

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 63-31183

Priority: January 24, 2001

Maximum Diversion Rate: 9.13 CFS

It is hereby certified that MICRON TECHNOLOGY INC
PO BOX 6

BOISE ID 83706 has complied with the terms and conditions of the permit,
issued pursuant to Application for Permit dated January 24, 2001; and has submitted Proof of Beneficial
Use on January 31, 2012. An examination confirms water is diverted from:

SOURCE

GROUND WATER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
IRRIGATION	03/01 to 11/15	0.80 CFS
INDUSTRIAL	01/01 to 12/31	9.13 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SE1/4SW1/4 Sec. 6, Twp 02N, Rge 03E, B.M.	ADA County
GROUND WATER	SW1/4NE1/4 Sec. 7, Twp 02N, Rge 03E, B.M.	ADA County
GROUND WATER	L2 (SW1/4NW1/4) Sec. 7, Twp 02N, Rge 03E, B.M.	ADA County
GROUND WATER	NE1/4SW1/4 Sec. 7, Twp 02N, Rge 03E, B.M.	ADA County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N 03E 6									.3	0.4	3.4	3.6			2.6		10.3
02N 03E 7		8.1	2.5		2.7	4.0		6.7	2.4			0.8		1.2	1.1		29.5

Total Acres: 39.8

PLACE OF USE: INDUSTRIAL

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N 03E 6											X	X			X		
02N 03E 7		X	X		X	X		X	X					X			

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CONDITIONS OF APPROVAL

1. The water right holder must comply with the measuring and reporting requirements of the Southeast Boise Groundwater Management Area (SEBGWMA) and any management plan adopted by the director.
2. Water diverted from the points of diversion for this right, identified as Micron well nos. 3 through 6, shall be considered water authorized for withdrawal under other existing water rights to their full extent, as deliverable, unless otherwise requested by the water right holder.
3. In the event of water right curtailments in the SEBGWMA, out-of-priority diversions may be allowed under this right to the extent that (1) the diversions under this right are mitigated by groundwater recharge activities, and (2) diversions under this right do not injure senior water rights through direct well interference.
4. When mitigation is required, the entire volume of water injected by the right holder into the SEBGWMA aquifer for ground water recharge pursuant to right 63-12420 or pursuant to diversions of storage water, up to the total amounts authorized by this right, can be diverted from the aquifer under this right during the calendar year it is injected. Water not diverted during the year it is injected can be carried over for future withdrawal and beneficial use associated with this right. The volume authorized for withdrawal will be reduced by 10% each calendar year following the first calendar year the water is injected.
5. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.
6. If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert groundwater shall not be used for irrigation purposes without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
7. This right when combined with all other rights for irrigation purposes shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 179.1 af at the field headgate for the irrigation place of use.
8. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
9. Irrigation use under rights 63-8992, 63-10221, and 63-31183 when combined shall not exceed a total annual maximum diversion volume of 450.0 af at the field headgate, and the irrigation of 100 acres.
10. Industrial use is for semiconductor and related manufacturing.
11. Industrial use under right 63-31183 shall not exceed a total annual maximum diversion volume of 3200 af.

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12. Rights 63-8992, 63-9029, 63-9357, 63-10208, 63-11293, and 63-31183 when combined shall not exceed a total diversion rate of 9.55 cfs, and a total annual maximum diversion volume of 4506.7 af.
13. The following rights are diverted through point(s) of diversion described above: 63-8992, 63-9029, 63-9357, 63-10208, 63-11293, and 63-31183.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 23rd day of June, 2015.


Shelley W. Keen
for GARY SPACKMAN
Director



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 25, 2015

MICRON TECHNOLOGY INC
PO BOX 6
BOISE ID 83706

RE: License No. 63-31183

Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-287-4951.

Sincerely,

Pamela Skaggs
Water Rights Supervisor

Enclosure(s)

CERTIFICATE OF SERVICE

I hereby certify that on June 26, 2015, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (**Approved License**) to the person(s) listed below:

RE: WATER RIGHT NO.

63-31183

**MICRON TECHNOLOGY INC
PO BOX 6
BOISE ID 83706**

A handwritten signature in black ink, reading "Darla Block", written over a horizontal line.

