin	g & Sealin	g Lice	nse \$	Da	te of Fi	ting & Seatin	a (mm/dd/ww		ceived	N/		7 V	
Boart Longyear	-			6189	Γ		9/3/2008	- (····································					,	
Street or Route		****				T	Hephone Nur	nber	Comme	nte				
101 A	lderson St.					(715) 359-	7090						
City			State	ZIP Co	ode		Signature of	Person Doin	g Work		Da	le Sig	ned	. ^
Schofield		ليبي	WI	544	76-		1 7		<u>M</u>		-t-		-8-	-04
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FIELD WELL INSTALLATION DIAGRAM



- JB/CLIENT WAUSAU CHEMICAL STSJOBNO. 12776-B

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

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Verification Only of	of Fill and	d Seal	Rout	e to: Drinking Waste M	Water anagament		Vatershed/W:)ther:	astewater	[X]Remedia	tion/Redevel	iopment
1. Well Location Inform	nation					2 Facility	i Oumer In	himetica		· · · · · · · · · · · · · · · · · · ·	
County	M Unique	Well # of	Hicao	8		Facility Name					
MADATHON	Removed	Well		-			Wausau	Chemical			
MARATHON			-			Facility ID (F	D or PWS) .				
• • · ·		'N	had Cod	0 (680 i ni	structions)	License/Perm	nit/Monitoring	131/05	-820		
•·••·•··		_ ·w _									
%/% NW % N	w s	ection T	ownship	Rang	Iv)E	Original Well	Owner				
or Gov't Lot #		25	29	N 7	Щw		Wi	ausau Chemical			
Well Street Address						Present Well	Owner				
2001 N. River Drive						Mailling Adds	M	ausau Chemica			
Well City, Village or Town			M	I ZIP Co	ode	Names Addi		2001 N			
Wausau				54402-09	53	City of Press	ot Output	2001 14.	State	DID Code	
Subdivision Name			Lo	t#					State	E4402.00	
						d Dumo t	Iner Sem			1-1	
Reason For Removal From	m Service	WI Unique V	Neil # of	Replacen	nent Well	an Consider		na vesniy e c			<u>,</u>
Not in Service						Pump and	I piping remo	oved?	Ľ	/es 님No	L'ANA
3. Well / Drillhole / Bo	rehole inf	ormation				Liner(s) re	moved?			res UNO	
	(Pri	ginal Constr	uction D	ste (mm/	ddlyyyyy)	Screen re	moved?		Ц.	res 🖾 No	
		<u>!</u>	<u> 150</u>	191		Casing let	t in place?			res No	
	H i	a Well Const	ruction R	leport is a	vailable,	Was casi	ng cut off b ei	ow surface?	\bowtie	res 🛄 No	
	P					Did sealin	g material ris	se to surface?	[x]	res ∐No	
				_		Did mater	ial settle afte	r 24 hours?		res [X] No	
	Driven (Sar	ndpoint)		Dug		lf yes	was hole re	topped?		res 🗆 No	(X) _{N/A}
Other (specify):						with water	e chips were from a know	used, were they in safe source?	hydrated [x]		
Formation Type:						Required Me	thod of Place	ng Sealing Mater	ial		
X Unconsolidated For	mation		edrock			Condu	ctor Pipe-Gra	rvity 🔲 Condu	ctor Pipe-Pump	ed	
Total Well Depth From G	round Surfa	00 (ft.) Casi	ing Diam	eter (in.)		X Screen	ed & Poured		Explain):		
	14		3			Sealing Mate					
Lower Drillhole Diameter	(in.)	Casi	ing Dept	h (ft.)	,	Neat C	ement Grout		Clay-Sand	i Siurry (11 ii	b./aal. wt
				, خ .	bas	Sand-C	Coment (Cond	crete) Grout	Bentonite	Sand Skunv	• •
	muted?	[x]v-			t talana un		te		[X] Bentonite	Chips	
Vide wer announ space g		10			UTIKNOWN	For Monitorir	ng Wells and	Monitoring Well	Boreholes Only		
If yes, to what depth (feet)7 /⊾	Depth to V	Nater (fe	iat)		Benton	ite Chips	В	ntonite - Ceme	int Grout	
5 (1 tar bet - bo	TEM Mun	hot.)	N/	A		Granul	ar Bentonite	<u>П</u> е	entonite - Sand	Slurry	
5. Material Used To Fill	Well / Drill	lhole _				From (ft.)	To (ft.)	Sacks S	Sealant		
3/8" Hole Plug							154	1			
<u> </u>		•				<u>†-₹</u>		t	-		
						1	<u> </u>	+			
6. Comments	,	· .				1	<u>I</u> ,			L	·····
Soil Vapor Extraction	Well (V	VC-SVE	-1)	ive	Il ins	Allel	in bol	Hom of	4' dece	° man	hole
7. Supervision of Wo	rk						· · ·	1		Only	
Name of Person or Firm I	Doing Filling	& Sealing	License	#	Date of Fi	ling & Seath	a (mm/dd/w	VV) Date Racetu	nd Not	ed By	
Boart Longyear	-	- •		6189		14104	"				
Street or Route					<u> </u>	Nephone Nur	nber	Comments			
101 Al	derson St.				le	715) 359-	7 090				
City		St	ate 2	IP Code	<u> </u>	Signature of	Person Doin	ng Work	Dat	e Signed	
Schofield			WI	54476-			and and a second se	11 m		- 8-	-09
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State o Depart	of Wisc ment o	consin of Natu	ral Res	ources	Route To Solid V Emerg Waster	i ency Response water und	- Ha - Un - Wi - Ot	z. Was dergro ater Ro	sie und Ta tsource	nics S		SOIL Form	ר אר י די ארן	ING 1 22	LOG	INFOI	RMAT Rev.	TION 5-92
Facilit	y/Proje Watu	ct Nar	ne 	Dater	Sugal	. ALDI C	•1.	Licen	se/Pen	mit/Mo	mitorin	ug Num	ber	Borin	Num	ber	_ 10 _	<u> </u>
Boring	Drille	d By (inn na	me and nam	e of crew ch	ief)	<u>te</u>	Date	Drillin	t Starte	d	Date	Drilling		- S	VE-	<u> .</u>	
Wi	SCC	onsi	n T	iest D	illing	(WTD)		MN		0/		H N	1 1 T	D /	₽₽	Rota	NCU NCY	
						Common Well WC-SVE	Name	Final	Static V	Water	Level	Surfac	Elevi	tion		Boreh	le Die	meter
Boring State F	Locati lane _	on.		N,		<u></u>	ESICA	ul I	at	0		Local	Grat	ocation	MSL I (If ap	L	<u>)</u> ii	rches
NW	<u>1/4 o</u>	f <u>N</u>	<u>J</u> 1/4 o	f Section	25.т.	<u>24 N. R</u>	2_@w	Lo	n g	<u>ه</u> .			F	C Ceet r	I N		East	
County	/	Ma	rath	.0n			DNR	ount	/ Code	Civil	Town/	City/ o	e Ville	ge ·			reel	
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<u>I here</u> Signan	by ce	ortlify	that t	he informa	ation on th	his form is	true ar	id co	rrect	to the	beşt	ofm	<u>v kno</u>	belwc	 дө.	,L		—
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This fo than \$1	rm is a 0 nor r	uthori: more tl	zed by un SS	Chapters 14	4.147 and 1 violation	62, Wis. Stats.	Compl	ction of	of this	report	is man	datory.	Pena	ltics: 1	-Tall Forfeit	not les	-1(†⊼ 8	y I
both fo	r each	violati	on. Ea	ch day of co	ntinued viol	ation is a separ	rate offe	nse, p	ursuan	n 3100 t to ss	u or im 144.99	prisons and 16	ed not 1 2.06, 1	less tha Wis. St	un 30 d ats.	ays, or		_



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Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

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			R	oute to	:							
Verification Only	of Fill and	d Seal		Drin	nking Wa	ter	□ ^	atershed/Was	stewater	[X] Remedia	ation/Redevel	opment
				Wa	ste Man	agameni		ther:				
1. Well Location Inform	netion		_				7 Eacline	Chunge Info			• • • • • • • •	
County	WI Unique	Well # of	Hic				Facility Name			1994 F		*. '\.'
	Removed	Well	[""					Wausau (Chemical			
MARATHON							Facility ID (FI	D or PWS)		~ ~ ~ ~		
Lattitude / Longitude (Deg	rees and M	inutes) M	lethod C	iode (s	ee instri	uctions)		,	13712	5 820	2	
·		'ℕ					License/Perm	vit/Monitoring	*			
······································		_ ·w					Į	_				
1/4 NW 1/4 N	w s	ection	Towns	hip)	Range	1-1 F	Original Well	Owner				
or Gov't Lot #		25	29	Ň	7	A.		Wai	usau Chemical			
Weil Street Address							Present Well	Owner				
2001 N. River Drive								Wa	usau Chemica			
Well City, Village or Town				Well Z	UP Code	•	Mailling Addn	ass of Present		n		
Wausau				544	02-0953	3			2001 N. I	River Drive	DID Code	
Subdivision Name				La#							64402 M	063
		•						Watts			54402-0	
Reason For Removal Fro	m Service	WI Uniqu	e Weil #	of Rep	laceme	nt Well		uner, acreel	n, casing a a			<u>,</u>
Not in Service		<u> </u>			<u> </u>		Pump and	piping remov	/ed?			
3. Well / Drillhole / Bo	rehole inf	ormatio	n				Liner(s) re	moved?				
	01	ginal Con	struction	Dete	(mm/dd	(1111)	Screen re	moved?		Ļ		
			1013	1/91			Casing let	t in place?		<u> </u>	Yes ANO	
	н	a Well Co	nstructio	n Repo	nt is ave	dable,	Was casi	ng cut off belo	w surface?	DX	Yes DNG	
Borehole / Driffhole	<u>م</u>		n .				Did sealin	g material rise	e to surface?	[X	Yes UNC	
Construction Type:			-		• .		Did mater	lai settie after	24 hours?		Yes [X] No	
	Driven (Sa	ndpoint)	L	Dug)		lf yes	was hole reti	opped?		Ives 🗆 No	X N/A
Other (specify):					_		If bentonii with water	e chips were L from a known	used, were they a safe source?	hydrated [X	Ives Dive	
Formation Type:							Required Me	thod of Placen	g Sealing Mater	ial		
X Unconsolidated For	mation	Г	Bedroc	*			Condu	ctor Pipe-Grav	rity 🔲 Condu	ctor Pipe-Pum	ped	
Total Well Depth From G	round Surfa	ce (fl.)	asing D	amete	r (in.)		- X Screen	ed & Poured nile (Chics)	Other (Explain):		
01			ر آ	5			Sealing Mate	rials				
Lower Drillhole Diameter	' (in.)	C C	asing D	epth (f	4) ~	<u>^</u> 1	Neat C	ement Grout		Clay-Sa	nd Skurry (11	lb./gal. wt.)
						645	Sand-(Cement (Conc	rete) Grout	Bentonit	e-Sand Slumy	
Was well annular space	omuted?	[x],	Ven [hknown		rte		[X] Bentonit	e Chips	
If use to what death /fee		hart					For Monitoria	ng Wells and I	Monitoring Well	Boreholes On	ly:	
		, pepin	ω νναισι ∆/	(H cHCT() 7 Å			Bentor	ite Chipe	ᆜᄜ	entonite - Cen	nent Grout	
S (Iti RION ONTO	in menhi	<u>k</u>	1	1	· · ·		Granu	ar Bentonite	ЬВ	entonite - San	d Slurry	,
5. Material Used To Fil	i Well / Dril	lhole					From (fL)	To (ft.)	Sacks	Sealant		
3/8" Hole Plug							1 if	17		7		
							I				1	
											1	
6. Comments										· · · ·	•	· .
Soil Vapor Extraction	n Well Çv	NC-Si	モース)	L	ILII	instal	lad 1-	botto.	n of c	t' clecr	mink
7. Supervision of Wo	ork							· ·	- <u> </u>	DNR Lie	• Only	
Name of Person or Firm	Doing Fillin	g & Seali	ng Lice	nse #	t.	Date of F	illing & Sealin	g (mm/dd/ww	y) Date Receiv	red N	oted By	
Boart Longyear	-	-		618	9		-1/4/0	5		· - ('		
Street or Route						ក្	elephone Nu	nber	Commente			
101 A	lderson St.					[(715) 359-	7090				
City			State	ZIP	Code		Signature o	Person Doin	g Work	, p	ate Signed	0 00
Schofield			WI	5	4476-		Lé	server	-111/2	-ie-t	- 6	8-01
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State Depi	of Wisc runent c	onsin of Natur	nal Res	ources	Route To Solid Emery Waste	Wc gency Responses water fund	Ha nse	iz. Was idergro ater Re	ie ind Ta source	nks s		SOIL Form 4)R ∽0-1	ING] 22	LOG) Page	[NFO]	RMAT Rev. of	TON 5-92
<u>v</u>	Jaus	au	Wa	ter Su	pply	NPL Si	te	Licen:	e/Pen [nit/Mo	nitoria	g Nurr	aber	Borin	g Numl		<u> </u>	
		a By (I	n mu T	est Di	e of crew c						14	Date I I O M N	Drilling //3 //D			Drillin Rote	ig Met	hod
				ana munder april and	and the second	WC-SU	1E-7	· ·	VA	Foot M	SL.	Surfac	≈ Elev 200	Peet	MSL	Borch	ble Dia	meter
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	1/4 o	<u>f Nu</u>	<u>/ 1/4 c</u>	of Section _	25.7	<u>29 n. r</u>	-7 PN	VILOR	8	0 ·		<u> </u>	F				Feet	
Sa		1 rath	lon		<u> </u>					~2V14	Wa	<u>u sa</u>		ge ·				
	43	臣	Ĭ		Soil/Roc	k Description	0						_	Soil	Prop I	ortios		
Number	Length A Recovered	Blow Cou	Depth in F		And Goold Each I	ogic Origin F Major Unit	for		USCS	Centric Log	Well Diugram	PID/FID	Compressive Strangth	Moisture Content	Limit Limit	Plantcity Index	P 200	RQD/ Comments
	NA			sm-sp sp san En	silty d with	sand, sl h traci	light gio e grave	evel Be gr	NA - buite Give- Sand- Pack MJO Sand- Pack ilater			NA - 10 ¹¹ loc Co Pv Ca Sere Sere	NA ding ver	NA steel hedul	N A - 40			
l <u>he</u> Signa	ture)	ortlify	that t	he informa	ation on	this form i	s true ar	nd cor	rect t	o the	best	of m	IV Kno	belwo	10.			<u> </u>
This : than : both :	form is a 510 nor a for each	nuthoria more the violation	zed by uan \$5, on. Ea	Chapters 14 000 for each ch day of co	4.147 and 1 violation. ntinued vio	162, Wis. Sta Fined not le lation is a se	ats. Compl ss than \$10 parate offe	etion o) or mo) T (f this r re than rsuant	\mathcal{E}_{μ} report i a \$100 to ss 1	s mano s mano or imj 44.99	Con datory. prisone and 16	<u>Penal</u> d not 1 2.06, V	nter Ities: F less tha Vis. Sta	Or Forfeit i in 30 di ats.	not less ays, or	~~~ }	······································



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Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personality identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

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	of Fill and	d Seal	R	toute to:	ing Water		Watershed/W	astewater	[x	Remedia	tion/Redev	elopment
				Wast	e Managemen		Other:			-		
1. Well Location Infor	matión	ti statisti.				2. Facilit	/ Owner In	notemno	Lines in the	s fail maile		
County	WI Unique	Welt # of	Н	icap #		Facility Nan	ne				··· ··· · · · · · · ·	
MARATHON	Removed	Well					Wausau	I Chemical				
				Cada (aa	in the set of a set	Facility ID (FID or PWS)		000	7		
·		· N						1511	054	70		
····· ···· ···· ···· ···· ···		- "				License/Pe	mit/Monitorin	g #				
<u> </u>		· w										
%/% NW % N	w s	ection	Town	ship Ra	nge [x] E	Original We						
or Gov't Lot #		25	29	N '	่ ที่พ		W	ausau Chen	ical			
Well Street Address			-			Tesen vv		Voucou Cha				
2001 N. River Drive						Mailloo Ad	Minage of Dance	Musau Che	nical			
Well City, Village or Town)			Mull ZIF	Code			7001		- Drive		
Wausau				54402	1-0953	City of Pres	unt Owner	200		State	710 Code	1,
Subdivision Name				Lot #			War	****		WI	54402-	0953
						4. Pump	Liner Sem	na Caelad	S. Seal		fall ^a .	
Reason For Removal Fro	m Service	Wi Uniqu	e Well (e of Rapia	cement Well	a c antipi	munuel Area	an Assau				<u>.</u>
Not in Service					<u> </u>	Pump a	nd piping remo	oved?		님		○ [스]N/A
3. Well / Drillhole / Bo	rehole inf	ormation	1		· · · · · · · · · · · · · · · · · · ·	Liner(s)	removed?				res ∐N	○ [꽃]N/A
Monitoring Well	Ori	iginal Con	structio	n Dete (m	im/dd/yyyy)	Screen	emoved?			Ľ	∕es ∐N	o Pana
		10	115	113		Cesino	eft in place?				Yes XIN	<u>o UN/A</u>
Borshole / Drillhole	i ifi	a Well Co	nstructio In	on Report	is available,	Was car	ing cut off bei	low surface?	•	174	res ЦN	o []nva
						Did seal	ing material ris	se to surface	:?		Yes LIN	₀ ∐n/a
	Datasa (Sar		1			Did mat	erial settle afte	er 24 hours?		느		o I JN/A
	Duagu (25t	iopoint)	1			If ye	s, was hole re	topped?	the set		res 🗆 N	
Other (specify):	<u>.</u>					with wat	or from a know	In safe source	viey nyai 20	unna [x]	Y 🐽 🗖 N	6 🗆 N/A
Formation Type:			_			Required N	lethod of Placi	ng Sealing A	laterial			
X Unconsolidated For	mation		Bedroo	ck		Cond	uctor Pipe-Gra	ivity 🛄 Co	inductor l	Pipe-Pump	ed	
Total Well Depth From G	round Surfa	ice (fL) C	asing D	lameter (in.)	Bend	ned & Poured online Chica)	uα	her (Expli	ain):		
6	······		Ц			Sealing Ma	toriele					
Lower Drillhole Diameter	(in.)	Ċ	asing D	epth (ft.)			Cement Grout			Clay-Sand	i Slurry (11	ib./gal. wt.)
		<u> </u>		51	275	Send	-Cement (Con	crete) Grout	Π	Bentonite	-Sand Skurr	y • •
Was well annular space of	routed?	[x]	(es [No		Conc	rete		[X]	Bentonite	Chips	
If yes, to what death death	12	Depth	A Wate	c (feed)		For Monito	ing Wells and	Monitoring L	Vell Bore	vholes Only	r:	
5' (i hele ha	A mu		۲۰۵۱۵ ۸	$1/\Delta$		Benta	nite Chipe	Ļ	Bento:	nite - Ceme	int Grout	
<u>5 [] ban 90</u>	IPM MICH	17. p/	14	<u>//n</u>		Gran	ular Bentonile	L	Bento	nile - Sand	Slurry	
5. Material Used To Fill	Well / Dril	ihole ,	•		· · · · ·	From (ft.)	To (fL)	' Sac	ks Seal	lant		
3/8" Hole Plug						4	6	2	7.5			
											I	
6. Comments		•						•		0.		<u>.</u>
Soil Vapor Extraction	i Well (W	16-51	=-3)	We	Il inst.	Iled 1	botto.	of	4' d	leep n	nonho	ile
7. Supervision of Wo	rk								(DNR Use	Only	
Name of Person or Firm	Doing Fillin	g & Sealin	g Lice	nse #	Date of F	ting & Seal	ng (mm/dd/yy	yy) Date Re	ceived	No	ad By	
Boart Longyear				6189	9.	<u>-4-08</u>	7				-	
Street or Route					Т	elephone Na	mber	Comme	nta			
101 Al	aerson St.		L		(715) 359	-7090					
ully Schoffold			State		de	Signature	of Person Doir	ng Work	~~	Dal	e Signed	• • •
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to of Wis partment (comein M Matti	ni Ra		Route 3			•					i .					
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12" BUS

TOTAL DEPTH



JAN CONS

State of Wis., Dept. of Natural Resources dnr.wl.gov

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Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

Page 1 of 2

			R	oute to:								
Verification Only o	of Fill and	d Seal		Drini Was	king Water te Managemen	, Ц	Watershed/Wa	istewater		Remedia	tion/Redeve	lopment
1. Well Location Inform						2. Facilit	v / Owner Inf	omation	i antico			
County	M Unique	Well # of	Hic			Facility Nar	ne		a Clawr	Charle Phase		
	Removed	Well		·			Wausau	Chemical				
MARATHUN					- 1	Facility ID (FID or PWS)	·		•		
-	ocs and iv		anod C	-008 (88	e instructions)			1311	0.58	\$20		
		- "				License/Pe	mit/Monitoring	#				
· · · · · · ·												
%/% NW % NV	N S	loction	Towns	inip A	ange [x] E	Original W	H Owner We	useu Chemic	-1			
or Gov't Lot #		25	29	N	7 🗋 w	Present W		usau chenue	a 1			
Well Street Address							w	ausau Chemi	cal			
2001 N. River Drive						Mailing Ad	dress of Preser	nt Owner				
Well City, Village or Town				Well ZI	P Code			2001 N	i. River	r Drive		
Wausau				5440	2-0953	City of Pre	sent Owner			State	ZIP Code	
Subdivision Mame							Wau	581		WI	54402-0	953
Reason For Removal From	n Senice	WI Unique	Wei #	of Repl	acement Well	4. Pump	, Liner, Scree	n, Casing a	Seell	ng Mister	let.	•••
Not in Service				•••••		Pump a	nd pipina remo	ved?				
3. Weil / Drillhole / Bo	mhole in	formation				Liner(s)	removed?					
	Юr	iginal Cons	ruction	Dete (mm/dd/yyyy)	Screen	removed?			Ū		
Monitoring Well		10	2/13	193		Casing	left in place?					
Water Well	11	a Well Con	uructio	n Repor	t is available,	Was ca	sing cut off bei	ow surface?		54		
Borehole / Drillhole	ρ	lesse atlach	k.			Did sea	lina material ris	e to surface?		[x]		
Construction Type:				_		Did mat	iorial sottle afte	r 24 hours?			Yes [X] _N	
X Drilled	Driven (Sa	ndpoint)	0	Dug		lf y	es, was hole re	topped?				
Other (specify):					همنيف بين برسم مين	If bento	nite chips were ter from a know	used, were the	ey hydri ?	sted [x]		
Formation Type:						Required I	Nethod of Place	ng Sealing Ma	terial			
X Unconsolidated For	nation		Bedroc	*		Cone	ductor Pipe-Gra	vity 🔲 Con	ductor F	Pipe-Pump	bed	
Total Weil Depth From G	round Surf		sino Di	iameter	(m.)		ened & Poured		r (Expla	uin):		
6				q		Scaling M	eleriele					
Lower Drillhole Diameter	(in.)	C.	sing D	epth (ft.)		Cement Grout			Clay-San	d Sluny (11	lb./gal. wt.)
				. 5	bas		d-Cement (Conc	crete) Grout	Ω	Bentonita	-Sand Sium	/
Was well annular space o	mouted?	[X] _Y	a [No			crete		[X]	Bentonite	Chips	
if yes, to what doub (iss)	12	Denth tr	Water	r (feet)		For Monito	oring Wells and	Monitoring We	ell Borel	holes Only	/ :	
S'll'Lela hattan			λĮ	1A		Bent	tonite Chips	님	Benton	ite - Cemi	ent Grout	
S IT allos willion	mande	-/		1 / I 			I I I I I I I I I I I I I I I I I I I		Benton	vile - Sand		
5. Material Used To FII	Well / Dri	lihole		· · ·	·	From (ft	.). To (ft)	Sack	s Seal	ant		
3/8" Hole Plug						4	6	\Box	<u>, ·</u> ,		<u> </u>	
						_		ļ			L	
								L				
6. Comments			·									·'
Soil Vapor Extraction	n Well	wc-5v	12 -1	ו פ	Noll in	staller	in bo	Home	f 4	'dee,	a ma	Lote 1
7. Supervision of Wo	rik				-		·····		,	NP IL-	Only	
Name of Person or Firm	Doing Fillin	ng & Sealing	Lice	nse #	Date of I	Filling & Sea	itna (mm/dd/w	W) Data Rec		No.	ted By	
Boart Longyear	- g •		· []	6189		94	106			^۳		
Street or Route						Telephone N	lumber	Comment	\$; •	
101 A	lderson St.					(715)35	9-7090					l l
City			State	ZIP (Code	Signature	of Person Doir	ng Work		D a	te Signed	······································
Schofield	•		WI	54	476-			_11/_		<u></u>	- 6- 9	3-09
								11 50				

