ORIGINAL

IN THE SUPREME COURT OF OHIO

STATE OF OHIO EX REL. WAYNE T. DONER, ET AL.	:	
Relators,	:	
v.	:	Case No.: 2009-1292
SEAN D. LOGAN, DIRECTOR OHIO DEPARTMENT OF NATURAL RESOURCES, ET AL.	:	
Respondents.	:	

JOINT EXHIBITS – VOLUME SIXTEEN

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The parties to this action, by and through their respective attorneys, hereby jointly submit, for purposes of this action only, that each of the exhibits listed below are authentic for all purposes in this action:

Tab	Description
79	Deposition Transcript with Exhibits of Tadd Henson taken April 29, 2010

Dated: June 1st, 2010 Joint Exhibits Approved and Respectfully Submitted By:

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Tab 79

THE SUPREME COURT OF OHIO

STATE OF OHIO EX REL. WAYNE T. DONER, ET AL.,	)	
Relators,	)	
vs.	)	Case No. 2009-1292
SEAN D. LOGAN, DIRECTOR, OHIO DEPARTMENT OF NATURAL RESOURCES, ET AL.,	)	
Respondents.	)	

DEPOSITION OF

TADD HENSON, P.E.

Taken at the offices of
VORYS, SATER, SEYMOUR & PEASE, LLP
52 East Gay Street
Columbus, Ohio 43216-1008

on April 29, 2010, at 2:35 p.m.

Reported by: Sara S. Clark, RPR/CRR/CCP/CBC

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on behalf of the Respondents.

ALSO PRESENT:

Jay Dorsey

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STIPULATIONS

It is stipulated by and among counsel for the respective parties that the deposition of TADD HENSON, P.E., the Witness herein, called by the Relators under the applicable Rules of Civil Procedure may be taken at this time by the notary pursuant to notice and by agreement; that said deposition may be reduced to writing in stenotypy by the notary, whose notes thereafter may be transcribed out of the presence of the witness; and that the proof of the official character and qualification of the notary is waived.

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INDEX OF EXHIBITS

TADD HENSON, P.E.

being first duly sworn, as hereinafter certified, deposes and says as follows:

EXAMINATION

BY MR. FUSONIE:

Q. Could you state your full name for the record.

A. Yeah. Tadd Henson.

Q. Mr. Henson, my name is Tom Fusonie. I'm an attorney at the Vorys law firm. We represent the relators in the Doner versus Logan lawsuit.

Have you ever had your deposition taken before?

A. No.

Q. Okay. I'll just quickly go over some of the ground rules. We can't talk over each other so that the court reporter can take down everything that's being said. If you allow me to ask my full question, I'll do my best to allow you to answer fully before moving on to my next question. If you don't understand my question, ask me to repeat it or rephrase it. If you answer my question, I'm going to assume that you understood it. Is that fair?

A. Yes.

Q. Another thing, the court reporter can't take down nodding of the head, shaking of the head, uh-huh and huh-uh are very hard for the court reporter to take down. So your answers need to be verbal and like a yes-and-no format.

If you need a break at any time, let me know. My only condition on that is if I have a question pending, I would like you to answer that question first.

A. Sure.

Q. How long have you worked at Stantec?

A. I believe it's been about six years. Six and a half. A little over six.

Q. And what's your current position at Stantec?

A. Senior associate.

Q. And what were you hired in as?

A. When I was -- I was hired, the company was known as FMSM Engineers, Fuller, Mossbarger, Scott & May Engineers. That was later acquired. I was hired, I believe, as project engineer -- senior project engineer.

Q. What was your first position for the

Stantec entity?

A. Senior project engineer.

Q. What was your first position for Fuller?

A. Senior project -- senior project engineer. It's the same entity.

Q. I understand. When you were hired in originally, you hired in with Fuller?

A. Correct, who later was acquired by Stantec.

Q. And so after they were acquired by Stantec, your position was still senior project engineer?

A. I believe by that time, I was project manager.

Q. Okay.

MR. FUSONIE: I'm going to continue on with the exhibits because I may end up using some of the same.

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(Relators' Exhibit G marked.)

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MR. FUSONIE: And I only have two copies but this is his affidavit, without the --

MS. WORLY: We'll share. That's fine.

MR. FUSONIE: -- without the report attached.

BY MR. FUSONIE:

Q. Mr. Henson, I've marked -- I'm showing you what I have marked as Relators' Deposition Exhibit G. Do you recognize this document as your affidavit in this case, minus the CD-ROM report that was attached?

A. Yes.

Q. If you could turn to Page 2. Is that your signature?

A. Yes.

Q. And were you before a notary when you signed this?

A. Yes.

Q. How long have you been a licensed professional engineer in the state of Ohio?

A. Since -- I'm bad with dates -- 2001.

Q. Have you held your license continuously since then?

A. Yes.

Q. Do you hold any other -- do you hold a professional engineer license in any other state?

A. No.
Q. Do you do work outside of Ohio at all?
A. Yes.
Q. And you have a master's degree in civil engineering?
A. Yes.
Q. When did you obtain that?
A. 2001.
Q. Did you write a thesis for that?
A. No.
Q. And you do not have a Ph.D. in civil engineering?
A. Correct.
Q. Have you attempted to obtain a Ph.D.?
A. No.
Q. Outside of the current project for this lawsuit, have you ever worked for ODNR?
A. Yes.
Q. How many times?
A. I would say on more than five projects, approximately.
Q. Since 2001?
A. Since 2001 -- the best I can recall, most work was prior to 2001. There have been

some since then.

Q. Were you employed while you were getting your master's degree?

A. Yes.

Q. And were you working at Fuller at the time?

A. No.

Q. Where were you working?

A. BBC&M Engineering.

Q. When you were obtaining your bachelor's degree in civil engineering, did you work for BBC&M at all during --

A. No.

Q. -- that time frame?

What projects for ODNR did you work on while at BBC&M?

A. Jackson Lake State Park is one that I remember.

Q. And what role did you have for that project?

A. I performed hydrology and hydraulic calculations for a dam improvement.

Q. What hydrology and hydraulic modeling did you use?

A. It was a long time ago. I believe the best I can recall would have been HEC-1 for hydrology, and I believe dam break for hydraulics.

Q. What's the next -- were there any other projects for ODNR that you performed while at BBC&M?

A. There may have been others. It's been a while. I recall working on something in Zanesville, another dam project, Zanesville State Nursery Park Dam.

Q. Did you perform any hydrology or hydraulic work for that?

A. Yes.

Q. Did you do any hydrology modeling?

A. The best I can recall, yes.

Q. Any hydraulic modeling?

A. I do not believe that included hydraulic modeling.

Q. What hydrology model did you use?

A. That would have probably been HEC-1.

Q. What's the next project for ODNR you recall working on?

A. I may have partially been involved in

working on some Muskingum River lock and dam projects, but I didn't have a large role in that. No hydraulics or hydrology.

Q. Okay. What's the next project you recall working on for ODNR?

A. I don't recall any other ones.

Q. How about since -- is it okay if I refer to Fuller and Stantec just as Stantec?

A. Yes.

Q. How about since you joined Stantec, what ODNR projects have you worked on?

A. Projects for ODNR? I was -- I do not believe I've been -- we had a project for ODNR called the South Fork Licking River project, but I did not -- I might have done a couple little things on that. It was not a major -- I did not have a large role in that project.

Q. When did you start working on a project at Stantec that involved the Grand Lake St. Mary's?

A. Again, I'm horrible with dates, but if I remember correctly, it would have been October of 2009.

Q. Okay.

A. Fall of 2009.

Q. Were you aware of any ongoing Stantec projects related to the Grand Lake St. Mary's at that time?

A. No.

MR. FUSONIE: Before we get any further, while I remember, during Dr. Campbell's -- or right after Dr. Campbell's deposition yesterday, I asked for Mr. Henson's notes from that deposition Mr. Henson attended, which I allowed him to attend. He took notes during that deposition, and he exchanged notes, as well, with a representative of ODNR, as well as counsel for the respondents in this case. I have asked for those notes and they have not been provided to me today.

It's my understanding that the position currently ODNR is taking is that those notes are in Mr. Henson's capacity as a consulting expert. It's my position that those notes relate to one of his areas in which he is a testifying expert.

Have I accurately stated the disagreement between the parties?

MS. WORLY: Our position is that those

notes reflect only Mr. Henson's role as a consultant during the course of the deposition. They have nothing to do with anything that Mr. Henson used, not data, not facts, in creating either his affidavit or his report, and have no bearing whatsoever on the testimony or the supplemental report that he's giving today. However, let's see how the testimony develops and perhaps we'll reconsider.

MR. FUSONIE: Okay.

BY MR. FUSONIE:

Q. So the first time you've worked on a project for ODNR related to the Grand Lake St. Mary's was October, 2009, is that the best of your recollection?

A. That's to the best of my recollection.

Q. Is that the project in which you are here today talking -- testifying?

A. Yes.

Q. And it's the project in which you've prepared -- you prepared a March 1 report?

A. Yes.

Q. And you prepared a supplemental report dated today?

A. Yes.

Q. Let me go while you were at BBCM. Did you ever do any projects for ODOT? Do you know what I mean by ODOT?

A. The Ohio Department of Transportation?

Q. Right.

Did you do any projects for them?

A. I do not recall working on ODOT projects.

Q. How about since joining Stantec, have you worked on any ODOT projects?

A. I recall something, I don't remember the exact date, in I believe it was Lawrence County. Slope stability projects where I assisted and we were working for an ODOT district.

Q. Did you perform any hydrology or hydraulic modeling for that project?

A. No.

Q. Have you ever before your affidavit in this lawsuit prepared an affidavit for purposes of testifying in litigation?

A. No.

Q. In 2009, what percentage of your work was for governmental entities?

A. I would estimate 95 percent.
Q. How about 2008, would it be about the same?
A. It would be about the same.
Q. 2007, would it be about the same?
A. It would be, yes, about the same.
Q. When did you -- I'm not sure I asked this. I apologize if I did. When did you join Fuller Stantec?
A. I believe it was 2003.
Q. Has it been since 2003 consistently 95 percent of your time working for governmental entities, approximately?
A. It can vary at any given time, but I'd say rarely under 75 percent.
Q. Okay. Prior to October of 2009, had you -- let me ask you this: When was the first time you visited the Grand Lake St. Mary's?
A. For this project.
Q. No, I mean ever.
A. The first time I ever visited Grand Lake St. Mary's was for this project.
Q. Okay. When was your first visit, then, to the lake?

A. Again, if I recall correctly, it would have been the end of 2009. November.

Q. Okay. Would your answer be the same as far as the Beaver Creek, that you had never visually observed the Beaver Creek in Mercer County prior to the end of 2009?

A. Yes.

Q. Would your answer be the same for the Wabash River in Mercer County, that you had never visited the Wabash River in Mercer County prior to the end of 2009?

A. Yes.

Q. October, 2009, tell me about your first contact with ODNR about this project.

A. I believe that Dave Moore with ODNR contacted Brian Ringley about assisting on the project.

Q. And who is Brian Ringley?

A. He is -- he works for Stantec, and I report to him.

Q. Were you involved in that first contact?

A. No.

Q. What was your first -- did Brian Ringley then talk to you about his conversation with

David Moore?

A. Yes.

Q. And what did Brian Ringley tell you?

A. To the best of my recollection, they wanted a meeting the following day to discuss the project.

Q. And what was the project as far as you understood it at that time?

A. At that time, we didn't know.

Q. And did you meet the next day?

A. I believe it was the next day or shortly thereafter.

Q. Do you remember who you met with?

A. Dave Moore. Mark Ogden might have been there. As best I can recall, Dave Moore, possibly Mark Ogden, and there were two Assistant AGs that worked for ODNR. Rachel, I remember, and then Ray Studer, I believe.

Q. Rachel Stelzer and Ray Studer?

A. I believe that's correct.

Q. And did they explain at all the issues involved in the project?

A. Yes.

Q. What did they tell you?

MS. WORLY: Objection to the extent that it calls for attorney work product, that would be especially Corps work product, I think would be privileged information.

MR. FUSONIE: Well, I think I'm entitled to understand from him at least his understanding as to the scope of his project in which he then submitted an affidavit and report.

MS. WORLY: And I think he can tell you his understanding. But I think it -- I don't -- I'm instructing him not to repeat specifically what was told to you by either attorney.

MR. FUSONIE: Fair enough.

BY MR. FUSONIE:

Q. What was your understanding from that meeting as to the scope of the potential project?

A. There was the desire to perform hydrologic and hydraulic calculations for the Grand Lake St. Mary's and the reach of Beaver Creek and Wabash River to the state line.

Q. And ultimately, what was the scope of the project that led to the -- your affidavit in this lawsuit?

A. I believe it's described in the report.

Q. Okay. I want your answer to my question as you sit here today.

A. Can we open up the report and I can read it to you?

Q. Sure. Just so the record's clear, Mr. Henson is opening a binder that he has come here with, which is the -- is that the technical report?

A. This is.

It was to perform hydrologic and hydraulic analysis for the reach -- for the Grand Lake St. Mary's, the spillway, and the reach of Beaver Creek and Wabash River to the state line.

Q. Okay. Did they also ask you to -- was part of your project also to review work done by Dr. Campbell?

A. Yes.

Q. And were you provided any documents to review prepared by Dr. Campbell?

A. Yes.

Q. And do you have any knowledge as to whether -- what documents were you provided to

review?

A. I believe there were several reports from some previous litigation.

Q. Are you -- do you have any knowledge as to whether you were provided the full reports from those litigations or not?

MS. WORLY: Objection. Do you want to clarify what you mean by "full reports"?

Q. Mr. Henson, you have not come here today with any reports of Dr. Campbell that are in your files, have you?

A. No.

Q. Do you have reports of Dr. Campbell in your files?

A. Yes.

MR. FUSONIE: I would ask for a copy of those.

Q. Just so the record's clear, you also have a written contract with ODNR, don't you, or Stantec does?

A. Yes.

Q. And you have not come here today with a copy of that contract?

A. No.

Q. Are there any supplements to that contract?

A. I am not involved in the contracting, but to the best of my knowledge, yes, there were.

Q. And you haven't come here as the Stantec representative today with any of those?

A. Correct.

Q. Has Stantec invoiced either ODNR or the Attorney General's office for any of its work performed?

A. Yes.

Q. And you haven't come here today with any of those invoices, have you?

A. No.

MR. FUSONIE: I'd ask for a copy of those supplements and a copy of the invoices.

MS. WORLY: Can I ask that you send us an e-mail with regard to specifically those documents that you want from us that you've not yet received?

MR. FUSONIE: Sure. I would state that he was served -- Mr. Henson specifically was served with a subpoena for documents to be

produced today last Friday that would have covered those documents that are now -- the contract, supplemental agreements, invoices, and he hasn't come here today with them. But I will confirm my request again in an e-mail.

MS. WORLY: Thank you.

MR. COLE: Can we just go off the record for a second?

MR. FUSONIE: Sure.

(Discussion held off the record.)

BY MR. FUSONIE:

Q. Mr. Henson, I'm going to show you what has been previously marked as Relators' Deposition Exhibit D, which I will represent to you is a report by Dr. Campbell for the Case Leasing property that is an addendum dated November, 2006, which includes a number of attachments to it.

A. Uh-huh.

Q. Have you seen this document before?

A. Yes.

Q. And when did you first see the document?

A. I don't recall the exact date. Sometime after October, 2009.

Q. Were you -- I want to turn -- at the back of Exhibit D, there's a Tab B. Do you see that?

A. Yes.

Q. And then it's stated on the next page, Appendix B, lake elevation data.

A. Yes.

Q. Were you ever provided Appendix B?

A. Yes.

Q. When were you provided Appendix B?

A. Again, I do not recall the exact date. I do recall that Rachel Stelzer brought over a copy of a CD that had Appendix B on it to our office.

Q. And do you know if she did that before you signed your affidavit on March 1, 2009?

A. Yes.

MS. WORLY: Off the record.

MR. FUSONIE: Sure.

(Discussion held off the record.)

MR. FUSONIE: We have his report on a disk, which I'm trying to figure out the best way to introduce it into the record. He's come here with binders, which will be a lot easier to

use, of the report, during the deposition. The disk is right -- I have a copy of it, March 1, 2010. Can I introduce -- I'll introduce this as his report, but use the binders to mostly ask him questions.

MS. WORLY: Why don't you ask on the record -- we're off the record right now?

MR. FUSONIE: We're on the record. But the issue is that to open this up for me to confirm that this is his March 1, 2010 report is going to be difficult and may crash our computer because of the mapping that's on this disk.