**Darla Block
Technical Records Specialist**

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

MEMORANDUM

Date: May 15, 2015
To: Water Right File 63-31183
From: Michele Edl
Re: licensing review

Application for permit 63-31183 was submitted in conjunction with application for transfer 68944. The development/completion period of both applications were extended. Completion of transfer 68944 was extended to February 21, 2006. Among other actions, the transfer tied four wells into a single system which is has combined limits.

Proof of Beneficial Use for this permit was due February 1, 2012. Terry M. Scanlan, of SPF Engineering completed the field examination on August 20, 2008.

Applicant

The applicant is Micron Technology, Inc. ISOS identifies the applicant as C75914. The Proof of Beneficial Use statement was signed by Marty Lindgren, the facilities manager at that time. It was received in the State office on January 31, 2012 and was accompanied by Mr. Scanlan's field exam report.

According to Ada County taxlot information the four authorized PODs are within property owned by the permit holder.

Source and POD

GW is the source.

The examiner found that the four points-of-diversion, known as well 3, well 4, well 5 and well 6 were utilized by five other water rights. However, not all four wells are authorized as PODs by all five rights.

Decreed water right #63-8992 authorizes 6 PODs including wells 3 - 6

Decreed water right #63-9029 authorizes 6 PODs including wells 3 - 6

Decreed water right #63-9357 authorizes 3 PODs: well 3, well 4 and well 5.

Decreed water right #63-10208 authorizes 3 PODs: well 3, well 4 and well 5.

Decreed water right #63-11293 authorizes 3 PODs: well 3, well 4 and well 5.

I selected existing spatial data points as the best location representations for the four PODs.

I found no information indicating that the other two wells: the Oregon Trail well (WMIS #900428) and the Gowen well (WMIS #900410), have been decommissioned. Therefore, I assume that they are still providing water to some of the Micron complex. I understand that the Oregon Trail well and the Gowen well are not integrated into the system which is common to wells 3 - 6.

Water Use

The examiner found and recommended that only industrial and irrigation uses had been developed under this permit. The companion transfer 68944 acted on decreed right 63-8992, changing the NOU from municipal to industrial and irrigation, and changing the POD and POU locations.

Industrial Use

The examiner provided a large, 310-acre place-of-use map for the industrial use which I recreated as an ArcMap shp file. The industrial use appears to overlap WR #s 63-8992 (industrial and irrigation uses), 63-9029 (industrial use), 63-9357 (fire protection and industrial uses), 63-10208 (domestic and industrial

uses), 63-11293 (industrial use) and 63-12420 (ground water recharge and industrial uses).

Irrigation Use

The examiner recommended 38.9 acres for irrigation use and provided three pieces of documentation. He provided a large 541-acre place-of-use map (some of the taxlots included in the map do not belong to Micron), a second map with yellow highlighted areas identifying the many places-of-use and a list of the irrigated acres within each quarter-quarter on the PLS grid.

Exact irrigation overlap is difficult to identify without specific shapes but the irrigation use for this right overlaps the irrigation use for decreed right 63-8992, and for licensed right 63-10221. Although the Micron campus and its landscaping has expanded to the south and east of the original buildings, the total irrigation acreage found by the examiner in 2008 is less than the 100 acres that transfer 68944 had authorized. The examiner found 10.3 acres irrigated in section 6 compared to 39.0 acres authorized by transfer 68944. He found 29.5 acres irrigated in section 7 compared to 57 acres authorized by the transfer. And he found no irrigation in section 18. That latter portion of the transferred irrigation use appears to have been abandoned.

Other Uses of Water

The examiner's report is silent about other water uses on the Micron campus. However, in an overlap review I found other uses associated with the PODs and POUs which need to be reviewed and updated.

Irrigation Storage Use

The places-of-use for licensed water right 63-10221 have changed. Aerial photography shows that the small irrigation place-of-use for 63-10221 is now covered by this right and that the irrigation storage place-of-use has been moved from its authorized location in lot 1 (NWNW) and NENW to a new location in NENW and NWNE. I found no application for transfer which requests that change.

Domestic Use

It is not clear from the examiner's report if any of the wells still provide the domestic use authorized under decreed water right 63-10208. Evidence in the water right files indicates that domestic water is now provided by a local water utility.