		C) Solid Wes C) Briegen; C) Waternin C) Waternin C) Appendicat	to y Response r	C Han V Utaler, Water	Vasia giornal Rasses	Tachs rais		BOI Form	4400-	RING 122	LOG	IN P (ORM/ Ri	TION W. <u>5-</u> 55
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Anna Print	4	W 6	Hes Well N - L V E - L			Vale Jaci	Loval		1200		Y Y Mat		8	index :
Marath	1/4 of Section	25,729	N. H. 7	AW L			Territor	Clor] r VIII					
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SUPPLY NPL SITE

State of Wis., Dept. of Natural Resources dnr.wl.gov

Weil / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

			R	oute t	0:								
Verification Only	of Fill and	i Seai		Du	inking V	Vater	<u> </u>	Vatershed/Wa	istewater	[x]	Remedia	ition/Redev	elopment
				⊡ w:	aste Ma	inagemen		Other:					
1. Well Location Infor	mation				•		2. Facility	/ Owner inf	omation				
County	WI Unique	Well # of	H	cap #			Facility Nam	9					
MARATHON								Wausau	Chemical				
Lattitude / Longitude (Deg	inees and M	inutes) M	lethod (Code (tes ins	fructions)	Facility ID (F	ID or PWS)		200	62 1		
•		'N		(,			15 110		020		
· .		-					License/Perr	nit/Monitoring	₩				
· · ·		<u> "</u>					Ord-level 184-1	0					
<u>%/% NW % N</u>	w s	ection	Town	ship	Range	' [x] E		i Owner We	useu Chami	I			
or Gov't Lot #		25	29	N	7	۵w	Present Wel	Outrer	usau cuenn				
Well Street Address								W	ausau Chem	ical			
2001 N. River Drive							Mailing Add	ess of Prese	nt Owner				
Well City, Village or Town)			Well	ZIP Co	de			2001	N. Rive	r Drive		
Wausau				54	402-09	53	City of Pres	ant Owner			State	ZIP Code	
Subdivision Name				Lot	•			Wau	58 0		WI	54402-	-0953
	- Oracian	Ad the					4. Pump.	Liner, Scree	n. Casing	. Seeil	na Mate	riat .	•••••
Reason For Removal Fro	m service	ivvi Uniqu			ipiacem		0	4 -1-1					
Not in Service		<u> </u>					Pumpan	a piping remo			H		
3. Well / Drillnole / Bo				- 0			Liner(s) n	emoved?			님	Yes Lin . IVI.	
Monitoring Well				n Dem 1417.	e (mmva	(ayyyy)	Screen n	Sinoved?			님	Yes LOHN 	
Water Well			120	110			<u>Casing ie</u>	IT IN DIACE?					
Borehole / Drillhole	an a	n Weil Co Rase attai	nstrucik :h.	on Rep	ort is a	valizbie,	Was cas	ng cut off bei	ow surface?		IN IN		ᄵᆸᄡ
Construction Type:							Did seali	ng material ris	ie to surface	?			ᄵ 님N/A
		de clati	1	 _	-		Did mate	rial sottle afte	r 24 hours?		님	Yes XIN	to UNA
	Duven (Sar	opoint)	1		9		If yes	i, was hole rei le ching were	topped?	un hude		Yes LIN	
Other (specify):							with wate	r from a know	n safe source	ny nyu 17	•••• [X]	Yos Dr	<u>40 🛛 N/A</u>
Formation Type:			_				Required M	ethod of Placi	ng Sealing M	sterial			
[X] Unconsolidated For	mation		Bedro	ck				ictor Pipe-Gra	ᄤᅛ	iductor l	Pipe-Pump	bec	
Total Well Depth From G	iround Surfa	œ (fl.) C	lasing C	Xamet	er (in.)		(Bento	nea & Pourea Inite Chips)	LI Oth	er (Expli	uin):	<u> </u>	
17	•			$\underline{\mathbb{A}}$			Sealing Mat	erials					
Lower Drillhole Diameter	' (in.)	c	asing C)epth (n.)	-		Cement Grout			Clay-San	d Slurry (11	l Ib./gal. wt.)
					<u>_</u> >		Sand-	Cement (Cond	crets) Grout	\Box	Bentonite	-Sand Slur	ry " "
Was well annular space	arouted?	[X]\	Yes		, П	Unknown	Concr	ete		[X]	Bentonite	Chips	
if yes to what depth (fee	4)2	Death	to Wate	e (leat	1		For Monitor	ing Wells and	Monitoring V	iali Bore I	hoies Onl	Y.	
			Ň	A V	1		Bento	nite Chips	느	Bentor	nile - Cem	ent Grout	
	• • • • •	<u> </u>	/	<u></u>			Granu	lar Bentonite		Bentor	nite - Sano		
5. Material Used To Fil	l Well / Dril	inole	•	•		.त्र	From (fL)	To(ft)	Sacl	ts Seal	ant		
3/8" Hole Plug							Surface	16		1			
6. Comments											•••		•
Soil Vapor Extraction	n Well (V	vc-si	/E -E	>									
7 Quese deles el Ma			****				•						
1. Supervision of Wo						D	"Mine A A				DNR Use	Only	
Reart Lorgica	Uoing Han	g a sealli	ng Lice	9030 #	~~	Uate of F	ining & Seath	ng (mm/dd/yy)	yy) Date Re c	beviet	No	ted By	
Simet or Route				61	89	L	1410	<u>'n</u>	-	A	<u> </u>		
	lderson St					ſ		7000	Lommer				
City	-20.3011.34		State	Dis	Code	1	(13)359-	Person Date			m-	to Closed	
Schofield			WI	["]	54476-						- Ľ		1-m
							مستحصيات		111	- in			2 07

State of Wisconsin Department of Natural Resources Route to: Soli	id Waste 🗌 Haz. Waste 🗍 Was & Renair 🗍 Underground Ta	stewater	MONITORING WELL CONST Form 4400-113A	RUCTION Rev 4-90
Facility/Project Name	Local Grid Location of Well		Well Name	
Wausau Chemical			SVF-5	
Facility License, Permit or Monitoring Number	Grid Origin Location	······································	Wis: Compos Well Number DNR: W	GillNuminer
	Lat Long.	o''" or		
Type of Well Water Table Observation Well	St. Plana A. M.		Date Well Installed	
Piezometer	Section Location of Waste/Source	n. e.	03/20/96	
Distance Well Is From Waste/Source Boundary			Well Installed By: (Person's Name a	nd Firm)
ft.	1/4 of 1/4 of Sec,	$\underline{T}_{\underline{N}} \underline{N}, \underline{R}_{\underline{N}} \underline{D} \underline{W}_{\underline{N}}$	Ion Weeks	
Is Well A Point of Enforcement Std. Application?	u 🛛 Upgradient s 🗆	Sidegradient		
🗆 Yes 🛛 No	d 🗆 Downgradient n 🗆	Not Known	Boart Longyear	
A. Protective pipe, top elevation f	t. MSL	1. Cap and lock?		(es 🛛 No
B. Well casing, top elevation 5.00 f	t. MSL	2. Flotective cov	er pipe.	4.0 in
C. Land surface elevation f	t. MSL	b. Length:	Cull.	7.0
D. Surface seal, bottom ft. MSL or	2.0 ft.	c. Material:	Ste	el 🛛 04
12 USC electrication of soil and some			Oth	er 🗆 🕁
12. USC classification of soil hear screen:		d. Additional	protection?	es 🗵 No
SM SC ML ML MH CL		IT yes, desc	ribe:	
Bedrock		3. Surface seal:	Benton	ice ∐ 30⊤ ⊷ 12101
13. Sieve analysis attached? Yes N	īo 🛛 🎇 🞇	\mathbf{N}	Concre	
14 Drilling method used Botary DS		4 Material betwee	en well casing and protective pipe:	ينت 🗆 ٢٠
Hollow Stem Auger Ø4			Bentoni	te [] 30
	···· 🕺 📓		Oth	er □ ∷
15. Drilling fluid used: Water 0 2 Air 00				
Drilling Mud 🗆 0 3 None 🖾 9	9. 888	-5. Annular space	seal: a. Granular Bentoni	
Ç i i		0Los/g	a mud weight Bentonite-sand slur	ry L 33
16. Drilling additives used?	10 😸 👹	cLos/gi	a mud weight Bentonite slur	ry 🗆 31
		u // Dei	Et ³ volume added for any of the abo	
Describe		f How instal	led. Trem	ive ia ⊏1 0.1∎
17. Source of water (attach analysis):				
			Gravi	
		6. Bentonite seal	a Bentonite granul	
E. Bentonite seal, top ft MSL or	2.0 ft.	b. $\Box 1/4$ in.	$\square 3/8$ in $\square 1/2$ in Bentonite pelle	us 12132
	🛛 🕅	c	Orh	er []
F. Fine sand, top ft. MSL or	fr 🔪 🕺 👹	.7. Fine sand mat	erial: Manufacturer, product name a	nd mesh size
	\ 🛛 🖉 /			
G. Filter pack, top ft. MSL or	<u>4.0</u> ft.	b. Volume add	ied fr ³	
		8. Filter pack ma	terial: Manufacturer, product name	and mesh si
H. Screen joint, top ft. MSL or	<u>5.0</u> ft.		Pea Gravel	
• • •		b. Volume add	ied fr ³	
I. Well bottom ft. MSL or	<u>17.0</u> ft	9. Well casing:	Flush threaded PVC schedule 4	
			Flush threaded PVC schedule 8	
J. Filter pack, bottom ft. MSL or	<u>19.0</u> ft	<	Oth	er ⊓ 🔅
·		10. Screen materia	al: PVC	
K. Borehole, bottom ft. MSL or	<u>19.0</u> ft.	a. Screen Tvr	e: Factory of	
			Continuous sl	ot 🗆 0 🔳
L. Borehole, diameter <u>8.0</u> in.		······································	Oth	er 🗆 🔅
		b. Manufactu	rer Boart Longyear	
M. O.D. well casing <u>2.37</u> in.		c. Slot size:		0.100 in
-		d. Slotted len	gth:	12.0
N. I.D. well casing <u>2.06</u> in.		11. Backfill mater	ial (below filter pack): No	ne 🖂 1
-			Oth	er 🗆 🖾
I hereby certify that the information on thi	s form is true and correct	to the best of my kn	owledge	
Signature	Firm Boart I ongrise	r	million and a second se	5) 250 50
- last-	101 Alderson Stre	u et	Tel: (7)	15) 359-709 15) 355 5714
Please complete both sides of this form and return to	the appropriate DNR office liste	ad at the top of this form :	rax: (// as required by chs. 144, 147 and 160	. Wis. =
Stats., and ch. NR 141, Wis. Ad. Code. In accordan more than \$5000 for each day of violation. In accord	ce with ch. 144, Wis Stats., faile dance with ch. 147, Wis. Stats	ire to file this form may i failure to file this form m	result in a forfeiture of not less than s	510, nor

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more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Verification Only of Fi	il and Seal		ute to: Drinking V Waste Ma	Vater Inaciament		Watershed/Wa	stewater	[X] Remedia	tion/Redevelopment
I Mail Leastion Information					لىسبا مولار مى 10			-	
. Well Locadon information		b 11			L. Pacing	/ Owner and			
County Mr C	Noved Well	HICI	ND #		-acility Nari	10	~		
MARATHON						Wausau	Chemical		
Lattitude / Longitude (Degrees	and Minutes) M	ethod Co	de (see ins	tructions)		-10 or PVVS)	73710	5820	
*					License/Per	mit/Monitoring	#		
***	w								
%/% NW % NW	Section	Townet	vip Range	' [x] E	Original We				
or Gov't Lot #	25	29	N 7	Яw		w	usau Chemicai		
Weil Street Address	······				Present We				
2001 N. River Drive						w	ausau Chemica	1	
Well City, Village or Town			Well ZIP Co	de	Mailing Add	ress of Preser			
Wausau			54402-09	53			2001 N.	River Drive	
Subdivision Name			Lot		City of Pres	ent Owner		State	
						Wau	58.1	l wi	54402-0953
Reason For Removal From Se	rvice M Uniqu	e Well S (of Replacem	ent Weil	4. Pump,	Liner, Scree	n, Casing & S	icaling Mater	lal
Not in Service			•		Pumo ar	omen pinicia br	ved?		
1 Well / Drillhole / Bomby	le l				Liner(s)	removed?			
S. Weit / Drinniche / Boreik	Original Coo	to velico		(dhanau)	Screen	ammed?			
Monitoring Well		3100	141	~ ,,,,,,	Casina			Ē	
		1 2.1		M. 4.4.					
	If a Well Cor	nstruction h.	Heport is a	veliadie,	Was cas	ing cut off bei	ow surface?	5	
					Did seal	ing material ris	ie to surface?		
			٦_		Did mat	orial sattle afte	r 24 hours?	날	Yes [A]No [JN//
	en (Sandpoint)	L	The		lf ye	s, was hole rel	topped?		Yes LINO LIN/
Other (specify):					with wat	er from a know	n safe source?	invoraneo [X]	Yee 🗆 No 🗖 N//
Formation Type:					Required N	lethod of Placir	ng Sesting Mate	fial	
X Unconsolidated Formatio	м П	Bedrock			Cond	uctor Pipe-Gra	vity 🔲 Condu	ctor Pipe-Pump	ed
Total Wall Depth From Group	d Surface (ft.) C	asing Dia	imeter (in.)			aned & Poured	Other (Explain):	
6			2		Senino Ma	tertain			
I over Dollhole Diameter (in.)		asino De	pth (ft.)		Neat	Cement Grout			i Siurry (11 lb./aai. wi
	Γ	4			Sand	-Cament (Cond	mete) Grout	Bentonite	-Sand Sturry * *
	<u>ا با ا</u>	/	1		1 Times	rata		X Bentonite	Chine
Was well annular space grout	ed?	/es L		Unknown	En Monto	non Wells and	Mooiloging Well	Romboles Only	r Cimpe
If yes, to what depth (feet)?	Depth 1	o Water	(feet)			onile Chice		entonile - Cemi	Int Grout
<u>ح</u>		\sim	1.4			ular Rentonile	П.	entopile - Sand	Skiny
6 Metadal Head To Sill Wa					Emm /A	Tale	<u> </u>	Carlant	
			•		FILM (IL		Sacks	Sealant	ļ
3/8" Hole Plug					Surface	12		<u>n</u>	↓
6 Commente	•		-				<u>I.</u>	• •	
Soil Vapor Extraction We	I (WC-Si	/E-6))		<u> </u>				· · · · · · · · · · · · · · · · · · ·
7 Rusendelen of Work								DND	Onbi
Name of Person of Firm Date	a Filling & Section			Date of 5	Nine & See	no (mentilate	AND Date Barnh		UIRY
	A LINNIA OF DESKL	w Licen	190 W		Miny & Selli 9 / L	**9 (mm voory) //) 4	y) Late Kecsi		He by
Street or Boute		1	0189	I	elechone		· · · · · · · · · · · · · · · · · · ·		<u>.</u>
	on St			Ľ	0000100000N	311UEF		·· :	
	UII JL.	State	DID Code		(15) 559 Signature	-/UYU		<u></u>	
Uny Schoffeld			ELIF CODE		Pignature -				e Signed
Schullen		1 1	1 544/0-			man	- 111 /	fert-	- 6- 5-01

State of Wisconsin Route to: Sol Department of Natural Resources Env. Response	id Waste 🗌 Haz. Waste 🗐 Wastews & Repair 📋 Underground Tanks	ater [] Other []	MONITORING WELL CONSTR Form 4400-113A	RUCTION Rev. 4-90
Facility/Project Name	Local Grid Location of Well		Well Name	
Wausau Chemical		ft. □ ₩	SVE-6	
Facility License, Permit or Monitoring Number	Grid Origin Location	had 17 t	Wis: Unipor Well Number .: DNR: We	ll:Nounder
	Lat Long	o ' " or		
Type of Well Water Table Observation Well	St. Plane ft. N.	ft E	Date Well Installed	
Piezometer	Section Location of Waste/Source		03/20/96	
Distance Well Is From Waste/Source Boundary	1/4 of 1/4 of Sec T		Well Installed By: (Person's Name and	d Firm)
ft.	Location of Well Relative to Waste/	Source	Jon Weeks	
is well A Point of Enforcement Std. Application?	u 🗋 Upgradient 🛛 s 🗔 Sid	legradient		
<u> </u>	d 🗆 Downgradient 🛛 n 🗆 No	t Known	Boart Longyear	
A. Protective pipe, top elevation f	ft. MSL	1. Cap and lock?	Ye	s 🖾 No
B. Well casing, top elevation 6.00	t. MSL	2. Protective cov	ver pipe:	4.0
		a. Inside diam	leter:	$-\frac{4.0}{7.0}$ in.
C. Land surface elevation 1	t. MSL	D. Length:		<u> </u>
D. Surface seal, bottom ft. MSL or	1.0 ft.	C. Material:	Steel	
12. USC classification of soil near screen:		d Additional	nrotection?	
	SP TI XXX	If yes, desc	ribe:	
SM D SC D ML D MH D CL D	СНО		Bentonite	
Bedrock		³ . Surface seal:	Concrete	5101
13. Sieve analysis attached? Yes N	40	\	Other	n Š
14. Drilling method used: Rotary 🗆 5	o 🗱 👹	4. Material betw	een well casing and protective pipe:	
Hollow Stem Auger			Bentonite	0 30
Other 🖸			Annular space seal	
			Other	
15. Drilling fluid used: Water 0 2 Air 00		5. Annular space	seal: a. Granular Bentonite	
Drilling Mud $\Box 0.3$ None $\boxtimes 9$	' ⁹	bLbs/g	al mud weight Bentonite-sand slurry	□ 35 <u></u>
16. Drilling additives used? Yes		cLbs/g	al mud weight Bentonite slurry	
		d% Be	ntonite Bentonite-cement grout	D 50
Describe		e	Ft ³ volume added for any of the above	e _
17. Source of water (attach analysis):		f. How insta	lled: Tremie	
•			Tremie pumped	
		6 Demonstra and	Gravity	
E Bentonite seal ton A MSL or	1.0	\sim b $\Box 1/4$ is	a. Bentonite granules	
	II \ 📓 📓 🗸	0. U1/4 III.	□ 3/8 in. □ 1/2 in. Bentonite pellets	
F Fine sand, ton ft MSL or	∧ \ 📓 📓 🖊	.7. Fine sand mat	erial: Manufacturer product name and	u ⊥iu— Imechsize
	N N N		eren interestator, product name and	
G. Filter pack, top ft. MSL or	<u>3.0</u> ft.	b. Volume ad	ded fr ³	<u>++++++</u>
• • • •		.8. Filter pack ma	aterial: Manufacturer, product name ar	nd mesh size
H. Screen joint, top ft. MSL or	<u>4.0</u> ft.	a	Pea Gravel	
		b. Volume add	fed ft ³	`÷÷
I. Well bottom ft. MSL or	<u>16.0</u> ft.	9. Well casing:	Flush threaded PVC schedule 40	× 23
			Flush threaded PVC schedule 80	24
J. Filter pack, bottom ft. MSL or	<u>16.0</u> ft.		Other	· o 🖄
	17.0	10. Screen materi	al: PVC	
K. Borehole, bottom ft. MSL or	<u>17.0</u> ft.	a. Screen Tyj	e: Factory cut	⊠ 11
9.0			Continuous slot	
L. Borehole, diameter in.			Other	
237	\mathbf{X}	b. Manufactu	rer Boart Longyear	- 100
M. O.D. well casing 2.57 in.	\sim	c. Slot size:		<u>J.100</u> in
N LD well assis 2.06		d. Slotted len	igu:	12.0
N. I.D. well casing 2.00 in.		II. Dackini mater	nal (below filter pack): None	
I hereby certify that the information on this	e form is true and correct to d	ha hast of my	Other	
Signature	Firm Dearty	ne best of my kn	uwieage.	
rem To IA	101 Alderson Street	•	Tel: (715)	359-709
Please complete both sides of this form and return to	the appropriate DNR office listed at	the top of this form	Fax: (715 as required by chs. 144 147 and 160) 300-5715 Wis
Stats., and ch. NR 141, Wis. Ad. Code. In accordan more than \$5000 for each day of violation. In accor	ce with ch. 144, Wis Stats., failure to dance with ch. 147. Wis. Stats failure	o file this form may in the to file this form m	result in a forfeiture of not less than \$10	0, nor

\$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Weil / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Verification Only of Fi	i and Seal	Route to:	Water	٦	Vatershed/Wa	istewater [2	X]Remedia	tion/Redevelopment
		Waste Ma	anagament)ther:			
1. Weil Location informatio	8			2. Facility	/ Owner inf	ormation		
County WI U	nique Well # of	Hicap #		Facility Name	•	*****		
MARATHON		_			Wausau	Chemica!		
Lattitude / Longitude (Degrees a	and Minutes) Met	hod Code (see ine	structions)	Facility ID (Fi	ID or PWS)	777100	(a)	う
	'N			icense/Rem	nit & Lonitaria	13.100	000	
•	•₩				IN MAKANGANGANG	•		
	Kerten h	Coursehin Dance		Ortginal Well	Owner			
or Govillet	- 75	20 7	XE	-	Wa	usau Chemical		
Weil Street Address		23 N /		Present Well	Owner			
2001 N. River Drive				L	W	ausau Chemical		
Well City, Village or Town			xie	Malling Addr	ess of Prese	nt Owner		
Wausau		54402-09	53			2001 N. Riv	er Drive	
Subdivision Name		Lot #		City of Press			State	ZIP Code
					Wau	528		54402-0953
Reason For Removal From Ser	vice Wi Unique V	Well # of Replacen	nent Well	- Pump, c	Liner, Scree	n, casing & Sea	Hing Meter	181
Not in service				Pump and	t piping remo	ved?	느	
3. Well / Drillhole / Boreho	le Information			Liner(s) re	emoved?		나	
Monitoring Well	Original Constr	uction Date (mm/c	(d/yyyy)	Screen re	moved?		լու	res LINO LINI
	<u> </u>	10/93		<u>Casing le</u>	it in place?		나	
	If a Well Const classe attach	ruction Report is a	wailable,	Was casi	ng cut off bek	ow surface?		Yes UNO XIN
Construction Type:				Did sealir	ng material ris	e to surface?		Yes LINO LIN
	n (Sandooint)			Did mater	ial settle afte	r 24 hours?	느	Yes [X]No []N
	(Sanopoint)			if yes	, was hole rel le chine were	opped? used were they by:		Yes LINO LIN
				with water	from a know	n sale source?		
Formation Type:	_			Required Me	thod of Placir	ng Sealing Material		
X Unconsolidated Formation	В	edrock		TX Screen	ctor Pipe-Gra and & Rourand		' Pipe-Pump	ed
Total Well Depth From Ground	Surface (fl.) Casi	ing Diameter (in.)		(Bento	nile Chips)	Other (Exp	lain):	
	12	in a Death (ft.)	0.5	Sealing Mate	ertale		1	
		ng Depin (ir.)	2		ement Grout		Clay-Sand	d Skurry (11 lb./gal. w
	<u>i</u>				Jement (Conc	rete) Grout [[v		-Sand Slurry " "
Was well annular space groute	d? 🔼 Yes		Unknown	For Monitoria	ne Vale and	aj Monitorina Wett Boy	-] Benionite	Chips
If yes, to what depth (feet)?	Depth to \	Water (feet)		Bentor	ite Chice	Bentr	onile - Cem	Int Grout
2		14/1		Granul	ar Bentonite	Bentr	onite - Sand	Siurry
5. Material Used To Fill Well	/ Drillhole	· ·	•	From (fL)	To (ft.)	Sacks See	lant	T
Hole Plug				Surface	12			
					<u> </u>	0.3		
					†			
6. Comments	· · · · ·			·	4	L	· •.	
Gas Probe (GP- 14)					······································	· · · · · · · · · · · · · · · · · · ·		
7. Supervision of Work				<u> </u>		· · · · · · · · · · · · · · · · · · ·	DNR Use	Only
Name of Person or Firm Doing	Filing & Sealing	License #	Date of Fi	ting & Sealin	g (mm/dd/yy)	y) Date Received	No	led By
Street or Route		6189	T	13/07			<u> </u>	
101 Alderen	n St.		l l		nder 7000	Comments		
City	kı	ate ZIP Code	1(/15) 359-	/UYU	a VA/acti	<u> </u>	01
Schofield	ľ	WI 54476-			Cerson Uoin			e Signed
					me	III was	<u></u>	- p. 5-04

		(OVERBU	JRDEN)	NTATION G		(1	L-e
PROJE	CT NAME: WAUSAU WATER SUP	PLY NPL SITE		HOLE DESIGNATION: G	P-14		
PROJE	CT NO.: 3978			DATE COMPLETED: DE	FOFMR	FR 10	•
CLIENT	WAUSAU PRP GROUP			DRILLING METHOD: 4	1 /4=	-N 10,	
LOCAT	ION: WAUSAU CHEMICAL			CRA SUPERVISOR: P.			•
DEPTH	STRATIGRAPHIC DESCRIPTION	REMARKS	ELEVATION	MONITOR			5
10 003			ft BGS	INSTALLATION	NU		Ř.
					B E	Â Ê	A L U
	MI-SILT little good little for		-0.2	BENTONITE	<u></u>		<u>E</u>
. 7 5	moist	e graves, brawn,					
2.9	SP-SAND, trace coorse grow	el fine proined	-3.0	STAINLESS			
£ 0	light brown, moist	ar ine granea,		STEEL PIPE			
3.U				GRAVEL PACK			
76							
7.5				WELL SCREEN			
				BOREHOLE			
10.0			-100				
		· .					
12.5	END OF HOLE @ 12.5 FT. B	GS	-12.5				
	,			SCREEN DETAILS			
15.0				2.0 to 12.0' BGS			
				Diameter -1/2"			
17.5				Holes-1" on Center			
		· .		Material —Stainless Stee Sand pack interval:	1		
20.0				2.0 to 12.5' BGS			
		•					
22.5							
25.0							
27.5							
30.0							
32.5							
			1			1.	