MS. WORLY: Why don't you just ask him to make a representation that they are both the same.

MR. FUSONIE: I don't know how he can do that. We can stipulate to --

MS. WORLY: Is that what --

MR. FUSONIE: I will represent that this is a copy of what you provided to us on March 1st, 2010.

MR. COLE: Didn't I drop off one that was supposed to be more user friendly? It was the same thing.

MR. FUSONIE: Yeah, but that's not what's attached to his affidavit.

MR. COLE: Okay.

MR. FUSONIE: His affidavit has got --

MS. WORLY: If you can represent that's a copy of what he provided, then he can represent to you that it's the same thing as what's contained in the binders, I would assume, if you ask him the question.

MR. FUSONIE: Okay.

BY MR. FUSONIE:

Q. Assuming that I am telling you the truth, that this is a copy of your March 1st, 2010 report, as provided to me on March 1st, 2010, will you represent that this is the same document as the binders that you have come here with today?

A. With one exception, yes.

Q. What's the one exception?

A. In Report 1 --

Q. The modeling is not in your binders, is it?

A. The modeling is not in the binders, you are correct.

And also, Table 2.5 of Report 1 has been updated from what is on that.

Q. And you haven't printed off a copy of that update?

A. The updated table is in this binder.

Q. It's in which binder?

A. Right here.

MS. WORLY: (Indicating).

Q. All right. I'm going to try to do this again.

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(Relators' Exhibit H marked.)

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BY MR. FUSONIE:

Q. Back on the record, Mr. Henson, I have marked as Exhibit H what I am representing to you is a copy of the report -- your report attached to your affidavit, dated March 1st, that I received on March 1st.

Will you agree on the record, based on my representation, that Exhibit H is the same as your binders, except for that your binders do not include your modeling data, and that you have updated in your binder Figure 2.5 to the

technical report?

A. Yes.

Q. Okay. All right. If you could turn to your binder that's the discussion of results and other analyses.

MS. WORLY: (Indicating).

THE WITNESS: That would be the other one, I believe.

Q. Would you agree with me that you looked at 88 relator parcels?

A. I don't recall the exact number --

Q. Okay.

A. -- I looked at.

Q. If you turn to your map, impacts to peak flooding due to spillway improvements for July, 2003 flood event.

A. Uh-huh.

Q. Are you there?

A. I'm there.

Q. You have parcel -- is this a map that you prepared or you had someone prepare?

A. It was prepared under my direction, yes.

Q. Would you agree that the parcel legend identifies 88 parcels?

A. Yes.
Q. Was it your understanding that these are parcels of relators in this lawsuit?
A. Those were provided to me by ODNR.
Q. So those are parcels that you were supposed to plot on these legends?
A. They were provided to me by ODNR.
Q. And what was your understanding --
A. We placed them on the map.
Q. Okay.
A. Yes.
Q. Did they give you any understanding as to what those parcels were?
A. It was my understanding that those parcels represented relators -- parcels owned by relators in the pending lawsuit.
MS. WORLY: Just so we don't have this constant difficulty, let him finish his question before you begin a answer. Let him finish an answer before you start a question.
MR. FUSONIE: I will do my best. It's getting long in the day for me.
Q. If you can turn, then, to 2.4.
A. Is it section number, or table?

Q. It is on Page 2.4, starts Table 1.
A. Okay.
Q. All right. You have identified in Table 1 a number of parcels that are impacted by increased maximum depth of flooding during the 15-year event; is that correct?
A. Yes.
Q. And by 15-year event, what do you mean?
A. That means the event that would be expected to occur once every 15 years.
Q. Okay.
A. Or if you're talking probabilities, I don't know what -- that's like -- yeah, I'll just stay with that. Once every 15 years.
Q. Well, for example, FEMA says a hundred-year flood, for example, is something that has a 1 percent chance of occurring every year; is that correct?
A. Correct.
Q. Okay. So a 15-year event has a -- some sort of higher percentage of occurring every year, correct?
A. Correct.
Q. And then Table 2 are parcels impacted by

increased duration of flooding during a 15-year event; is that correct?

A. Correct.

Q. Would you agree with me that the parcels listed in Table 1, because they have an increased acreage, flooded during the 15-year event, also have an increased duration of flooding during the 15-year event?

A. Yes.

Q. Would you agree with me, then, that -- and I've -- that 61 out of the 88 parcels of relators that you looked at have a longer duration during a 15-year event?

A. I didn't count the number, but if --

Q. You have no reason to disagree with my calculation?

A. If there's 68 --

MS. WORLY: Objection. Don't guess. If you know, you know. If not, you don't.

Q. You can count all of them for me if you -- I was trying to speed things along.

A. If there's 68 parcels in Table 2, then your previous statement is true.

MS. WORLY: Objection. I believe he

stated there was 61.

THE WITNESS: 61.

MR. FUSONIE: I wasn't going to fight you on that one.

Q. Now turning to Table 4, those are parcels that are -- based on your modeling, have been impacted by increased maximum depth of flooding during the hundred-year event; is that correct?

A. Correct.

Q. And then Table 5 are parcels impacted by increased duration of flooding during the hundred-year event, correct?

A. Correct.

Q. But you would agree with me that Table 4, those parcels also, because more acreage is flooded, are impacted by an increased duration of flooding during the hundred-year event; is that correct?

A. They have a longer duration of flooding, yes.

Q. And do you have any reason to disagree with me that, if I combine Table 4 and Table 5, that is 71 of the 88 parcels that you were

provided by the State?

A. Again, I haven't counted them, but I have no reason to...

Agree.

Q. Okay. For Table 1, I counted 10 parcels that have more acres flooded during the 15-year event; is that correct?

A. Correct.

Q. Table 4, I counted 20 parcels that have increased acreage flooded during a hundred-year event; is that correct?

A. Correct.

Q. Okay. Would you agree with me that in Table 4, there's no reference to an owner by the name of Granger?

A. Correct.

Q. There's no owner identified as Mary Leone Powell?

A. Correct.

Q. There's no owner identified as Opal Post?

A. Correct.

Q. There's no owner identified as Wayne Doner?

A. Correct.

Q. There's no owner identified as Duane Sheets?

A. Correct.

Q. There's no owner identified as Rita Suhr, S-u-h-r?

A. Correct.

Q. Nor Linda Linn, L-i-n-n?

A. Correct.

Q. Nor Dorothy Schroyer, S-c-h-r-o-y-e-r?

A. Correct.

Q. Okay. And then if you turn to Table 7, you've identified in Table 7 20 parcels that have acres impacted by the new spillway; is that correct?

A. Correct.

Q. And would you agree with me that none of those parcels that you've identified are near or west of the confluence of the Wabash and Beaver?

A. We would have to look at the map to confirm.

Q. Okay. Let's do that. Let's turn to your map showing impacts to peak flooding due to spillway improvements for hundred-year flood

event.

MS. WORLY: For the record, which -- is there a number on that?

MR. FUSONIE: No.

Q. I believe the farthest west property that you have identified in Table 7 is the McDonough property, which, in your legend for this map, is Parcel Number 37, which is right here (indicating).

Do you have any reason to disagree with me on that?

MS. WORLY: Take a minute and look at it.

(Pause in proceedings.)

A. Could you restate the question, please?

Q. Sure. For Table 7, the farthest west property that you listed is the McDonough property, which, on your legend, is identified as Parcel 37.

(Pause in proceedings.)

A. It would take a while for me to confirm all those.

Q. Number 12 is right there (indicating).

MR. COLE: Which one is 37?

THE WITNESS: 37 is there (indicating).

A. To the -- yes, that should be the furthest west property.

Q. On Table 7?

A. On Table 7.

Q. Okay. Just so I'm clear about this map, which is impacts on -- to peak flooding due to the spillway improvements for the hundred-year flood event, you have a yellow in the legend that's indicated for increased flooding?

A. Uh-huh.

Q. And -- is that a yes?

A. Yes.

Q. And increased flooding is the flooding that is due to the spillway improvements for the hundred-year flood event?

A. Yes.

Q. Okay. Would you agree with me that Parcel 15 has yellow?

A. Yes.

Q. Would you agree with me that you did not identify it on Table 7?

A. Yes.

Q. Would you agree with me that Parcel 55

has yellow?

A. Yes.

Q. And would you agree with me that you did not identify that on Table 7?

A. Yes.

Q. Would you agree with me that Parcel 54 has yellow?

A. Yes.

Q. And you did not identify that on Table 7, did you?

A. No.

Q. Would you agree with me that Parcel 66 has yellow?

A. Yes.

Q. And you did not identify that parcel on Table 7?

A. No.

Q. Would you agree with me that 49 has yellow?

A. Yes.

Q. And you did not identify 49 on Table 7, did you?

A. No.

Q. Would you agree with me that Parcel 8

has yellow?

A. It's hard to tell if that map's yellow.

Q. If I -- you don't know for sure whether that's yellow or not without me zooming in?

A. Correct.

Q. But it's possible that that's yellow?

MS. WORLY: Objection.

If you know.

A. I don't know.

MR. FUSONIE: Can we zoom in on Parcel 8?

Q. While she's doing that, did I ask about 66? I think I did, but just so the record's clear, Parcel 66 has yellow?

A. Yes.

Q. And you didn't identify Parcel 66 on Table 7?

A. No.

Q. I'll ask you about Parcel 76. Would you agree with me there's some yellow in Parcel 76?

A. Again, it's hard to tell.

Q. I'm trying to find Parcel 60.

A. (Indicating).

Q. Would you agree with me that Parcel 60

has some yellow?

A. No.

Q. Without zooming in --

A. I can't see.

Q. While Martha's trying to load a zoomed-in map, would you agree with me that Parcel Numbers 15, 54, 55, you did not identify in Table 4 of your report? I'll represent that the owner of 15 is David Granger, and the owner of 54 and 55 is Mary Leone Powell and Larry Pugsley, P-u-g-s-l-e-y.

A. I do not see them in Table 4.

Q. And Parcel 66, which is owned by Duane Sheets, you do not have in Table 4?

A. Correct.

Q. So would you agree with me that Table 4 is inaccurate?

A. No.

Q. Table 4 is not inaccurate?

A. Correct.

Q. You have yellow -- the yellow, as you testified to, is increased flooding caused by the spillway. You have yellow in David Granger's property, yet you don't identify David

Granger in Table 4, and your testimony under oath is that Table 4 is still accurate?

A. Table 4 is based on elevations in the model. When you map -- there's inherent differences when you map using the GIS.

Q. What is Table 7 based on, the GIS?

A. Table 7 is based on, as I recall, the parcels identified in Table 1 and 4.

Q. Which don't include -- Table 4 does not include properties by David Granger or Leone Powell or Duane Sheets?

(Pause in proceedings.)

A. What was the last question?

Q. Table 4 does not include property by David Granger or Leone Powell or Duane Sheets, correct?

A. Correct.

Q. It's your -- your map, you would agree with me -- you've already agreed with me it shows yellow, which is increased flooding by the spillway, as your map represents, for Parcel 15, which is owned by David Granger, correct? David Granger (indicating).

A. Correct.

Q. And the answer's the same for 55 (indicating), which is owned by Leone Powell and Larry Pugsley?

A. Correct. It shows yellow on the map.

Q. And 54 does, and 66, correct?

A. Correct.

Q. We'll try now --

A. Go ahead.

Q. Try 8. We can zoom 8.

Mr. Henson, we have zoomed in Parcel Number 8, which I will represent to you we zoomed in on your impacts to peak flooding due to spillway improvements for hundred-year flood event. Would you agree with me that the zoomed-in Parcel 8 shows yellow?

A. Yes.

Q. Okay. And Parcel 8, I will represent to you, is owned by Wayne Doner, which you had earlier testified was not an owner identified on Table 4. Do you recall that testimony?

A. Yes.

Q. Okay. And then we'll go to 76. Do you see the yellow in Parcel 76?

A. Yes.

Q. And I'll represent to you that 76 is owned by Rita Suhr, S-u-h-r. Would you agree with me that in Table 4, you do not identify an owner by the name of Rita Suhr?

A. Yes.

Q. We have zoomed in to Parcel 60. Do you see the yellow in Parcel 60?

A. Yes.

Q. And I'll represent to you that the owner of Parcel Number 60 is Dorothy Schroyer. Would you agree with me that Table 4 does not identify Dorothy Schroyer as an owner?

A. Correct, yes.

Q. So would you agree with me, then, that your map impacts the peak flooding due to the spillway improvements for hundred-year flood event shows that there has been an impact to properties near the confluence of the Wabash and Beaver Creek?

A. I agree that the map shows yellow.

Q. Okay.

A. Yes.

Q. And this is a Stantec map?

A. Yes.

Q. It was generated either by you or under your supervision, correct?

A. Correct.

Q. And this map is attached to your affidavit?

A. Correct.

Q. And your affidavit is an under-oath document.

A. Correct.

Q. I'll let you fold this back (indicating).

Actually, there's one more. 36.

Mr. Henson, we've zoomed in on Parcel Number 36. Would you agree with me that there is some yellow in Parcel Number 36?

A. There is one pixel of yellow on Parcel Number 36.

Q. Okay. And I'll represent to you that the owner of Parcel Number 36 is Linda Linn and Lee Fennig. Would you agree with me that Table Number 4 does not identify as an owner either Linda Linn or Lee Fennig, F-e-n-n-i-g?

A. Agree.

Q. Okay. Do you know what the -- let me

ask you this: When you prepared your report on March 1, 2010, prior to that date, did you know what the lake elevation was on July 2nd, 2003?

A. Yes, I believe we had lake records from ODNR.

Q. Were you aware of a rain event in late June of 2003 before you signed your affidavit on March 1, 2010?

A. In late June --

Q. Uh-huh.

A. -- of 2003?

Q. Yes.

A. I could not say I was aware of that.

Q. Okay. Now, for your report in this case, you used the HEC-HMS modeling for hydrology?

A. Correct.

Q. And I believe you testified before that you had used it some before this project; is that correct?

A. That's correct.

Q. Had you ever used it to submit a floodplain model to FEMA?

A. Yes.

Q. When did you do that?
A. On numerous occasions.
Q. Which floodplain models -- or which floodplains did you submit a model for?
A. A few that come to mind offhand were -- are Stark County, Ohio, Dawson County, Nebraska. I'm sure there are others. I don't recall any right now.
Q. Okay. Do you remember -- for the one for Stark County, do you remember what hydraulic modeling accompanied the hydrology model?
A. Yes.
Q. What was it?
A. HEC-RAS.
Q. And what mode of HEC-RAS?
A. Can you clarify?
Q. Was it submitted in steady mode?
A. It was a steady flow analysis.
Q. How about the Dawson County, Nebraska one, do you remember the hydraulic model that was used?
A. Yes.
Q. And what was it?
A. FLO-2D.

Q. Was that a steady flow analysis?
A. No.
Q. Did it have a steady flow component?
A. No.
Q. What type of flow analysis was it?
A. Unsteady two-dimensional flow.
Q. Okay. So it wasn't a single-dimensional unsteady flow analysis?
A. Correct.
Q. Have you ever submitted a floodplain model to FEMA that included a HEC-RAS hydraulic model that was an unsteady one-dimensional?
A. Not to FEMA that I recall.
Q. Okay. Would you, Mr. Henson, agree with me that HEC-HMS has a number of alternative procedures and settings?
A. Yes.
Q. Would you agree with me that the proper selection and use of HEC-HMS requires a high level of hydraulic expertise --
A. Yes.
Q. -- hydrologic, I mean, expertise?
A. Yes.
Q. The HEC-HMS model that you prepared for

ODNR in this case, did you calibrate it using the stream flow gage at the Linn Grove gage station on the Wabash River?

A. No.

Q. Am I correct that your HEC-HMS model for this -- for your report was not in continuous simulation mode?

A. Correct.

Q. And for the loss method you used, it was the Soil Conservation Service loss method?

A. Correct.

Q. Is one other option the soil moisture accounting method?

A. I believe that's an option.

Q. And is Green-Ampt a recognized option?

A. Yes.

Q. For the SCS method, is the loss the same whether there's -- whether the rainfall occurs in one hour or one day?

MS. WORLY: Objection; compound.

Why don't you break it up.