Rate

The examiner found a pumping system capable of providing a diversion rate sufficient for several of Micron's water rights. He measured and recommended a total rate of 9.13 cfs diverted from the production wells. The system is capable of delivering even more rate through variable-drive pumps.

The rate that the examiner recommends is not an additional increment of capacity. Rather it is based on the combined diversion from four interconnected wells: three production wells and a dual-purpose, injection and production well. The simple sum of the licensed or decreed diversion rates from the four interconnected wells is 9.55 cfs. A combined limit on the rate will be needed.

Volume

Irrigation Use

The examiner found that the irrigation place-of-use totaled 39.8 acres. He did not find a new increment of beneficial use. The places-of-use that he recommends appear to overlap those of water right 63-10221 for wastewater reuse, and decreed water right 63-8992 for 100 acres of irrigation.

I found no application to transfer the unused irrigation use to industrial use. Nor did I find an application to the water supply bank which would preserve unused irrigation portions of the two existing rights.

The irrigation use appears to be supplemental. Therefore, no irrigation volume will be listed on the face of the license. Instead, the license will display conditions for supplemental irrigation.

Industrial and Irrigation Uses Combined

The examiner recommended a volume of 3205.0 afa for this right. His recommendation is based on the maximum rate that he measured for the production well system and a calculation which assumes that the maximum rate is diverted continuously for the entire year. However, Micron Technology Inc. monitors and controls their water use with a SCADA system. The most accurate volume of water diverted by the four-well system would come from data queried from that SCADA system. I requested and received that data from Micron personnel on April 2, 2014. A review of the that data shows that in 2007, the permit holder had diverted ground water totaling 3195.7 acre-feet from the production well system. This is the maximum annual volume of water used during the development period and the volume I recommend for the license. (See the attached spreadsheet which summarizes the SCADA output provided by Jim Nielsen and/or Ricky Murray, of Micron's Water and Chemical Services).

Place of Use

I requested shape files from the examiner, but as of this date I have not received them. I created the POU shapes based on 2013 aerial photography and the examiner's POU maps. Portions of the large POU map for irrigation use are on property owned by others and as a consequence, do not represent the true place-of-use.

Status and Combined Use

The irrigation use is supplemental to surface water irrigation.

The simple sum of the authorized diversion rates for Micron's five existing ground water rights is 9.55 cfs. The rate developed under this permit is not an additional increment of capacity. Instead the rate for this right allows out of priority diversion and could be considered a replacement for the decreed rights. Therefore, I am recommending a combined rate limit of 9.55 cfs.

The maximum volume of ground water diverted and put to beneficial use within the development period of this permit appears to have been 3195.7 acre-feet, which was diverted in 2007. The simple sum of the annual volumes authorized by Micron's existing ground water rights is 4506.7 acre-feet. In his October 29, 2010 memo to this file, Bureau Chief Jeff Peppersack recommended a limit of 4507 acre-feet when this right is used in combination with the decreed rights. I concur and recommend 4507 acre-feet as the combined volume limit.

Compliance with Permit Conditions

Although this water right permit has some unusual conditions, it is in essence, no different than any other permitted ground water use. The unusual conditions outline a monitoring and mitigation plan for this appropriation.

Condition 8 ties this right to licensed right 63-12420 which authorizes diversion from the Boise River for ground water recharge. The field examiner, IDWR personnel and Micron personnel appear to believe that the water use permitted by this right is limited to the maximum amount of water injected into the aquifer, accrued and subsequently diverted and used. But that is not correct. The volume and rate of water for this right is limited to the maximum amounts shown to have been diverted and beneficially used during the development period. Those amounts don't differentiate the injected water from the resident ground water. Nor do they need to. Only in a time of curtailment will the injection accrual will be considered and only then to quantify an out-of-priority use.

The reporting requirements were problematic for both Micron and IDWR because they were assigned to named personnel who retired, moved on, etc., rather than to the water right file. At the time of this memo the permit holder has complied with both conditions 9 and 11. Those conditions do not appear to have a sunset date, so IDWR will need to plan on maintaining an archive of future reports.

Recommendations

I concur with the field examiner's recommendations for the rates on this license: 9.13 cfs as the total rate and 0.8 cfs for irrigation of 38.9 acres. ($0.02 \text{ cfs/acre} \times 38.9 \text{ acres} = 0.778 \text{ cfs}$ which rounds to 0.8 cfs.)