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State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Verification Only	of Fill and Seal		Route to:	Water		Vatershed/Wa	stewater [1	K]Remedia	ition/Redevel	opment
			Waste M	anagemen)ther:				
1. Well Location Inform	nation		<u> </u>		Z. Facility	/ Owner info	ormation	9 <u>553</u>) }		1
County	WI Unique Well # - Removed Wall	of P	ticap #		Facility Name)				
MARATHON			-		Cacility ID /C	Wausau I	Unemical			
Lattitude / Longitude (Deg	rees and Minutes)	Method	Code (see in:	structions)	- acany IU (Fi	U OF PWS) _	737105	820	•	
· · · · · · · · · · · · ·	" 'W				License/Perm	nit/Monitoring	#			
	W Section	Trow	nship Rano	• () E	Original Well	Owner				<u></u>
or Gov't Lot #	25	2	9 N 7			Wa	usau Chemical			
Well Street Address					Present Well	Owner				
2001 N. River Drive						W	usau Chemical			
Well City, Village or Town			Well ZIP C	ode	Making Addr	ess of Presen	1 OWNER 2001 N. 121	on Dalas		
Wausau			54402-09	953	City of Dates		2001 N. KIV	Er Drive	DID Code	
Subdivision Name	······································		Lot		any or Press			Surue	54402-00	063
					d Prases 1		n Chelne I Peri	i vvi	1 34402-09 dat	
Reason For Removal From	m Service M Uni	que Wei	I # of Replacer	nent Well	re. Pump, c	Liner, Scree	n, casing a bee			
10 07 12 SOM					Pump and	1 piping remov	/ed?	H		[X] _{N//}
3. Well / Drillhole / Bo	Crisical C	DA	ing Data (mml	dahaana		noveor mared?		[x]		
Monitoring Well		211	3/43	002999993	Casing let	ft in place?		Ö	Yes [X]No	
Water Well		anshur	tion Report is a		When onei					
Borehole / Drilthole	please att	ach,			Did seatin	ng cut un beid no material de	a to surface?	[x]		
Construction Type:				· · · · ·	Did mater	is) settle after	24 hours?	Ö		
[X] Drilled	Driven (Sandpoint)				lf yes	, was hole ret	opped?	Ē		[X] _{N/}
Other (specify):					if bentonit	e chips were i	sed, were they hyd	frated [x]		
Formation Type					Required Me	thod of Placin	a Seating Material	[#j		
		Beda	nck		Condu	ctor Pipe-Grav	rity Conductor	Pipe-Pum	bed	
Total Weil Depth From G		Casion	Diameter (in)		- X Screer	ed & Poured	Other (Exp	(ain):		
	12			0.5	Sealing Mate	nite Chips) sriala				
Lower Drillhole Diameter	(in.)	Casing	Depth (ft.)		Nest C	Cement Grout] Clay-San	d Slurry (11 II	b./gal. w
				.2	Sand-(Cement (Conc	rete) Grout	Bentonite	-Sand Slumy	••
Was well annular space of	muted?	lves				ete	[x] Bentonits	Chips	
If yes, to what don'th (feel	12 Dan				For Monitori	ng Weils and I	Monitoring Well Bor	aholes Onl	y :	
ii yee, to what depth (iee		U TO AAS			Bentor	vite Chipe	L Benk	onite - Cem	ent Grout	
6 Metodel Head To Ell					Granul	lar Bentonite	Bent	onite - Sano	1 Slurry	
					From (IL)	10(11)	Sacks Sea	liant	<u> </u>	
Hole Plug	·····				Surface	12	· · · ·	24		
	·······								+	
5 Comments							<u>.</u>			
Gas Probe (GP- 15)	>						· ·			
T Dupondolog of Min									-	·
I. Supervision of WO	TR. Doing Eiling & Con			Data of F	Bas & Carp			UNR Use	Only	
Roart Longveer	Long raing & See	ang Lk			nangaSealin ′ୁ (ୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁ	ng (mm/dd/yyy	y) Date Received	Na	ned By	
Street or Route			0187	<u> </u>	Aleohone Nie	nber	Commente	I		
101 Al	derson St.			Ľ	7151340	7090				
City		State	ZIP Code		Signature of	Person Doin	a Work	h	te Signed	
Schofield		W	54476-	•			11/1	_ r	- 6-9	5-09
						~~~~~	and the second s		<u> </u>	



State of Wis., Dept. of Natural Resources dnr.wi.gov

# Well / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identificable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

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		00,000.	R	oute t	o:									
Verification Only	of Fill an	d Seal		Dr Wi	inking W aste Mar	later nagement			atershed/Was her:	stewater	[X]Reme	siation/	Redevelopn	nent
1. Well Location Inform	nation				, <b>.</b>		2. Fac	Hity /	Owner info	mation				
County	WI Unique		H	cap #			Facility	Name					· · · · · · · · · · · · · · · · · · ·	
MADATHON	Removed	Well							Wausau	Chemical				
IVIARATION				Sada (			Facility	ID (FIC	) or PWS)		~ 117 A			
•										13/105	820			
· · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·  · · · · · · ·		wl					License	:/Permi	it/Monitoring	#				
%/% NW % N	w	Section	Town	ship	Range	[x] E	Original	Well (	Owner We		······			
or Gov't Lot #	]	25	29	N	7	<u>iiw</u>	Presen		Öwner	usau Chennea				
Well Street Address									Wi	usau Chemica	nl			
2001 N. River Drive	- · · · · · ·			141.0		A .	Mailing	Addre	ss of Presen	t Owner				
Well City, Village or Town	l			VVel .	ZIP Cod	20				2001 N.	<b>River Drive</b>			
Subdivision Name				54	402-095	9	City of	Presor	x Owner		State	ZIP	Code	
					•			_	Waus	au	wı		54402-0953	
Reason For Removal Fro	m Service	WI Uniqu	e Well (	and Re	placeme	ant Well	4. Pu	mp, Ll	iner, Scree	n, Casing &	Sealing Me	<b>isrial</b>	· · · · · · · · · · · · · · · · · · ·	
Not 12 Ser	vice						Pum	up and	piping remov	red?	<u> </u>		□ _{N0} [2	K]N/A
3. Well / Drillhole / Bo	rehole in	formatio	n				Line	r(s) ner	moved?		Ĺ	lyes		<u>K</u> N/A
	q	riginal Cor	structio	n Date		LANNA)	Scre	ien ner	noved?			X Yes		
	Monitoring Well . 12/13/1113								in place?	<u></u>	L	Yes	<u> </u>	
	1	a Well Co	nstructio	on Rep	ort is av	ailable,	Was	s casin	g cut off belo	w surface?	l l	Yes		K] N/A
Borehole / Drilhole	F		2 <b>1</b> .				Did	sealing	g material rise	e to surface?	[	Xiyes	LINO L	
Construction Type:	I			<b></b> _			Did	materi	al sottle after	24 hours?	Ĺ	Yes	X No	INA
	Driven (Sa	indpoint)		Du	<b>Q</b>			If yes,	was hole ret	opped?	L	lyes		≦N/A
Other (specify):			<u></u>				with	water	from a knowr	sale source?		xl _{Yes}		
Formation Type:							Requir	ed Met	hod of Placin	g Sealing Mate	rial			
[X] Unconsolidated For	mation		Bedro	ck				Conduc	tor Pipe-Grav	rity 📙 Condi	uctor Pipe-Pu	mped		
Total Well Depth From G	round Sur	ace (fl.) (	Casing C	Namet	er (in.)			Benton	ite Chips)	C Other	(Explain):		<u> </u>	
	12					0.5	Sealing	) Mater	riale		~			ومروي والمراجع والمراجع
Lower Drillhole Diameter	(in.)	K	Casing C	)epth (	ft.)	,	יאן	vest Ce	ement Grout		ပြုံငားမှား	and Sk	umy (11 lb./g	j <mark>al. w</mark> t.
		<u> </u>				-		Sand-C	ement (Conc	rete) Grout	Benton	ito-Sa	nd Slurry " "	,
Was well annular space	grouted?	X	Yes		ه <b>□</b> ر	Unknown		Concret	<b>be</b> a Maila and I	l de a Ma via a 14/ad	[X] Benton	ite Chi	<b>P6</b>	
if yes, to what depth (fee	()?	Depth	to Wate	r (fect	}			antoni Jeotooi	g woos and i He Chine		Borenoles C	mry: ment /	Court	
	2		1	ViA				Granulz	vr Bentonite	Hì	Sentonite - Co Rentonite - Sa	nd Sk		
5. Material Used To Fil	l Weil / Dr	uihole _				•	From	1 (R.)	To (fL)	Sacks	Sealant		<u></u>	<u></u>
Hole Plug							Sur	face	12		. 14			
6 Comerciato		<u>.</u>					1				_			
Gas Probe (GP- (y)	)								<del>, ,</del>					<del></del>
7. Supervision of Wo	ork			i-	~	<u>.</u>					DNRU			
Name of Person or Firm	Doing Filli	ng & Seali	ng Lice	ense #		Date of F	illing & S	Sealing	(mm/dd/yyy	y) Date Recei	ved	Noted	By	
Boart Longyear	-			61	89	9,	4/34	{ ]		· · · · · · · · · · · · · · · · · · ·	:	••		
Street or Route						ĥ	elephon	e Nur	ber	Comments				
101 A	lderson St	·		ب ہے۔			715)	<u>359-7</u>	7090				· · · ·	
City			State	Zir	Code		Signat	ture of	Person Doin	g Work	~ ]	Date S	igned	
Schofield			l wi		54476-				me	- 111 []	1e		b-8-6	<u>71</u>

			STRATT	APHIC AND (OVER	INSTRUME RBURDEN)	NTATION G			(L-7	70)
PROJEC	T NAME:	WAUSAU	WATER SU	PLY NPL SITE		HOLE DESIGNATION: GP	-16			
PROJEC	CT NO.:	3978	·.			DATE COMPLETED: DE	CEMBE	R 13	5 19	50
CLIENT:		WAUSAU	PRP GROUI	C	·	DRILLING METHOD: 4	1/4"	DHS	SA 15	3.5
LOCATIO	ON:	WAUSAU	CHEMICAL			CRA SUPERMSOR: P.	KLICK			
DEPTH	STRATICE	APHIC DE	SCRIPTION	& REMARKS	FLEVATION	MONITOO				
ft BGS			· · · · · · · · · · · · · · · · · · ·		ft BGS	INSTALLATION	N	SAMI SAMI	PLE N	P
						51 _ 7	- M	Í	Å	6
	TOPSOIL	, vegetat	ion		-0.5			↓ E	Ē	<u>tepm</u>
2.5	36-340		ine gravel,	fine grained, br	own	CHIPS CHIPS CHIPS SAND PACK				
5.0						GRAVEL PACK				0
7.5						WELL SCREEN				
10.0						BOHERHOLE				0
12.5	END OF	HOLE •	12.5 FT. E	IGS	-12.5	SCREEN DETAILS:				0
15.0						Screened Interval: 2.0 to 12.0' BGS Length -10.0' Diameter -1/2"				•
17.5	, ,		·			Slot # Drilled 3/32"# Holes—1" on Center Material — Stainless Stee				
20.0						2.0 to 12.5' BGS Material —Pea Gravel				
22.5										
25.0										
27.5										
30.0										
32.5										
NOTE	S: ME	ASURING	POINT ELEV	ATIONS MAY CH	ANGE: REFER	TO CURRENT ELEVATION				$\neg$
	 (		ANAI YSIS			TO CORRENT ELEVATION T	AULE			

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### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)

Page 1 of 2

				Rout	e to:									,	
Verification Only o	of Fill an	d Seal			Drinkir Waste	ng W Mar	later nagemen	t		atershed/Wa ther:	stewater	[X]Re	mediat	tion/Rede	veiopment
. Well Location Inform	nation	Sheyta .				1.1		2. FI		Owner Info	mation	141. I.A.S			
County	WI Unique	Well # o	1	Hicap				Facilit	/ Name	3				<u></u>	
MADATHON	Removed	Well							_	Wausau	Chemical				
stitude / Longitude /Deg					. /	inet		Facilit	y ID (Fi	D or PWS)	77710	100			······································
• •	CCS and H	'N	100.0					<u> </u>			15/10	5 82	<u></u>		
·		— "						Licen	e/Perm	vit/Monitoring	*				
· · · · · · · · · · · · · · ·		<u> </u>				_				Oumer					
<u>/// NW // N</u>	W F	Section	To	wnehig	R	nge	[x] E	Cinger		Wa	usau Chemica	1			
or Gov't Lot #		25		29	N 7	/	<u> </u>	Prese	nt Well	Owner					
Well Street Address										W	ausau Chemic	al			
2001 N. River Drive								Mailin	nbbA g	ess of Presen	t Owner				
Well City, Village or Town	l			٣		Cod	<b>34</b> .				2001 N	. River Dr	ive		
Subdivision Name				-+	34402	-093	<u>u</u>	City o	f Prese	nt Owner		Star	10	ZIP Cod	8
				Ľ	~ •					Wau	sau .	<u> </u>	<u>/1</u>	5440	2-0953
Reason For Removal Fro	m Service	WI Unio	ue Wi	ell # of	Repla	селн	ant Well	4. P	ump, L	lner, Scree	n, Casing &	Sealing	Meter		·
Not In So	mica						-	Pu	mp and	i piping remov	ved?			res 🔲	No [X]N/A
3. Well / Drillhole / Bo	rehole in	formatio	m				·	Lir	ner(s) re	moved?				res 🔲	No XIN/A
(	þ	iginal Co	netruc	ction D	ate (m	m/de	وردرو	t so	reen re	moved?			[x]	res 🗍	
Monitoring Well		13	2/17	3 /199	13			L Ca	ising lef	t in place?				Yes X	
	<b>F</b>	a Well C	oneiru	uction F	Report	is av	nailable,	w [	as casir	ng cut off beid	w surface?		$\Box$	Yes 🔲	NO [X] NA
Borehole / Drillhole	P	iease atl	ich.	•				_ Di	d sealin	g material ris	e to surface?		[x]	Yes 🔲	
Construction Type:								Di	d mater	ial sottle afte	r 24 hours?			Y <b>es</b> [X]	
	Driven (Sa	indpoint)			Dug				If yes	, was hole ret	lopped?		਼ 🗗	Yes 🛛	No NA
Other (specify):								wi	bentonit th water	e chips were i from a knowl	used, were the n safe source?	y hydraliad	' [x]	Y05 🖸	
Formation Type:								Requ	ired Me	thod of Placin	ng Sealing Mat	erial		<u> السب باننالية منها</u> ر	
X Unconsolidated For	mation	E	Bee	drock					Condu	ctor Pipe-Gra	vity 🛄 Cond	luctor Pipe	-Pump	bed	
Total Well Depth From G	round Sur	sce (fl.)	Casin	ig Dian	neter (i	in.)			Screen (Bento	nd & Poured nile Chips)	Chei Othei	r (Explain):			
	12						0.5	Seal	ng Mate	erials					
Lower Drillhole Diameter	(in.)		Casin	ng Dep	th (fl.)		7		Neat C	ement Grout		C1	iy-Sani	d Slurry (	11 lb./gal. wt.
							4	니님	Sand-(	Cement (Conc	crete) Grout	Bei	ntonite	-Sand Si	uny = =
Was well annular space (	arouted?	[X]	Yes		No		Unknow	, I LI	Concre	ste		X Be	ntonite	Chips	
If yes, to what death (fee	1)?	Deot		later (f	net)			-fer	Monitori	ng Wells and	Monitoring Wa	Il Borehok	is Only	r.	
	<b>7</b>	Pupu		1/	Å				Bentor	vite Chipe	님	Bentonite	- Cem	ant Grout	ł
	4	<u> </u>		101	11				Gninu	ar Bentoniae		Bentonne	- Sano	T	
5. Material Used To Fil	Well / Dr	illhole			 			Fre		To (R.)	Sacks	Sealan	<u>t</u>	4	والبرور ويتناك ومنافقا والم
Hole Plug	,		-					SI	irface	12	ļ	J.4		Ļ	
								_		ļ	Ļ			<b></b>	
		•									L			<u> </u>	
6. Comments	<u> </u>									t .	<u> </u>				
Gas Probe (GP- 17	)														
7 Superdalar of Wa				··· ·								- DNI		Only	
Name of Person or Firm	Doing Filli	na & Sea	ina	Licens	e #		Date of	Filling	Sealin	(mm/ddhoo	W) Date Rave	ived "	NA	And By	
Boart Longvear					6189		[ "'''	1/3/	2004	······································			<b>.</b>		
Street or Route							·	Teleph	one Nui	mber	Comment		<u>. </u>	<u></u>	
101 A	Iderson St							(715	) 359-	7090					
City			Ste	te	ZIP C	ode	<u> </u>	Sigr	ature o	Person Doir	ng Work		Da	ite Sjane	d
Schofield				WI	544	76-			Z	inc		1e		6-9	3-09
									-			-			



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# Well / Drillhole / Borehole Filling & SealingForm 3300-005 (R 4/08)Page 1 of 2

Verification Only	of Fill an	d Seal		Route t	o: Inking V aste Ma	Water Inagement		]wa ]ou	atershed/Wa her:	stewater	[x]	Remedia	ition/F	ledavek	xpment
1. Well Location inform	nation		<b>_</b>	 ,, · · .		en 1844	2. Facili	he I	Owner Inf	Anna tion		4 <u>25 - 5</u>			
County	M Unlau	Well # of	1	ticao #			Facility Na	me						<u></u>	
	Removed	Well	[			•			Wausau	Chemical					
MARATHON	<u> </u>						Facility ID	(FID	) or PWS)					Mart - 1991	
Lattituda / Longitude (Deg	rees and N	Ainutes) M	lethod	Code (	see ins	tructions)		•		737	105	820	•		
·		[`] N					License/P	ermi	t/Monitoring	#					
<b> •</b> • • .		·w													
414 NW 4 N	w	Section	Tow	nship	Range	IVIE	Original V	<b>leli</b> (	Jwner						
or Gov't Lot #		25	2	9 N	7	H.			Wa	usau Chei	nical				
Well Street Address							Present V	Vəli (	Owner						
2001 N. River Drive									Wa	ausau Che	mical				
Well City, Village or Town	 			Mell	ZIP Co	de	Mailing A	ddrei	ss of Presen	t Owner					
Wausau				54	402-09	53				200	1 N. Rive	r Drive	<b>D</b> 10		
Subdivision Name				Lot	)		Cay of Ph	6567	t Owner			State	2IP (	Code	
							<u> </u>		Wau	LEU		WI	5	4402-09	53
Reason For Removal Fro	m Service	WI Uniqu	e Wei	# of Re	necel	nent Well	4. Pump	<u>р, Ц</u>	ner, Scree	n, Casin	a Seal	ng Mate	<b>riai</b>	•	
Not in Ser	Vic					_	Pump	and	piping remov	ved?			Yes		[x] _{N//}
3 Weil / Drillhole / Bo	mhole in	formatio	n				Linera	i) rer	πoved?				Yes		[X] _{N/}
	D	riginal Cor	atructi	on Date	(mm/c	idAnny)	Screer	nen	noved?			[X]	Yes		
Monitoring Well	ſ	12	listi	493			Casino	ı ləft	in place?				Yes	[X] No	
Water Well				then Day		wailable									
Borehole / Drillhole		viense atta	naciou ch.		JUNU 136-08	IVENEUMO,	VV25 C	2581 X		W SUITEOS	~	í x	TCS		
Construction Type:								Billing	) material ris		287		L		
	Driven (Se	(trainche			-		Did ma		el sollio after	r 24 hours	7		Yes		(Y).
	Diragit (24	inapointy			<b>~</b>		I If bent	yes, ' onite	was note ret chine were i	opped?	they hydi	uted r	Yes		
Other (specify):							with w	ater (	from a know	n safe sou	<b>ce</b> ?		Yes		
Formation Type:			_				Required	Met	hod of Placin	g Sealing	Material				
[X] Unconsolidated For	mation		Bedr	rock			Cor	nduc	tor Pipe-Gra	ᄥᇧᅜᇅᇰ	anductor	Pipe-Pum	ped		
Total Well Depth From G	iround Sur	face (fl.)	asing	Diamet	ar (in.)		I X Scr (Be	eene mion	ite Chice)		ther (Expl	ain):			
	12					0.5	Sealing A	Aater	riate						·
Lower Drithole Diameter	' (in.)	- R	asing	Depth	(ft.)			at Ce	ment Grout			Clay-Sar	nd Silu	rry (11 🛙	o./gal. w
						.2	🗌 🗖 Sar	nd-C	ement (Conc	rete) Grou	t 🗍	Bentoniti	-San	d Siurry	• •
		[x]				Listania	╗╝	ncret	8	-	[X]	Bentoniti	e Chip		
vvas weil annular space	grouteor		Tea			UNIMOWN	For Moni	toring	g Wells and	Monitoring	Well Bore	holes Oni	y:		
If yes, to what depth (fee	nt)?	Depth	to Wa	ter (feel	1}		Bei	ntoni	te Chips		🔲 Bento	nite - Cen	nent G	irout	
	2	1	- 1	V/A			Gu	Inula	r Bentonite		🔲 Bento	nite - San	d Slur	ry	
5. Material Used To Fil	li Weli / Dr	lihole					From (	n)	To (fL)	1 Sa	cks Sea	ant	Τ		
Hole Plug							Surfac	<u>~</u>	17				+		
											0.5		+		
							+			<u> </u>					
6 Commente		- · · ·								L			<u> </u>		
Con Deska (CD #C)															
Gas Probe (GP-16)	ŀ														
7. Supervision of Wa	arik								· · ·	<u> </u>			0.0		
Name of Person or Firm	Doing Fill	no & Seal	na li				illing 1 Co	ating	(mm/ddha-	AL) Date C	aceh end	M		7 tv	
Boart Longveer			ר"	¥ 000 ایک	80	ľ°ď/	3/2.0	 24	Conner a A A	(y) Dave (			sunti C	<b>۲</b> י	
Street or Route				01	37	<u>, , , , , , , , , , , , , , , , , , , </u>	alanhana	Num	her	Com	ents.	<u> </u>			
101 A	Iderson St					Ľ		501	/000					•	
City		-	State	120	PCorte	I'	Sinnetie	37-1 ****	Person Dala	m Wart		<b>– –</b>	ate C:	aned	
Schofield			W	יר דיי	54476		- Analui	~				- Ľ	aus 31 	20	-XA
				<u> </u>	24470		<u> </u>	100	ence			T		<u>0                                     </u>	<u> </u>