Q. For the SCS method, is the loss the same for one hour of rainfall as it is for one day of rainfall?

A. That would depend on the rainfall amount.

Q. So for some rainfall amounts, the loss is the same whether the rainfall occurs in one hour or one day?

A. It depends on the amount of rainfall.

Q. Yes. So for some rainfall amounts, the loss is the same for one hour as it is for one day? Am I correct on that?

A. Correct. The initial abstraction could be the same for -- in certain cases, for a one day and one --

Q. One hour?

A. -- one hour.

Q. Am I correct that the units hydrograph method you used is the SCS method?

A. Correct.

Q. Are you familiar with the Snyder's united hydrograph method?

A. Snyder's unit hydrograph method?

Q. I'm sorry. Unit hydrograph method.

A. Yes.

Q. Are you familiar with the two-parameter Clark's hydrograph method?

A. I have not used it, but I have heard of it, yes.

Q. Are you familiar with the kinematic wave method?

A. Yes.

Q. Is the SCS unit hydrograph method a single-peaked hydrograph?

A. For a given watershed, yes.

Q. And is that how you used it in your report in this action?

A. In this action, the watershed was broken up into many subwatersheds so that they could combine and produce a multipeaked hydrograph.

Q. Okay. Is it a -- so I understand, is the SCS unit hydrograph method a one-parameter hydrograph technique?

A. No.

Q. How is it not a one-parameter hydrograph technique?

A. It has a time of concentration or lag time. Correction. The transform method uses lag time as the single parameter, one parameter.

Q. So it's a one parameter?

A. Correct.

Q. Okay. Am I correct that for your HEC-HMS model in this matter, there were only four subwatersheds used?

A. That is incorrect.

Q. So there were -- let me -- I take that back.

For the flow into the Grand Lake St. Mary's in your report, there were only four subwatersheds?

A. Correct. Four subwatersheds in the Grand Lake St. Mary's.

Q. Am I correct that you used the TR-55 approach to calculate subwatershed concentration times?

A. Correct.

Q. Are you aware that that's not an appropriate method to use for wide-open fields with sheet flow routes longer than 300 feet?

A. That is not the case here. The first 300 feet is assumed sheet flow. The next portion is assumed shallow concentrated flow. And then once it gets into a river or channel, channel flow. So it contains all three of those components.

Q. My question was: Are you aware that it's not appropriate to use the TR-55 method for wide-open fields with sheet flow routes longer than 300 feet?

A. I am aware that longer than -- sheet flow should not be used longer than 300 feet, correct.

Q. In fact, they shouldn't be used longer than 100 feet; am I correct?

A. Best I recall -- I don't remember -- I do not recall right now whether the TR-55 guidance uses 100 or 300 feet as the sheet flow.

Q. Okay.

MR. FUSONIE: I'm at a change in subject. Now would be an okay time for a break if people want a five-minute stretch break.

MS. WORLY: Okay.

(Recess taken.)

BY MR. FUSONIE:

Q. Mr. Henson, back on the record, I'm going to move on to asking you about your hydraulic model that you used. You used HEC-RAS, correct?

A. Correct.

Q. And you used it in unsteady mode?
A. Correct.
Q. And was that one-dimensional unsteady mode?
A. Yes.
Q. Are you familiar with the program CHECK-RAS?
A. Yes.
Q. Would you agree with me that that's a quality assurance program?
A. Yes.
Q. Do you agree that CHECK-RAS can be used to quality check HEC-RAS in steady mode?
A. Yes.
Q. Do you agree with me that CHECK-RAS cannot be used to quality check HEC-RAS in unsteady mode?
A. That's my understanding.
Q. Okay. Would you agree with me in HEC-RAS, that a hydrograph is required for each tributary to the waterway being modeled?
MS. WORLY: Objection. Do you want to talk in terms of this particular study, or in general?

MR. FUSONIE: I'm talking in general.

A. Every single tributary does not always need a separate hydrograph.

Q. That's your testimony, generally?

A. Correct.

Q. And for the -- did you, for each tributary to the Beaver Creek, prepare a hydrograph?

A. I do not believe we did for every single tributary.

Q. Okay. The hydrographs for tributaries, does the data come from, in this example, HEC-HMS?

A. Yes.

Q. Okay. In HEC-RAS used in unsteady mode, does that show discharge attenuating in a downstream direction?

A. It potentially could, yes.

Q. And could that then result in -- well, I'm sorry. Does that attenuation result, in part, from the loss of water to floodplain storage?

A. In part, yes.

Q. Did ODNR provide you with the rating

curves that you used for your hydraulic modeling?

A. There were no rating curves in the hydraulic model.

Q. Did they provide you with the rating curves used in the HEC-HMS model?

A. I believe -- my recollection is that those were from a previous report.

Q. Do you know who prepared that previous report?

A. I believe that it was part of a previous lawsuit, Hartman and Warns.

Q. Doyle Hartman, does that sound familiar?

A. Yes.

Q. Was that a -- was he, as far as you understand, an expert on behalf of ODNR?

A. Yes.

Q. So you were provided rating curves by ODNR that were used by Doyle Hartman?

MS. WORLY: Objection.

Only to the extent that you know.

A. To the extent that I know, they were used by Hartman and by both sides in a former -- in a previous suit.

Q. Okay.

A. One -- the revised report that we brought today actually updates those rating curves for the old spillway.

Q. But not for the new spillway?

A. The new spillway uses the same -- the March 1st report.

Q. Okay. What was the weir coefficient for the old spillway used in the March 1 report?

A. I did not -- because we used information that was taken and accepted during previous studies, we did not recalculate it.

Q. So your testimony is Stantec did not change the weir coefficient for the old spillway, it just used what was provided to it by ODNR?

A. On the March 1st report, I believe there was a data entry error on the -- when we converted -- for both reports, we converted everything from NGVD 29, which is the national -- it's a datum, to NAVD 88. And as I was reviewing stuff earlier this week, I noted that when that conversion was done for the old spillway, the data was entered incorrectly.

Q. The weir coefficient was different?
A. The rating curve was incorrect.
Q. Was part of the reason the rating curve was incorrect was that the weir coefficient was wrong?
A. No. I believe it was just data entry error. Just the numbers were typed in wrong.
Q. Did it result in a different weir coefficient than what had been provided to you by ODNR?
A. ODNR did not provide a weir coefficient. ODNR provided a rating curve.
Q. Okay.
A. The weir coefficient is part of what you use to get a rating curve.
Q. Okay. Do you know what weir coefficient was used to get to the rating curve for the old spillway by Doyle Hartman?
A. I do not know. I know that it varied with depth.
Q. Do you know, what was the weir coefficient you used for your April 29th supplemental report to get to your new rating curve?

A. The same that was used in previous rating curves. It varied with depth. I think it ranged -- to the best of my recollection, it ranged from 2 point something to 3, 3.3. As depth increases, the weir coefficient increases.

Q. So your testimony, as you recall, is for your March 1st, 2010 report, your -- the calculated weir coefficient for the old spillway was not higher than the value previously used by ODNR?

A. No. My testimony is that for the March 1st report, the rating curve was entered into HMS incorrectly. The revised modeling that we provided today has a correct rating curve.

Q. Okay. So the report that's attached to your affidavit and under oath has an incorrect rating curve?

A. For the old spillway.

Q. For the old spillway?

A. Correct.

Q. And that was a result of a data entry error?

A. Correct. It appears the numbers were just typed in wrong.

Q. I still am not sure I got an answer to my question, which was, your testimony is that you have no knowledge that the weir coefficient you used in your March 1st, 2010 report is higher than the weir coefficient previously used by ODNR?

MS. WORLY: Objection. Used by ODNR at what point in time?

Q. Well, by Doyle Hartman.

A. I don't think you understand the way that it is entered into the model. You don't have to enter a weir coefficient into the model. The rating curve was given, so for a given pool level, there's a given discharge going over the spillway.

Q. So the -- all right. Maybe this -- I'll try this. The rating curve for the March 1st, 2010 report was incorrect, correct?

A. That is what I previously testified, yes.

Q. And did that result in an incorrect weir coefficient?

MS. WORLY: Objection. I think it's been asked and answered.

MR. FUSONIE: That has not been asked and answered -- that has not been answered.

MS. WORLY: If you can answer it, go ahead.

A. There is no weir coefficient entered into the model. Just a rating curve. The rating curve was not entered correctly in the March 1st modeling.

Q. All right. To try to close this loop, does the rating curve impact what the weir coefficient is going to be?

A. Based on a rating curve, you could back-calculate a weir coefficient, and if you were to do that because the numbers were not entered correctly, I'm sure it would look like a weir coefficient that might not make sense.

Q. Okay. And I know you've come here today with a few supplemental documents. This correction of the rating curve, is that reflected in the technical back -- the revised April 29, 2010 technical background report (indicating)?

A. Yes.

Q. Is it also reflected in any other

document that you have provided to me here today?

A. No.

Q. And it's -- I know you said which portion of the technical background has been updated. Can you remind me?

A. The HEC-HMS and HEC-RAS modeling, and Table 2.5.

Q. To the technical report?

A. To the technical report.

Q. Okay. Could I see your binder for a moment to compare it with the previous version?

Am I correct, then, that the new Table 2.5 shows for each event, a lower discharge for the old spillway than what was in the previous version of your report?

A. That is correct. I believe by 5 to -- on the order of 5 to 7 cubic feet per second.

Q. Looks like for -- I'll give this back to you. It looks like it is 5 to 9.

A. 5 to 9, sure.

Q. I'll let you look at that and tell me whether you --

A. That sounds correct.

Q. Do you agree with that, that's 5 to 9?
A. Yes.
Q. So there is now a greater disparity between the discharge occurring from the new spillway versus the old spillway?
A. By 5 to 9 CFS, which when run through the hydraulic model, has a maximum impact of a quarter of an inch (indicating).
Q. Okay. Let me first start with the difference between the two spillways, as far as the discharge has increased, correct?
A. Correct.
Q. And you're saying that it is a -- through the hydraulic model, there's a maximum impact of a quarter of an inch. Quarter of -- what do you mean by quarter of an inch?
A. I mean if you had an inch and took a quarter of it, that would be a quarter of an inch (indicating).
Q. Quarter of an inch as to the elevation level?
A. Of the maximum -- of the peak flood elevation.
Q. Got it.

Okay. Have you run -- have you mapped the impacts to peak flooding due to spillway improvements for the hundred-year flood event using the updated discharge?

A. The mapping was not updated.

Q. Okay.

A. Because that quarter of an inch does not show up at map scale, or is not significant.

Q. According to you. You made that decision that it wasn't significant?

A. Yes.

Q. Okay. Am I correct that you have not run -- you have not determined a peak spillway flow for the old spillway if the old spillway had been in place for the July, 2003 event?

A. I don't believe it was reported. I do recall making a run in the models.

Q. And what do you recall about the peak spillway flow using the old spillway?

A. I would have to go back and look at the results.

Q. What type of document do you have that reflects that?

A. The modeling that was provided.

Q. The modeling that was provided to me, to Vorys, has a run showing the July, 2003 event with the old spillway in place?

A. I would have to double check that to verify.

Q. But you remember doing such a run?

A. Yes.

MR. FUSONIE: I don't believe we got that. I'll have to confirm that.

MS. WORLY: Confirm.

MR. FUSONIE: It might be faster for Mr. Henson to confirm it. But if we didn't get it, I would ask for that run.

MS. WORLY: If you don't have it, put it in your e-mail.

MR. FUSONIE: Well, I'll make a request that he confirm from his end, as well.

MR. COLE: We'll check with him.

MR. FUSONIE: Thanks.

BY MR. FUSONIE:

Q. Do you remember that it was lower than the peak spillway flow from the new spillway for the July, 2003 event?

A. Yes, I do remember.

Q. Is it -- you have -- for a hundred-year event and 15-year event, your mapping does show that there is increased acreage flooded with the new spillway; is that correct?

A. That's correct.

Q. Is it fair to say if the 15 -- and you have determined -- your opinion is that the July, 2003 event was a 240-year event; is that correct?

A. 240-year rainfall.

Q. Rainfall event, that's fine. I was going to get to that.

A rainfall event and a flood event are not the same; is that correct?

A. Correct.

Q. Did you do any comparison as to the acres flooded with the new spillway in place for the July, 2003 event versus the -- if the old spillway were in place?

A. No.

Q. You weren't asked to do that?

A. No.

Q. Is it fair to say that if the hundred-year flood event caused increased

acreage, that a 240-year rain event would have caused increased acreage flooded by the new spillway?

A. Yes. If you compared the July, 2003 event with the old spillway in place, it is likely there would have been less acreage flooded near the dam.

Q. Okay. Could I see your binder for one more minute?

A. Which one?

Q. The technical one with the Table 2.5. I just have a couple questions on 2.5, and I'd rather use the updated one.

I'm going to ask you this question and then I'll give it back. Would you agree with me that your Table 2.5 shows that the 96-hour, five-year event with the new spillway has a higher peak spillway flow than the 96-hour, hundred-year event with the old spillway in place?

A. Can you repeat the question, please?

Q. Sure. Would you agree that the 96-hour, five-year event with the new spillway has a higher peak spillway flow than the 96-hour,

hundred-year event with the old spillway in place?

A. Agree.

Q. Would you similarly agree that the 24-hour, 15-year event with the new spillway in place has a higher peak spillway flow than the 96-hour, hundred-year event with the old spillway in place?

A. Agreed.

Q. Would you also agree that the 24-hour, 15-year event with the new spillway in place has a higher peak spillway flow than the 24-hour, hundred-year event with the old spillway in place?

A. Agreed.

Q. Are you familiar with Manning's N value?

A. Yes.

Q. Is that a -- what is Manning's N value?

A. That is a roughness factor that is used in hydraulic modeling.

Q. Does the value used, is it impacted by how much or how little vegetation is within the channel or on its banks?

A. Yes.

Q. Is the value used impacted by whether the waterway is channelized or not?

A. Yes.

Q. Am I right that you used -- that Stantec, for its HEC-RAS model here, used a Manning's N value of .045 for the Beaver Creek?

A. That's correct.

Q. As part of the HEC-RAS modeling, did you do cross section work or analysis?

A. Yes. Cross sections are part of the hydraulic model.

Q. Did Stantec add any levies or restrictions that are not actually physically present at those cross sections?

A. Not that I'm aware of.

Q. So you're not aware of any levies that were added that don't necessarily exist at that cross section?

A. Can you clarify what you mean by levy?

Q. Or within the flow for that cross section, any levies or other types of restrictions on the flow that were added that don't actually exist at that cross section?

A. The cross sections are cut from

topographic data, so if there's a levy, or what I think you're calling a levy, or a berm next to the creek, that would show up on topographic data. Sometimes it is appropriate to add ineffective flows, or there's an option in HEC-RAS called levy to properly model what is happening.

Q. Do you know for the HEC-RAS modeling that was done for this report, if that option levy was selected?

A. I don't recall right now.

Q. Did you yourself do the HEC-RAS modeling, or did you have someone else at Stantec do the HEC-RAS modeling?

A. I did the majority of the HEC-RAS modeling and oversaw it. There were people that assisted.

Q. Who else assisted? Who assisted you?

A. Anil Tangirala.

Q. You have to spell that for us.

A. A-n-i-l T-a-n-g-i-r-a-l-a.

Q. Anyone else that assisted you?

A. Melissa Williams.

Q. Anyone else?

A. They were the two people that assisted the most on the project.

Q. Would you agree that adding restrictions to the flow can impact the timing of that flow through a waterway?

A. Can you clarify?

Q. Sure. If you have one waterway that has a lot of bridges and another waterway that doesn't have any bridges, are the bridges going to impact the timing of the flow going through that waterway?

A. Yes, potentially.

Q. And so would berms or levies, potentially?

A. Potentially.

Q. Okay. The HEC-RAS model that Stantec used, it didn't include any cross sections for the tributaries along the Beaver Creek; is that correct?

A. Correct. No tributaries were involved.

Q. So you didn't -- the HEC-RAS model that Stantec used did not consider the backwater flooding of those tributaries from the Beaver Creek?

A. There was no hydraulic model developed for the tributaries. Using the model of the Beaver Creek where each tributary comes in, you could see what the maximum backwater elevation is.

Q. But you didn't do any cross sections of the tributaries?

A. There were no hydraulic models developed for tributaries.

Q. Okay. And there were no cross sections for the Wabash River upstream of the confluence with the Beaver Creek; is that correct?

A. Not in the hydraulic model.

Q. Would you agree with me that the cross sections used in Stantec's HEC-RAS model were primarily at the bridges?

A. There are four cross -- each bridge, there are four cross sections, and then there are cross sections in between each structure.

Q. Would you agree that the majority of the cross sections that Stantec used were at the bridges?

A. I'd have to count them to see if it's majority, but by the nature of the way hydraulic

modeling is done, the more sections at a bridge, less sections in between bridges.

Q. Am I correct that there were no cross sections done at overbank areas which may have -- may become significant channels at higher flood elevations?

MS. WORLY: Objection; compound question.