I disagree with the examiner's recommendation for volumes. No volume is needed for supplemental ground water irrigation.

I recommend a total volume of 3195.7 acre-feet based on the maximum annual volume water diverted during the development period.

I recommend that the right holder take steps to preserve the full rate and volume of their irrigation water rights by placing the unused portions in the water supply bank as soon as possible.

I also recommend that the right holder file a transfer to authorize the accomplished change in the place-of-use for right 63-10221.

Calendar Year	Injected Volume gallons	acre-feet	Accrued Volume Calc acre-feet	Diverted Volume gallons	acre-feet	convert factor 325850
proof submitted 1/31/2012						
2012						
2011	308,298,936	946	3600.0	634,345,328	1,947	
2010	191,069,481	586	2948.9	574,589,056	1,763	
2009	378,119,755	1160	2625.5	679,210,373	2,084	
2008	523,929,560	1608	1628.3	992,672,225	3,046	
2007	366,189,722	1124	3227.5	1,041,330,671	3,196	
2006	192,892,934	592	2337.3	939,657,729	2,884	
2005	136,579,317	419	1939.2	870,568,943	2,672	
2004	198,362,015	609	1689.1	834,994,438	2,563	
2003	256,571,098	787	1200.1	851,584,751	2,613	
2002	149,422,920	459	459	856,089,990	2,627	
permit approved 2/14/2002						
maximum						
SPF recommended this vol						
calculated accrual (see SPF exam)						

spreadsheet created by Michele Edl on May 15, 2015 for WR # 63-31183

Edl, Michele

From: Jim Nielsen (jcn Nielsen) [jcn Nielsen@micron.com]
Sent: Thursday, May 14, 2015 2:56 PM
To: Edl, Michele
Subject: RE: 63-31183 information for licensing
Attachments: Micron Well Data _2007_2011.xlsx; 2011 Water Measurement Annual Report to IDWR _Copy.docx

Hi Michelle,

Let me know if this doesn't cover the information you need.

Jim

From: Edl, Michele [<mailto:Michele.Edl@idwr.idaho.gov>]
Sent: Thursday, May 14, 2015 10:46 AM
To: Jim Nielsen (jcn Nielsen)
Subject: 63-31183 information for licensing

Mr. Nielsen,

IDWR needs a little information from you related to the licensing of right 63-31183. The development period of this right ended January 31, 2012. The field examiner recommended a volume which did not include data from 2011. I want to verify that the examiner recommended the maximum volume that he could have.

Thanks to a previous email from you, I have the injected volume for calendar year 2011. However, I don't have the diverted volume for 2011. It may not exceed the volume that was diverted in 2007 (3195.7 AF is the number to beat) but I would like to verify that with you before I recommend a license volume.

At your earliest convenience, please confirm that the volume diverted through Micron wells 3, 4 & 6 in 2011 was less than the volume diverted through those wells in 2007.

Thank you
Michele Edl

March 9, 2012

CERTIFIED MAIL # 7011 0470 0002 1526 4587

Angela M. Grimm
Water Resource Agent, Sr.
State of Idaho, Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RE: 2011 Water Measurement Annual Report

Dear Ms. Grimm:

Enclosed please find the Idaho Department of Water Resources (IDWR) 2011 Water Measurement Annual Report for Micron Technology, Inc. (Micron). Report forms are included for Micron Wells 3, 4, 5 and 6. No water was physically diverted from Micron Well 3, Micron Well 5 or Gowen Well during 2011. The \$25 processing fee per diversion for Micron Wells 4 and 6 is also enclosed.

As authorized under Permit No. 63-31183, Micron recharged 946 acre-feet in 2011 and diverted a total of 1947 acre-feet under the permit. The total amount in storage at the end of 2011 was 745.5 acre-feet. Please refer to Table 1, *Mitigation Calculations through End of Year 2011*.

Due to water conservation practices, an additional 2074.2 acre-feet were put to beneficial use. This water was put to beneficial use, conserved, recycled, and reused under Water Right 63-08992 and Water Right 63-09029 both under Transfer No. 68944. ("water conservation practices" within the meaning of Idaho Code § 42-250).