	(OVERBU	RDEN)			(L	-72)
PROJE	CT NAME: WAUSAU WATER SUPPLY NPL SITE		HOLE DESIGNATION: GP-	-18		
PROJE	CT NO.: 3978		DATE COMPLETED: DEC	EMBE	R 10.	1993
CLIENT	WAUSAU PRP GROUP		DRILLING METHOD: 4 1	/4" II		
LOCAT	ION: WAUSAU CHEMICAL		CRA SUPERVISOR: P. I	KUCK		•
DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	1		-
ft BGS		ft BGS	INSTALLATION		SAMPU Ş í	
			57	<b>M</b>		ġ
	TOPSOIL, vegetation	-0.3		Ř		(pp
2 5	ML-SIL1, some clay, little fine gravel, brown		CHIPS	[ .		
2.3						
50	SM-SAND, some silt, trace fine grovel, fine to	-4.0	STEEL PIPE			
5.0	medium grained, dark brown		GRAVEL PACK			
76						
1.5			WELL SCREEN			
10.0			BOREHOLE			
10.0		-10.9	$\nabla$			
125						
12.5	END OF HOLE @ 12.5 FT. BGS	-12.5				
15.0			SCREEN_DETAILS: Screened Interval:			
10.0			2.0 to 12.0° BGS Length -10.0°			
175			Diameter -1/2" Slot # Drilled 3/32"a			
			Holes-1" on Center Material - Stainland Staat			
20.0	· · ·		Sond pack interval:			ľ
			Material -Pea Gravel			
22.5						
25.0	· ·					
27.5						
30.0						
32.5						
						1

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### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

Verification Only of Fill and Seal					o: Inking V aste Ma	Water Inacement		Watershed/Wastewater [X]Remedi							iation/Redevelopment			
Wall Location Infon	metion	····																
County	M Uninese						E. FUCE		Owner und	WILLIOU .								
Removed Well							a and a start of the		Wausan	Chemical								
MARATHON			<u> </u>			•	Facility ID	) (FIC	) or PWS)	-								
Lattitude / Longitude (Deg	rees and Mi	inutes) M	lethod	Code (	see ins	tructions)				73710	158	320						
<b></b> • <b></b> ·		'N					License/F	⁵ ermi	it/Monitoring	*								
•		·w																
<u> </u>	wk	ection	Tow	nahip	Range		Original V	Mell (	Owner									
or Gov't Lot #		25	20	Q 1	7				Wa	usau Chem	ical							
Alell Street Address	l	~~		<u> </u>			Present V	Nell (	Owner									
2001 N. River Drive									Wa	ausau Chei	nical							
Well City, Village or Town	>			Wedl	ZIP Co	de	Mailing A	ddre	ss of Presen	t Owner								
Wausau	•				407-09	41				2001	N. Riv	er Drive						
Subdivision Name				Lot	102-07		City of Pi	18561	t Owner			State	ZIP	Code				
									Wau	1.1.10		WI		54402-09	53			
Reason, For Removal Fro	m Service	WI Uniqu	ne Weil	# of Re	piacem	hent Well	4. Pum	<u>p, L</u>	iner, Scree	n, Cesing	& Sec	ling Met	orial"	:	· ·			
Not in Se	NICE						Pump	and	piping remov	ved?		Ľ	Jyes		[X] _{N/A}			
3. Weil / Drillhoie / Borshole Information							Liner(s) removed?							[X] _{N/A}				
	On	ginal Con	structi	on Date	(mm/d	(mm)	Scree	n ren	noved?			[2	(lyes					
Monitoring Well	nitoring Well (3110) 1943						Casing left in place?											
Water Well	Water Well If a Well Construction Report is available						Was casing cut off below surface?											
Borehole / Drillhole please attach.																		
Construction Type:								natari	el cotto afio	24 hours2		Č						
X Drilled	Driven (Sar	ndpoint)			Ø		I III	Ves.	was hole ret	ooned?		Ē	<b>1</b>		[X] _{N/4}			
Other (specify)					-		If ben	tonite	chips were	used, were	they hyd	irated r.	vl.					
							WICH W	1850r	TOM & KNOW	San Sour	Anterial	L4	lyes					
Formation Type:			٦					a alexa	tor Pine Crm			Dice Due	mand					
[X] Unconsolidated Fo	rmation		Bedr	ock			- ixi so		nd & Pourned			r ipo-r ui	npoe					
Total Weil Depth From G	Fround Suma	10 <b>0</b> (TL) C	asing	Diamet	<b>er</b> (in.)	0.5	(Be	entor	ite Chips)		ner (Exp							
	14			Death		0.5		Mate			Г	1~~~						
Lower Uninole Ulameter	r (in.)	1	asing	Cepth	(π.)	2			ement Grout		<u>ہ</u>	Cary-Sa	ind Sil	ITY (11 K	5./gan. wt			
							·[님》	no-C	ement (Conc	rete) Grout			RG-SUR	la Siuny				
Was well annular space	grouted?	X	Yes		。 し	Unknown		increi	t <b>e</b> a 14/alia and 1	l fa a lla ala a l	בן הפו ויהוא	-] Reuton	ne Gnij na u	p <b>s</b>				
If yes, to what depth (fee	H)?	Depth	to Wa	ter (feel	)			Moni	y wons and i He Chine	wonkoning (		onulos Ca	my. ment (	Const				
	2		Λ	JIA				moule	er Bentonite	ň		nnile - Se	nd Shu					
E Material Mand Ta El		 12=	· · · · ·															
0. maleriai USOG 10 Fili TTOR / UFHIJOO							From (	n.)	10(11)	580	KS Sea	liant	_					
Hole Plug							Surfa	<u>∞</u>	12		<u> </u>	sf						
+h																		
							<u> </u>											
6. Comments											· .			·				
Gas Probe (GP- 14)																		
7 Superdalar of M																		
Name of Person of Firm Doing Filling & Sasting Linguage #								UNR Use Only										
Roart Longvear 4190							Jilling & Sealing (mm/dd/yyyy) Date Received Noted By											
Street or Route								$\overline{\mathbf{N}}$	vber	Comm	nte							
101 4	Iderson St.					Ľ	71612	1901) 50.7	7000				• ,	• • • • •				
City			State	ול	Code		Signatur		Person Doin	n Work	<u>.</u>	·····	)ate S	h				
Schofield			W	ι Γ"	54476-			Ž		. M	~	/ [	/	~ Q.	-09			
										116	19			- 0				


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## Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only	of Fill and Seal	Route to: Drinking	Water Nanagemen		/atershed/Wa	astewater	[X]Remedia	tion/Redevelopment			
1. Well Location Infon	mation			2. Facility	Owner Inf	omation					
County	M Unique Well # of	Hicap #		Facility Name		Of BIALDORY		· · · ·			
	Removed Well				Wausau	Chemical					
IVIARATION		-		Facility ID (FID or PWS)							
Latitude / Longitude (Deg	rees and Minutes) Mer	nod Code (see in	structions)	131/05820							
	— — — 'N			License/Permit/Monitoring #							
	wl _		<u> </u>	ļ							
%/% NW % N	W Section	rownship Rang	• [x] E	Original Well	Owner						
or Gov't Lot #	25	29 N 7	Цм	Denneret Malad	WI Overes						
Well Street Address					Uwrier W	ausau Chemical					
2001 N. River Drive				Malling Addr	ass of Preser	t Owner					
Well City, Village or Town	1	Well ZIP C	ode			2001 N. Ri	iver Drive				
Wausau		54402-0	953	City of Prese	nt Owner		State	ZIP Code			
Subdivision Name		Lot #			Wau	580	wi	54402-0953			
	m Sanice Millbioue	Mail # of Panlace	mant Male	4. Pump, L	Iner, Scree	in, Casing & Se	aling Mater	iai ·			
Not in	prile monde			Pump and		ved?					
3 Well / Drillbole / Bo				l iner/s) re	mound?		Ē				
	Original Constr	(ddhanau)	Liner(s) removed? LiYes LiNo (^jN								
Monitoring Well	ial.	3)443		Casing left in place?							
Water Well	If a West Coos	Insction Report is					<del>-</del>				
Borehole / Drillhole	please attach.			Did cash	ng cuit on bein a matariat sia		fxl				
Construction Type:		<u>.</u>		Did meter	ial collio effe		, i				
[X] Orilled		lf ves.	was hole ref	looped?	п П						
Other (specify):	,		If bentonit	e chips were	used, were they hi	ydraied fył					
Formation Type:				Required Me	thort of Placin	n sere source?	[A] 1				
[v] I know shideled For	metion 🗍 s	adrame		Condu	tor Pipe-Gra		" or Pice-Pumo	ed			
Total Wall Depth Error G		ion Diamater (n. 1	1	X Screen	ed & Poured		mtain):				
	12		0.5	(Bento	Nill Chips)						
Lower Drillhole Diameter	(in.) Car	ing Depth (ft.)			ement Grout	ſ	Clay-San	t Skurry (11 lib /nat. wi			
		•	2	Sand-C	Cement (Cond	crete) Grout	Bentonite	-Sand Slurry " "			
			1	Concre	te		X] Bentonite	Chips			
was wen annuar space				For Monitorir	g Wells and	Monitoring Well Bo	oreholes Only	r.			
if yes, to what depth (ree		VVatar (feet)		Benton	ite Chips	🛄 Ben	tonite - Cem	int Grout			
	2			Granul	ar Bentonite	Ben	tonite - Sand	Slurry			
5. Material Used To Fil	i Well / Drillhole			From (fL)	To (ft.)	Sacks Se	ealant				
Hole Plug				Surface	12	1	<u>پر بر بر</u>				
						]	·				
						Τ		<b>I</b>			
6. Comments							· · · ·				
Gas Probe (GP- ノロ	·)		•								
7 0											
7. Supervision of Wo	Deine Filler & Cart	<b>1</b>	bar is				DNR Use	Only			
Boart Longues	uoing Hilling & Sealing	License #	Date of F	e of Filling & Sealing (mm/dd/yyyy) Date Received Noted By							
Street or Route		0189	- İ Fr	Helenhone Number Commenter							
101 A	Ľ										
City State ZIP Code				I(/15)/359-/090 Signature of Person Doing Work Date Street							
Schofield	Γ	WI 54476	-			M/		09			
	<b>__</b> _			- Jee		w wy					

	(OVERBU	RDEN)	NTATION ( J		(L-74)
PROJE	CT NAME: WAUSAU WATER SUPPLY NPL SITE		HOLE DESIGNATION CO-	20	
PROJE	CT NO.: 3978			FN850 1	3 1007
CLIENT	S WAUSAU PRP GROUP		DRILLING METHOD: 4 1		2' 1992
LOCATI	ION: WAUSAU CHEMICAL		CRA SUPERVISOR: P K	(10 N	2M
DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	EL EVATION			
ft BGS		ft BGS	INSTALLATION	SAI N S	APLE T'N'TP
	TOPSOIL, sand, vegetation	-0.2			E (pp
	SP-SAND, trace fine gravel, fine grained with trace coarse grains, brown, maist		CHIPS		
2.5					
6.0			STEEL PIPE		
5.0			GRAVEL PACK		
7 6					
7.3			WELL SCREEN		
10.0			BOREHOLE		
10.0					a
12 5					
12.0	END OF HOLE @ 12.5 FT. BGS	-12.5			0
15.0			Screened Interval:		
			2.0 to 12.0° BGS Length —10.0'		
17.5			Diameter -1/2" Slot # Drilled 3/32"ø		
			Holes—1" on Center Material —Stainless Steel		
20.0			Sand pack interval: 2.0 to 12.5' BCS		
			Material -Pea Gravel		
22.5					
25.0					
27.5					
30.0					
32.5					
NOTE	ES: MEASURING POINT ELEVATIONS MAY CHANG	E; REFER	TO CURRENT ELEVATION TA	BLE	
	CHEMICAL ANALYSIS 🔘 WATER FO	DUND 🔽	STATIC WATER LEVEL	-	

State of Wis., Dept. of Natural Resound Int.wi.gov	Irces					Well / Dri	ilhole / Boret	nole Filli	ing & Sealing
Notice: Completion of this report is re with chs. 281, 289, 291-293, 295, an year, depending on the program and form to the appropriate DNR office a	equired by ch d 299, Wis. S conduct Invo nd bureau. S	s. 160, itats., fa ilved. F	281, 283, 2 ailure to file ² ersonally id	289, 291-29 this form r dentifiable reverse for	03, 295, and nay result in information of more inform	299, WIs. Stats a forfeiture of to on this form is r	c., and ch. NR 141, 1 between \$10-25,000 not intended to be us	Wis. Adm. ( ), or impriso sed for any	Page 1 of 2 Code. In accordance nment for up to one other purpose. Return
Verification Only of Fill a	ind Seal	۹ 	Route to:	g Water Manageme	ent	Watershed/V	Vastewater	X Remed	liation/Redevelopment
1. Well Location Information					2. Eacili	ty / Owner In	formation		
County WI Uniqu	ue Well # of	Hid	cap #		Facility Na	me		• 	······
MARATHON	d Well								
Lattitude / Longitude (Degrees and	Minutes) Me	thod C	ode (see in	structions	Facility ID	(FID or PWS)			
°	' N		,		License/Pe	. 0 5 8 2 0 ermit/Monitorin	g #		
	··					ell Oumor			
	25	iowns つつ	nip Rang	₽ X E	WAUS	AU CHEM	IICAL		
Well Street Address			N	W	Present W	ell Owner			
2001 N. RIVER DRI	VE				WAUS	SAU CHEN	ICIAL		
Well City, Village or Town WAUSAU			Well ZIP C 54402	ode -0953	Mailing Ad 200	dress of Prese 1 N. RI	nt Owner VER DRIVE		· · · · · · · · ·
Subdivision Name	· · · · · · · · · · · ·		Lot #		City of Pre WAU	sent Owner SAU		State WI	ZIP Code 54402-0953
Reason For Removal From Service	WI Unique	Well #	of Replacer	ment Well	4. Pump	Liner, Scree	n, Casing & Sea	ling Mate	rial
NOT IN SERVICE					Pump a	nd piping remo	ived?		
3. Well / Drillhole / Borehole In	formation				Liner(s)	removed?			
	riginal Constr	uction	Date (mm/	dd/yyyy)	Screen	removed?		X	
	12/08/				Casing I	eft in place?			
Borehole / Drillhole	available,	Was cas	ing cut off belo	ow surface?		Yes No XN/			
Construction Type:					Did seal	ing material ris	e to surface?	X	Yes 🛛 No 🗍 N//
X Drilled Driven (Sa	ndpoint)	<b>_</b>			Did mate	erial settle afte	r 24 hours?		Yes 🖾 No 🗖 N//
		L	1009		If ye	s, was hole ret ite chins were i	opped?		res 🗆 No 🖾 N/A
Eormation Type			·	—	with wat	er from a known	n safe source?		res 🛛 No 🗍 N/A
	П.	a daa at.				ethod of Placin	g Sealing Material		
Total Well Depth From Ground Surf		edrock	motor (in )		X Scree	ned & Poured		Pipe-Pump	ed
4.5 & 8.5 (NESTED)		ng Dia ).5	meter (m.)		(Bent	onite Chips)	Other (Expl	lain):	
Lower Drillhole Diameter (In.)	Casi	ing Der	oth (ft.)	·····		Cement Crowt	۲		
	3	.5 δ	2.7.5		Sand	Cement (Conc	rete) Grout	Clay-Sand	I Slurry (11 lb./gal. wt
Was well annular space prouted?	X			Liokoowo		ete		Bentonite	Chine
If yes, to what depth (feet)?	Denth to V				For Monitor	ing Wells and N	Monitoring Well Bore	holes Only.	
0-2.5 & 5-6.5	NOT	APP:	LICABI	JE	Bento	nite Chips Ilar Bentonite	Bento	nite - Ceme nite - Sand	nt Grout Slurry
5. Material Used To Fill Well / Dri	lhole				From (ft.)	To (ft.)	No. Yards Sacks	Sealant	Mix Ratio or
HOLE PLUG					Surface	4.5			
HOLE PLUG					Surface	8.5	1		· · · · · · · · · · · · · · · · · · ·
b. Comments			·						
SOIL GAS PROBE (GI	PN-6) T	WO	PROBES	S NEST	TED IN	SAME BO	DREHOLE		
7. Supervision of Work							1	ONR Use (	Only
Name of Person or Firm Doing Filling BOART LONGYEAR	g & Sealing	Licens 618	e# 19	Date of Fil 09/0	ling & Sealir 3 / 2008	g (mm/dd/yyy)	/) Date Received	Note	ed By
Street or Route 101 ALDERSON ST.				Te (1	lephone Nur 715) 359	nber -7090	Comments	<u>-</u>	
	Sta	te	ZIP Code	<u>L</u>	Signature o	Person Doing	Werk	Date	Signed
	W	T	54476	•			··· v	-	6-9-09

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a na antici de la comercia de la comercia de la comercia de la comercia de la comercia de la comercia de la com



State of Wis., Dept. of Natural Resourc dnr.wi.gov	es				Well / Dri	Ilhole / Boreh	nole Filli	ng & Sealing
Notice: Completion of this report is req with chs. 281, 289, 291-293, 295, and ; year, depending on the program and c form to the appropriate DNR office and	uired by chs. 1 299, Wis. Stat onduct involve bureau. See	60, 281, 3 s., failure d. Perso in <u>structio</u>	283, 289, 291-2 to file this form nally identifiable ns on reverse fo	93, 295, and 2 may result in a information or or more information	99, Wis. Stats. forfeiture of b this form is nation.	J5 (R 4/08) ., and ch. NR 141, \ etween \$10-25,000 ot intended to be us	Wis. Adm. C , or impriso sed for any e	Page 1 of 2 code. In accordance nment for up to one other purpose. Return
Varification Only of Sill on	d Soal	Route	to: Irinking Water			· · · · · · · · · · · · · · · · · · ·		
	u Seal		Vaste Managem	ient	Other	astewater	C Remed	iation/Redevelopment
1. Well Location Information				2. Facilit	v / Owner In	formation		
County WI Unique	Well # of	Hicap #		Facility Nar	ne			
MARATHON	—— —— ——			En allina ID (				····
Lattitude / Longitude (Degrees and M	inutes) Metho	od Code (	see instruction	s) 7371	05820			
° · ·	'N 'W			License/Pe	mit/Monitoring	g #		
%/% NW % NW S	ection To	wnship	Range X E	Original We WATIS	II Owner		<u></u>	
or Gov't Lot #	25	29 N		Present We				
2001 N. RIVER DRIV	E			WAUS	AU CHEM	ICIAL		
Well City, Village or Town WAUSAU		Well 54	ZIP Code 402-095	2001	N. RIV	VER DRIVE		
Subdivision Name		Lot #		City of Pres	ent Owner SAU		State WI	ZIP Code 54402-0953
Reason For Removal From Service	WI Unique We	I ell # of Re	placement Wel	4. Pump,	Liner, Scree	n, Casing & Sea	ling Mate	rial
2 Wall / Drillbala / Darabala link		<del></del>	<del></del>	Pump an	d piping remo	ved?		
	inal Construct	tion Date	(mm/dd/www)	Liner(s) r	emoved?			
Monitoring Well	Monitoring Well 12/08/1993							
Water Well	Well Constru	ction Rep	ort is available,	Was cas	ng cut off beic	ow surface?		
Construction Type:	ase attach.			Did seali	ng material ris	e to surface?	X	
X Drilled Driven (San	denint)		•	Did mate	rial settle after	24 hours?		
Other (specify):			,	If yes If bentoni	, was hole ret te chips were i	opped? used, were they hyd	י∟ ا⊤حص Irated	
Formation Type:				Required M	thod of Placin	n sate source? I Sealing Material	<u>ស</u>	res LINO LIN/A
X Unconsolidated Formation	🗌 Bed	rock		Condu	ctor Pipe-Grav		Pipe-Pump	ed
Total Well Depth From Ground Surfac	e (ft.) Casing	Diamete	r (in.)	- X Screek (Bento	ted & Poured nite Chips)	Other (Exp	lain):	
4.5 & 0.5 (NESTED)		5	• • •	Sealing Mat	erials			
	3.5	5 & 7	.5		Cement Grout	rete) Grout	Clay-Sand	Slurry (11 lb./gal. wt.)
Was well annular space grouted?	X _{Yes}						Bentonite	Chips
If yes, to what depth (feet)? 0-2.5 & 5-6.5	Depth to Wa NOT A	iter (feet)	CABLE		ng weils and it nite Chips	Bento	eñoles Only onite - Ceme	: Int Grout
5. Material Used To Fill Well / Drill	nole			From (ft.)	ar Bentonite	No. Yards Sacks	onite - Sand	Slurry Mix Ratio or
HOLE PLUG			<u> </u>	Surface	4.5	or Volume (circ	cle one)	Mud Weight
HOLE PLUG				Surface	8.5	1		
6. Comments		······		1,				
SOIL GAS PROBE (GP	N-7) TW	O PRO	DBES NES	TED IN	SAME BO	DREHOLE		
7. Supervision of Work					<u> </u>		OND IT?	
Name of Person or Firm Doing Filling BOART LONGYEAR	& Sealing Li	cense #	Date of F	illing & Sealin	g (mm/dd/yyy)	/) Date Received	Note	ed By
Street or Route 101 ALDERSON ST.					Telephone Number Comments			
City State ZIP Code					Signature of Person Doing Work  Date Signed			
SCHOFIELD	IWI	54	476		me	Man		- 1-4-09

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## APHIC AND INSTRUMENTATION STRATI( 3 (L-81) (OVERBURDEN) PROJECT NAME: WAUSAU WATER SUPPLY NPL SITE HOLE DESIGNATION: GPN-7 PROJECT NO .: 3978 DATE COMPLETED: DECEMBER 8, 1993 CLIENT: WAUSAU PRP GROUP DRILLING METHOD: 4 1/4" ID HSA LOCATION: WAUSAU CHEMICAL CRA SUPERVISOR: P. KLICK DEPTH | STRATIGRAPHIC DESCRIPTION & REMARKS ELEVATION MONITOR SAMPLE ft BGS ft BGS INSTALLATION NUM Ş Ŋ 0 A T E A Ē Å LUE (ppm TOPSOIL, vegetation 殿 -0.5 SM-SAND, little silt, trace fine and coarse とうかいりんごうがん じょうきょ gravel, fine grained with trace coarse grains, dark brown to black, moist BENTONITE - 1.0 CHIPS 1/2"# N. 844. 2.0 STAINLESS STEEL CASING . SAND PACK 3.0 GRAVEL PACK 4.0 WELL SCREEN 8° 4 5.0 0 12 ...... BOREHOLE -5.0 SP-SAND, trace silt, trace fine and coarse 0 gravel, fine grained with trace coarse grains, brown, maist BENTONITE 6.0 CHIPS SAND PACK 7.0 GRAVEL PACK 8.0 WELL SCREEN 9.0 -9.0 END OF HOLE . 9.0 FT. BGS SCREEN A DETAILS: SCREEN B DETAILS: - 10.0 Screened Interval: Screened Interval: 7.5 to 8.5' BGS Length -1.0' 3.5 to 4.5' BGS Length -1.0" Diameter $-1/2^*$ Diameter $-1/2^*$ - 11.0 Slot # Drilled 3/32"ø Slot # Drilled 3/32"# Holes-1/2" on Center Holes-1/2" on Center Material -Stainless Steel Material - Stainless Steel Sand pack interval: Sand pack interval: -12.0 7.0 to 9.0' BGS 3.0 to 5.0' BGS Material -Pea Gravel Material —Pea Gravel -13.0 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS WATER FOUND STATIC WATER LEVEL Y