Can you break that down? You're making assumption that they may have been.

MR. FUSONIE: Well, I'm asking if there were any -- okay.

Q. Were there any cross sections done in overbank areas?

A. Cross sections extended into the overbanks.

Q. Okay. Did Stantec identify any overbank areas that could become significant channels during a floods event?

A. I think you're asking about split flow. And, no, split flow was not used on this project.

Q. Okay. Have you done -- you've done a visual inspection of the Beaver Creek; is that

correct?

A. Yes.

Q. Would you agree with me that there are no continuous levies along the Beaver Creek?

A. I haven't walked the entire reach. There are agricultural berms, but it's probably a fair characterization to say there's no structural levies.

-=0=-

(Relators' Exhibit I marked.)

-=0=-

MR. FUSONIE: I'm going to mark his revised report as Exhibit I. Do you have any problem with me keeping this exhibit versus providing it to the court reporter as the exhibit?

MS. WORLY: We have sufficient numbers. We're fine.

MR. FUSONIE: Oh, all right. Perfect. Thank you.

BY MR. FUSONIE:

Q. Mr. Henson, could you, for purposes of the record, tell me what I have marked as Exhibit I.

A. Yes. This is a CD titled, Grand Lake St. Mary's hydrologic and hydraulic model, revised April 29th, 2010, Report 1, technical background.

Q. Okay.

-=0=-

(Relators' Exhibit J marked.)

-=0=-

MR. FUSONIE: Do you have enough copies of this, too?

MS. WORLY: I do.

MR. FUSONIE: Thank you.

BY MR. FUSONIE:

Q. Mr. Henson, I'm going to show you what I've marked as Exhibit J. Would you identify this record for me, this document.

A. Yes. This is titled recorded pool levels -- well, this is a document that I brought today that contains -- there's not really a title on it. It contains historic pool level information.

Q. Where did you obtain this information?

A. This is the same data that was the -- an appendix in one of CRA's reports.

Q. Okay. Am I right in reading this that the average pool level is higher post spillway modification?

A. Correct. What you're looking at is for the nonmanaged months, so I took out all of the data from March -- let me see -- all of the data from April -- no.

I took out all of the data from when they previously managed the lake levels, which I -- if I recall --

Q. Looks like it's November through March.

A. November through March, correct.

And determined, based on that, an average pool level.

Q. And the average pool level for prespillway modification is 870.72 NGVD?

A. That is correct.

Q. And the average pool level for the postspillway modification is 870.96 NGVD?

A. That is correct.

Q. Okay.

A. The reason why I believe this is significant is that I think everybody agrees the new spillway allows more flow out of the lake.

Q. Correct.

A. So even though we're looking at nonmanaged months here, and we're -- the new spillway lets more flow out of the lake, we still see a higher average pool level, which, to me, can only mean there has been more rainfall and runoff into the lake and more rainfall and runoff, therefore, downstream of the lake.

Q. More rainfall and runoff into the lake causes more discharge from the spillway, correct?

A. Correct.

-=0=-

(Relators' Exhibit K marked.)

-=0=-

BY MR. FUSONIE:

Q. Mr. Henson, I'm going to show you what I've marked as Exhibit K. Could you identify Exhibit K for me?

A. This is titled "Analysis of Rainfall Data from Celina gage." And this is a summary of the rainfall data recorded at a NEO gage. It was Cooperative Station Number 33-1390. And we did an analysis on the rainfall prior to the new

spillway being conducted and -- being constructed and after the new spillway was constructed. And that showed that since the new spillway was constructed, there's a higher average annual rainfall at that gage. And in addition to that, the number of light rainfall days has decreased by 14 percent. And here we're defining light rainfall days as less than half an inch of precipitation in a 24-hour period.

Q. All right.

A. And the number -- so it would make sense that if the number of light rainfall days decreases, the rainfall -- and the average annual precipitation increases, that means there are more intense rainfalls since '97 than we've seen prior to '97.

Q. Well, let's break this down.

Your data for 1998 to 2007 excludes a whole year of 2004, correct?

A. Correct.

Q. So you've actually used less than 10 years, correct?

A. Correct.

Q. Which is something that you criticize Dr. Campbell for, correct, for using less than 10 years of statistical data?

A. Of lake level data.

Q. How is the statistical credibility any different? It's not.

A. In analysis of the rain gage.

Q. Do you have any knowledge as to the rainfall in 2004 at that gage?

A. The information was excluded because the data for that year was incomplete.

Q. So am I correct, if you have a -- everyone agrees that there was a significant rain event in July of 2003, correct?

A. Correct.

Q. And if you include that rain event in nine years of data versus 10 years of data, that's going to have a greater weight, correct?

A. Correct.

Q. Okay. And if there was also a rainfall event -- significant rainfall event in January of 2005, and you include that in nine years of data versus 10 years of data, it is going to have greater weight to the nine years of data,

correct?

A. Correct.

Q. Okay.

A. On the average annual precipitation. When you're looking at the number of light rainfall days versus medium rainfall days versus severe rainfall days, you have a much, much larger sample because you're talking about 365 days in a year for that many years. So that data is what I believe is significant on this exhibit.

Q. Your average number of severe rainfall days for 1985 to 1996 is seven, correct?

A. Of severe rainfall days, correct.

Q. Your average number of severe rainfall days for 1998 to 2007, excluding a full year, is nine, correct?

A. For severe rainfall days, correct.

Q. We have no idea how many severe rainfall days there were in 2004 at that gage, do we, based on what you have here in this exhibit?

A. The data was incomplete for 2004.

Q. Okay. Do you have any reason to believe that the average number of rainfall days at this

gage is any different than the rainfall on the Grand Lake, statistically?

MS. WORLY: Objection; vague.

Do you understand his question?

A. Could you please rephrase?

Q. I believe you're trying to use this average rainfall at this gage to show how much rain is running off into the Grand Lake; is that correct?

A. No.

Q. There's an -- well, that there's an increase in the average number of rainfall days at this gage, correct?

A. Repeat that again.

Q. Sure. This document is to try to show that there is an increase in the average number of rainfall days at this gage.

MS. WORLY: Objection. Why don't you just ask him what he believes it shows?

MR. FUSONIE: I'm asking my question.

A. Could you please restate it again?

Q. Sure. You have here rainfall days -- an average number of rainfall days.

Let me start with this. You have an

average annual precipitation for 1985 to 1996, correct?

A. Correct.

Q. And you have one for 1998 to 2007, correct?

A. Correct.

Q. And this is from the Celina 3 NE Ohio gage, correct?

A. Correct.

Q. And why did you select that gage versus any other gage?

A. That was the nearest to the watershed.

Q. To the Grand Lake St. Mary's --

A. Grand Lake, St. Mary's, Beaver Creek, Wabash River watershed.

Q. Okay. Which includes the lake itself, correct?

A. It is the nearest gage to that watershed, yes.

Q. The watershed includes the lake?

A. Includes the lake, yes.

Q. All right.

-=0=-

(Relators' Exhibit L marked.)

-=0=-

BY MR. FUSONIE:

Q. Would you identify Exhibit L for me.

A. Yes. It's titled "Impacts to Peak Flooding for Old Spillway at Winter Pool for 100-year Flood Event."

Q. And this is a -- did you prepare this map?

A. It was prepared under my direction.

Q. When was it prepared?

A. It was prepared yesterday.

Q. Yesterday?

And was there a similar map showing impacts to peak flooding for the new spillway at winter pool for the hundred-year flood event?

A. No. What this map shows is -- the yellow is a 100-year flood event through the new spillway. The blue is a 100-year flood event through the old spillway, but with the lake level beginning 12 inches below the old spillway crest. So if the old spillway -- if the pool level were drawn down, as it was previous to the construction of the new spillway, and there was a 100-year rainfall, that's what the blue

represents.

Q. Okay.

MS. WORLY: Off the record for just a second.

(Discussion held off the record.)

Q. If you look at the impacts due to peak flooding for the 100-year flood event and compare it to Exhibit L, if you look at Parcel Number 64, would you agree with me that for Exhibit L, it shows it flooded? It shows yellow, and for the 100-year flood event, it doesn't show it yellow?

MS. WORLY: What are we comparing to?

MR. FUSONIE: Here it's yellow (indicating). And by "here," I mean Exhibit L.

MS. WORLY: Which map are you comparing to?

MR. FUSONIE: Impacts of peak flooding due to spillway improvement for the 100-year flood event.

(Pause in proceedings.)

A. Uh-huh.

Q. There's no flooding on the -- in the impacts of peak flooding due to spillway

improvement for the 100-year flood event, correct?

MS. WORLY: Objection. I believe what you want to say is there's no yellow in one parcel -- on one map as opposed to the other.

MR. FUSONIE: Well, actually he's showing on Exhibit --

Q. On the impacts to peak flooding due to spillway improvements for the 100-year flood event, Mr. Henson, you're showing no flood event, correct?

A. Correct.

Q. And for the Exhibit L, for 64, you have flooding, correct?

A. Correct.

Q. And for Parcel 82, let's start with Exhibit L, you show flooding, correct?

A. Correct.

Q. And for the impacts to peak flooding due to spillway improvements for 100-year flood event, you don't show any flooding, correct?

A. Correct. I think it's important to point out that while the mapping is a tool to look at the results of the hydraulic modeling,

the modeling itself contains the information that is -- you know, that should be used to determine impacts to parcels.

Q. Okay. I'm --

A. In other words, when you map the results of a hydraulic model, you're comparing the computer water surface elevation to the ground surface. Right?

Q. Right.

A. The results of that when it's done using the computer, there's lots of manual cleanup and fixes after you get the results out of the computer that need to be done. So it -- the mapping --

Q. There's a lot of quality assurance you've got to do with HEC-RAS, as well, though, isn't there?

MS. WORLY: Let him finish his answer.

MR. FUSONIE: Sorry.

A. So the mapping is a tool to help visualize the results of the model.

Q. Okay. There's a lot of quality assurance that has to be done with the HEC-RAS model, correct?

A. Correct.
Q. And same with the HEC-HMS model?
A. Correct.
Q. And this map, that is, the impacts to peak flooding due to the spillway improvements for a hundred-year flood event, was attached to an affidavit under oath, correct?
A. Correct.
Q. And you have just testified under oath about this -- about Exhibit L, which you provided to us today, correct?
A. Correct.
Q. And that map says impacts to peak flooding for old spillway at winter pool for a hundred-year flood event, correct?
A. Correct.
Q. And you've explained to me under oath that the yellow indicates areas of flooding caused by the new spillway versus the old spillway, correct?
A. The yellow is a general visualization of the model results.
Q. So the yellow is the areas that -- where the new spillway has caused flooding that the

old spillway did not cause, correct?

A. That is the intent of -- for the map, to visualize that.

Q. Okay.

A. To get the actual difference in elevations, you would go to the model itself.

Q. The map represents, in yellow, areas that have been flooded by the new spillway that were not flooded under the old spillway, correct?

A. Correct. That's the --

Q. That's what it shows?

A. That's the results of the hydraulic model, mapped using a computer, yes.

MS. WORLY: Are you finished with these maps for now?

MR. FUSONIE: I am, thank you.

MS. WORLY: Should we fold them back up?

MR. FUSONIE: That's fine with me.

(Pause in proceedings.)

BY MR. FUSONIE:

Q. The normal pool elevation with the new spillway, am I correct it's 870.6?

A. That is the elevation in NGVD.

Q. NGVD?

A. Correct, that's my understanding.

Q. And the spill -- the old spillway, at least until 1988, the normal pool elevation was 870.27. Does that sound correct?

A. I don't know. I don't recall having seen that.

Q. Do you recall that the -- around 1988, there were stoplogs put in place to raise the elevation of the lake?

A. Yes.

Q. And do you recall that the elevation of the normal pool was raised to 870.6 NGVD?

A. Correct.

Q. And the normal pool elevation, do you recall, was raised, I think it was somewhere between 3 and 4 inches? Does that sound correct to you?

A. 4 inches sounds correct.

Q. So if we take out 4 inches from 870.6, the normal pool elevation between 1988 was 870.2. Does that sound correct?

A. Correct.

Q. Okay. Do you recall that Dr. Campbell

reported that since -- between 1997 and 2006, the -- 73 percent of the daily measurements collected at the lake reflected elevations at 870.6 or above?

A. I don't recall the exact percentages in numbers, but I think it is in a report.

Q. If you can look at 3.1.

A. Okay.

Q. The last paragraph. It actually says, he reported that since 1997, 70 -- did you mean where it says 73 percent of daily measurements collected reflect lake elevations above 871.5, did you mean 870.6?

A. If that was what was in his affidavit. We would have to check his affidavit.

Q. But you see that the next thing you say is, 26 percent reflect lake elevations above 871.5. So one of them's got to be incorrect, right?

A. We could check Campbell's affidavit to see.

Q. I think if we can help refresh your recollection, on the next page, it says, "Stantec's analysis shows that from 1989 to

1997, 66 percent of measurements taken reflect lake elevations above 870.6."

Does that help refresh your recollection that the 73 percent that you refer to is connected to the 870.6?

A. That sounds correct.

Q. And you would agree with me that there is a higher percentage of measurements between 1997 and 2006 versus 1989 and 1997 that's above 870.6?

A. Could you please repeat that?

Q. Sure. You would agree with me that for the period of 1997 to 2006, there is a higher percent of daily measurements collected that reflect lake elevations above 870.6 than between 1989 to 1997?

MS. WORLY: Objection.

If you can tell that from this statement.

A. I'm sorry. Can you repeat it one more time?

Q. Let me try it this way. Dr. Campbell, as you report in 3.1, report -- Dr. Campbell said that since 1997, 73 percent of daily

measurements collected reflect lake elevations above 870.6. You don't dispute the math there, do you?

A. I don't know that I checked it, but...

Q. So you have no reason to --

A. I have no reason -- I did not dispute it -- I mean, I did not check it.

Q. Okay. So you have no reason to doubt it because you didn't check it?

MS. WORLY: Objection.

I think he said he doesn't know.

MR. FUSONIE: He doesn't know, okay.

Q. So assuming it's accurate for purposes of my question, it's 73 percent between 1997 and 2006, and assuming Stantec's calculation is accurate for 1989 and 1997, that's 66 percent of the measurements, correct?

A. Correct.

Q. So 73 percent is higher than 66 percent, correct?

A. Correct.

Q. Similarly, if Dr. Campbell's math is correct, between 1997 and 2006, 26 percent of the daily measurements reflect lake elevations

above 871.5, and if Stantec's measurements are correct, 19 percent of the measurements between 1989 to 1997 were at or above 871.5, correct?

A. Correct.

Q. And the simple math is that 26 percent is higher than 19 percent.

A. That is correct.

Q. Okay. Were you aware that when Dr. Campbell prepared his Case Leasing reports, that he was using the hydrology and hydraulic modeling provided by ODNR?

A. Yes.

Q. Okay. I'm going to show you what's been previously marked as Exhibit D, and specifically, I'm going to show you Table 1 from Exhibit D, which is model results for historical storm events, Grand Lake St. Mary's, Mercer and Auglaize Counties, Ohio.

A. Uh-huh.

Q. Do you recall seeing this table before?

A. Yes.

Q. Do you see that there's a 39.4-foot spillway column?

A. Yes.

Q. For maximum lake elevation?
A. Yes.
Q. And there's a similar column for the 500-foot spillway maximum lake elevation?
A. Yes.
Q. Would you agree with me that for each rainfall runoff event, that the maximum lake elevation is higher for the 39.4-foot spillway than the 500-foot spillway?
A. Yes.
Q. And is that consistent with your study of the maximum lake elevations for the 39.4 and the 500, that the 39.4 had a slightly larger storage capacity, or retention?
A. I'm not sure you stated that correctly, but I think what you are trying to say is that for a given event, the lake elevation for -- through the -- as a result of the 39.4-foot spillway being in place would be higher than with the 500-foot spillway in place.
Q. Okay. And that was -- that's consistent with your work in this case, correct?
A. Correct.
Q. In your 3.0 discussion, the second

paragraph, last sentence -- well, strike that.

MR. FUSONIE: Just give me five minutes to -- I'm -- I just need five minutes to make sure I haven't missed anything.

MS. WORLY: That's fine.

(Recess taken.)

BY MR. FUSONIE:

Q. Mr. Henson, have you ever done any study of the flooding pre 1997 along the south side of Grand Lake St. Mary's?

A. You talking about along the lake shore?

Q. Correct.

A. We've calculated lake elevations for various storm events pre and post spillway.

Q. Are there areas that you recall to the south side of the lake that have now decreased flooding because of the new spillway?