During collection and analysis of this year's data we noted the 2010 diversion volumes were reported twice under our permit and decreed water rights. This correction only impacts the allocation of the diversions between Micron's permits and decreed rights. The total amount of diversion and recharge reported in 2010 was correctly reported and was correctly reflected in the Department's summary table presented at the 2011 annual SBGWMA meeting in May." This error has been corrected in the table below.

If you have any questions or need additional information, please contact me at (208) 363-2339.

Sincerely,

Ricky L. Murray
Water and Chemical Services Manager

Enclosures

Micron Aquifer Recharge and Recovery Project

Table 1.
Mitigation Calculations through End of Year 2011

A	B	C	D	E	F
Year	Water Injected (acre feet)	Water Pumped (acre feet)	Net Volume to/from Aquifer Storage (acre feet)	Annual 10% Loss From Storage (acre feet)	End of Year Storage (acre feet)
2001	437	0.0	437.0	0.0	437.0
2002	459	284.0	175.0	43.7	568.3
2003	787	180.5	606.5	56.8	1,118.0
2004	609	487.8	121.2	111.8	1,127.4
2005	419	419.0	0.0	112.7	1,014.6
2006	592	500.0	92.0	101.5	1,005.2
2007	1,130	0.0	1,130.0	100.5	2,034.7
2008	1,608	3,046.0	-1,438.0	203.5	393.2
2009	1,160	9.8	1,150.2	39.3	1,504.1
2010	586	<i>0.0</i>	<i>586.0</i>	<i>150.4</i>	<i>1,940.4</i>
2011	946	1,947	-1,000.6	194.0	745.8

Corrected values for 2010 in Italic – Compare to 2010 report included.

Column A is the calendar year, each starting January 1 and ending December 31.

Column B is acre feet of water injected into the aquifer for mitigation purposes during the calendar year.

Column C is acre feet of water claimed as pumped from the aquifer under the recharge/recovery permit during the calendar year.

Column D is the net acre feet added or subtracted from storage during the calendar year

Column E is the loss from storage (10% of the water held in storage during the previous year)

Column F is the acre feet of water held in aquifer storage at the end of the calendar year

Micron Aquifer Recharge and Recovery Project

Table 1.
Mitigation Calculations through End of Year 2010

A	B	C	D	E	F
Year	Water Injected (acre feet)	Water Pumped (acre feet)	Net Volume to/from Aquifer Storage (acre feet)	Annual 10% Loss From Storage (acre feet)	End of Year Storage (acre feet)
2001	437	0.0	437.0	0.0	437.0
2002	459	284.0	175.0	43.7	568.3
2003	787	180.5	606.5	56.8	1,118.0
2004	609	487.8	121.2	111.8	1,127.4
2005	419	419.0	0.0	112.7	1,014.6
2006	592	500.0	92.0	101.5	1,005.2
2007	1,130	0.0	1,130.0	100.5	2,034.7
2008	1,608	3,046.0	-1,438.0	203.5	393.2
2009	1,160	9.8	1,150.2	39.3	1,504.1
2010	586	1.763	-1,177.0	150.4	176.7

Column A is the calendar year, each starting January 1 and ending December 31.

Column B is acre feet of water injected into the aquifer for mitigation purposes during the calendar year.

Column C is acre feet of water pumped from the aquifer under the permit during the calendar year.

Column D is the net acre feet added or subtracted from storage during the calendar year

Column E is the loss from storage (10% of the water held in storage during the previous year)

Column F is the acre feet of water held in aquifer storage at the end of the calendar year



RECEIVED

MAR 11 2015

DEPARTMENT OF
WATER RESOURCES

March 9, 2015

CERTIFIED MAIL #7012 2210 0000 6037 4649

Mr. Jeff Peppersack
Bureau Chief, Water Allocations
Idaho Department of Water Resources
P.O. Box 83720
Boise, Idaho 83720-0098

Reference: Water Right Permit 63-31183 Annual Report – 2014
Micron Technology, Inc. – Boise Site

Dear Mr. Peppersack,

To fulfill the annual report requirements of Condition #9 of Water Right Permit 63-31183, Micron Technology, Inc. (Micron) is submitting (1) a chart that depicts monthly recharge volumes, monthly diversion volumes, and local area water-level hydrographs and (2) a chart that depicts net annual diversion volume (i.e., Micron diversions minus recharge) and local area water-level hydrographs. The period for the charts is 2002 through 2014, which corresponds to the development period for Water Right Permit 63-31183.