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State of Wis., Dept. of Natural I dnr.wi.gov	Resources			Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)							
Notice: Completion of this repo with chs. 281, 289, 291-293, 29 year, depending on the prograr form to the appropriate DNR of	rt is required by chs. 95, and 299, Wis. Stat n and conduct involve fice and bureau. See	160, 281, 283, 28 Is., failure to file the d. Personally ide instructions on re- Pouto to:	9, 291-29: his form m entifiable in everse for	3, 295, and 299, Wis. Sta ay result in a forfeiture of nformation on this form is more information.	uus (R 4/08) Is., and ch. NR 141, V between \$10-25,000, not intended to be us	Wis. Adm. C , or imprison sed for any c	Page 1 of 2 ode. In accordance ment for up to one other purpose. Return				
		Route to:	Motor			 س					
	Fill and Seal	Waste M	water Ianaoeme	nt Other	Wastewater	Armedi	ation/Redevelopment				
1. Well Location Informat	ion			2. Facility / Owner Information							
County	Unique Well # of	Hicap #		Eacility Name							
MARATHON	moved Well										
Lattitude / Longitude (Degrees	and Minutes) Meth	od Code (see ins	tructions	Facility ID (FID or PWS)							
° · ·				License/Permit/Monitor	ng #						
<u></u>	Section IT	woshin Range		Original Well Owner		- <u>.</u>	<u>.</u>				
or Gov't Lot #	25	29 _N	, XIE	WAUSAU CHE	MICAL						
Well Street Address 2001 N. RIVER I	DRIVE		<u> </u>	Present Well Owner WAUSAU CHE	MCIAL						
Well City, Village or Town WAUSAU		Well ZIP Co 54402 -	de -0953	Mailing Address of Pres 2001 N. R.	ent Owner IVER DRIVE						
Subdivision Name		Lot #		City of Present Owner WAUSAU		State WI	ZIP Code 54402-0953				
Reason For Removal From Se	ervice WI Unique W	ell # of Replacem	ent Well	4. Pump, Liner, Scr	en, Casing & Sea	ling Mater	rial				
NOT IN SERVICE				Pump and piping ren	noved?		Yes 🛛 No 🖾 N/A				
3. Well / Drillhole / Boreho	ole Information		· · ·	Liner(s) removed?							
Monitoring Well	12/09/1	ction Date (mm/de	d/yyyy)	Screen removed?							
Water Well	If a Well Constru	votion Report is au		Casing left in place?		<u> </u>					
Borehole / Drillhole	please attach.	ction Report is av	allaole,	Was casing cut off be	elow surface?						
Construction Type:				Did sealing material	ise to surface?		Yes LINo LIN/A				
X Drilled Drive	en (Sandpoint)	🔲 Dug		If yes, was hole retopped?							
Other (specify):				If bentonite chips wer with water from a kno	e used, were they hyd	drated IX					
Formation Type:		<del></del>		Required Method of Plac	ing Sealing Material	<u> </u>					
X Unconsolidated Formatio	in 🗌 Bec	trock		Conductor Pipe-G	avity Conductor	· Pipe-Pump	ed				
Total Well Depth From Ground	Surface (ft.) Casing	g Diameter (in.)		X Screened & Poure (Bentonite Chips)	d 🛛 🗌 Other (Exp	lain):	······				
4.5 & 8.5 (NEST	ED) 0	. 5		Sealing Materials							
Lower Unlinole Diameter (In.)	Casing 3	g Depth (ft.) 5 & 7 5		Neat Cement Grou	t L	Clay-Sand	l Slurry (11 lb./gal. wt.)				
·				Sand-Cement (Co	icrete) Grout	Bentonite-	Sand Slurry "				
Was well annular space groute	ed? 스 Yes		Jnknown	For Monitoring Wells and	<u>یم</u> Monitoring Well Bon	Bentonite	Chips				
If yes, to what depth (feet)? $0 = 2$ 5 5 5 6 5	Depth to Wa	ater (feet)		Bentonite Chips	Bento	onite - Ceme	ent Grout				
<u> </u>		FFLICABL.	с 	Granular Bentonite	Bento	onite - Sand	Slurry				
5. Material Used To FIII Well	I / Drillhole		• •	From (ft.) To (ft.)	No. Yards, Sack	Sealant cle one)	Mix Ratio or Mud Weight				
HOLE PLUG				Surface 4.5							
HOLE PLUG				Surface 8.5	3						
6. Comments		<del></del>	··	L	<u> </u>		· · · · · · · · · · · · · · · · · · ·				
6. Comments SOIL GAS PROBE	(GPN-8) TW	O PROBES	NEST	L IN SAME I	BOREHOLE						
6. Comments SOIL GAS PROBE 7. Supervision of Work	(GPN-8) TV	NO PROBES	NEST	LI	BOREHOLE	DNR Use	Only				
6. Comments SOIL GAS PROBE 7. Supervision of Work Name of Person or Firm Doing BOART LONGYEAR	(GPN-8) TV Filling & Sealing	IO PROBES	Date of Fil	I IN SAME I	BOREHOLE	DNR Use	Only ed By				
6. Comments SOIL GAS PROBE 7. Supervision of Work Name of Person or Firm Doing BOART LONGYEAR Street or Route	(GPN-8) TV 9 Filling & Sealing Li	NO PROBES icense # [ 6189	Date of Fil	LED IN SAME I	3OREHOLE	DNR Use Note	Only ed By				
6. Comments SOIL GAS PROBE 7. Supervision of Work Name of Person or Firm Doing BOART LONGYEAR Street or Route 101 ALDERSON	(GPN-8) TV Filling & Sealing Li ST .	IO PROBES icense # [ 6189	Date of Fil 09/04	ED IN SAME I Iing & Sealing (mm/dd/y) 4 / 2008 Iephone Number 715) 359-7090	3OREHOLE (yy) Date Received Comments	DNR Use Note	Only ed By				
6. Comments SOIL GAS PROBE 7. Supervision of Work Name of Person or Firm Doing BOART LONGYEAR Street or Route 101 ALDERSON City	(GPN-8) TV Filling & Sealing Li ST . State	NO PROBES icense # [ 6189 [ e ZIP Code	Date of Fil 09/0- Te	ED IN SAME I Ing & Sealing (mm/dd/y 4 / 2008 Iephone Number 715) 359 - 7090 Signature of Person Doi	BOREHOLE (yy) Date Received Comments	DNR Use Note	Only ed By				

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State of Wis., Dept. of Natural Resources dnr.wi.gov		Well / Drill Form 3300-005	hole / Borehole	Filling & Sealing					
Notice: Completion of this report is required by chs. with chs. 281, 289, 291-293, 295, and 299, Wis. Sta year, depending on the program and conduct involve form to the appropriate DNR office and bureau. See	160, 281, 283, 289, 291-293 its., failure to file this form m ed. Personally identifiable in a instructions on reverse for Route to:	9, 295, and 299, Wis. Stats., ay result in a forfeiture of be formation on this form is no more information.	and ch. NR 141, Wis. A tween \$10-25,000, or in t intended to be used fo	dm. Code. In accordance nprisonment for up to one r any other purpose. Return					
Verification Only of Fill and Seal	Drinking Water	Watershed/Wastewater X Remediation/Redevelopment Other:							
1. Well Location Information		2. Facility / Owner information							
County WI Unique Well # of	Hicap #	Facility Name							
MARATHON Removed Well									
Lattitude / Longitude (Degrees and Minutes) Metr	-   nod Code (see instructions)	Facility ID (FID or PWS) ^{s)} 737105820							
		License/Permit/Monitoring	#						
½ /½         NW         ½         NW         Section         To           or Gov't Lot #         25         25         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <td>ownship Range X E</td> <td colspan="6">Original Well Owner WAUSAU CHEMICAL</td>	ownship Range X E	Original Well Owner WAUSAU CHEMICAL							
Well Street Address 2001 N. RIVER DRIVE	N	Present Well Owner WAUSAU CHEM	CIAL	muu					
Well City, Village or Town WAUSAU	Well ZIP Code	Mailing Address of Presen 2001 N. RIV	t Owner ER DRIVE						
Subdivision Name	Lot #	City of Present Owner WAUSAU	Sta W	te ZIP Code I 54402-0953					
Reason For Removal From Service WI Unique W	/ell # of Replacement Well	4. Pump, Liner, Screer	, Casing & Sealing	Material					
NOT IN SERVICE		Pump and piping remov	ed?						
3. Well / Drillhole / Borehole Information		Liner(s) removed?							
Original Constru	ction Date (mm/dd/yyyy)	Screen removed?							
	1993	Casing left in place?							
Vater Well If a Well Constru	uction Report is available,	Was casing cut off below	w surface?						
Borehole / Drillhole please attach.		Did sealing material rise	to surface?						
	Π.	Did material settle after	24 hours?	UYes X No N/A					
Driven (Sandpoint)	L Dug	If yes, was hole reto	pped?						
Other (specify):		with water from a known	sed, were they hydrated safe source?						
Formation Type:		Required Method of Placing	Sealing Material						
X Unconsolidated Formation Be	drock	Conductor Pipe-Gravi	ty	-Pumped					
4.5 & 8.5 (NESTED)	g Diameter (in.)	(Bentonite Chips)	Other (Explain):						
Lower Drillhole Diameter (in )	. J a Denth (ft )	Sealing Materials		· · · · · · · · · · · · · · · · · · ·					
3.	5 & 7.5	Sand-Cement Grout		y-Sand Slurry (11 lb./gal. wt.)					
Was well applied space arouted 2				itonite-Sand Sturry					
If yoo to what dopth (fact)?		For Monitoring Wells and M	onitoring Well Borehole	s Only:					
0-2.5 & 5-6.5		Bentonite Chips	Bentonite -	Cement Grout					
		Granular Bentonite	Bentonite -	Sand Slurry					
5. Material Used To Fill Well / Drillhole	·	From (ft.) To (ft.)	No. Yards Sacks Sea	Mix Ratio or Mud Weight					
NOLE PLUG		Surface 4.5							
NOTE NTOG		Surface 8.5	1						
6 Comments			······						
SOIL GAS PROBE (GPN-9) T	WO PROBES NEST	ED IN SAME BO	REHOLE	<u></u>					
7. Supervision of Work		· · · · · · · · · · · · · · · · · · ·	DNR	Use Only					
BOART LONGYEAR	icense # Date of Fill 6189 09/03	of Filling & Sealing (mm/dd/yyyy) Date Received Noted By							
Street or Route 101 ALDERSON ST.	Te (5	Telephone Number Comments (715) 359 - 7090							
City Stat SCHOFIELD WT	e ZIP Code 54476	Signature of Person Doing Work Date Signed							
		fame	All cope	6-8-09					

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	(OVERB	URDEN)			(L-
PRUJE	OT NAME: WAUSAU WATER SUPPLY NPL SITE		HOLE DESIGNATION: GPN	-9	
PROJE	CINU.: 3978		DATE COMPLETED: DEC	EMBER 1	0. 1
CLIENT	WAUSAU PRP GROUP		DRILLING METHOD: 4 1/	/4" ID H	ISA
LOCAT	ION: WAUSAU CHEMICAL		CRA SUPERVISOR: P. K	UCK	
DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR T	SAM	
11 003		ft BGS	INSTALLATION		T T
				M A B T E E	L L
	TOPSOIL, vegetation	-0.3		<u>-</u> <u>R</u>	Ĕ
1.0 2.0	groined, brown		BENTONITE OHIPS		
3.0			S S S S S S S S S S S S S S S S S S S		
4.0			GRAVEL PACK		
5.0			BOREHOLE		
6.0			BENTON TE CHIPS		
7.0			SAND PACK		
8.0	•		GRAVEL PACK		
9.0	END OF HOLE . 9.0 FT. BGS	-9.0			
10.0		SCREEN A [ Screened in 7.5 to 8.5 Length -1 0	DETAILS: SCREEN B ( terval: Screened in BGS 3.5 to 4.5	DETAILS: terval: BGS	•
11.0		Diameter -1 Slot # Drille Holes-1/2	Length -1.0 1/2" Diameter - id 3/32"ø Slot # Drille on Center Holes-1/2	) 1/2" ed 3/32' " an Cei	*ø nter
12.0		Sand pack i 7.0 to 9.0 Material —Pr	interval: Sand pack BGS 3.0 to 5.0 a Gravel Material – S	tainless interval: ' BGS ea Grave	Ste
13.0					

State of Wis., Dept. of Na dnr.wi.gov	tural Reso	Durces							Well / Dri		Borehole Fil	ling & Sealing
Notice: Completion of this with chs. 281, 289, 291-2 year, depending on the pr form to the appropriate D	report is 93, 295, a ogram an NR office a	required by nd 299, Wis d conduct ir and bureau.	chs. 16 . Stats. volved See in	0, 281, 2 , failure . Persor	283, 289 to file th nally ide ns on re	9, 291- his form entifiable everse	-293 n ma le in for i	3, 295, and 29 ay result in a nformation on more informa	99, Wis. Stats forfeiture of b this form is n tion.	a, and ch. NF between \$10- not intended t	R 141, Wis. Adm. 25,000, or impris to be used for any	Page 1 of 2 Code. In accordance onment for up to one y other purpose. Return
Verification Only	/ of Fill	and Seal		Route	to: Drinking ¹ Vaste Ma	Water anage	mer	nt []	Watershed/V	Vastewater	X Reme	ediation/Redevelopment
1. Well Location Info	rmation			L				2. Facility	/ Owner In	formation		
County	WI Unio	que Well # c	of	Hicap #				Facility Nam	ne		<u> </u>	
MARATHON	Remov	ed Well										
Lattitude / Longitude (De	grees and	d Minutes)	Method	Code (	see ins	tructio	ns)	Facility ID (F	FID or PWS)			
<u> </u>		'N				•		icense/Per		o.#		
• • ·		•w								y #		
1/1/2 NW 1/4 1	W	Section	Tow	nship	Range			Original We	ll Owner			
or Gov't Lot #		25		29 _N		鬯	w	WAUS	AU CHEM	IICAL		_
Well Street Address 2001 N. RIVE	R DRI	L IVE			<u> </u>	المعط	<u> </u>	Present We WAUS	Il Owner AU CHEN	MCIAL		
Well City, Village or Tow	n			Well	ZIP Coo	de		Mailing Add	ress of Prese N.RI	nt Owner VER DR	IVE	
Subdivision Name				 Lot #	402-	095		City of Press WAUS	ent Owner SAU		State WI	ZIP Code 54402-0953
Reason For Removal Fr	m Servic	e Wi Unia	ue Wel	# of Re	niaceme	ent Wa	-	4. Pump,	Liner, Scree	en, Casing	& Sealing Mat	erial
NOT IN SERVI	CE							Pump and	d piping remo	wed?		
3. Well / Drillhole / B	orehole	Informatio	n	· .				Liner(s) r	emoved?		Ē	
		Original Cor	structi	on Date	(mm/da	d/yyyy)	)	Screen re	moved?		Σ	
Water Well								Casing le	ft in place?	···		Yes X No N/A
Borehole / Drillhole		If a Well Co please atta	instruct ch.	ion Rep	ort is ava	ailable	),	Was casi	ng cut off bel	ow surface?		
Construction Type:	<b>i</b>							Did sealir	ng material ris	se to surface	? X	
X Drilled	Driven (S	Sandpoint)			3			Did matei	rial settle afte was hole ret	r 24 hours?		
Other (specify):								If bentonit	e chips were	used, were ti	hey hydrated	
Formation Type:								Required Me	thod of Placin	n sate source ng Sealing M	aterial	
X Unconsolidated For	mation		Bedro	ock				Condu	ctor Pipe-Gra	vity Cor	nductor Pipe-Pun	nped
Total Well Depth From G	round Su	rface (ft.) C	asing	Diamete	r (in.)			X Screen (Bento:	ed & Poured	🗌 oth	er (Explain):	
4.5 & 8.5 (N	ESTED	))	0.!	5				Sealing Mate	erials	<u> </u>		
Lower Drillhole Diameter	(ln.)	c	asing l	ft (ft ج. ح	t.) 5				ement Grout		Clay-Sa	nd Slurry (11 lb./gal. wt.)
····			5.5	<u>~                                    </u>	<u> </u>			Sand-C	Cement (Conc	crete) Grout	Bentonit	e-Sand Slurry " *
Was well annular space	grouted?		/es 			Inknov	vn	For Monitorir	ng Wells and i	Monitorina W	Bentonit ell Boreholes On	e Chips Iv [.]
If yes, to what depth (fee $0-2.5 \& 5-6$ .	i)? 5	Depth NO	to Wate Γ ΑΕ	er (feet) PLIC	CABLI	E		Benton	ite Chips ar Bentonite		Bentonite - Cen Bentonite - San	nent Grout Id Slurry
5. Material Used To Fil	Well / D	rillhole		•		•		From (ft.)	To (ft.)	No. Yards	Sacks Sealant	Mix Ratio or
HOLE PLUG								Surface	4.5	or volun	ne (circle one)	Mud Weight
HOLE PLUG								Surface	8.5		1	
			\					- <u> </u>			· · · · · · · · · · · · · · · · · · ·	
SOIL GAS PRO	RE (G	<del>;</del> PN-10	) TV	VO PI	ROBE	SN	ES	TED IN	SAME	BOREHO	LE	
7. Supervision of Wo	rk				•		_				DNR Us	e Only
Name of Person or Firm BOART LONGYE	Doing Filli AR	ing & Sealin	g Lice 6	ense # 189	D	ate of	Filli 04	ing & Sealing 1 / 2008	] (mm/dd/yyy	y) Date Rec	eived No	oted By
Street or Route 101 ALDERS	ON ST	•			<b>*</b>		Telephone Number Comments					
City SCHOFIELD			State WI	ZIP (	Code 476		•	Signature of	Person Doing	g Work	Da	ate Signed $-4 - 19$
										118 6 d		w a U i

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	STRATIG. PHIC AN	D INSTRUMEN ERBURDEN)	TATION 1	(L-84)
PROJEC	CT NAME: WAUSAU WATER SUPPLY NPL SITE	<u>-</u>	HOLE DESIGNATION: GF	N-10
PROJEC	CT NO.: 3978		DATE COMPLETED: DE	CEMBER 9, 1993
CLIENT:	WAUSAU PRP GROUP		DRILLING METHOD: 4	1/4" ID HSA
LOCATI	ON: WAUSAU CHEMICAL		CRA SUPERVISOR: P.	KLICK
DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	- SAMOUS
ft BGS		ft BGS	INSTALLATION	N SAMPLE
	ASPHALT	-0.3	A B ROAD BOX	Ř Č (ppm)
1.0	Sr - SAND, trace sit, tine grained, brown,	dry	CONCRETE SEAL	
2.0	SM—SAND, some silt, trace coarse gravel, grained, brown, moist	fine -2.0	BENTONUTE CHIPS 1/2*0 STANLESS	
3.0			STELL CASING	
4.0			WELL SCREEN	
5.0			BOREHOLE	o
6.0			BENTON TE CHIPS	
7.0	SP-SAND, fine grained with trace medium grains, light brown, moist	- <i>7.0</i>	SAND PACK	
8.0			WELL SCREEN	
9.0	END OF HOLE . 9.0 FT. BGS	-9.0		. 0
10.0		<u>SCREEN A F</u> Screened In 7.5 to <b>8</b> .5 Length -1.0	DETAILS: <u>SCREEN B</u> terval: Screened BGS 3.5 to 4 Characteria	L <u>DETAILS:</u> Intervol: 5' BGS 1 0'
11.0		Diameter −1 Slot ∦ Drille Holes−1/2 Material −Si	1/2" Diameter d 3/32"ø Slot # Dri on Center Holes-1/ tainless Steel Material	-1/2" illed 3/32"ø /2" on Center Stoipless Stool
12.0		Sand pack i 7.0 to 9.0 Material —Po	interval: Sand paci BGS 3.0 to 5 ea Gravel Material –	c interval: .0' BGS -Pea Gravel
13.0				
NOT	ES: MEASURING POINT ELEVATIONS MAY	CHANGE; REFER	TO CURRENT ELEVATION TA	ABLE
	CHEMICAL ANALYSIS 🔘 W	ATER FOUND	STATIC WATER I EVEL	<b>—</b>

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State of Wis., Dept. of Natu dnr.wi.gov	ral Reso	urces					,	Well / Dri Form 3300-0	IIhole / Bo	orehole Fi	lling & Sealing Page 1 of 2			
Notice: Completion of this r with chs. 281, 289, 291-293 year, depending on the prog form to the appropriate DNF	eport is r 3, 295, ar gram and R office a	equired by nd 299, Wis f conduct ir nd bureau.	chs. 16 5. Stats. 1volved. See in	0, 281, 26 , failure to Persona structions	83, 289 o file th ally ide s on re	9, 291-29 his form r entifiable everse for	3, 295, and 29 nay result in a information on more informa	99, Wis. Stats forfeiture of b this form is n tion.	and ch. NR between \$10-2 not intended to	141, Wis. Adm 5,000, or impris be used for an	Code. In accordance sonment for up to one y other purpose. Return			
				Route t	o:									
Verification Only	of Fill a	and Seal		[_] Dri   [_] Wa	inking ' aste M	Water anageme	Watershed/Wastewater X Remediation/Redevelopment							
1. Well Location Inform	nation			<u> </u>			2. Facility / Owner Information							
County	WI Unig	ue Well # d	of	Hicap #			Facility Name							
MARATHON	Remove	d Well		·										
Lattitude / Longitude (Degr	rees and	Minutes)	Method	Code (s	ee ins	tructions	Facility ID (FID or PWS) ) 737105820							
° ·		'N					License/Per	mit/Monitorin	g #					
° ` ` _		'w		<u>.                                    </u>						•				
%/% NW % N	W	Section	Tow	nship	Range	Ϋ́ΣΙΕ	Original We	ll Owner		·				
or Gov't Lot #		25		29 N			Present We				- <u>,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
Well Street Address 2001 N. RIVER	R DRI	VE					WAUS.	AU CHEN	MCIAL					
Well City, Village or Town Well ZIP Code WAUSAU 54402-095							2001	N. RI	VER DRI	VE				
Subdivision Name			<u> </u>	Lot #			-City of Prese WAUS	ent Owner SAU		State WI	ZIP Code 54402-0953			
Reason For Removal From	n Servic	- Wi Unio	ue Wel	# of Ren	lacem	ent Well	4. Pump,	Liner, Scree	en, Casing 8	Sealing Ma	terial			
NOT IN SERVIC	E						Pump and	d piping rema	oved?	[				
3. Well / Drillhole / Bor	rehole i	nformatio	'n				Liner(s) removed?							
		Driginal Co	nstructi	on Date (	mm/do	d/yyyy)	Screen re	moved?		[				
	12/08/1993							ft in place?						
Borehole / Drillhole		If a Well Co please atta	onstruct ch	ion Repo	rt is av	ailable,	Was casi	ng cut off bel	ow surface?					
Construction Type:						<u>.</u>	Did sealir	ng material ris	se to surface?					
	Driven (S	andpoint)					Did mater	rial settle afte	er 24 hours?					
Other (specify):	•	. ,					If bentonil	e chips were	used, were the	y hydrated				
Formation Type:							Required Me	thod of Placing	n safe source?	erial E				
X Unconsolidated Form	nation	Г		ock			Conductor Pipe-Gravity Conductor Pipe-Pumped							
Total Well Depth From Gro	ound Su	face (ft.) (	asing	Diameter	(in.)		- X Screer	ed & Poured	Othe	(Explain):				
4.5 & 8.5 (NE	STED	)	0.	5			Sealing Mate	arials						
Lower Drillhole Diameter (	in.)	C C	Casing	Depth (ft.	)		Neat C	ement Grout		Clay-Sa	and Slurry (11 lb./gal. wt.)			
			3.5	<u>&amp; /.</u>	. 5			Cement (Cond	crete) Grout	Benton	ite-Sand Slurry "			
Was well annular space gr	routed?	X	Yes		L	Jnknown		ete An Malla and		K Benton	ite Chips			
If yes, to what depth (feet)	?	Depth	to Wat	er (feet)			Benton	ite Chins		<i>li Borenoles ()</i> Rentonite - Ce	n/y: ment Crout			
0-2.5 & 5-6.5	<b>)</b>	NO	T AF	PLIC.	ABL	E	Granul	ar Bentonite	ă	Bentonite - Sa	nd Slurry			
5. Material Used To Fill	Well / Di	liihole					From (ft.)	To (ft.)	No. Yards	Sacks Sealan	Mix Ratio or			
HOLE PLUG							Surface	4.5		(circle one)	Mud Weight			
HOLE PLUG							Surface	8.5						
6. Comments														
SOIL GAS PROE	BE (C	SPN-11	) TI	NO PR	OBE	S NE	STED IN	SAME	BOREHOL	E				
7. Supervision of Worl	k .				·	• • •		· · · · · · · · · · · · · · · · · · ·	1	DNR Us	e Only			
Name of Person or Firm D BOART LONGYED	oing Filli	ng & Seali	ng Lic	ense # 189	C	Date of F	Illing & Sealing	g (mm/dd/yyy	y) Date Rece	ived N	loted By			
Street or Route					l	ਹ , ਵ ਹ ਜ		her	Commonte					
101 ALDERSO	N ST	•					715) 359	-7090			·			
City SCHOFIELD			State		ode		Signature of Person Doing Work Date Signed							
		·	MT	154	4/6			Lance	- 11-	<u></u>	6-8-09			
								-	Er Er	2 in				