A. Yes.

Q. And -- okay. What conversations have you -- are you familiar with Philip De Groot?

A. Yes.

Q. What conversations have you had with Dr. De Groot about this lawsuit or any of your work in this lawsuit?

A. He attended a meeting at our office. I don't remember the exact date.

Q. Do you remember what month?

A. I really do not remember the month. I believe it was this year.

Q. Was it before you signed your affidavit?

A. Yes.

Q. Was it before you finalized your hydrology and hydraulic reports that you attached to your March 1st affidavit?

A. Yes.

Q. Who else was present at that meeting?

A. There were several Assistant Attorney Generals. We've had, I believe, both Mindy Worly, Bill Cole. I do not recall if Jenny Croskey was at that one. Myself, Jay Dorsey. Phil De Groot. I don't recall if Dave Moore attended that one.

Q. Can you tell my what was discussed during that meeting.

MS. WORLY: Objection. To the extent that you're asking him to recall information or conversations or discussions that would be protected by attorney work product, I would

instruct him not to answer.

Q. What did Dr. De Groot tell you?

A. We generally discussed the work that we've been working on. We looked at some mapping.

Q. What mapping did you look at?

A. I believe it was the mapping that was included in the report.

Q. Were any of the maps included in the report modified based on discussions with Dr. De Groot?

A. I don't recall any discussions with him that directly modified those maps.

Q. Did he make any suggestions about the modeling used in your report?

A. He did provide some information. Not at that meeting.

Q. He provided information to you at another meeting?

A. No.

Q. By e-mail?

A. Yes.

Q. What information did he provide you by e-mail?

A. I believe it was some information about the modeling that we had done.

Q. Do you have a copy of that e-mail?

A. Not with me.

Q. But you have it at your office at Stantec?

A. Yes.

MR. FUSONIE: I'd request that I get a copy of that e-mail. I'll include that as part of my e-mail summary.

Q. Do you recall any other documents he provided you?

A. Not that he provided me.

Q. Did you provide him with any documents?

A. I forwarded him some affidavits of some of the respondents (sic) that talked about the March flood event.

Q. March of this year?

A. Yes.

MR. FUSONIE: I'd ask for a copy of that e-mail.

Q. Why did you forward him a copy of those affidavits?

A. I thought it might be useful to him.

Q. Did you obtain those from the Attorney General's office?
A. Yes.
MR. COLE: I think he meant to say relators rather than respondents.
MR. FUSONIE: Yeah.
Q. Have you -- do you recall any photos or videos attached to those affidavits?
A. Yes.
Q. Have you reviewed any of those photos or videos?
A. Not all of them, but some of them, yes.
Q. Okay. Mr. Henson, I'm going to show you what's been previously marked as Exhibit E. I know that this is a document you saw during Dr. Campbell's deposition yesterday, but prior to that, did you -- had you seen this document?
A. Yes, I've seen this or some version of this.
Q. Did you help prepare this document?
A. No.
Q. Do you have an understanding as to why it was prepared?
A. I believe the intention was to show the

location of parcels in this current lawsuit.

Q. Does it also show parcels that were involved in that prior lawsuit regarding the spillway?

A. Yes, it does.

MR. FUSONIE: I don't have any further questions. I may have some followup.

MS. WORLY: Okay. I have some followup.

EXAMINATION

BY MS. WORLY:

Q. Mr. Henson, we've talked a lot about mapping today. And you brought a supplement, which I believe has been labeled as Exhibit L. And Mr. Fusonie asked you some questions about Exhibit L, specifically about some yellow squares that appear in Exhibit L that were not on a previous exhibit attached to your affidavit. Can you explain the difference, why there appears to be a difference.

MR. FUSONIE: Objection. Maps speak for themselves.

Q. You can answer.

A. As I said before, the hydraulic model is what you need to look at to determine impacts of

flooding on a parcel. The mapping that has been prepared is a tool that can be used to assist in that. There's lots of manual cleanup effort that goes into producing the maps.

Q. And so why would one map contain more yellow squares or grids or whatever than another?

A. When --

MR. FUSONIE: Objection.

Q. You can answer.

MR. FUSONIE: Speculation.

A. When the mapper was preparing it, when you compare the water surface elevation to the ground elevation, a lot of times you end up with little puddles that are connected by thin -- or not connected at all -- by very thin lines, and a determination has to be made if flooding could reach that area or not. It appears in this case, even though the elevations from the model were the same, a different decision was made by the mapper on whether to include that as flooded area or not.

Q. You testified earlier that one-quarter-inch change for peak flood elevation

is insignificant. What was the basis of that testimony?

A. Well, the topographic information has a certain accuracy, and in FEMA mapping standards, a quarter of an inch -- you would not redraw a flood map for a quarter of an inch elevation difference.

Q. Why not?

A. Because it would not show up at any map scale.

Q. In response to an earlier question, you stated that you had not used a HEC-RAS unsteady flow model to generate a flood study map for FEMA. Have you used the unsteady flow modeling option in HEC-RAS for other studies?

A. Yes, for many studies, many -- where it is appropriate to use unsteady flow, such as dam break studies, other flood studies where -- for other clients where -- it's not necessarily for FEMA, but where an unsteady flow model is appropriate.

Q. Can you give me a couple of examples of when you used unsteady flow model.

A. Sure. We've done some modeling for TVA,

the Tennessee Valley Authority, in both Kentucky and Tennessee, where unsteady flow modeling were used. Numerous dam break studies where you're looking at downstream impacts from a dam that fails, where we've used unsteady flow modeling.

Q. And all of that's since 2001?

A. Yes.

Q. Are you familiar with the Linn Grove stream gage?

A. Yes.

Q. Where is that located?

A. That is about 20 miles down the Wabash River in Indiana.

Q. Were you aware of this gage when you were building your hydrologic and hydraulic model?

A. Yes.

Q. Why didn't you use this gage, the Linn Grove gage data, to calibrate your models?

A. Because the drainage area -- if you look at the USGS Web site, I think it reports the drainage area at that gage is -- I don't know if I recall the exact number, on the order of 450 square miles, but if you look at the actual

drainage area to that gage -- because Grand Lake St. Mary's lies on a drainage divide when the USGS was calculating the drainage area to the Linn Grove gage, it appears that they took it right through the middle of Grand Lake St. Mary's, which is not appropriate. So the actual drainage area at that Linn Grove gage is on the order of 520 square miles. The area -- the drainage area of our study at the state line is on the order of, I think, 300 square miles, so that's a significant difference -- I don't know what the -- not quite double, but almost double the drainage area at the Linn Grove gage, which is beyond the limits to where standard engineering practice would have you use that as a -- to calibrate a model.

In addition, because we're using unsteady flow in this instance, there was no hydrologic routing of Beaver Creek and Wabash River in the study reach. It was done on the unsteady flow model. So in order to calibrate at that gage 20 miles into Indiana, we would have to extend the hydraulic model 20 miles into Indiana, and I don't believe we had good enough

topographic data in Indiana to do that.

Q. Is a drainage area the same thing as a watershed?

A. Yes.

Q. Now, did you calibrate your model?

MR. FUSONIE: Objection; vague.

Q. You can answer.

A. Yes. There was very good information available from the July, 2003 storm event, both in lake elevation data and high watermarks, that were surveyed by the Mercer County engineer that were used to verify and calibrate the hydrology and hydraulic models. Very closely.

Q. And what was the watershed or the drainage area that was used for the calibration purposes?

A. Well, I'm not sure that there -- there were high watermarks, so instead of a -- there was no drainage area used. The high watermarks in the pool level and the verification to stream flow, to a regression equation, was used to calibrate.

Q. And that information came from where?

A. The high watermark elevation came from

the Mercer County engineers. The lake level elevation came from ODNR records. The regression equation was calculated from the literature of engineering practice.

Q. Earlier today, you were also asked a couple of questions about which method you used to establish the time of concentration for your watersheds in the HEC-HMS model. Can you briefly describe your approach for estimating the time of concentration.

MR. FUSONIE: Objection as to form.

A. Yes. The TR-55 method was used, which, as we discussed earlier, has a sheet flow, shallow concentrated flow, and channel flow component, verified in appendix -- Plate 9 of Appendix A of the Grand Lake St. Mary's and Beaver Creek hydrologic and hydraulic analysis technical report that 100 feet was used as the sheet flow length.

Q. Why is there a length limit on the sheet flow portion of the flow path?

A. Because after a certain point, water stops flowing over land and concentrates into a shallow channel or more concentrated flow.

Q. Where does that guidance come from?

A. From TR-55, Technical Release 55, which was produced by the Natural Resources Conservation Services, formerly SCS.

Q. Now, earlier you talked about the tributaries and how they were accounted for in your hydraulic models. Can you tell us how that was done.

MR. FUSONIE: Objection; mischaracterization.

A. As I testified earlier, we did not -- there were no hydraulic models produced for any of the tributaries, but given the -- the backwater was mapped of each of the tributaries based on the peak elevation in Beaver Creek or Wabash River. And because the tributaries have a much smaller drainage area than the Beaver Creek and Wabash River themselves, the flow -- the local inflow from those tributaries would have entered Beaver Creek before Beaver Creek was at its peak elevation, which is why we can say that properties along those tributaries are not impacted by flow from the new spillway -- additional flow from the new spillway.

Q. I'd like to draw your attention to Table 4. And we talked about it earlier and I have a couple questions about Table 4. And I wanted you to tell me how you identified parcels for inclusion in Table 4.

A. Sure.

MR. FUSONIE: Objection. Table 4 speaks for itself.

A. In the executive summary introduction and executive summary section of the report, under Numbers 4 and 5, I describe how, for the 15-year, 96-hour event downstream of Fleetwood Road, the increase in depth due to additional spillway is small enough that no noticeable additional area is inundated. And likewise, under Number 5 in the executive summary, noted that for a hundred-year event, downstream of State Route 29, no -- the increase in flooding was small enough to cause no noticeable area to be inundated. And so Table 4 and Table 1 only included those parcels upstream of those roads.

Q. And what do you mean when you say "no noticeable"? What does "noticeable" mean in your report?

A. It means that when you are -- a very small area might be inundated, but when you're looking at map scale, it might be almost impossible to see unless you zoom way in, or -- that's what I mean by noticeable.

MS. WORLY: I don't think we have anything else.

MR. FUSONIE: I have a few followup.

FURTHER EXAMINATION

BY MR. FUSONIE:

Q. We talked earlier about your hundred year -- I call it the map that shows the impact of the new spillway for the hundred-year event, and there were areas on that map that were in yellow that were west of Fleetwood Road, correct?

A. Correct. Or US 29.

Q. US 29, sorry. US 29.

And if one of those areas of yellow on the parcel was one acre, are you saying that that's not noticeable?

A. I'm saying that the increase in flood elevation for those at those areas is very small.

Q. If it was one acre and you were the owner, you would consider that small?

MS. WORLY: Objection; hypothetical.

Do you want to show him a specific parcel?

Q. Well, Table 7 -- you included in Table 7 for some of these parcels' acres impacted. For example, Carmen and Jill Ellis for the hundred-year event, .8 acres impacted.

A. I see that.

Q. Okay. So you would agree with me that .8 acres is a noticeable impact?

A. It depends on the definition of noticeable.

Q. Well, as you used it to create Table 7, you included Carmen and Jill Ellis, .8 acres impacted, so for purposes of Table 7, .8 acres is noticeable, correct?

A. I believe that was included because it was upstream of State Route 29.

Q. Well, your testimony was that there was no noticeable flooding west of US 29. And I'm trying to find out what you mean by "no noticeable," when east of US 29, you've

identified a parcel of .8 acres impacted. So if there was a parcel west of US 29 that had .8 acres impacted by the new spillway for the hundred-year flood event, would it similarly be a noticeable impact?

A. There's a difference between area and depth. All right? So that .8 acres, because it's closer to the dam, to the spillway, there's a greater increase in depth of flooding. Once you get further from the spillway and downstream of State Route 29, the increase in depth of flooding is very, very small.

Q. You have a separate table for parcels impacted by -- well, Table 7 identifies acres impacted by spillway, correct?

A. Correct.

Q. And one of those parcels is Carmen and Jill Ellis, and you have .8 additional acres impacted for the hundred-year event, correct?

A. Correct.

Q. You're not -- and you're not an appraiser, right?

A. No.

Q. You don't have any licenses as far as an

appraiser goes?

A. No.

Q. You can't -- you're not determining the value of properties as far as one that has .8 acres impacted versus another one that has .8 acres impacted by flooding, correct?

A. No.

Q. The Linn Grove gage station -- have you ever looked at the monthly flow records for the Linn Grove station from 1964 to today?

A. Yes.

Q. Have you ever tried to split them up between 1964 and 1997 and 1997 to today?

A. No.

Q. So you have no knowledge as to whether the monthly average has increased for 10 of the 12 months since 1997?

MS. WORLY: Objection.

What area are we talking about?

MR. FUSONIE: The Linn Grove gage station.

Q. You don't have any knowledge as to that --

A. No.

Q. -- one way or another?

Have you looked at the daily flow records for the Linn Grove gage station since 1964 to the present?

A. I have looked at that gage data, yes.

Q. Have you identified any high daily flows since 1964 to today?

A. I did not do it. Since it was not included to calibrate the model, I did not do a thorough investigation of the gage.

Q. So you're not aware --

A. I looked at the data but I did not do any kind of analysis.

Q. You're not aware that the three highest daily flows at the Linn Grove station since 1964 all occurred after 1997?

A. No.

Q. You testified on questions from Ms. Worly about this one-quarter-inch increase in elevation was insignificant, was how you described it.

A. Correct.

Q. But you have supplemented your report by changing the data in Figure 2.5; is that

correct?

A. Correct. Table 2.5.

Q. Table 2.5, sorry.

After Dr. Campbell's deposition yesterday, did you perform any investigation or research as a result of his deposition?

A. No.

Q. Were you asked to perform any research or investigation as a result of any testimony that Dr. Campbell provided yesterday during his deposition?

A. No.

Q. Have you reviewed any of the landowner affidavits in this lawsuit?

MS. WORLY: Objection; asked and answered.

Also, it's beyond the scope.

MR. FUSONIE: It's not beyond the scope. I'm trying to establish something about -- it's not beyond -- well, you have your objection.

MS. WORLY: All right.

A. Not all of them, but some of them I have read.

Q. Did you review any that had aerial maps

to explain why it is.

MR. COLE: The objection's on the record.

MR. FUSONIE: Yes, it is.

Q. So what you're saying is that the testimony of the landowners in this case as to increased flooding wasn't important to you?

A. No, I did not say that.

Q. You just skimmed it? Isn't that what you just said? You just read through them very quickly is what you testified, correct?

A. Correct.

MR. FUSONIE: Okay. That's all I have. Thank you.

I know you're going to advise him on whether to read or not. While we're on the record, I know we talked about for these transcripts, they would be done within seven days, the ones from yesterday, and then that the deponent would read them within seven days. Just so we have that, as well, for these -- I forgot to do it for Dr. De Groot, but can we agree for this deposition and Dr. De Groot, it is a similar condition?

MS. WORLY: Yes.

MR. COLE: We will agree, possibly with the -- if we get it in on late Friday, but whenever we get it, whether we get it five, 10 days, the witness is -- the deponents will take no more than seven days to review and submit any errata.

MR. FUSONIE: Okay. Thanks.

MS. WORLY: You have the right to read and review and correct your deposition transcript. And I would suggest -- I can't tell you what to do, but I generally think that's a good idea. It's up to you to make the decision.

THE WITNESS: I would like to.

MS. WORLY: We call it read.

THE WITNESS: I would like to read.

-=O=-

Thereupon, the testimony of April 29, 2010, was concluded at 5:53 p.m.

-=O=-

*Attach to the deposition of TADD HENSON, P.E.
DONER, ET AL. V. ODNR, ET AL.
Case No. 2009-1292

STATE OF OHIO :
SS:
COUNTY OF Franklin :

I, TADD HENSON, P.E., do hereby certify that I have read the foregoing transcript of my deposition given on April 29, 2010; that together with the correction page attached hereto noting changes in form or substance, if any, it is true and correct.

Tadd H Henson

I do hereby certify that the foregoing transcript of TADD HENSON, P.E. was submitted for reading and signing; that after it was stated to the undersigned notary public that the deponent read and examined the deposition, the deponent signed the same in my presence on 8 this 12th day of May, 2010.