The charts indicate continued stabilization and improvement in the deep aquifer water level as a result of Micron's efforts to reduce net diversions. If you have any questions regarding this submittal, please contact Jim Nielsen at (208) 368-3366.

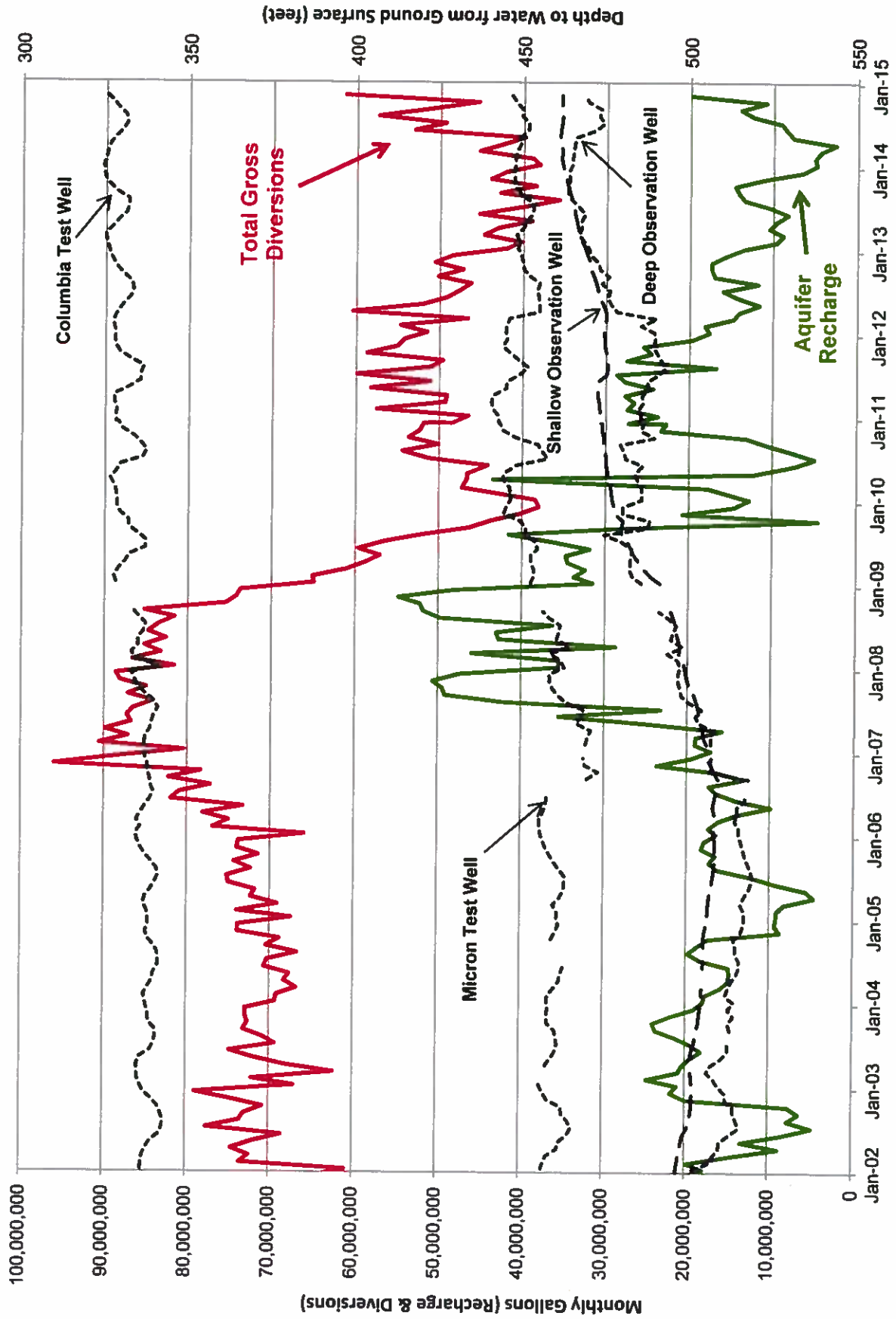
Sincerely,

Ricky L. Murray
Water and Chemical Services Manager
Micron Technology, Inc.