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•			(OVERBU	JRDEN)				(L-8	85)
PROJE	CT NAME:	WAUSAU WATER SUP	PPLY NPL SITE	·	HOLE DESIGNATION:	GPN-11			
PROJE	CT NO.:	3978			DATE COMPLETED:	DECEMBE	B 8	100	
CLIENT	:	WAUSAU PRP GROU	P .		DRILLING METHOD:	4 1/4"	n u	, 195 Sa	13
LOCATI	ON:	WAUSAU CHEMICAL			CRA SUPERVISOR:		υ п.	SA	
DEPTH	STRATICE	APHIC DESCRIPTION	& REMARKS	FLEVATION					
ft BGS				ft BGS	INSTALLATION	N	SAM	PLE	F
							Ŷ	Ľ	Ċ
	ASPHAL	T			ROAD BOX	<u>_</u>	٦ ۲	U E	<u>tee</u>
1. <b>0</b>	SP-SAN grained,	ID, trace fine and co light brown, moist	oarse gravel, fine		CO CONCRETE S	SEAL			
2.0					BENTONITE CHIPS 1/2"0 STAINLESS STEEL CASE	YG			
3.0					SAND PACK	×			
4.0					WELL SCREE	м			
5.0					BOREHOLE				
6.0					BENTONITE CHIPS				
7.0					SAND PACK				
8.0					of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	N			: [
9.0	END OF	HOLE 9.0 FT. E	IGS	-9.0					C
10.0				Screened Int 7.5 to 8.5 Length -1.0	ETAILS: SCREE ervol: Screen BGS 3.5 tr	N B DETA ed Interv 0 4.5' BC	<u>al:</u> S	-	
11.0				Diameter -1 Slot # Drilled Holes-1/2" Material -St	/2" Diamet d 3/32"ø Slot ∰ on Center Holes	-1.0 er -1/2" Drilled 3 -1/2" on	/32' 1 Ce	"ø nter	
12.0				Sand pack in 7.0 to 9.0 Material —Pe	nterval: Sand p BGS 3.0 to a Gravel Materic	D —Staini Dack inter D 5.0' BG D —Pea (	ess "val: SS Gravi	Stee ei	h.
13.0									
NOTE	ES: MI	EASURING POINT FILE			· · · · · · · · · · · · · · · · · · ·				
	( <b>v</b> ))		THUNS MAT CHAN	GE; REFER T	O CURRENT ELEVATION	TABLE			

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State of Wis., Dept. of Natu dnr.wi.gov	ral Res	ources						Well / Dri Form 3300-0	illhole / Bor 05 (R 4/08)	ehole Fill	ling & Sealing Page 1 of 2			
Notice: Completion of this n with chs. 281, 289, 291-293 year, depending on the pro form to the appropriate DN	eport is 3, 295, a gram ar R office	required b and 299, W nd conduct and burea	y chs. 1 is. Stats Involved u. See i	60, 281, failure J. Perso Instructio	283, 20 to file mally id ons on i	89, 291-2 this form lentifiable reverse fo	93, 295, and 2 nay result in a information of r more inform	99, Wis. Stats forfeiture of b this form is r ation.	s., and ch. NR 14 between \$10-25,0 not intended to be	1, Wis. Adm. 00, or imprise used for any	Code. In accordance onment for up to one other purpose. Return			
Verification Only	of Fill	and Sea	al		e <b>to</b> : Drinking Waste I	g Water Managem	ent	Matershed/Wastewater X Remediation/Redevelopmen						
1. Well Location Inform	nation						2. Facility / Owner Information							
County	WI Uni	que Well #	of	Hicap #	ŧ		Facility Nar	ne			•			
MARATHON	Remov	ved Well												
Lattitude / Longitude (Degi	rees an	d Minutes)	Metho	d Code	(see in	structions	Facility ID (	-Facility ID (FID or PWS)						
• ·		'N												
<b>،</b>		۰w	/				License/Permit/Monitoring #							
7/1% NW 1/4 N	w	Section	<u>Γ</u> Πον	wnship	Rang		Original We	ell Owner	<u></u>		· · · · · · · · · · · · · · · · · · ·			
or Gov't Lot #		25		29 N	J J		WAUS	AU CHEM	MICAL					
Well Street Address 2001 N. RIVER	DR	IVE			<u>.</u>		-Present We WAUS	AU CHE	MCIAL					
Well City, Village or Town Well ZIP Code							_Mailing Add 2001	Iress of Prese LN.RI	ent Owner VER DRIV	E				
Subdivision Name Lot #							City of Pres	ent Owner SAU		State WI	ZIP Code 54402-0953			
Reason For Removal From Service, Will Join Well # of Replacement W							4. Pump, Liner, Screen, Casing & Sealing Material							
NOT IN SERVIC	E						Pump ar	nd piping rem	oved?	Ĺ				
3. Well / Drillhole / Bor	rehole	Informati	ion	·. ·			Liner(s)	removed?						
	Original Construction Date (mm/dd/yyyy)						Screen r	emoved?		X				
Water Well		12/		333		······	Casing I	eft in place?	·					
Borehole / Drillhole	Borehole / Drillhole If a Well Construction Report is available, please attach.						Was cas	ing cut off bel	low surface?					
Construction Type:					,		Did seal	ng material ri	se to surface?					
X Drilled	)riven (	Sandpoint)		Du	g		UID mate	s, was hole re	er 24 hours? htopped?					
Other (specify):							If benton with wate	ite chips were	used, were they	hydrated IX				
Formation Type:							Required M	ethod of Placi	ing Sealing Mater	ial				
X Unconsolidated Form	ation	]	Bedr	ock				uctor Pipe-Gra	avity 🔲 Conduc	tor Pipe-Pur	nped			
Total Well Depth From Gro		urface (ft.)	Casing	Diamete	er (in.)		Benti	ned & Poured onite Chips)	Other (I	Explain):				
		J)	0.	5	<del>4</del> \		Sealing Mai	erials		<u></u>				
Lower Drinnole Diamater (i	., .,		3.5	bepm ( δ. δ. 7				Cement Grout	croto) Crowt		nd Slurry (11 lb./gal. wt.			
		 IX	1. 1.v			11-1		ete		X Bentonit	e-Sand Siurry """ e Chins			
If yes, to what depth (feet)					<u> </u>	Unknowr	For Monitor	ing Wells and	Monitoring Well	Boreholes On	ly:			
0-2.5 & 5-6.5	1	NC	DT A		, CABI	ΓE	Bento	nite Chips	В	entonite - Cen	nent Grout			
F. Material Haad To 500						·		lar Bentonite		ntonite - San	d Sturry			
HOLE PLUG						• •	From (ft.)	To (ft.)	or Volume (	circle one)	Mud Weight			
HOLE PLUG							Surface	4.5						
				·		····	Surface	0.5						
6. Comments							- <u> </u>							
SOIL GAS PROB	BE (	GPN-1:	2) T	WO P	ROBI	ES NÉ	STED IN	I SAME	BOREHOLE					
7. Supervision of Work	(									DNR Use	e Only			
Name of Person or Firm De BOART LONGYEA	oing Fil .R	ling & Seal	ling Lic	ense #		Date of F	illing & Sealir	ig (mm/dd/yy)	yy) Date Receive	ed No	oted By.			
Street or Route					·	<u>г</u> ћ	elephone Nu	mber	Comments	<u>l</u> :				
101 ALDERSO	N ST	<u>r.</u>					(715) 359-7090							
City State ZIP Code						Signature of Person Doing Work Date Signed				ate Signed				
			IMT	54	+4/6	>			-AAL		6-8-09			
							-							

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			STRATIC	OVERE	INSTRUME IURDEN)	NTATION 1 ;			(L·	-86)
PROJEC	CT NAME:	WÁUSAU	WATER SUPP	LY NPL SITE		HOLE DESIGNA	TION: GP	N-12		
PROJEC	CT NO.:	397 <b>8</b>			·	DATE COMPLE	TED: DF		R 10	
CLIENT:	:	WAUSAU	PRP GROUP			DRILLING MET		1 /4" if		1993
LOCATI	ON:	WAUSAU	CHEMICAL			CRA SUPERVIS	SOR: P.	KLICK		
DEPTH	STRATIGE	APHIC DE	SCRIPTION &	REMARKS	ELEVATION	MONITOR		s	AMPLE	
					n BGS	INSTALLATIO	N	NUU	Ş N	P
						▆▙		Ē	Î Î	
1.0	SM-SAN fine gra	<u>, sand, v</u> ID, little ined, bro	egetotion silt, trace co wn, moist	arse gravel,	-0.2	BENI	TONITE S	R		
2.0 3.0						E SANG	MLESS L CASING PACK			
4.0						CRAN	EL PACK			
5.0 6.0						BORE BORE BENT CHIP	HOLE ONITE S			0
7.0					•	SAND	PACK			
8.0						WELL	SCREEN			
9.0	END OF	HOLE O	9.0 FT. BG	S	-9.0					0
1 <b>0</b> .0					<u>SCREEN A</u> Screened In 7.5 to 8.5 Length -1 (	DETAILS: S Iterval: S 5' BGS	CREEN B creened 1 3.5 to 4	DETAI Interva 5' BGS	L <u>S:</u> 1: 5	•
11.0					Diameter - Slot # Drille Holes-1/2	1/2" D ed 3/32"ø S " on Center	iameter lot ∦ Dril Hol <b>es—</b> 1/	.0 -1/2" led 3/ 2" on	'32"ø Cente	r
12.0					матегіаl —S Sand pack 7.0 to 9.0 Moterial —P	ntainless Steel M interval: S 1º BGS lea Gravel M	laterial – and pack 3.0 to 5. laterial –	Stainle interv 0' BGS Peo C	iss Ste val: S	eel
13.0										
NOTE	ES: M				NGE; REFER	TO CURRENT ELEV	ATION TA	BLE		1

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State of Wis., Dept. of Natu dnr.wi.gov	ral Resources						Well / Dri		ehole Fil	ling & Sealing
Notice: Completion of this r with chs. 281, 289, 291-293 year, depending on the pro form to the appropriate DNI	eport is required b 3, 295, and 299, W gram and conduct R office and bureau	y chs. 160 is. Stats., involved. J. See ing	), 281, 1 failure Person structio	283, 289, to file this nally ident ns on reve	291-29; form m ifiable in erse for	3, 295, and 2 ay result in a nformation or more informa	99, Wis. Stats forfeiture of t this form is r tion.	i., and ch. NR 141 between \$10-25,0 tot intended to be	, Wis. Adm. 00, or impris used for any	Page 1 of 2 Code. In accordance onment for up to one y other purpose. Return
Verification Only	of Fill and Sea	ıl		to: Drinking W Vaste Man	ater Iagemei	nt	Watershed/V	Vastewater	X Reme	ediation/Redevelopment
1. Weil Location inform	nation					2 Eacilit		formation		
County	WI Unique Well #	of H	licap #			Facility Nan	ne			
MARATHON	Removed Well									
Lattitude / Longitude (Degi	rees and Minutes)	Method	Code (	see instru	uctions)	Facility ID (I	ID or PWS)			
° `	'N				,		J5820	- 4		
۰	·w					License/Per	milvisionitonn	g #		
74/74 NW 1/4 N	W Section	тоwr	nship	Range		Original We	ll Owner			- <u> </u>
or Gov't Lot #	25	2	9 _N		<b>씀</b>	WAUS	AU CHEM	ICAL		
Well Street Address 2001 N. RIVER	DRIVE	<b>L</b>		<u></u>		Present We WAUS	II Owner AU CHEN	MCIAL		
Well City, Village or Town WAUSAU			Well 54	ZIP Code 402-0	953	Mailing Add 2001	N. RI	INTOWNER VER DRIVI	Ξ	
Subdivision Name			Lot #			City of Pres WAUS	ent Owner SAU		State WI	ZIP Code 54402-0953
Reason For Removal From	n Service WI Uni	que Well i	# of Re	placemen	t Weil	4. Pump,	Liner, Scree	en, Casing & S	ealing Mat	erial
NOT IN SERVIC	E					Pump an	d piping remo	oved?		
3. Well / Drillhole / Bor	ehole Informati	on				Liner(s) r	emoved?			
Monitoring Well	Original Co 12/(	nstructio	n Date 93	(mm/dd/y	ууу)	Screen re	moved?			
Water Well	If a Well C		- Boo	off is avail		Casing le	ft in place?			
Borehole / Drillhole	please att	ach.	л кер	ort is avail	abie,	Was casi	ng cut off bel	ow surface?		
Construction Type:						Did seallr	ig material ne	se to surface?	E C	
	riven (Sandpoint)	[	Dug	3		If yes	, was hole re	topped?	ř	
Other (specify):						If bentoni with wate	e chips were from a know	used, were they h	nydrated	
Formation Type:					- <b>.</b> .	Required Me	thod of Placin	ng Sealing Materia	al	
X Unconsolidated Form	ation	Bedroo	*				ctor Pipe-Gra	vity 🔲 Conduct	tor Pipe-Pun	nped
Total Well Depth From Gro	und Surface (ft.)	Casing D	iamete	r (in.)		(Bento	nite Chips)	Cher (E	xplain):	
Lower Drillhole Diameter (i	n.)		enth (fi	• •		Sealing Mate	rials			
	,	3.5	& 7	.5			ement Grout		Clay-Sa	nd Slurry (11 lb./gal. wt.)
Was well annular space gr	outed?	Yes [			known		ite		Bentonit	e-Sand Slurry * * e Chips
If yes, to what depth (feet)?	Depth	to Water	r (feet)			Benton	ite Chips		orenoles On htonite - Cen	<i>iy:</i> nent Grout
0-2.5 & 5-6.5		T API	PTC	ABLE		Granul	ar Bentonite	Bei	ntonite - San	d Slurry
5. Material Used To FIII V	Vell / Drillhole					From (ft.)	To (ft.)	No. Yards Sac	ks Sealant	Mix Ratio or
HOLE PLUG						Surface	4.5			mua weight
HOLE PLUG						Surface	8.5	0.	5	
6. Comments										
SOIL GAS PROB	E (GPN-13	) TW	O PI	ROBES	NES	TED IN	SAME 1	BOREHOLE		
7. Supervision of Work	· · · · · · · · · · · · · · · · · · ·	- <u></u> .						····	DNR	
Name of Person or Firm Do BOART LONGYEA	ping Filling & Seali R	ng Licer 61	nse # .89	Dat 0	e of Fill 9/04	ing & Sealing	(mm/dd/yyy	y) Date Received		oted By
Street or Route 101 ALDERSO	N ST.				Tel	ephone Num	iber	Comments	<u>l</u>	
City		State	ZIP	Code		LD) 359 Signature of	- /U90 Person Doin			the Simon
SCHOFIELD		WI	54	476				Min	Ú	

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PROJECT NAME: WAUSAU WATER SUPPLY NPL SITE       HOLE DESIGNATION: GPN-13         PROJECT NO:: 3978       DATE COMPLETED: DECEMBER 9, 195         SCLENT: WAUSAU PRP GROUP       ORILLING METHOD: 4 1/4" ID HSA         JOCATION: WAUSAU CHEMICAL       CRA SUPERVISOR: P. KLICK         ETH STRATIGRAPHIC DESCRIPTION & REMARKS       ELEVATION         ASPHALT       ROB DESCRIPTION & REMARKS         STRATIGRAPHIC DESCRIPTION & REMARKS       ELEVATION         O       STRATIGRAPHIC DESCRIPTION & REMARKS         O       STRATIGRAPHIC DESCRIPTION & REMARKS         O       STRATIGRAPHIC DESCRIPTION & REMARKS         O		STRATI( \PHI	C AND D (OVERBI	NSTRUME JRDEN)	NTATION (	Ĵ			(L-8	37)
PROJECT NO.:       3978       HOLE DESIGNATION: GPN-13         DATE COMPLETED: DECEMBER 9, 195         CATION:       WAUSAU CHEMICAL         CACATION:       WAUSAU CHEMICAL         CRA SUPERVSOR:       P. KLICK         PPTS       STRATICRAPHIC DESCRIPTION & REMARKS         PTS       STRATICRAPHIC DESCRIPTION & REMARKS         SP-SAND, trace silt, trace coarse gravel, fine grained, light brown, moist       -0.3         2.0       Streamed Liferation         3.0       Streamed Liferation     <	PROJECT NAME: WAUSA	J WATER SUPPLY NP	IL SITE	· · <b>/</b>						
CLIENT:       WAUSAU PRP GROUP       DARL COMPLETED: DECEMBER 9, 195         LOCATION:       WAUSAU CHEMICAL       CRA SUPERVISOR: P. KLICK         EPTH       STRATIGRAPHIC DESCRIPTION & REMARKS       ELEVATION       WINSTALLING         EPTH       STRATIGRAPHIC DESCRIPTION & REMARKS       ELEVATION       WINSTALLING         SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       ASPHALT         SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       ASPHALT         SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       Concerte set.         00       SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       Concerte set.         00       SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       Concerte set.         00       SP-SAND, trace silt, trace coarse gravel, me grained, light brown, moist       -0.3       STRECASINE         00       Soreened intervoit: Streened intervoit: Streened intervoit: 7.5 to 8.5 BCS       Streened intervoit: 3.0 to 5.3 BCS         00       END OF HOLE INDUCTIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE       Stot BCS         00       Moterial -Pea Gravel       Moterial -Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TA	PROJECT NO .: 3978				HOLE DE	SIGNATION: G	PN-13	3		
DRILLING METHOD: 4 1/4" ID HSA CRA SUPERVISOR: P. KLICK CRA SUPERVISOR:					DATE CO	MPLETED: D	ECEME	BER	9, 19	99.
ADDATION:     WAUSAU CHEWICAL     CRA SUPERVISOR: P. KLICK       EPTH     STRATIGRAPHIC DESCRIPTION & REMARKS     LEVATION     MONITOR     SAMPLE       IBGS     INSTALLATION     INSTALLATION     INSTALLATION     INSTALLATION     INSTALLATION       SP-SAND, trace sit, trace coarse gravel, fine grained, light brown, moist     -0.1     INSTALLATION     INSTALLATION     INSTALLATION       SP-SAND, trace sit, trace coarse gravel, fine grained, light brown, moist     -0.1     INSTALLATION     INSTALLATION     INSTALLATION       1.0     SP-SAND, trace sit, trace coarse gravel, fine grained, light brown, moist     -0.1     INSTALLATION     INSTALLATION     INSTALLATION       1.0     SP-SAND, trace sit, trace coarse gravel, fine grained, light brown, moist     -0.1     INSTALLATION     INSTALLATION       1.0     INSTALLATION     INSTALLATION     INSTALLATION     INSTALLATION     INSTALLATION       1.0     INSTALLATION     INSTALLATION     INSTALLATION     INSTALLATION <td></td> <td></td> <td></td> <td></td> <td>DRILLING</td> <td>METHOD: 4</td> <td>1/4"</td> <td>ID I</td> <td>HSA</td> <td></td>					DRILLING	METHOD: 4	1/4"	ID I	HSA	
EPTH     STRATIGRAPHIC DESCRIPTION & REMARKS     ELEVATION     MONITOR     SAMPLE       I BOS     INSTALLATION     III     IIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	LUCATION: WAUSAU	J CHEMICAL			CRA SUP	ERMSOR: P	. KLICI	к		
ASPHALT     SAMPLE       ASPHALT     -0.1       SP-SAND, trace silt, trace coarse gravel, fine grained, light brown, moist     -0.1       SP-SAND, trace silt, trace coarse gravel, fine grained, light brown, moist     -0.1       SP-SAND, trace silt, trace coarse gravel, fine grained, light brown, moist     -0.1       SO     State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State Stat	EPTH STRATIGRAPHIC C	ESCRIPTION & REMAI	RKS	ELEVATION		108				
ASPHALT SP-SAND, trace sit, trace coarse grovel, ine grained, light brown, moist 2.0 2.0 3.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5				ft BGS	INSTALL	ATION	N	SAM		
ASPHALT SP-SAND, trace silt, trace coarse gravel, fine grained, light brown, moist 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1								Ă	X	C
SP-SAND, trace sit, trace coarse grovel, ine grained, light brown, moist       -0.3       -0.3       CONCRET SAL STEL CASHO STEL	ASPHALT						Ë	έ		(00
Image of united, light brown, moist         2.0         2.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0 <td>SP-SAND, trace</td> <td>silt, trace coarse g</td> <td>ravel,</td> <td>-0.3</td> <td>6.6</td> <td>ROAD BOX</td> <td></td> <td>Π</td> <td></td> <td></td>	SP-SAND, trace	silt, trace coarse g	ravel,	-0.3	6.6	ROAD BOX		Π		
2.0       CONCRETE SEL         2.0       State Pack         3.0       State Pack	1.0	nt brown, moist								
2.0       BONTOWITE CAUPS         3.0       SAMD PACK         3.0       SAMD PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK         3.0       GRAVEL PACK						CONCRETE SEAL	·			
3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing         3.0       Stant Essing <td>20</td> <td></td> <td></td> <td></td> <td></td> <td>- RENTAN</td> <td></td> <td></td> <td></td> <td></td>	20					- RENTAN				
3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       STATUESS         3.0       SCREEN A DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN B DETAILS:       SCREEN B DETAILS: <t< td=""><td></td><td></td><td></td><td></td><td></td><td>CHIPS</td><td></td><td></td><td></td><td></td></t<>						CHIPS				
50       -SAMD PACK         10       -SAMD PACK <td< td=""><td></td><td></td><td></td><td></td><td></td><td>STAINLESS</td><td></td><td></td><td></td><td></td></td<>						STAINLESS				
0       GRAVEL PACK         0       SORDHOLE         0       SAND PACK         0       SAND PACK         0       SCREEN A DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN B DETAILS:       SCREEN B DETAILS:         SCREEN B DETAILS:       SCREEN B DETAILS:         SCREEN B DETAILS:       SCREEN B DETAILS:         SID # DRIMED JOINT BELSCARENT       SID # JOINT BELSCAREN	5.0	۰.				SAND PACK				
A.O       WELL SCREEN         BORCHOLE       Some of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of						GRAVEL PACK				
0.0       WELL SCREEN         0.0       BONTONITE         0.0       SAND PACK         0.0       SAND PACK         0.0       SAND PACK         0.0       SCREEN A DETAILS:         0.0       Screened Interval:         7.5 to 8.5' BCS       3.5 to 4.5' BCS         1.0       Diameter -1/2"         0iameter -1/2"       Diameter -1/2"         1.0       Sint # Drilled 3/32"s         Holes-1/2"       Sint # Drilled 3/32"s         Holes-1/2"       Sint # Drilled 3/32"s         1.0       Sint # Drilled 3/32"s <td< td=""><td>i.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>[</td><td></td></td<>	i.0								[	
A.O       BORDALE         A.O       BORDALE         A.O       BORDALE         A.O       BORDALE         A.O       SAND PACK         A.O       SAND PACK         A.O       SAND PACK         A.O       SCREEN A DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         SCREEN A DETAILS:       SCREEN B DETAILS:         A.O       Screened Interval:         J.O       Screened Interval:         J.O       Screened Interval:         J.O       Diameter -1/2"         Diameter -1/2"       Diameter -1/2"         Slot # Drilled 3/32"#       Holss-1/2" on Center         Material -Stainless Steel       Sand pack Interval:         J.O       S.O' BOS         Material -Pea Gravel       Material -Pea Gravel						WELL SCREEN				
.0       BORDAUE         .0       BORDAUE         .0       SAND PACK         .0       SAND PACK         .0       SAND PACK         .0       GRAVEL PACK         .0       SCREEN A DETAILS:         .0       Screened Interval:         .0       Screened Interval:         .0       Screened Interval:         .0       Screened Interval:         .0       Stat # Drilled 3/32*#         Holes-1/2*       On Center         Material -Pea Gravel       Material -Stainless Steel         Sond pack interval:       Sond pack interval:         .0       Sond pack interval:		·	•							
.0       SAND PACK         .0       SAND PACK         .0       SAND PACK         .0       GRAVEL PACK         .0       END OF HOLE • 9.0 FT. BGS         .0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5 BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5 BGS         .0       END OF HOLE • 9.0 FT. BGS       -9.0         .0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5 BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5 BGS         .0       Stot # Drilled 3/32*s Holes=1/2* on Center Material = Stanless Steel Sand pack interval: 7.0 to 9.0* BGS       Jot 5.5 BGS Jot # Drilled 3/32*s Holes=1/2* on Center Material = Pea Gravel         .0       Sand pack interval: 3.0 to 5.0* BGS       Jot 5.0* BGS Material = Pea Gravel         .0       Material = Pea Gravel       Material = Pea Gravel         .0       Material = Pea Gravel       Material = Pea Gravel         .0       Material = Pea Gravel       Material = Pea Gravel         .0       Material = Pea Gravel       Material = Pea Gravel         .0       Material = Pea Gravel       Material = Pea Gravel						BOREHOLE				r
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.0       .0       SAND PACK         .0       GRAVEL PACK         .0       END OF HOLE • 9.0 FT. BGS         .0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS         .0       Screened Interval: 7.5 to 8.5' BGS       Screened Interval: 7.5 to 8.5' BGS         .0       Screened Interval: 7.5 to 8.5' BGS       Screened Interval: 7.5 to 8.5' BGS         .0       Screened Interval: 7.5 to 8.5' BGS       Screened Interval: 7.5 to 8.5' BGS         .0       Sind # Drilled 3/32*# Holes-1/2* on Center Material - Stainless Steel Sand pack interval: 7.0 to 9.0' BGS       Soit # Drilled 3/32*# Material - Pea Gravel         .0       7.0 to 9.0' BGS       3.0 to 5.0' BGS 3.0 to 5.0' BGS         .0       The survey       Soid # Drilled 3/32         .0       The survey       Soid # Drilled 3/32         .0       The survey       Soid # Drilled 3/32         .0       To to 9.0' BGS       3.0 to 5.0' BGS         .0       To to 9.0' BGS       3.0 to 5.0' BGS         .0       To to 9.0' BGS       3.0 to 5.0' BGS         .0       To to 9.0' BGS       Soid # Drilled 3/32         .0       To to 9.0' BGS       Soid # Drilled 3/32         .0       To to 9.0' BGS       Soid Pack Interval: 3.0 to 5.0' BGS </td <td></td> <td></td> <td></td> <td></td> <td>1 <u>\$</u></td> <td>uning</td> <td></td> <td></td> <td></td> <td></td>					1 <u>\$</u>	uning				
.0       END OF HOLE • 9.0 FT. BGS       -9.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 4.5' BGS       O         .0       Screened Interval: 7.5 to 9.0 FT. BGS       0       Screened Interval: 7.5 to 9.0 FT. BGS       Screened Interval:	7.0					SAND PACK				
.0       END OF HOLE • 9.0 FT. BGS       -9.0       SCREEN A DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened interval: 7.5 to 8.5' BGS Length -1.0'       Screened interval: 8.0 to 4.5' BGS Holes-1/2" on Center Material -Stainless Steel Sand pack interval: 7.0 to 9.0' BGS Material -Pea Gravel       Diameter -1/2" Material -Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE										
.0       END OF HOLE • 9.0 FT. BGS       -9.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       Screened Interval: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       000000000000000000000000000000000000						GRAVEL PACK				
.0       END OF HOLE • 9.0 FT. BGS       -9.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       Screened Interval: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       Screened Interval: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       Joint 4.5' BGS Length -1.0'         1.0       0iameter -1/2"       0iameter -1/2"       Diameter -1/2"         1.0       Slot # Drilled 3/32"ø       Holes-1/2" on Center Material -Stainless Steel       Solt # Drilled 3/32"ø         2.0       Sand pack interval: 7.0 to 9.0' BGS       3.0 to 5.0' BGS       Jointerval: 3.0 to 5.0' BGS         3.0       Solt # Drilled -Pea Gravel       Material -Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	.0									
.0       END OF HOLE • 9.0 FT. BGS       -9.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS       Screened Interval: 7.0 to 9.0' BGS       J.5 to 4.5' BGS         8.0       Sond pack interval: 7.0 to 9.0' BGS       J.0 to 5.0' BGS       J.0 to 5.0' BGS         8.0       Material -Pea Gravel       Material -Pea Gravel       Material -Pea Gravel         8.0       MATERIAL -Pea Gravel       Material -Pea Gravel       Material -Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE			,			MELL SCREEN				
0.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5" BGS Length -1.0"       SCREEN B DETAILS: Screened Interval: 3.5 to 4.5" BGS Length -1.0"       Screened Interval: Screened Interval: 3.5 to 4.5" BGS Length -1.0"         1.0       Diameter -1/2"       Diameter -1/2"         1.0       Diameter -1/2"       Diameter -1/2"         2.0       Slot # Drilled 3/32"#       Holes-1/2" on Center Material -Stainless Steel       Slot # Drilled 3/32"#         2.0       Sand pack interval: 7.0 to 9.0" BGS       3.0 to 5.0" BGS         3.0       to 5.0" BGS       Jointerval: Sand pack interval: 3.0 to 5.0" BGS         3.0       to 5.0" BGS       Jointerval: Sand pack interval: 3.0 to 5.0" BGS         3.0       to 5.0" BGS       Jointerval: Sand pack interval: 3.0 to 5.0" BGS         3.0       to 5.0" BGS       Jointerval: 3.0 to 5.0" BGS         3.0       to 5.0" BGS<	O END OF HOLE O	90 FT PCS		-9.0						
0.0       SCREEN A DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0'       SCREEN B DETAILS: Screened Interval: 3.5 to 4.5' BGS Length -1.0'         0.0       Diameter -1/2"       Length -1.0'         0.0       Diameter -1/2"       Diameter -1/2"         0.0       Slot # Drilled 3/32"#       Slot # Drilled 3/32"#         1.0       Slot # Drilled 3/32"#       Slot # Drilled 3/32"#         2.0       Sand pack interval: 7.0 to 9.0' BGS       Sand pack interval: 3.0 to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to 5.0' BGS       Jo to 5.0' BGS         3.0       to		3.011. 863								0
NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE       Screened interval: Screened interval: 3.5 to 4.5' BGS J.5 to 4.5'	0.0			CREEN A D	ETAILS:	SCREEN B	DETA	LS:	1	
1.0       Length -1.0'       Length -1.0'         0iameter -1/2"       Diameter -1/2"       Diameter -1/2"         Slot # Drilled 3/32*s       Slot # Drilled 3/32*s       Slot # Drilled 3/32*s         Holes-1/2" on Center       Holes-1/2" on Center       Holes-1/2" on Center         Material -Stainless Steel       Material -Stainless Steel       Material -Stainless Steel         Sond pack interval:       Sand pack interval:       Sand pack interval:         7.0 to 9.0' BGS       3.0 to 5.0' BGS         Material -Pea Gravei       Material -Pea Gravei         1.0       Notes:       Measuring Point Elevations May Change; REFER TO CURRENT ELEVATION TABLE				7.5 to 8.5	BGS	3.5 to 4.	nterva 5' BGS	11: 5		
Slot # Drilled 3/32*#       Slot # Drilled 3/32*#       Slot # Drilled 3/32*#         Hales-1/2*       on Center       Hales-1/2*       On Center         Material - Stainless Steel       Material - Stainless Steel       Material - Stainless Steel         Sond pack interval:       Sand pack interval:       Sand pack interval:         7.0 to 9.0' BGS       3.0 to 5.0' BGS         8.0       Material - Pea Gravel       Material - Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE				ength —1.0 iameter —1	/2*	Length -1	0	•		
NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE			. S	lot # Drille	d 3/32"ø	Slot # Drill	$-1/2^{\circ}$	<b>32</b>	3	
2.0       Sand pack interval:       Sand pack interval:       Sand pack interval:         7.0 to 9.0' BGS       3.0 to 5.0' BGS         8.0       Material -Pea Gravel       Material -Pea Gravel         8.0       Material -Pea Gravel       Material -Pea Gravel         NOTES:       MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE			М	aterial -St	on Center ainless Steel	Holes-1/	2" on	Cen	ter	
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	2.0		S	and pack in	nterval:	Sand pack	inter	198 : /al:	steel	
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE			м	aterial —Pe	a Gravel	3.0 to 5.0	O' BGS	5		
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	3.0		1	1		······································	ିଟ୍ୟ ତା 	i uvel	1	
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						· .				
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	MLASURING	FUINT ELEVATIONS N	AY CHANG	E; REFER T	O CURRENT E	EVATION THE	BLE			