Julie F Klusty

NOTARY PUBLIC
My commission expires: 8/6/2011

NOTARY PUBLIC STATE OF OHIO

JULIE F. KLUSTY
Notary Public, State of Ohio
My Commission Expires 8-6-2011

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Columbus, OH 43215-5542
(614) 460-5000 FAX (614) 460-5566

ERRATA SHEET

Case Caption: CASE NO. 2009-1292
Deposition of: TADD HENSON
Date Taken: APRIL 29, 2010

INSTRUCTIONS

If there are any corrections, indicate them on this form giving the change, page number, line number and reason for the change.

REASONS FOR CHANGES

1) To clarify the record.
2) To conform to the facts.
3) To correct transcription errors.

Page #	Line #	Change	Reason#
11	3	dam break to DAMBRK	3
17	15	Moore to Mohr ~ and all subsequent occurrences	3
17	16	Brian to Bryon ~ and all subsequent occurences	3
67	12	levies to levees ~ and all subsequent occurences	3
67	19	levy to levee ~ and all subsequent occurences	3

Please initial here if no changes: _____

CERTIFICATE

STATE OF OHIO :
SS:
COUNTY OF FRANKLIN :

I, Sara S. Clark, RPR/CRR/CCP/CBC, a Notary Public in and for the State of Ohio, duly commissioned and qualified, do hereby certify that the within-named TADD HENSON, P.E. was first duly sworn to testify to the truth, the whole truth, and nothing but the truth in the cause aforesaid; that the testimony then given was reduced to stenotypy in the presence of said witness, afterwards transcribed; that the foregoing is a true and correct transcript of the testimony; that this deposition was taken at the time and place in the foregoing caption specified.

I do further certify that I am not a relative, employee or attorney of any of the parties hereto; that I am not a relative or employee of any attorney or counsel employed by the parties hereto; that I am not financially interested in the action; and further, I am not, nor is the court reporting firm with which I am affiliated, under contract as defined in Civil Rule 28(D).

In witness whereof, I have hereunto set my hand and affixed my seal of office at Columbus, Ohio, on this 6th day of May, 2010.

Sara S. Clark
Sara S. Clark, RPR/CRR/CCP/CBC
Notary Public, State of Ohio.

My commission expires: March 10, 2013

AFFIDAVIT OF TADD H. HENSON

STATE OF OHIO)
) SS:
COUNTY OF FRANKLIN)

Tadd H. Henson, being first duly sworn, states as follows:

1. I am competent to make the statements contained in this affidavit and I have personal knowledge of the facts stated, which are true and accurate to the best of my knowledge.

2. I hold Bachelor of Science and Master of Science degrees in civil engineering.

3. I am a licensed professional engineer in the State of Ohio.

4. I earned the classification of Certified Floodplain Manager by the Association of State Floodplain Managers after successful completion of that organization's exam.

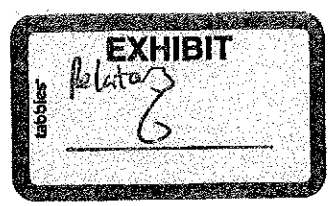
5. I have over 12 years of experience in complex civil engineering projects including flood insurance studies and watershed studies.

6. I have experience with a variety of hydrologic and hydraulic models.

7. I am currently employed as a Project Manager with Stantec.

8. A true and accurate copy of my curriculum vitae is attached as Exhibit A and incorporated in this affidavit.

9. I have been retained by Ohio Department of Natural Resources as an expert witness in the case captioned State ex rel. Wayne T. Doner, et al. v. Sean D. Logan, Director, Ohio Department of Natural Resources, et al., Ohio Supreme Court Case No. 2009-1292.



10. My expert opinion and the facts and data on which my opinion is based are contained in my reports, a true and accurate copy of which is attached as Exhibit B and incorporated in this affidavit.

Tadd H. Henson

Sworn to and subscribed before me this 1st day of March, 2010.

Notary Public

JULIE F. KLUSTY
Notary Public, State of Ohio
My Commission Expires 8-6-2011

Tadd H. Henson PE CFM

Senior Associate

Stantec

Mr. Henson has over twelve years of experience working on complex civil engineering projects with a focus of flood studies. He has also worked on the design of bridges and culverts, scour analysis, dams and reservoirs, flood insurance studies, watershed studies, storm sewer systems, detention basins, levees, plan and specification development and review, mine reclamations and landfills. He is proficient in a variety of hydrologic and hydraulic models and is proficient in the application of Geographic Information Systems (GIS) to aid in engineering analysis. Over the past six years, Mr. Henson has been responsible for conducting flood studies for thousands of stream miles of in states throughout the Midwest including Ohio, Michigan, Iowa, Kansas, Nebraska, Missouri, and Indiana. These studies were completed for the Federal Emergency Management Agency (FEMA) and are published on Flood Insurance Rate Maps (FIRMs).

EDUCATION

BS, Civil Engineering, Tri State University, Angola, Indiana, 1997

MS, Civil Engineering, The Ohio State University, Columbus, Ohio, 2001

REGISTRATIONS

Professional Engineer #66954, State of Ohio

Certified Floodplain Manager #US-04-01182, Association of State Floodplain Managers

PROJECT EXPERIENCE

Flood Studies

FEMA Production and Technical Services Contract, Regions I, V, VII, and X.
Mr. Henson provides technical oversight and project management for flood studies for the Federal Emergency Management Agency (FEMA). Current studies are being conducted in the states of New Hampshire, Ohio, Illinois, Michigan, Iowa, Kansas, Nebraska, and Idaho.

FEMA Region VII IDIQ, Iowa, Missouri, Nebraska and Kansas
Mr. Henson provides project management and technical oversight for countywide floodplain map modernization efforts in for multiple projects in Iowa, Missouri, Nebraska and Kansas. The projects involved, determining 100-year floodplain extents, redelineation of effective floodplain areas; establishing new Zone A boundaries (i.e. approximate studies); incorporation of existing detailed studies, leverage studies, and Letters of Map Change (LOMC's); and coordination with local community partners. Project deliverables include development of updated county-wide DFIRM mapping, a revised Flood Insurance Study report, and a Technical Support Data Notebook (TSDN).

FEMA Region V IDIQ Contract HSFE05-05-D-0026, Ohio, Indiana, Michigan, Wisconsin, Minnesota, and Illinois
Mr. Henson provides project management and technical oversight for countywide floodplain map modernization efforts in for multiple projects in Ohio, Indiana, Michigan and Illinois. The projects involved, determining 100-year floodplain extents, redelineation of effective floodplain areas; establishing new Zone A boundaries (i.e. approximate studies); incorporation of existing detailed studies, leverage studies, and Letters of Map Change (LOMC's); and coordination with local community partners. Project deliverables include development of updated county-wide DFIRM mapping, a revised Flood Insurance Study report, and a Technical Support Data Notebook (TSDN).

Franklin County, Ohio Floodplain Permit Review
Under contract with the Economic and Planning Department of Franklin County, Ohio, Mr. Henson conducts technical reviews of submitted flood studies for compliance with County Regulations, FEMA standards and standard engineering practice.

Tadd H. Henson PE CFM

Senior Associate

Linn County, Iowa Levee Mapping, Cedar Rapids, Iowa
Under contract with FEMA Region VII, Mr. Henson was the project manager on a project to incorporate updated hydraulic modeling for the Cedar River in Cedar, Iowa. The results of the study were incorporated into the Digital Flood Insurance Rate Maps (DFIRMs) for Linn County to account for a levee that had been de-accredited. Stantec produced workmaps for the City to aid in recovery efforts following the flooding during the summer of 2008.

Polk County, Iowa Levee Mapping, Des Moines, Iowa
Under contract with FEMA Region VII, Mr. Henson was the project manager on a project to incorporate updated hydraulic modeling for Des Moines River, Fourmile Creek, Raccoon River, and Walnut Creek within the City of Des Moines, Iowa. The updated hydraulic models included the remapping of de-accredited levees on Des Moines River and to meet FEMA Guidelines and Specifications (G&S). The results of the study were incorporated into the Digital Flood Insurance Rate Maps (DFIRMs) for Polk County. Both Provisionally Accredited Levees (PALs) and de-accredited levees were included in this project and mapped.

Licking County DFIRM Mapping, FEMA Region Licking County DFIRM Mapping, FEMA Region V, Licking County, Ohio
The Federal Emergency Management Agency's Region V has chosen counties within their region to be part of their Map Modernization Initiative. Licking County was chosen as one of those counties, mainly due to their proactive floodplain management and GIS data. As the lead engineer on this project, Mr. Henson managed the day-to-day activities required to update Licking County's paper maps to a single seamless digital countywide map. The updated incorporated updated hydrologic and hydraulic modeling and included mapping for approximately 440 stream miles.

Symmes Road LOMR, Butler County, Ohio
The Union Centre Boulevard Extension (formerly Symmes Road Extension) from State Route 747 to Seward Road was opened for traffic on December 10, 2001. The project included a 1.7 mile, four lane roadway with eight foot paved berms. The project also included the construction of the Union Centre Boulevard Bridge over Mill Creek. The bridge crosses Mill Creek and a CSX Railroad approximately 2,750 feet upstream from the existing SR 747 Bridge. The construction of this bridge required Butler County Transportation Improvement District to submit data to the Federal Emergency Management Agency (FEMA) reflecting revised flood hazard information so that National Flood Insurance Program (NFIP) maps can be revised as appropriate. Stantec was hired to complete a Letter of Map Revision (LOMR) for the Union Centre Boulevard bridge over Mill Creek.

Dams and Levees

Lake White Dam, Pike County, Ohio
Performed hydrologic and hydraulic computations to determine the hydraulic impacts of a project to armor the dam with Roller Compacted Concrete.

Chocktaw Lake Principal Spillway Repairs, Madison County, Ohio
Performed a condition survey of the spillway and recommended that the principal spillway pipe, a deteriorating Corrugated Metal Pipe, be slip-lined with a High Density Polyethylene pipe. Also recommended areas of repair for deteriorating concrete.

Stroman Lake Dam Rehabilitation, Saint Paris, Ohio
Mr. Henson worked with the client to determine cost effective solutions to spillway capacity and seepage problems of the dam.

Runkle Farm Pond Dam, Saint Paris, Ohio
Responsible for the investigation and design of a 20-acre lake. The lake was created by the construction of nearly 2,000 feet of earth dike. Mr. Henson oversaw the completion of the plans and specifications, permitting, and construction of dam. Responsibilities also included the preparation of an Emergency Action Plan (EAP) that could be implemented in the event of a dam failure. The EAP includes the analysis of a dam failure and the determination of the subsequent downstream inundated area.

Zanesville State Nursery Dam, Zanesville, Ohio
Performed Hydrologic and Hydraulic Modeling to determine cost effective solution for increasing the spillway capacity, while at the same time increasing water capacity available for irrigation. The final design included raising the dam and constructing an open channel reinforced concrete spillway spanned by a box beam bridge. Responsibilities also

Tadd H. Henson PE CFM

Senior Associate

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included the preparation of an Emergency Action Plan (EAP) that could be implemented in the event of a dam failure. The EAP includes the analysis of a dam failure and the determination of the subsequent downstream inundated area.

Jackson Lake State Park Dam, Oak Hill, Ohio

Mr. Henson was responsible for the design and investigation for the rehabilitation of Jackson Lake State Park Dam. Mr. Henson's responsibilities included performing geotechnical analysis of the dam and hydrologic and hydraulic analysis of the existing dam and spillway system and preparing a list of options for improving the capacity of the spillway system and safety of the dam. Mr. Henson also prepared plans and specifications for the improvements to the dam, which included the design of Roller Compacted Concrete (RCC) as overtopping protection on the downstream face of the dam, and expansion of the existing open channel reinforced concrete stepped spillway, and the lining of a deteriorated Corrugated Metal Lake Drain Pipe with a High Density Polyethylene Pipe. An emergency action plan for the dam was also developed. This involved performing a dam break analysis and routing the flows from the dam break downstream. The modeling was performed using the National Weather Service's DAMBRK software.

Glass Rock Plant Dam Raising, Glenford, Ohio

Mr. Henson performed engineering analysis and design of a tailings dam raising. The dam was raised 17 feet to extend the life of the tailings pond. Mr. Henson performed a Hydrologic and Hydraulic Investigation and designed the principal and emergency spillway systems. He also performed slope stability analyses for the proposed dam raising. The slope stability analyses showed that elevated pore pressures in the foundation materials were a concern; therefore, Mr. Henson oversaw the installation of pneumatic piezometers and the monitoring of pore water pressures during construction.

Lima Reservoirs Emergency Action Plan, Ohio

Mr. Henson was responsible for the preparation dam failure analyses and inundation mapping for several upground reservoirs in the City of Lima, Ohio. The modeling was performed using the National Weather Service's DAMBRK software.

Maker's Mark Earthen Dam Expansion Project, Loretto, Kentucky

Maker's Mark Distillery's planned facility expansion required enlarging the process water source lake at its distillery in Loretto, Kentucky. The dam was originally constructed during the 1930s and no original design or construction records were available. The crest of the existing dam was narrow, and limited freeboard existed above the normal pool. Design requirements included raising the normal pool level by 10 feet, thus increasing the volume by nearly 28 million gallons. All appurtances had to remain functional during construction to maintain distillery production. Mr. Henson served as the project lead to complete a dam failure analysis. A dam breach hydrograph was generated using HEC-HMS and then routed downstream using the unsteady flow option in HEC-RAS.

Olen Quarry Levee Removal, Prairie Oaks Metro Park, Franklin County, Ohio

An existing levee system adjacent to Big Darby Creek at Prairie Oaks Metro Park protects the quarry area from flooding. However, this levee also acts as a barrier to floodplain access for the stream and is a source of stream bank erosion. When the Franklin County Metro Parks assumed control of this land, they were interested in removing sections of the levee in order to reduce the frequency and occurrence of stream bank erosion and to re-establish the stream's connection with the floodplain. Mr. Henson performed complex unsteady state modeling in order to predict the interaction of the stream and quarry pond under existing conditions and once the levee was removed. The model results will also be used to assist in the geomorphologic design of the project.

Thompson Ditch Flood Protection, Terre Haute, Indiana

Lead Design Engineer for the investigation and design of over 6 miles of levee and floodwall in the City of Terre Haute, Indiana. Mr. Henson's responsibilities included hydraulic modeling of the pre and post project conditions, preparation of a Conditional Letter of Map Revision, evaluation of the Stormwater management for drainage inside the levee, reinforced concrete floodwall design, geotechnical analysis and design of the earth flood levee, and design for management of floodwater outside the levee.

Tadd H. Henson PE CFM

Senior Associate

Bridges

Allen Road Bridge over East Fork Mill Creek, Hydraulic Analysis, Ohio

Mr. Henson was responsible for performing an unsteady flow analysis for East Fork Mill Creek in order to determine the flooding impacts of constructing a new bridge. Mr. Henson developed an unsteady flow model and analyzed several different bridge configurations in order to find a new bridge that would pass the 100 year flood while minimizing additional downstream flooding. Mr. Henson was also responsible for performing a scour analysis of the new bridge.

Brown Road over Bokes Creek, Delaware County, Ohio

Mr. Henson was responsible for performing a flood study to determine the impacts of a bridge replacement. Mr. Henson performed an analysis from the existing and proposed conditions and assisted in preparing of the floodplain permit.

Emergency Planning / Response

Gibson Station Cooling Reservoir Emergency Action Plan, Owensville, Indiana

Mr. Henson was responsible for the preparation of an Emergency Action Plan (EAP) that could be implemented in the event of a failure of the 3000-acre Gibson cooling reservoir. The EAP included the analysis of various failure scenarios and the subsequent area inundated by the failure.

Flood Control and Drainage Management

Wm. H. Zimmer Landfill, Clermont County, Ohio

Performed design for the control of surface water within the Zimmer FGD Landfill. Design included diversion berms, channels, and a sedimentation pond.

Mallard Pond Erosion Control, Fairfield County, Ohio

Mr. Henson was responsible for the preparation of plans and specifications for the construction of bank protection for a drainage ditch that was eroding an adjacent pond embankment. The design included the use of an erosion control mat and rock riprap protection in various areas. Mr. Henson completed the applications and obtained permits as required under Section 401 and 404 Clean Water Act. Mr. Henson also facilitated the bidding process for the client and oversaw the construction of the project.

American Electric Power Floodplain Permits, Ohio and West Virginia

On three separate occasions American Electric Power has contacted with Stantec to assist with floodplain permitting issues for expansions of existing facilities. Stantec assisted AEP with floodplain permitting by evaluating multiple alternatives for several landfill expansions as well as several the construction of river cells within the floodway. Work was completed for facilities in both Ohio and West Virginia. Mr. Henson oversaw all work completed for these projects and coordinated with the FEMA group that reviews Letters of Map Revisions (LOMRs).