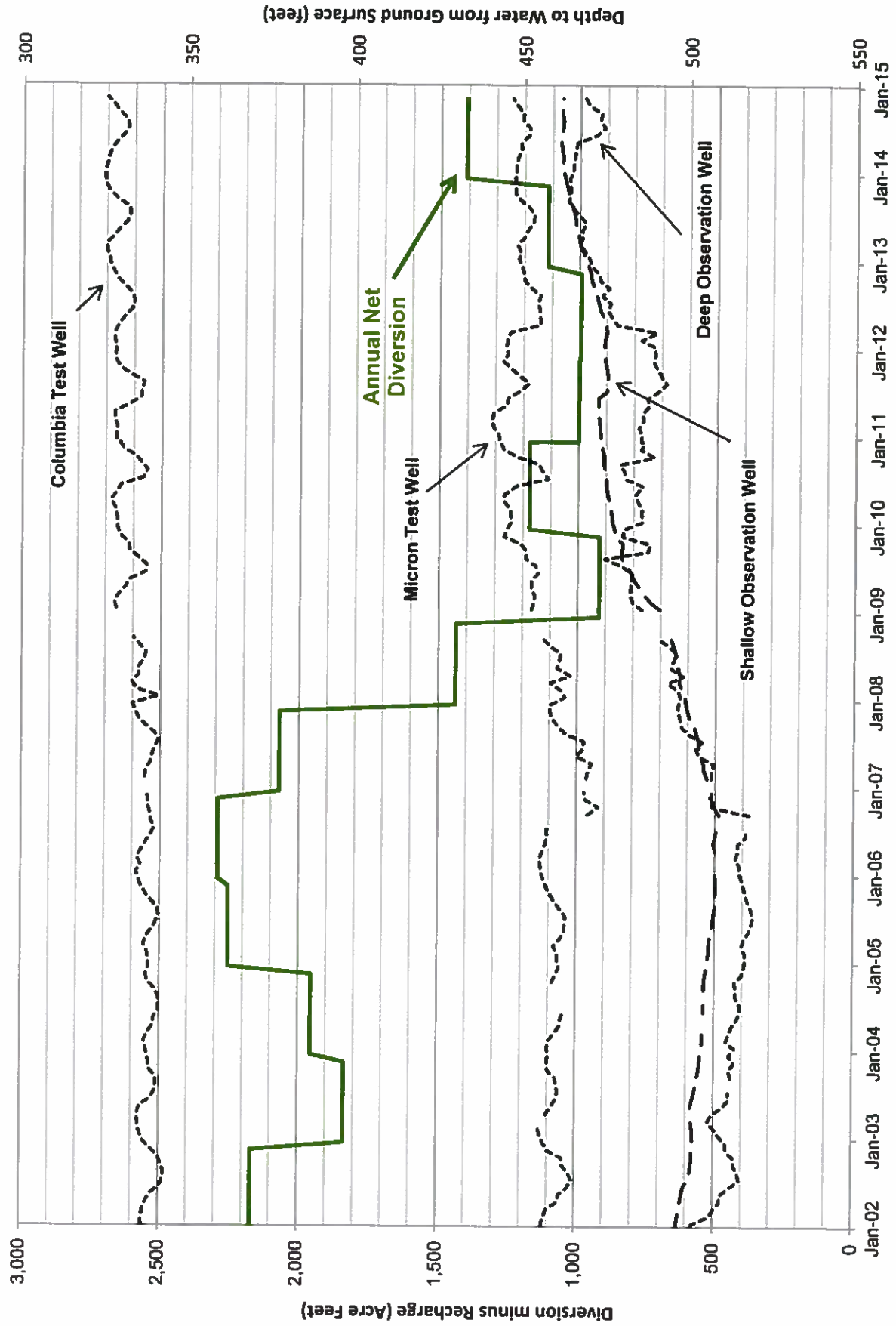
**Micron Technology, Inc. Hydrograph Notes
2014 Annual Report (Water Right Permit 63-31183)**