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State of Wis., Dept. of Natur dnr.wi.gov	al Resources					1	Well / Dri	lihole / Bore	hole Filli	ng & Sealing
Notice: Completion of this re with chs. 281, 289, 291-293, year, depending on the prog form to the appropriate DNR	port is required I 295, and 299, V ram and conduc office and burea	by chs. 16 Vis. Stats. t involved au. See in	0, 281, 3 , failure Persoi istructio	283, 289 to file thi nally ider ns on rev	), 291-29 is form m ntifiable i verse for	3, 295, and 29 ay result in a nformation on more informa	99, Wis. Stats forfeiture of b this form is n tlon.	., and ch. NR 141, etween \$10-25,00 ot intended to be u	Wis. Adm. C 0, or impriso Ised for any c	Code. In accordance nment for up to one other purpose. Return
Verification Only o	of Fill and Se	al	Route	to: Drinking V Vaste Ma	Water		Watershed/W	Vastewater	X Remed	iation/Redevelopment
1 Well Location Inform	ation					b Eacilia	Other:		<u> </u>	· · · · · · · · · · · · · · · · · · ·
County	NI Unique Well	# of	Hican #			Eacility Nam	V Uwner in	formation		•
MARATHON	Removed Well					a carty reall				
			Code	(000 inct		Facility ID (F	ID or PWS)	·		
°	ees and windles		Code (	566 1126	rucuons;	73710	05820			
*	``	v				License/Per	mit/Monitorin	g #		
%/% NW % NW	I Section	Tow	nship	Range	ΧE	Original Wel	Owner U CHEM	ITCAL		·····
or Gov't Lot #		4	29 N		l w	Present Wel	l Owner		<u> </u>	
2001 N. RIVER	DRIVE					WAUS.	AU CHEN	ACIAL		
Well City, Village or Town WAUSAU			Well	ZIP Cod 4 0 2 -	le 0952	2001	N. RI	VER DRIVE		
Subdivision Name			Lot #			-City of Prese WAUS	ent Owner SAU		State WI	ZIP Code 54402-0953
Reason For Removal From	Service WI Ur	ique Well	# of Re	nlaceme	nt Well	4. Pump, I	Liner, Scree	on, Casing & Se	aling Mate	rial
NOT IN SERVICE	E				-	Pump and	d pipina rema	oved?		
3. Well / Drillhole / Bord	hole information	lion				Liner(s) re	emoved?		$\overline{\Box}$	
	Original	onstructio	on Date	(mm/dd	/уууу)	Screen re	moved?		X	
Water Well	12/	10/19				Casing le	ft in place?		<u>_</u>	Yes XNo N/A
Borehole / Drillhole	If a Weil	Construct	ion Rep	ort is ava	ailable,	Was casi	ng cut off belo	ow surface?		Yes 🔲 No 🖾 N/A
Construction Type:						Did sealin	ig material ris	se to surface?	N N	Yes No N/A
X Drilled	riven (Sandpoint	)		٥		Did mater	ial settle afte	r 24 hours?	Ľ	Yes 🖾 No 🖵 N/A
Other (specify):		•		5		If bentonit	e chips were	used, were they hy	'ل رحم drated/	Yes 니No 亾N/A
Formation Type:						with water	from a know	n safe source?	<u></u>	
X Unconsolidated Forma	ition		ck			Condu	ctor Pipe-Grav		r Pipe-Pump	hert
Total Well Depth From Grou	und Surface (ft.)	Casing I	Diamete	er (in.)		Screen	ed & Poured	Other (Ex	plain):	
4.5 & 8.5 (NES	STED)	0.5	5			Sealing Mate	erials			
Lower Drillhole Diameter (in	i.)	Casing [ 3.5	Depth (fr & 7	t.) . 5		Neat C	ement Grout Cement (Conc	rete) Grout	Clay-Sand	d Slurry (11 ib./gal. wt. -Sand Slurry " *
Was well annular space gro	uted?	] _{Yes}		Пи	nknown	Concre	te	Ī	Bentonite	Chips
If yes, to what depth (feet)?	Dep	th to Wate	er (feet)			For Monitorir	ng Wells and I	Monitoring Well Bo	reholes Only	:
0-2.5 & 5-6.5	N	OT AP	PLIC	CABLE	Ξ	Benton	ite Chips		tonite - Ceme	ant Grout
5. Material Used To FIII W	leil / Drilihole							No. Yards Sac	ksSealant	Slurry Mix Ratio or
HOLE PLUG						Surface	4.5	or Volume (cl	rcle one)	Mud Weight
HOLE PLUG				<u></u>		Surface	8.5	3		
6. Comments						· ·		· · · · · · · · · · · · · · · · · · ·		<u></u>
SOIL GAS PROB	E (GPN-1	4) TV	IO PI	ROBE	S NES	STED IN	SAME I	BOREHOLE		
7. Supervision of Work									DNR Use	Only
BOART LONGYEA	ing Filling & Sea R	lling Lice	ense # 189	D	ate of File $09/0$	ling & Sealing 4 / 2008	g (mm/dd/yyy	y) Date Received	Not	ed By
Street or Route 101 ALDERSON	I ST.			1	Τe	lephone Num	iber	Comments	i	
City		State	ZIP	Code	[(	Signature of	- 7090 Person Doind	g Work	Date	e Signed
SCHOFIELD		WI	54	476			Lane			- 6-8-09
								The seal	1 de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de l	

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State of Wis., Dept. of Natural Resources dnr.wi.gov				Well / Drillhole / Borehole Filling & Sealing
Notice: Completion of this report is required by with chs. 281, 289, 291-293, 295, and 299, Wi year, depending on the program and conduct form to the appropriate DNR office and bureau	chs. 160 is. Stats., involved. i. See in	), 281, 283 failure to fi Personally structions o	, 289, 291-2 le this form / identifiable on reverse fo	Form 3300-005 (R 4/08) Page 1 of 93, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance may result in a forfeiture of between \$10-25,000, or imprisonment for up to one information on this form is not intended to be used for any other purpose. Return more information.
Verification Only of Fill and Sea	1	Route to:	ing Water	Watershed/Wastewater X Remediation/Redevelopmen
1. Well Location Information				
County WI Unique Well #	of	lican #		2. Facility / Owner Information
MARATHON Removed Well				
Lattitude / Longitude (Degrees and Minutes)	Method	Code (see	instruction	Facility ID (FID or PWS) ) 737105820
°'N				License/Permit/Monitoring #
4/4 NW 1/4 NW Section		shin Ra	D00 mm -	Original Well Owner
or Gov't Lot # 25	2	9	NA KIE	WAUSAU CHEMICAL
Well Street Address 2001 N. RIVER DRIVE			W	Present Well Owner WAUSAU CHEMCIAL
Well City, Village or Town WAUSAU		Well ZIP	Code 2 - 0953	Mailing Address of Present Owner 2001 N. RIVER DRIVE
Subdivision Name		Lot #		City of Present Owner State ZIP Code WAUSAU WI 54402-0953
Reason For Removal From Service WI Unic	ue Well f	f Replac	ement Well	4. Pump, Liner, Screen, Casing & Sealing Material
NOT IN SERVICE				Pump and piping removed?
3. Well / Drillhole / Borehole Information	on		. •	Liner(s) removed?
Monitoring Well 07iginal Co	nstruction	n Date (mn	n/dd/yyyy)	Screen removed?
Water Well				Casing left in place?
Borehole / Drillhole please atta	onstructio ich.	on Report is	s available,	Was casing cut off below surface?
Construction Type:		<u> </u>		Did sealing material rise to surface?
Drilled Driven (Sandpoint)	[	Dug		If yes, was hole retopped?
Other (specify):				If bentonite chips were used, were they hydrated
Formation Type:		<u> </u>		Required Method of Placing Sealing Material
X Unconsolidated Formation	Bedroc	k		Conductor Pipe-Gravity Conductor Pipe-Pumped
Total Well Depth From Ground Surface (ft.) ( 1 5 8 5 & 11 5 (NFSTFD)	Casing Di	ameter (in	.)	(Bentonite Chips)
Lower Drillhole Diameter (in )		onth (ft )		Sealing Materials
	3.5,	7.5	& 10.5	Clay-Sand Slurry (11 lb./gal. wt.
Was well annular space grouted?	Vec [		7	Grout Gand-Centent (Concrete) Grout Bentonite-Sand Slurry "
If yes, to what depth (feet)?	to Water			For Monitoring Wells and Monitoring Well Boreholes Only:
-2.5, 5-6.5, 8.5-9.5 NO	T APE	PLICAE	BLE	Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry
5. Material Used To Fill Well / Drillhole				From (ft.) To (ft.) No. Yards Sacks Sealant Mix Ratio or
HOLE PLUG				Surface 4.5
HOLE PLUG				Surface 8.5
				Surface 11.5 0.5
SOIL GAS PROBE (GPN-15	) THI	REE PF	ROBES	NESTED IN SAME BORFHOLE
7 Supervision of Work				
Name of Person or Firm Doing Filling & Sealir BOART LONGYEAR	Ig Licen	se #	Date of Fi	DNR Use Only           Iting & Sealing (mm/dd/yyyy) Date Received         Noted By
Street or Route	101		<u></u> те	2/2008 elephone Number Comments
	Ciat-	hin co t	[(	715) 359-7090
SCHOFIELD	WI	5447	6	Signature of Person Doing Work Date Signed

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	(OVERBU	RDEN)		(	L-89
PROJE	CT NAME: WAUSAU WATER SUPPLY NPL SITE		HOLE DESIGNATION OPN	_15	
PROJE	CT NO.: 3978			le 1 of 2)	
CLIENT	WAUSAU PRP GROUP		DRILLING NETHOD	LMBER 13,	1993
LOCATI	ON: WAUSAU CHEMICAL		CRA SUBERIAGE	4" ID HSA	
EPTH	STRATICRAPHIC DESCRIPTION & COLUCIO		CRA SUPERVISOR: M. P	HILLIPS	
t BGS	CINA INA PIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	SAMPL	ε
					Ň.
	GRANITE highly fractured and			B T E E	
	SP-SAND(3M FILL), very fine grained, gray.	-0.3			
1.0	moist		BENTONITE CHIPS		
			1/2.		
2.0			STAINLESS STEEL CASING		
3.0					
4.0	· · · · · · · · · · · · · · · · · · ·		PEA GRAVEL		
_			WELL SCREEN		
50					
			BOREHOLE		
			γ φ		
			BENTONITE CHIPS		
			8 8 899		
/.0			SAND PACK		
			PEA GRAVEL		
5.0	- intre fine gravel				
.0			BENTONITE		
			CHIPS		
0.0			SAND PACK		
			PEA GRAVEL		
1.0				· ,	
			WELL SCREEN		
2.0	END OF HOLE B 120 FT BOS	-12.0			
3.0					
NOTE	S: MEASURING POINT ELEVATIONS MAY CHANGE	E; REFER T	O CURRENT ELEVATION TAR	- <u> </u>	1
	CHEMICAL ANALYSIS WATER FO				

l

	<b>.</b>	(OVERB	URDEN)			(L
PROJECT NAM	E: WAUSAU WATER SU	PPLY NPL SITE		HOLE DESIGNATION: QP	N-15	
PROJECT NO .:	3978			DATE COMPLETED: DE	ige 2 CEMBEI	of 2)
CLIENT:	WAUSAU PRP GROU	P		DRILLING METHOD		х ( <b>9</b> , т
LOCATION:	WAUSAU CHEMICAL			CRA SUPERVISOR	·/ ·· ··	
DEPTH STRAT	GRAPHIC DESCRIPTION	& REMARKS		MA SUPERVISUR: M.	PHILLI	-2
ft BGS		a newanna	ELEVATION ft BGS	MONITOR INSTALLATION		SAMPLE
					E E	E U
			ļ .	SCREEN A DETAILS	1	<u>++</u> ►
- 14.0				Screened Interval:		
				Length -1.0'		
- 15.0				Diameter -1/2"   Slot # Drilled 3/32"@		
				Holes-1/2" on Center		
16.0				Sand pack interval:	1	
		· ·		10.0 to 12.0' BGS Material —Pea Gravel		
17.0				SCREEN B DETAILS		
				Screened interval:		
				Length -1.0'		
18.0				Diameter -1/2" Slot # Drilled 3/32"a		
				Hales-1/2" on Center		
19.0				Sand pack interval:		
				7.0 to 8.5 BGS Material —Pea Gravel		
20.0				SCREEN C DETAILS		
				Screened Interval:		
21.0				Length -1.0'		
		•		Slot # Drilled 3/32"ø		
22.0				Holes-1/2" on Center Material -Stainless Steel		
				Sand pack interval:		
23.0				Material —Pea Gravel		
						1
24.0						
25.0						
26.0						
NOTES: M	EASURING POINT ELEV					
		MIUNS MAY CHAN	GE; REFER T	O CURRENT ELEVATION TA	BLE	

State of Wis., Dept. of Natural Resources dnr.wi.gov

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## Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

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and the second second second second second second second second second second second second second second second

Verification Only of Fill and Seal	Route to:		Watershed/Wa	istewater	X Remed	ation/Redevelopment
	Waste Managemer	nt 🛄	Other:			
1. Weil Location Information		2. Facility	/ Owner Info	ormation		
County WI Unique Well # of # iRemoved Well	licap #	Facility Nam	e			
MARATHON						
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions)		0 or PWS)			
° · 'N		License/Per	mit/Monitoring	#		
• . 'w			in a morning	T		
1/2 NW 1/2 NW Section Town	nshin Range on c	Original Wel	Owner			
or Gov't lot # 25 2		WAUSA	U CHEMI	CAL		
Well Street Address		Present Wei	l Owner			
2001 N. RIVER DRIVE		WAUS	AU CHEMO			
Well City, Village or Town	Well ZIP Code	Mailing Addr 2001	ress of Present N RTV	Owner ER DRIVE		
WAUSAU	54402-0953	City of Deser			- <u>Io</u>	
Subdivision Name	Lot #	WAUS	AU		WT	21P Code 54402-095
		A Pump I	Inor Sereer	Cooling R Soo	line Moto	
Reason For Removal From Service WI Unique Well	# of Replacement Well	v. rump, t	-1101, 301001	, casing a sea		
NOT IN SERVICE	<u> </u>	Pump and	t piping remov	ed?	Ц	Yes LINO KAIN/
3. Well / Drillhole / Borehole Information	<u> </u>	Liner(s) re	emoved?			Yes HNo KAN
Monitoring Well 0700 12/13/19	n Date (mm/dd/yyyy)	Screen re	moved?			Yes ∐No ∐N/
Water Well		Casing le	ft in place?			
Borehole / Drillhole   please attach.	on Report is available,	Was casir	ng cut off below	v surface?	لھا الھا	Yes UNo AN
Construction Type:		Did sealin	ig material rise	to surface?		Yes UNo UN/
X Drilled Driven (Sandpoint)		Did mater	ial settle after :	24 hours?		Yes 🗠 No 🖵 N/
Other (specify):		If bentonit	e chips were us	ppea <i>?</i> sed. were they hyd	تلسا محمه trated	Yes 니No 신N/
Exercise Type:		with water	from a known	safe source?	<u>الم</u>	Yes LINO LIN/
	-1		ctor Pine-Gravit		- Dian Duma	
Total Well Dopth Ecom Ground Surface (# ) Casing 5		X Screen	ed & Poured		ripe-rump	ea
.5, 8.5 & 11.5 (NESTED)	Sameter (m.)	(Bentor	nite Chips)		alain):	
Lower Drillhole Diameter (in.) Casing [	) Depth (ft.)		ement Grout	Г		d Slume (11 lb /mal
3.5	, 7.5 & 10.5		Cement (Concre	ate) Grout		-Sand Slurry " *
Was well applying space grouted?			te	x,, X	Bentonite	Chips
Was wen annual space grouted?		For Monitorin	ng Wells and M	onitoring Well Bor	eholes Only	····•
if yes, to what depth (reet)? Depth to wate $2555-6585-95$ NOT $\Delta P$	TICARLE	Benton	ite Chips	🔲 Bento	onite - Ceme	ent Grout
		Granul	ar Bentonite	Bento	onite - Sand	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards Sack	Sealant	Mix Ratio or Mud Weight
HOLE PLUG		Surface	4.5			
HOLE PLUG		Surface	8.5		- <u></u>	
HOLE PLUG		Surface	11.5	0.5		
6. Comments						<u> </u>
SOIL GAS PROBE (GPN-16) TH	IREE PROBES N	IESTED	IN SAME	BOREHOLI	Ξ	<u> </u>
7. Supervision of Work				Ţ.	DNR Use	Only
Name of Person or Firm Doing Filling & Sealing Lice	ense # Date of Fil	ling & Sealing	) (mm/dd/yyyy	) Date Received	Not	ed By
BOART LONGYEAR 6	189   09/04	4/2008				
Street or Route	Те	lephone Num	nber	Comments	·	<u> </u>
101 ALDERSON ST.	(7	715)359	-7090			
101 ALDERSON ST.	ZIP Code	715) 359 Signature of	-7090 Person Doing	Work	Dat	e Signed