Hydrologic / Hydraulic Assessments

M.L. "Red" Trabue Park, Dublin, Ohio

Mr. Henson was responsible for performing Hydrologic and Hydraulic computations and earthwork balance computations to assist the landscape architects in storm water management for the design of wetlands and ponds for the park.

Stormwater Sewers and Forcemains

Storm Sewer Modeling and Evaluation, Marion Road Area, Columbus, Ohio

Some portions of the Marion Road area storm water system do not have sufficient capacity, and include combined sewers that need to be separated. Mr. Henson performed SWMM modeling in order to evaluate alternative sewer designs for separating combined flow and increasing sewer capacity.

Storm Sewer System Design, Skyline Drive Subdivision, Columbus, Ohio

Mr. Henson oversaw the design of a storm sewer system for a 1950's residential development. Residents experience local flooding problems as a result of the flat topography and the limited capacity of the existing storm drains.

Watershed Planning

Hellbranch Watershed Forum Action Plan, Franklin County, Ohio

Mr. Henson was the project manager responsible overseeing a team of Engineers, Scientists and GIS professionals guiding the development of the watershed action plan for the Hellbranch Watershed. Hydrologic and Hydraulic analyses for existing conditions and several possible future conditions

** denotes projects completed with other firms*

were conducted in order perform an impact analysis to determine the effects that urbanization will have on the watershed. Mr. Henson has also been responsible for undertaking the cost effectiveness and incremental cost analyses for the various ecosystem restoration alternatives identified for the restoration sites in the watershed. Potential restoration sites were identified through a geomorphic assessment and a wetlands inventory. The geomorphic assessment included the characterization of the major streams in the watershed and the identification of problem areas that could be viable candidates for stream restoration efforts, as well as a characterization of the riparian areas surrounding the streams. The wetlands inventory included the identification of existing wetlands along with significant areas of hydric soils that would support future wetlands. Specific ecosystem restoration alternatives were developed for one chosen restoration site and these alternatives were evaluated through the cost effectiveness and incremental cost analyses as required by the Army Corps of Engineers. Ecological benefits have been calculated for wetlands using Ohio Rapid Assessment Method (ORAM) scores, and for streams, the ecological unit used is the Qualitative Habitat Evaluation Index (QHEI) score.

ADDENDUM TO THE

HYDROLOGIC AND HYDRAULIC ANALYSIS
GRAND LAKE ST. MARYS DISCHARGE TO BEAVER CREEK
MERCER AND AUGLAIZE COUNTIES, OHIO

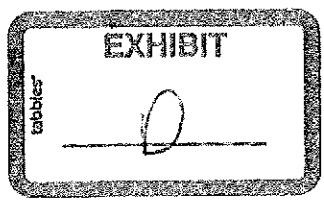
Case Leasing and Rental, Inc. Property
Celina, Ohio

Prepared for:

Schottenstein Zox & Dunn Co., LPA
250 West Street
Columbus, Ohio 43215

NOVEMBER 2006

CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816



ADDENDUM TO THE

HYDROLOGIC AND HYDRAULIC ANALYSIS
GRAND LAKE ST. MARYS DISCHARGE TO BEAVER CREEK
MERCER AND AUGLAIZE COUNTIES, OHIO

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EXECUTIVE SUMMARY

This addendum report was prepared as a supplement to the May, 2006 report, *Hydrologic and Hydraulic Analysis Grand Lake St. Marys Discharge to Beaver Creek, Mercer and Auglaize Counties, Ohio* prepared by Conestoga-Rovers & Associates (CRA).

The CRA May 2006 Report evaluated the impact of the replacement of the spillway at Grand Lake St. Marys (GLSM) on flooding along Beaver Creek and analyzed nine severe historical storm events between 1913 and 2006. The modeling of these storm events was conducted using the historical rainfall data in the GLSM area. The discharge of water over the 39.4-foot spillway was compared to the discharge of water over the 500-foot spillway installed in 1997. The purpose of this analysis was to determine whether and to what extent the design and construction of the 1997 spillway affected the frequency and severity of flooding on properties (and specifically the Case property) along Beaver Creek.

After the trial of this matter was continued on August 29, 2006, CRA was finally able to obtain accurate GLSM lake level data from 1927 to 2006. Using this information, CRA was able to complete a more accurate analysis of historical storm events. A total of sixteen severe storm events were analyzed to determine the potential for flooding along Beaver Creek. The additional analysis by CRA, using the best available data, demonstrates that never during the entire period of record did the 39.4-foot spillway cause the Case sports complex to flood. However, the 500-foot spillway would have caused the Case property, and numerous other properties, to flood ten (10) times.

Contrary to accepted engineering practice, ODNR did not consider and/or model actual historical rainfall data or historical lake elevations during the development and implementation of its plan to manage the probable maximum flood through GLSM. Had ODNR completed such an evaluation, they would have known that their decision to replace the 39.4-foot spillway with their 500-foot spillway would cause - indeed, has now four times since its installation caused (July and December, 2003; January 2005; and June 2006)[1] – severe flooding in Beaver Creek and the nearby properties. ODNR's design and installation of the existing 500-foot spillway is indefensible. Feasible alternatives were and are available to ODNR, but these alternatives were not employed. If ODNR does not take action to correct its mistake, flooding along Beaver Creek will continue to occur.

[1] Refer to Table 1 and Figures 7a and 7b through 10a and 10b.

BACKGROUND

A. The CRA May 2006 Report and Efforts to Obtain Lake Level Data Prior to August 28, 2006

The CRA May 2006 Report analyzed ODNR lake level data (reported in feet above mean sea level, msl) between 1927 and 1978, that was provided to CRA by the Louisville District Army Corps of Engineers (USACE). In addition, ODNR directly provided to CRA lake level measurements (reported as ± inches above an ambiguously described elevation[2]) that it had collected between 1972 and 2006, as well as some field notes that purported to explain how to translate ODNR's measurements into a standard elevation (i.e., feet msl). Prior to the August 28, 2006 trial, Case (both through its counsel and CRA) repeatedly contacted ODNR in an attempt to obtain clarification of the ODNR measurement technique and field notes, but was never able to obtain this clarification. As a result, CRA did not have accurate lake elevations and completed its historical storm modeling for the May 2006 Report using historical recorded rainfall data.

B. The August 28-29, 2006 Trial

On August 28, 2006, Dr. Pressley Campbell testified on behalf of Case regarding the impact of the replacement of the western spillway at GLSM on flooding along Beaver Creek. During the testimony of ODNR's witness, Doyle Hartman, it was learned that Hartman was relying on lake level data—provided to him only a couple of days before trial—that was never provided and/or explained to Case's counsel or CRA prior to trial. On the basis of this data, Hartman criticized the CRA modeling of historical storms because CRA's modeling was not performed using GLSM lake levels. As a result, the trial was postponed to allow Case to take necessary steps to obtain accurate lake level data. CRA traveled to GLSM on August 29th and met Mr. Steven Dorsten of ODNR to observe and photograph the GLSM gauge located on the eastern

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[2] During the deposition of Steve Dorsten on September 8, 2006, ODNR's lake measurement practices were revealed. According to Dorsten—whose understanding of the mathematics involved is based solely on the oral history provided him by his long-departed supervisor—ODNR collects measurements at one of three lake gauges, not all of which are at the same elevation, in ± inches of the "0" marking on the gauge. For readings collected prior to July 1988, 3 inches were to be added to the reading. For readings collected after July 1998, 7 inches were to be added to the reading. The basis for the addition of 3 inches to the measurement was that when the eastern outlet structure gauge was installed in approximately 1940, it was reportedly installed 2.78 inches below the crest of the 39.4-foot spillway and since the elevation of the spillway crest was known, one could back-calculate the lake elevation. The measurements began adding 7 inches because in July 1988 the crest of the 39.4-foot spillway was raised by approximately 4 inches, so 7 inches were needed in the back-calculation procedure.

outlet structure. Dorsten was personally responsible for recording measurements from the GLSM gauges since 1976.

C. **Survey of the Lake Gauges**

On September 8, 2006, Mr. Dorsten was deposed and testified that there are three different gauges at GLSM. Dorsten also testified that the elevation of the gauges was not known by ODNR; specifically, that no survey of any of the existing gauges (to determine if they were accurately measuring the elevation of the lake) was to be found in ODNR's files. Accordingly, ODNR and Case jointly arranged for the completion of a survey of the elevation of the three gauges by a licensed professional land surveyor. On September 19, 2006 Lee Surveying, Inc., of Bellefontaine, Ohio, completed this survey, the results of which are attached as Appendix A. The survey revealed that the gauges were not at the elevations ascribed to them by ODNR, meaning that the GLSM lake levels have been consistently under-reported by ODNR.

ADDITIONAL ANALYSIS PERFORMED BY CRA

In order to accurately determine the lake levels between 1927 and 2006 and complete an accurate analysis of the impact of the spillway replacement, CRA completed the following tasks:

(1) CRA calculated the GLSM lake levels for the period April 1, 1927 to August 21, 2006 based upon the actual elevation of the three lake gauges at GLSM, as determined by the survey. The survey demonstrates that the lake elevations reported by ODNR for the last seventy-nine years were less than the actual lake elevations. The lake elevation data are attached in Appendix B.

(2) Using the correct historical lake levels, CRA calculated the actual discharge of water that flowed (or would have flowed) over the 39.4-foot spillway and the 500-foot spillway, respectively, into Beaver Creek between April 1927 and August 2006. The results of the calculations are illustrated on Revised Figure 3 attached as Appendix C. Using the accurate lake levels, this analysis reveals that, had the ODNR-designed 500-foot spillway been constructed 70 years earlier (in 1927), fifteen storm events between 1927 and 2006 would have resulted in flow that exceeds the capacity of Beaver Creek, resulting in flooding; an average of approximately once every five years.

(3) CRA evaluated the rainfall record from 1913 to 2006 and the accurate historical lake levels from 1927 to 2006 to identify the historical periods where rainfall resulted in high lake elevations, the factors that can cause severe runoff and flooding in the GLSM area. The evaluation identified sixteen storm events that had such an impact:

March/April	1913	June/July	1993
January	1930	February/March	1997
April	1938	July/August	1998
May	1943	May	2002
February	1950	June/July	2003
April/May	1972	December	2003
May	1981	January	2005
July	1992	June	2006

(4) Using the HEC-2 computer model employed by ODNR, CRA determined the water surface elevation along Beaver Creek that had (or would have) occurred from the discharge over the 39.4 and 500-foot spillways for the sixteen most significant storm events that occurred between 1913 and 2006. These results demonstrate that, **with the 39.4-foot spillway, the Case sports complex would not have flooded during a single event. However, with the 500-foot spillway, water in Beaver Creek overflows the channel banks and inundates the Case property ten times:** in 1913, 1930, 1943, 1981, 1992, 1993, July 2003, December 2003, 2005, and 2006. The results of this modeling are presented on Table 1 and illustrated on Figures 1a and 1b through 10a and 10b.

(5) CRA completed an analysis of the lake levels from 1927 through 1997—when ODNR ceased managing lake levels—and 1997 through 2006, when ODNR no longer managed lake levels. The results of the lake level analysis are presented on Table 2. The results follow:

- Since 1997, 73.3 percent of the measurements taken reflect lake level elevations above 870.6 feet msl, the elevation at which water overflows the 50-foot long notch in the spillway and enters Beaver Creek. Before 1997, the lake level was above 870.6 feet for only 21.4 percent of the measurements.
- Since 1997, 26.3 percent of the measurements collected reflect lake level elevations above 871.5 feet msl, the elevation at which water overflows the entire 500-foot length of the spillway. Before 1997, the lake level was above 871.5 feet for only 2.4 percent of the measurements.
- Since 1997, 10 percent of the measurements taken reflect lake level elevations above 871.8 feet msl, the lake elevation at which the 500-foot spillway discharges a quantity of water that will overflow the Beaver Creek channel banks at the Case property. Before 1997, the lake level exceeded 871.8 feet for only 1 percent of the measurements.

As evident above, since the construction of the 500-foot spillway in 1997, the lake levels of GLSM are consistently and significantly higher than historically. When the lake level of GLSM is above 870.6 feet msl, water is discharging into Beaver Creek. If the lake is at or above that

elevation when a storm event occurs, the storm is more likely to cause flooding in Beaver Creek, regardless of the size of the event; and the higher the initial lake elevation, the more dramatic the impact will be. The combination of the 500-foot spillway and the ODNR policy of not managing the lake levels drastically increases the risk of flooding for downstream property owners. This risk has become reality four times since the construction of the 500-foot spillway, (July and December, 2003; January 2005; and June 2006)[3].

For example, on July 2, 2003, three days before the storm began that inundated Case, the elevation of the lake was 871.2 feet msl, more than seven (7) inches above the notch (870.6 feet). For the December, 2003 event, the initial lake elevation was 871.7 feet msl, more than one foot above the notch and two inches higher than the remaining 450 feet of the spillway (871.5 feet).

ANALYSIS OF DOYLE HARTMAN'S REPORT AND METHODOLOGY

During his testimony on August 28, 2006 and in his report dated July 14, 2006, Mr. Hartman implied that the frequency and severity of flooding in Beaver Creek resulting form the 1997 spillway replacement are minimal. However, when CRA evaluated the new lake elevations, in conjunction with the historical rainfall information, the analysis disclosed that Hartman's conclusions are not supported by the data. (Indeed, the potential for flooding in Beaver Creek as a result of the 500-foot spillway installation is far more severe than initially reported in the May 2006 CRA report.) CRA examined Hartman's methodology to determine why his calculations of the frequency and severity of flooding in Beaver Creek underestimated the problem. To that end, CRA obtained and evaluated the HEC-HMS and HEC-RAS models used by Hartman.

A. Hartman's Use of a 24-Hour Duration Storm Event

Hartman used a 24-hour duration storm event in his modeling and analysis to predict the magnitude of flooding that would be caused by ODNR's 500-foot spillway. However, Hartman did not examine the historical record to determine if his selection of the 24-hour duration event corresponded with recorded storm durations of the past. It does not. The storm event durations that have historically resulted in the most severe flow in Beaver Creek were 72-hour, and longer events. Hartman's selection and use of the 24-hour duration event misleadingly suggests that the severity of flooding in Beaver Creek caused by the 1997 spillway is significantly less than what the Creek and adjoining properties experience during the numerous storm events that exceed 24 hours. His model does not accurately reflect the conditions of the GLSM area.

[3] Refer to Table 1 and Figures 7a and 7b through 10a and 10b.

B. The Flaws in Hartman's Model

The models used by Hartman, HEC-HMS and HEC-RAS, were developed by the U.S. Army Corps of Engineers, which also promulgated guidance for the proper use of the models. Hartman's modeling deviated from the Army Corps of Engineers guidance in, at least, two key respects:

(1) Hartman modeled the 2003 storm event to determine the potential flooding along Beaver Creek. However, during modeling, Hartman used the precipitation data from only one meteorological station (Coldwater), rather than using the HEC-recommended method that prescribes the use of all available records at multiple stations. Hartman states in his July 14, 2006 report, "there were not enough detailed data to accurately determine the actual amount and distribution of rainfall in the various segments of the overall watershed." This is not true. Seven National Oceanic & Atmospheric Administration (NOAA) meteorological stations are located within a 35-mile radius of the western spillway at GLSM with precipitation data dating back to 1910. Hartman did not input the publicly available rainfall data at the six other stations, including stations at Celina and St. Marys. Instead Hartman assumed, in constructing his model, that the amount of rainfall recorded at the Coldwater station was the amount of rainfall that fell over the entire 296 square mile drainage basin he used in his model. That is not what happened. The distribution of rainfall, as recorded by the seven stations, was not similar to the distribution used by Hartman in his modeling.

Standard modeling practice is to collect the available data including rainfall, streamflow, and lake levels, and input this known recorded data into the model. Once the model is set up with the known data, unknown variables, such as soil conditions and antecedent moisture conditions, can be adjusted in an attempt to match actual recorded conditions such as, in this instance, the flood elevations measured during the 2003 flood. It violates standard practice and common sense to adjust the known, recorded data such as rainfall, as Hartman did. For his model, Hartman admits that he selected a rainfall amount from one location and assumed it was distributed uniformly over 296 square miles, "Although the actual rainfall distribution varied widely across the entire watershed, a uniform distribution was assumed in the entire watershed analysis." This is a gross misuse of the modeling process. The results from a model that bases its conclusions on inaccurate depictions of known, recorded conditions, such as the amount of rainfall and rainfall distribution, is not credible.