Description	Date
Started recharging	3/01
Started Well 6	11/06
Started Stage 200 Ultrafiltration skid	6/07
Started Fab 1 shutdown activities	11/08
Shutdown Well 3	2/09
Shutdown Well 6	10/09
Halted recharge for repairs to injection well control valve	10/23/09 – 11/24/09
Shutdown Stage 200 Ultrafiltration skid to replace feed water control valve positioners	2/19/10 – 3/24/10
Shutdown Stage 200 Ultrafiltration skid to replace modules due to fiber breakage	4/23/10 – 10/27/10
Temporarily restarted Well 6	7/23/10 – 10/20/10
Well 3 and 6 off for the entire year. (Well 6 ran for 2.25 hrs on 5/3/2011)	5/3/2011
Well 3 started to meet increased demand	4/24/2012
Well 3 shut down due to declining pump output.	5/21/2012
Started Well 6 5/23/12 to meet increased demand	5/23/2012
Well 4 and Well 6 operated throughout year	2013 2014

Micron Technology, Inc. Hydrograph (1)
2014 Annual Report (Water Right Permit 63-31183)



Micron Technology, Inc. Hydrograph (2)
2014 Annual Report (Water Right Permit 63-31183)



Edl, Michele

From: Terry Scanlan [TScanlan@spfwater.com]
Sent: Monday, December 08, 2014 8:19 AM
To: Edl, Michele
Subject: RE: field exam for 63-31183

Hi Michele –

I had to dig back into the archives for this one.

We do not have GIS shape files. The irrigated area was based on a determination made by Micron using Autocad. Our field exam map used a Micron jpg image of the irrigated area that was pasted over an aerial image.

With regard to irrigated area, yes, there should be complete overlap with other irrigation under NMID and Micron licenses/decrees.

Terry

From: Edl, Michele [<mailto:Michele.Edl@idwr.idaho.gov>]
Sent: Wednesday, December 03, 2014 1:20 PM
To: Terry Scanlan
Subject: field exam for 63-31183

Mr. Scanlan,

As you may already know, IDWR is reviewing the Beneficial Use Field Reports and other documents associated with Micron Technology's water right permits with the intent of issuing licenses for the uses.

I am completing my review of your report for 63-31183 which was received here at the state office on January 31, 2012. In it you recommend 39.8 acres of irrigation distributed throughout the Micron campus. Did you or other SPF personnel create shapes for those many places of use? If so, could you provide the shape files to me?

I believe that the irrigation use developed under this permit, overlaps other irrigation use developed under other licenses.

Thank you.
Michele Edl

Basin	Sequence	Suffix	V Process	Basis	Status	Draft	RightID	Priority	Data	Source List	Water Use List	Current Owner	Total Acres	Acres	Limit	Volume	Diversion	Rate	
63	8992		Water Right	Decreed	Active	N	557976	7/25/1977		GROUND WATER/ INDUSTRIAL, IRRIGATION		MICRON TECHNOLOGY	100.0			1,267.9		2,090	
63	9029		Water Right	Decreed	Active	N	557977	9/9/1977		GROUND WATER/ INDUSTRIAL		MICRON TECHNOLOGY INC				806.3		4,000	
63	9357		Water Right	Decreed	Active	N	581972	3/12/1980		GROUND WATER/ FIRE PROTECTION, INDUSTRIAL		MICRON TECHNOLOGY INC				362.0		0.600	
63	10208		Water Right	Decreed	Active	N	582119	11/22/1983		GROUND WATER/ DOMESTIC, INDUSTRIAL		MICRON TECHNOLOGY INC				441.6		0.610	
63	10221		Water Right	License	Active	N	57758	2/6/1984		WASTE WATER/ IRRIGATION FROM STORAGE, IRR		MICRON TECHNOLOGY	2.0			4			
63	11293		Water Right	Decreed	Active	N	582118	4/19/1990		GROUND WATER/ INDUSTRIAL		MICRON TECHNOLOGY INC				1,628.9		2,250	
63	12420		Water Right	License	Active	Y	671689	6/6/1997		BOISE RIVER/ GROUND WATER RECHARGE, IND		MICRON TECHNOLOGY INC				528	5		
63	31183		Water Right	License	Active	Y	672239	1/24/2001		GROUND WATER/ INDUSTRIAL, IRRIGATION		MICRON TECHNOLOGY	39.8			1608	9.13		
													100.0			4,506.7		9.55	sum of decreed rights
																			forfeiture may have occurred
																			combined limit

created by Michele Edl on November 7, 2014
license 63-31183