		RUEN)		(L+)
PROJE	ECT NAME: WAUSAU WATER SUPPLY NPL SITE		HOLE DESIGNATION	
PROJ	ECT NO.: 3978		DATE COULDEDIGNATION: GP	N-16 ige 1 of 2)
CLIEN	T: WAUSAU PRP GROUP		DATE COMPLETED: DE	CEMBER 13, 19
LOCA	TION: WAUSAU CHEMICAL		DRILLING METHOD: 4 1	/4" ID HSA
NEDTU			CRA SUPERVISOR: P.	KUCK/M. PHILI
ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	SAMPLE
		ft BGS	INSTALLATION	
	CD 01110 (-			
	SP-SAND(FILL), little fine gravel, fine grained, brown			REE
-1.0	SP-SAND(3M FILL), very fine grained, gray	-0.5	GEN TONOTE	
	- trace fine around G-		CHIPS	155 V .7
2.0	gray		STAINLESS	
2.0			DE SILEL CASING	
3.0			SAND PACK	255 W _
			PEA CRAVE	
4.0				
			WELL SCREEN	
5.0				
			BOREHOLE	
6.0	- brown			·  /\
			CHIPS	H
7.0				
-			SAND PACK	455 100
80			PEA GRAVEL	
				Ц
	roots little clay, trace fine gravel, black,	-8.3	A COLOR MALE SURGER	
a.0				SSS V
			BENTONITE	3 1 20
10.0			CHIPS	
			SAND PACK	H
1.0			PEA GRAVEL	
			WELL SCREEN	
2.0				
	LINU OF HOLE @ 12.0 FT. BGS	-12.0	تـــمـــــ	
3.0				
-	· · · ·			
NOTE	S: MEASURING POINT ELEVATIONS			
	CUENION FORT ELEVATIONS MAY CHANGE	REFER TO	CURRENT ELEVATION TAB	LE

			STRATIC	PHIC AND I (OVERB	NSTRUME URDEN)	NTATION 1 3		(L-	-90)
PROJEC PROJEC CLIENT LOCATI	CT NAME: CT NO.: : ON:	WAUSAU 3978 WAUSAU WAUSAU	WATER SUPP PRP GROUP CHEMICAL	PLY NPL SITE	·	HOLE DESIGNATION: GP (Po DATE COMPLETED: DEC DRILLING METHOD: 4 1 CRA SUPERVISOR: P.	N-16 Dge 2 o CEMBER I/4" ID KLICK/N	f 2) 13, 19 HSA I. PHIL	993 LLIP:
DEPTH ft BGS	STRATIGR	APHIC DE	SCRIPTION &	REMARKS		MONITOR	S/	MPLE	
									P I D
· 14.0						SCREEN A DETAILS: Screened Interval: 10.5 to 11.5' BGS Length -1.0' Diameter -1/2"			
16.0			. •			Slot # Drilled 3/32*ø Holes—1/2* on Center Material —Stainless Steel Sand pack interval: 10.5 to 12.0' BGS Material —Pea Gravel			
17.0 18.0						SCREEN B DETAILS: Screened Interval: 7.5 to 8.5' BGS Length -1.0' Diameter -1/2" Slot # Drilled 3/32"ø			
19.0 20.0						Holes—1/2° on Center Material —Stainless Steel Sand pack interval: 7.0 to 9.0° BGS Material —Pea Gravel SCREEN C DETAILS			
21.0						Screened Interval: 3.5 to 4.5' BGS Length -1.0' Diameter -1/2" Slot # Drilled 3/32"ø Holes-1/2" on Center			
22.0						Material – Stainless Steel Sand pack interval: 3.0 to 5.0' BGS Material –Pea Gravel			ļ
24.0									
25.0									
26.0									
NOTES	<u>5:</u> ме. Сі	ASURING	POINT ELEVAT	IONS MAY CHAN	GE; REFER 1		BLE		

State of Wis., Dept. of Natural Res dnr.wi.gov	ources				۱ F	Nell / Dri	Ilhole / Bor	ehole Filli	ng & Sealing
Notice: Completion of this report is with chs. 281, 289, 291-293, 295, year, depending on the program a form to the appropriate DNR office	required by ( and 299, Wis nd conduct in and bureau.	chs. 160, . Stats., fa volved. F See instr	281, 283, 28 ailure to file t Personally id ructions on r	39, 291-293 his form m entifiable in everse for	3, 295, and 29 ay result in a formation on more informat	9, Wis. Stats forfeiture of b this form is n tion.	., and ch. NR 14 etween \$10-25,0 ot intended to be	1, Wis. Adm. C 100, or imprisor 9 used for any c	ode. In accordance ment for up to one other purpose. Return
Verification Only of Fill	and Seal	F	Drinking	) Water Manageme	nt	Watershed/W	Vastewater	X Remedi	iation/Redevelopment
1. Well Location Information	··		•		2. Facility	/ Owner In	formation		· · · · · · · · · · · · · · · · · · ·
County WI Un	que Well # o	of Hid	cap #		Facility Nam	e		<u></u>	
	ved Well								
Lattitude / Longitude (Degrees an	d Minutes)	Method C	ode (see in	structions)	Facility ID (F	ID or PWS)			
	'N				/ J / I C		o #	· · · · · · · · · · · · · · · · · · ·	
• .	·w				LICENSE/ EN		y#		
7/1/2 NW 1/4 NW	Section	Towns	hip Rang	e rom c	Original Wel	Owner			
or Gov't Lot #	25	29	) N	· [].	WAUSA	U CHEM	IICAL		
Well Street Address 2001 N. RIVER DR	IVE	<b>_</b> ,			Present Wel WAUS	Owner AU CHEN	ICIAL		
Well City, Village or Town WAUSAU			Well ZIP Co 54402	-0953	Mailing Addr 2001	N. RI	nt Owner VER DRIV	E	
Subdivision Name			Lot #		City of Prese WAUS	ent Owner AU		State WI	ZIP Code 54402-0953
Reason For Removal From Servi	ce Wi Uniqu	ue Well #	of Replacen	nent Well	4. Pump, L	iner, Scree	en, Casing & S	ealing Mater	rlal
NOT IN SERVICE					Pump and	piping remo	oved?		
3. Well / Drillhole / Borehole	Informatio	n			Liner(s) re	emoved?			
Monitoring Well	Original Cor	nstruction	Date (mm/o	ld/yyyy)	Screen re	moved?		X	Yes No N/A
Water Well	12/1	0/193			Casing le	ft in place?		<u>L</u>	Yes XNO N/A
Borehole / Drillhole	If a Well Co please attac	nstruction	n Report is a	vailable;	Was casir	ng cut off bel	ow surface?	· ر	
Construction Type:					Did sealin	ig material ris	se to surface?		
X Drilled Driven (	Sandpoint)	Г	Dug		Did mater	ial settle afte was hole rej	r 24 hours?		Yes 🗠 No 🖵 N/A
Other (specify):					If bentonit	e chips were	used, were they	hydrated 1771	Yes LINo LANA
Formation Type:					Required Me	thod of Placin	n sate source?	ial	Yes LINO LIN/A
X Unconsolidated Formation	ſ	Bedrock	c		Condu	ctor Pipe-Gra	vity Conduc	tor Pipe-Pump	ed
Total Well Depth From Ground Se	urface (ft.) C	asing Dia	ameter (in.)		Benton	ed & Poured	Other (I	Explain):	
4.5 & 8.5 (NESTEI	)	0.5			Sealing Mate	rials			
Lower Drillhole Diameter (in.)	c	asing De	pth (ft.)		Neat C	ement Grout		Clay-Sand	f Slurry (11 lb./gal. wt.)
		3.5 0	<u>x /.5</u>		Sand-C	Cement (Cond	crete) Grout	Bentonite	Sand Slurry "
Was well annular space grouted?	X,	res L		Unknown		te na Molio and i	Monitoring Moll	Bentonite	Chips
If yes, to what depth (feet)? 0 − 2 . 5 & 5 − 6 . 5	Depth NO	to Water Γ ΑΡΡ	(feet) LICABI	ĿΕ	Benton	ite Chips		entonite - Ceme	ent Grout
5. Material Used To Fill Well / [	 Drillhole		·		Erom (# )	To (# )	No. Yards	icks Sealant	Mix Ratio or
HOLE PLUG	· · · · ·		<u> </u>		Surface	4.5	or. Volume (	circle one)	Mud Weight
HOLE PLUG					Surface	8.5	0	25	<u>_</u>
					Jullace				<b> </b>
6. Comments	·				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	L		1
SOIL GAS PROBE (	GPN-17	) TWC	PROBI	ES NES	STED IN	SAME	BOREHOLE	<u> </u>	
7. Supervision of Work			· · · · · · · · · · · · · · · · · · ·			· · ·		DNR Use	Only
Name of Person or Firm Doing Fi BOART LONGYEAR	ling & Sealin	g Licen: 61	se # 8 9	Date of Fil 09/0	ling & Sealing 3 / 2008	) (mm/dd/yyy	y) Date Receive	ed Not	ed By
Street or Route 101 ALDERSON S'	г. — — — — — — — — — — — — — — — — — — —			Te ('	lephone Num 715) 359	ber - 7090	Comments	<u>_ k</u>	
City		State	ZIP Code		Signature of	Person Doin	g Worker	Date	e Signed
SCHOFIELD		WI	54476				111/201	2	[-a-09

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	OVER	INSTRUMENTATION 1 3 BURDEN)	(L-s
PROJEC	T NAME: WAUSAU WATER SUPPLY NPL SITE		
PROJEC	CT NO.: 3978	HOLE DESIGNATION: G	PN-17
CLIENT:	WAUSAU PRP CROUP	UAIE COMPLETED: D	ECEMBER 10, 19
LOCATIO	ON: WAUSAU CHEMICAL	DRILLING METHOD: 4	1/4" ID HSA
DEPTHI	STRATICPARHIC DESCORPORT	CRA SUPERVISOR: P.	KLICK
ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION MONITOR	SAMPLE
		IL BUS INSTALLATION	
	TORSON	Pit +	
	SP-SAND, trace silt, little fine groupt fine	-0.2	
-1.0	grained, brown, moist		
		CHIPS	
÷ -			
- 2.0		STAINLESS	
		STEEL CASING	
- 3.0		SAND PACK	
- 4.0		dinie Pack	
1		WELL SCREEN	
- 5.0		BOREHOLE	
		×	
6.0		BENTONITE	
		· · · · · · · · · · · · · · · · · · ·	
7.0		SAND PACK	
80		GRAVEL PACK	
0.0			
	· · ·	WELL SCREEN	
9.0	END OF HOLE @ 9.0 FT. BGS	-9.0	
l			
10.0		Screened interval: Screened	3 DETAILS:
		7.5 to 8.5' BGS 3.5 to 4	4.5' BGS
11.0		Diameter -1/2" Length -	1.0'
		Slot # Drilled 3/32"# Slot # Dr	illed 3/32"ø
100		Material -Stainless Steel Material -	/2° on Center -Stainless Steel
12.0		7.0 to 9.0' BGS	k interval:
		Material —Pea Gravel Material -	-Pea Gravel
13.0			
NOTES	MEASURING POINT ELEVATIONS MAY CHA	NGE REFER TO CURRENT ALTON	

State of Wis., Dept. of Natural Resources dnr.wi.gov						Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08)						
Notice: Completion of this rep with chs. 281, 289, 291-293, year, depending on the progr form to the appropriate DNR	port is required by ( 295, and 299, Wis am and conduct in office and bureau.	chs. 160 . Stats., voived. See ins	, 281, 283 failure to f Personal tructions	3, 289, 291- file this form ly identifiabl on reverse f	293, 295, and 2 may result in a e information o or more inform	99, Wis. Stats forfeiture of t this form is r ation.	s., and ch. NR 141 between \$10-25,0 not intended to be	, Wis. Adm. C 00, or imprison used for any c	Code. In accordance nment for up to one other purpose. Return			
Verification Only o	f Fill and Seal			king Water ste Manager	nent	] Watershed/\ Other:	Wastewater	X Remed	iation/Redevelopment			
1. Well Location Inform	ation	L			2 Facilit		formation					
County	VI Unique Well # o	f H	icap #	·····	Facility Na	ne						
MARATHON	Removed Well											
Lattitude / Longitude (Degre	es and Minutes)	Method	Code (se	e instruction	Facility ID (	FID or PWS) 05820	· · · · · · · · · · · · · · · · · · ·		<u> </u>			
°	·w				License/Pe	rmit/Monitorin	ng #	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
%/% NW % NW	Section	Town	ship Ri	ange XI	Original We WAUS	NOWNER	 ИТСАТ.					
or Gov't Lot #		2	⁹ N	<u> </u>	V Present W							
Well Street Address 2001 N. RIVER	DRIVE				WAUS Mailing Add	AU CHEI	MCIAL					
Well City, Village or Town WAUSAU			Well ZIF 544(	• Code 02 - 095	3 2001	L N. RI	VER DRIVI	Ξ				
Subdivision Name			Lot #		City of Pres	ent Owner SAU		State WI	ZIP Code 54402-0953			
Reason For Removal From	Service WI Uniqu	ue Well #	↓ ≠ of Repla	cement We	4. Pump,	Liner, Scre	en, Casing & S	ealing Mate	rial			
NOT IN SERVICE			·		Pump ar	d piping remo	oved?					
3. Well / Drillhole / Bore	hole Informatio	n			Liner(s)	removed?						
Monitoring Well	Original Con	struction	n Date (m 93	m/dd/yyyy)	Screen	emoved?		X				
Water Well	Water Well				Casing l	→ <u>Casing left in place?</u>						
Borehole / Drillhole	please attac	nstructio ch.	п кероп	is available,	Was cas	ing cut off bel	low surface?	, L				
Construction Type:	•				Did seal	ng material ri	se to surface?		Yes INO IN/A			
X Drilled Dr	iven (Sandpoint)	[	Dug		lf ye	s, was hole re	er 24 nours?					
Other (specify):					- If benton	ite chips were	used, were they h	nydrated XI.				
Formation Type:					Required M	ethod of Placi	ng Sealing Materia	al				
X Unconsolidated Forma	tion	Bedroc	k		Cond	uctor Pipe-Gra	wity 🔲 Conduc	tor Pipe-Pump	ed			
Total Well Depth From Grou	nd Surface (ft.) C	asing Di	iameter (i	n.)	(Bento	ned & Poured onite Chips)	Other (E	xplain):	· · · · · · · · · · · · · · · · · · ·			
4.5 & 0.5 (NES		0.5			Sealing Mat	erials						
Lower Dhimole Diameter (in	., L	asing Di 3.5	eptn (π.) & 7.5	5		Cement Grout			Slurry (11 lb./gal. wt.)			
Was well annular soace grou	uted 2 X	/es [				ete	crete) Grout	Bentonite-	Sand Slurry " *			
If ves, to what depth (feet)?	Depth I	o Water	(feet)		For Monitor	ing Wells and	Monitoring Well B	oreholes Only	:			
0-2.5 & 5-6.5	NON	C API	PLICA	BLE	Bento	nite Chips Iar Bentonite	L Bei Bei	ntonite - Ceme ntonite - Sand	ent Grout Slurry			
5. Material Used To Fill W	ell / Drillhole				From (ft.)	To (ft.)	No. Yards Sa	cks Sealant	Mix Ratio or			
HOLE PLUG					Surface	4.5	or volume ju		wind weight			
HOLE PLUG					Surface	8.5	0.	5				
6. Comments												
SOIL GAS PROBE	E (GPN-18)	) TW	O PRC	BES N	ESTED IN	I SAME	BOREHOLE					
7. Supervision of Work							· · · · · · · · · · · · · · · · · · ·	DNR Use	Only			
Name of Person or Firm Doi BOART LONGYEAF	ng Filling & Sealin	g Licer 61	ise # .8.9	Date of 09/	Filling & Sealir 04/2008	g (mm/dd/yyy	y) Date Receive	d Note	ed By			
Street or Route					Telephone Nur	nber	Comments	I`				
	<u> </u>	State			(715) 359	-7090						
SCHOFIELD		WI	544	ue 76	Signatura o	Person Doin	g Work	Date	e Signed			

• · · · ·

	OVER	INSTRUMEI RBURDEN)	NTATION 3	(L-92)
PROJE	CT NAME: WAUSAU WATER SUPPLY NPL SITE	,	HOLE DESIGNATION CON	
PROJE	CT NO.: 3978		DATE CONBLETTO: DESC	-18
CLIENT	WAUSAU PRP GROUP		DRILLING NETHOD	.MBER 9, 1993
LOCAT	ION: WAUSAU CHEMICAL		CRA SUPERVISOR: P. K	4" ID HSA LICK
DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	SAMPLE
		IT BGS	INSTALLATION	N S N F
	SP-SAND, trace silt, trace fine and course	-0.3	A H ROAD BOX	
- 1.0	gravel, fine grained, brown, moist			
- 2.0			9ENTONITE	
	· · · ·			
- 3.0			1/2"0	
			STEEL CASING	
- 4.0			GRAVEL PACK	
- 5.0			BOREHOLE	
- 6.0			BENTONITE CHIPS	
. 7 0			8 8889	
7.0			SAND PACK	
-80	· · · · · · · · · · · · · · · · · · ·		GRAVEL PACK	
0.0			WELL SCREEN	
9.0				
	END OF HOLE • 9.0 FT. BGS	-9.0		0
10.0		SCREEN A D	ETAILS: SCREEN B (	ETAILS:
-		7.5 to 8.5' Length -1.0	BGS 3.5 to 4.5	lerval: BGS
11.0		Diameter -1 Slot # Driller	$/2^*$ Diameter $-1.0$	l/2"
	· · · · ·	Holes-1/2" Moterial -St	on Center Holes-1/2	d 3/32°ø ' on Center
12.0	· .	Sand pock in	nterval: Sand pack i	ainless Steel nterval:
		Material -Pe	a Gravel Material —Pi	BGS sa Grav <del>el</del>
13.0			·	
NOTE				
	MEASURING POINT ELEVATIONS MAY CH	ANGE; REFER T	O CURRENT ELEVATION TAB	-E

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State of Wis., Dept. of Natural Resources dnr.wi.gov								Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2						
Notice: Completion of this rep with chs. 281, 289, 291-293, 2 year, depending on the progra form to the appropriate DNR of	ort is requi 295, and 29 am and cor office and t	ired by c 99, Wis. nduct inv bureau.	hs. 160 Stats., olved. See ins	, 281, 2 failure Persor struction	283, 289, to file this nally iden ns on rev	, 291-2 s form ntifiable /erse f	293, 295, and may result in information or more infor	d 29 n a on ma	99, Wis. Stats forfeiture of be this form is no tion.	, and ch. NR 14 etween \$10-25, ot intended to be	1, Wis. Adm. 200, or impriso a used for any	Code. In accordance onment for up to one other purpose. Return		
Verification Only of	Fill and	l Seal			το: rinking V /aste Ma	Vater			Watershed/W	astewater	X Reme	diation/Redevelopment		
1 Well Location Informa	tion						b Fari		Otner:					
County	'I Unique V	Nell # of	H	licao #			Eacility N	lam	Uwner int	ormation				
MARATHON	emoved W	/ell						(CIIII)						
Lattitude / Longitude (Degree	es and Min	nutes) N	lethod	Code (	see instr	ruction	Facility IC	) (F 1(	D or PWS)	<u></u>				
· · · · · · · · · · · · · · · · · · ·		- ' N · w					License/	Peri	mit/Monitoring	) #		···· · · · · · · · · · · · · · · · · ·		
1/4 NW 1/4 NW	Sec	ction	Town	ship	Range	1071 6	Original \	Wel	Owner	·				
or Gov't Lot #		25	2	9 _N		四、	V WAU	SP	U CHEM	ICAL				
Well Street Address 2001 N. RIVER	DRIVE	;			<u> </u>		Present V WAU	Vel JS2	Owner AU CHEM	CIAL				
Well City, Village or Town WAUSAU		••••••••••••••••••••••••••••••••••••••		Well 54	ZIP Cod 4 0 2 - (	e 095	- Mailing A 20( 3	01	N. RIV	It Owner VER DRIV	E			
Subdivision Name				Lot #			WA	US	ant Owner SAU		State WI	ZIP Code 54402-0953		
Reason For Removal From S	Service M	VI Uniqu	e Well i	# of Re	placeme	nt Wel	4. Pum	p, l	liner, Scree	n, Casing & S	Sealing Mate	erial		
NOT IN SERVICE				;			Pump	and	d piping remov	ved?				
5. Weit / Drinklole / Borer		mation	struction	n Date	(mm/dd/	6000A		s) re	emoved?		L			
Monitoring Well	Monitoring Well 12/09/1993				Casing	Casing left in place?								
Water Well If a Well Construction Report is available.						Was c	asir	na cut off belo	w surface?	<u>_</u>	Vas DNa XINIA			
Borehole / Drillhole	plea	se attac	h.	<u> </u>			Did se	alin	g material rise	e to surface?	X			
	ion (Canda		г				Did ma	ater	ial settle after	24 hours?				
	ven (Sandt	poi <b>n</b> t)	L	] Dug	J		lf y	es,	, was hole reto	opped?	budented [	] _{Yes} □ _{No} ⊠ _{N/A}		
Earmation Turos							- with wa	ater	from a known	safe source?	Tydrated X			
X Unconsolidated Formati			Deduce					Me	thod of Placing	g Sealing Mater	ial Marchine D			
Total Well Depth From Groun	nd Surface		asing D	ж iamete	r (in.)			een ntor	ed & Poured nite Chips)	Other (	Explain):			
4.5 & 0.5 (NES			0.5				Sealing N	fate	rials					
Lower Drianole Diameter (In.)	,		3.5	epm (m & 7	.5			Sand-Cement (Concrete) Grout						
Was well annular space grou	ted?	Х _ү	es [		Uu	nknow		ncre	te		Bentonita	e Chips		
If yes, to what depth (feet)? $0-2.5 \& 5-6.5$		Depth to NOT	Water API	(feet) PLIC	ABLE	2	Bentonite Chips Bentonite - Cement Grout							
5. Material Used To Fill We	ell / Drillho						From (fl		To (ft )	No. Yards S	entonite - San acksSealant	d Slurry Mix Ratio or		
HOLE PLUG			<u>`</u>	<u> </u>			Surfac	е, е	4.5	or Volume	circle one)	Mud Weight		
HOLE PLUG							Surfac	ce	8.5	1		<u> </u>		
6. Comments												1		
SOIL GAS PROBE	(GPN	1-19)	TW	O PF	ROBES	5 NE	ESTED I	IN	SAME E	OREHOLE	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
7. Supervision of Work	•	· ·					· · · · · ·			· · · · · · · · · · · · · · · · · · ·	DNR Her	Only		
Name of Person or Firm Doin BOART LONGYEAR	g Filling &	Sealing	Licer	1se # .89	Da	ate of 09/	Filling & Sea	iling 8	) (mm/dd/yyyy	) Date Receive	ed No	oted By		
Street or Route 101 ALDERSON	ST.				I		Telephone N	lum	ber	Comments	<b>_</b>			
City			State	ZIP (	Code		Signature	of	Person Doing	Work	Da	ite Signed		
			ΜT	154	4/6		$ \rightarrow  $		me	111/20	1-	- 6-8-09		

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	STRATIC	PHIC AND	INSTRUME BURDEN)	NTATION	3		(L-9	)3)
PROJECT NA	ME: WAUSAU WATER SUP	PLY NPL SITE		HOLE DES		PN_10		
PROJECT NO	.: 3978			DATE COM				
CLIENT:	WAUSAU PRP GROUP	כ					( 9, 19	193
LOCATION:	WAUSAU CHEMICAL			CRA SUPE	RVISOR: P.		HSA	
DEPTH STRA	TICRAPHIC DESCRIPTION	& REMARKS	ELEVATION	MONITO	R	SA	MPLE	
			ft BGS	INSTALLA	TION	N S	<u>'</u> Ø'	P 1
82	SAND			┍҄ӏ҅Ѧ҅҅҅Ӫ			Î Î	
grain	SAND, some fine grovel, ned, brown, moist	trace silt, fine					- E	(ppn
1.0					BENTONITE CHIPS			
2.0					1/2°# Stainless Steel Casing			
3.0			· .		SAND PACK			
4.0					RAVEL PACK			
					MELL SCREEN			
5.0					BOREHOLE			0
6.0					ientonite Hips			
7.0				s	AND PACK			
8.0					ELL SCREEN			
9.0 END	OF HOLE @ 9.0 FT. B	GS	-9.0					0
10.0			SCREEN A D Screened Int 7.5 to 8.5	<u>DETAILS:</u> terval: BGS	SCREEN B Screened   3.5 to 4.	DETAILS Interval: 5' BGS		
11.0			Diameter -1 Slot # Drille Holes-1/2	d 3/32"ø on Center	Length —1 Diameter - Slot # Dril Holes—1/	.0" -1/2" led 3/3: 2" an C	2°¢ enter	-
12.0			Material —St Sand pack i 7.0 to 9.0' Material —Pe	tainless Steel nterval: BGS sa Gravel	Material – Sand pack 3.0 to 5. Material	Stainless Interval O' BGS	Steel	I
13.0							VGI	
NOTES:	MEASURING POINT ELEV	ATIONS MAY CHA	NGE; REFER 1	O CURRENT EL	EVATION TA	BLE		
	CHEMICAL ANALYSIS			STATIC WATE	יתיים אובעיבו ש			

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