(2) Hartman modeled the 2003 storm event using the methodology described above. His conclusion was that the flood elevations in Beaver Creek immediately downstream of GLSM were approximately 861 feet msl for the 500-foot spillway and approximately 857.5 feet msl for the 39.4-foot spillway. This is approximately a 3.5 foot difference in elevation as a result of the replacement of the spillway as stated by Hartman in his July 2006 Report. The Mercer County Engineers Office surveyed the 2003 flood elevation on July 9, 2003 during the flooding, directly

downstream of the 500-foot spillway and determined the flood elevation to be 861.8 feet msl. This differs from Hartman's model by approximately 0.8 feet. Therefore, the model used by Hartman underestimates the amount of flooding that occurred in 2003 at the Case property and likely also underestimates the amount of flooding caused by other storms. There is no indication that Hartman made an attempt to verify the accuracy of his model by comparing the model output to recorded flood elevations, as standard engineering practice dictates.

CONCLUSION

The use of accurate historic lake elevations in the calculations and modeling of discharge into Beaver Creek from GLSM demonstrates that the potential for flooding as a result of the installation of the 500-foot spillway is substantially worse than originally reported in the CRA May 2006 Report, which used precipitation data to predict flooding. However, because ODNR failed to consider and analyze historical lake level data or precipitation data—as is standard engineering practice—, it did not realize that the installation of the 500-foot spillway would cause, and now has repeatedly caused, frequent and severe flooding in Beaver Creek, and the surrounding properties (including the Case property).

The impact of this error has been greatly compounded by ODNR's decision to adopt a laissez faire approach towards lake level "management"; a decision that was apparently made without any consideration, or scientific analysis, of the effect that this decision would have, and has had, on Case and the people living and working in the vicinity of Beaver Creek.

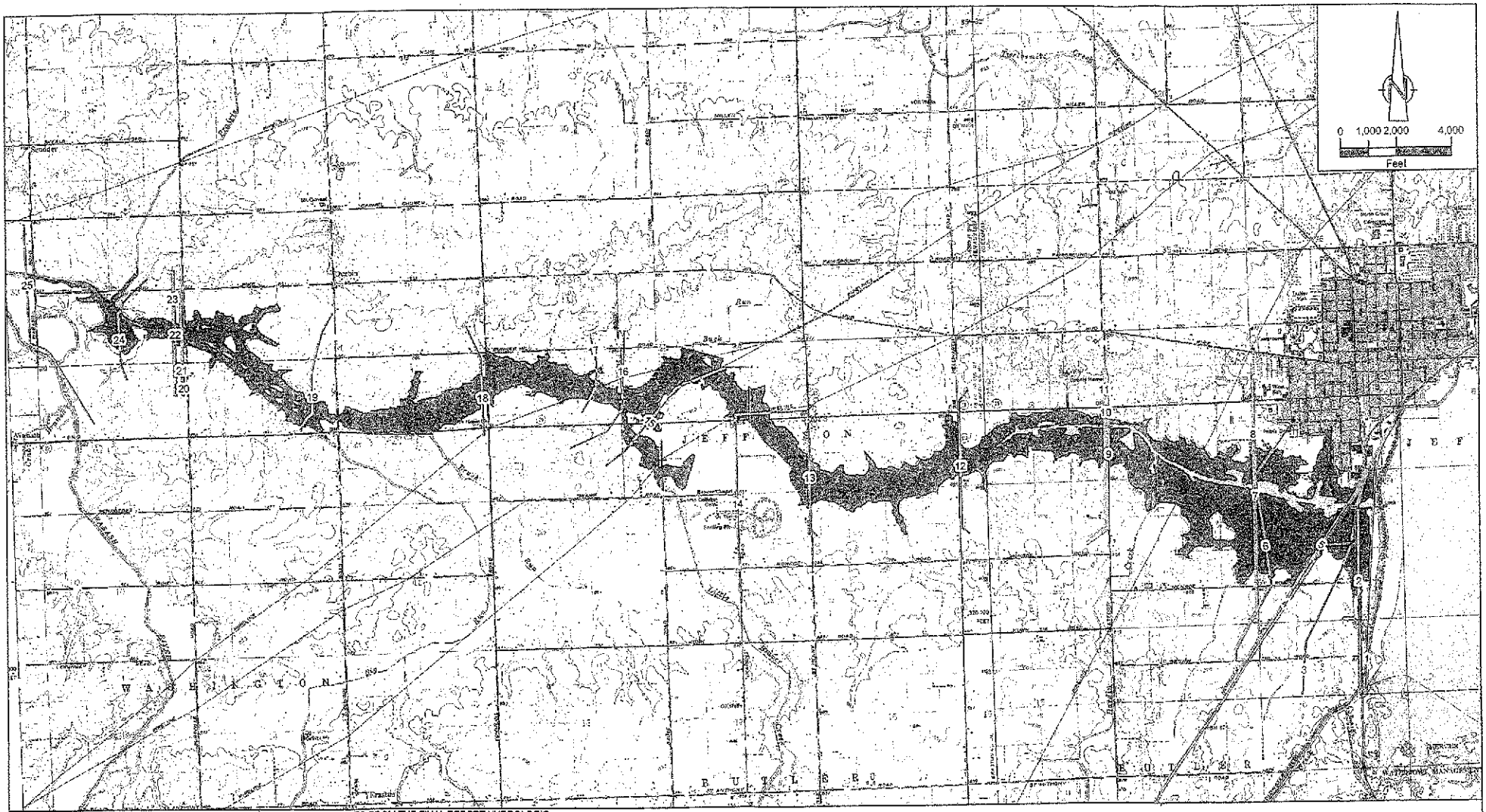
As stated in CRA's earlier report and in the testimony of Dr. Campbell, ODNR had feasible alternatives available in 1997 to prevent GLSM from overtopping the embankments separating the lake from the City of Celina, without sacrificing the property and endangering the safety of the residents near Beaver Creek. ODNR failed to utilize those measures. It has also failed to take the simple measure of opening the gates in the spillways, as necessary, to avoid the risk that higher lake elevations have on flooding. ODNR's actions, omissions and practices, as described in this Report, do not comport with accepted engineering standards.

All of which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Pressley L. Campbell, Ph.D., PE
Ohio PE 56681

FIGURES

FIGURES



CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BBC&M ENGINEERING, INC.

UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (CELINA & ERASTUS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

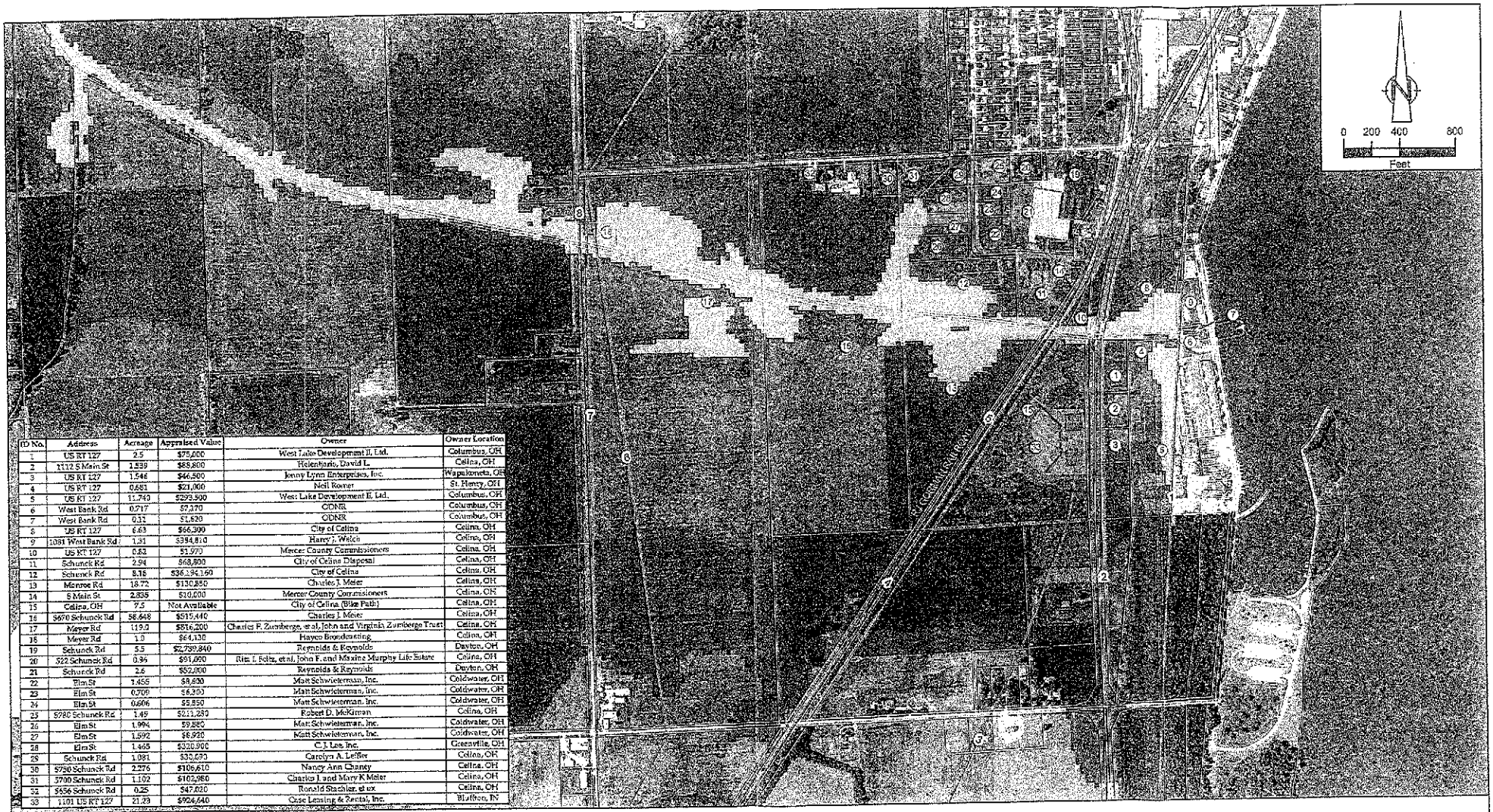
THIS FIGURE ILLUSTRATES MODELING COMPLETED FOR THE CRA MAY 2006 REPORT AND IS IDENTICAL TO FIGURE 4a IN THE CRA MAY 2006 REPORT.

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 500-FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 39.4-FOOT SPILLWAY

Figure 1a
MARCH/APRIL 1913 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.5	$75,000	West Lake Development II, Ltd.	Columbus, OH
2	2112 S Main St	1.539	$88,800	Holentanis, David L.	Celina, OH
3	US RT 127	1.546	$46,500	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.681	$21,000	Neil Romer	St. Henry, OH
5	US RT 127	11.740	$293,500	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,170	ODNR	Columbus, OH
7	West Bank Rd	0.32	$1,920	ODNR	Columbus, OH
8	US RT 127	6.63	$66,300	City of Celina	Celina, OH
9	1081 West Bank Rd	1.31	$384,810	Harry J. Welch	Celina, OH
10	US RT 127	0.83	$1,970	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$68,800	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.18	$36,134,160	City of Celina	Celina, OH
13	Monroe Rd	16.72	$130,850	Charles J. Meier	Celina, OH
14	S Main St	2.855	$10,000	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	58.648	$515,440	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$816,200	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$64,130	Hayco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,739,840	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.96	$91,000	Ric. J. Bolz, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$52,000	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$8,630	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$4,300	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$5,850	Matt Schwieterman, Inc.	Celina, OH
25	5780 Schunck Rd	1.49	$211,280	Robert D. McKirnan	Coldwater, OH
26	Elm St	1.994	$9,880	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.592	$6,920	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.465	$320,900	C.J. Lee, Inc.	Greenville, OH
29	Schunck Rd	1.081	$30,690	Carolyn A. Leffler	Celina, OH
30	5750 Schunck Rd	2.276	$106,610	Nancy Ann Chaney	Celina, OH
31	5700 Schunck Rd	1.102	$102,980	Charles J. and Mary K Meier	Celina, OH
32	5556 Schunck Rd	0.25	$47,020	Ronald Stechler, et ux	Celina, OH
33	1101 US RT 127	21.29	$924,640	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BEC&M ENGINEERING, INC.

UNITED STATES DEPARTMENT OF AGRICULTURE AERIAL PHOTOGRAPH DATED JUNE 23, 2004

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THE FIGURE WERE OBTAINED FROM THE MERCER COUNTY, OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005

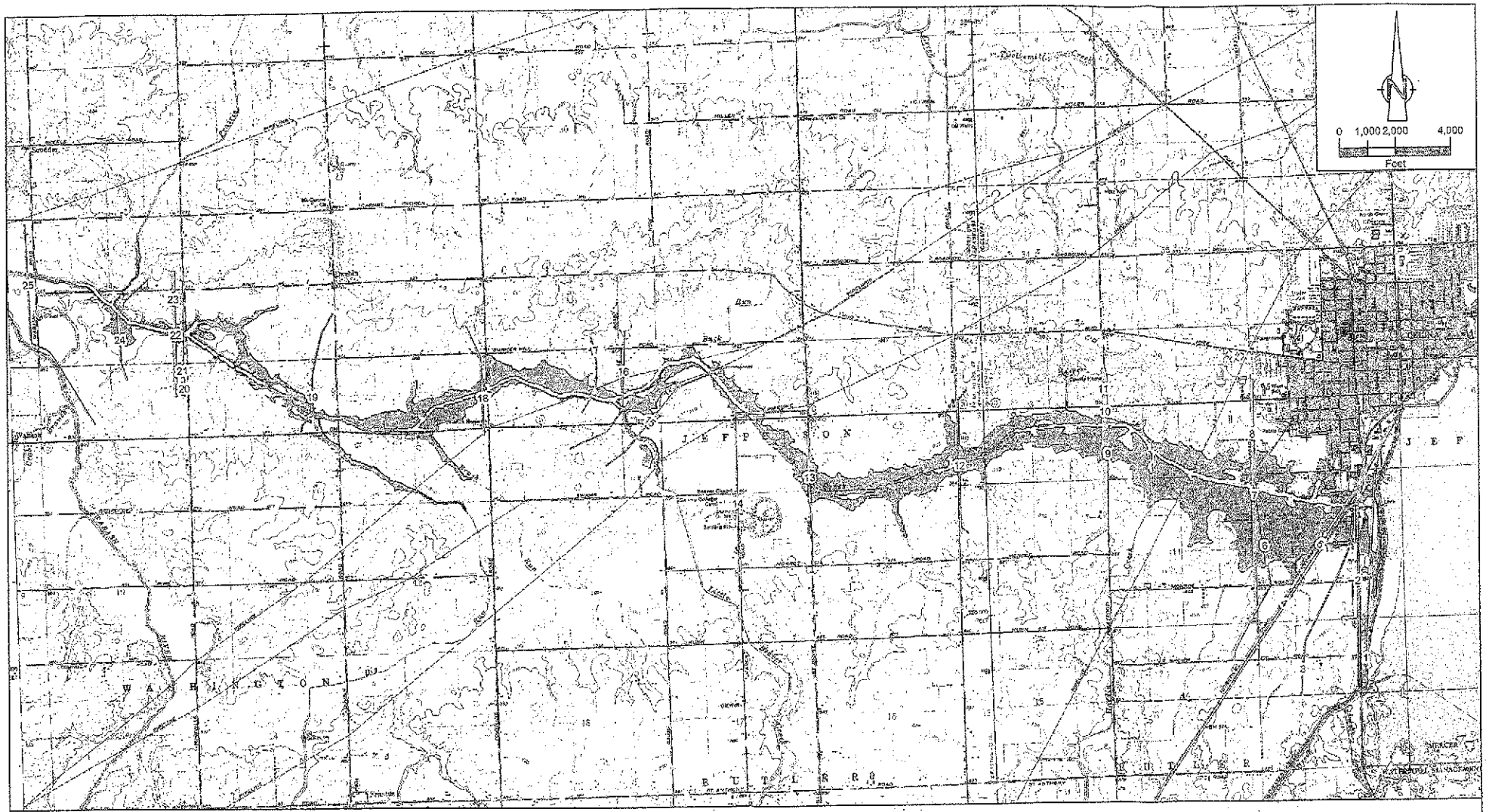
GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

THIS FIGURE ILLUSTRATES MODELING COMPLETED FOR THE CRA MAY 2006 REPORT AND IS IDENTICAL TO FIGURE 4b IN THE CRA MAY 2006 REPORT.

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4-FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500-FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 1b
MARCH/APRIL 1913 STORM EVENT FLOOD INUNDATION MAP
Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BGC&M ENGINEERING, INC.,

UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (CELINA E, ERASTUS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

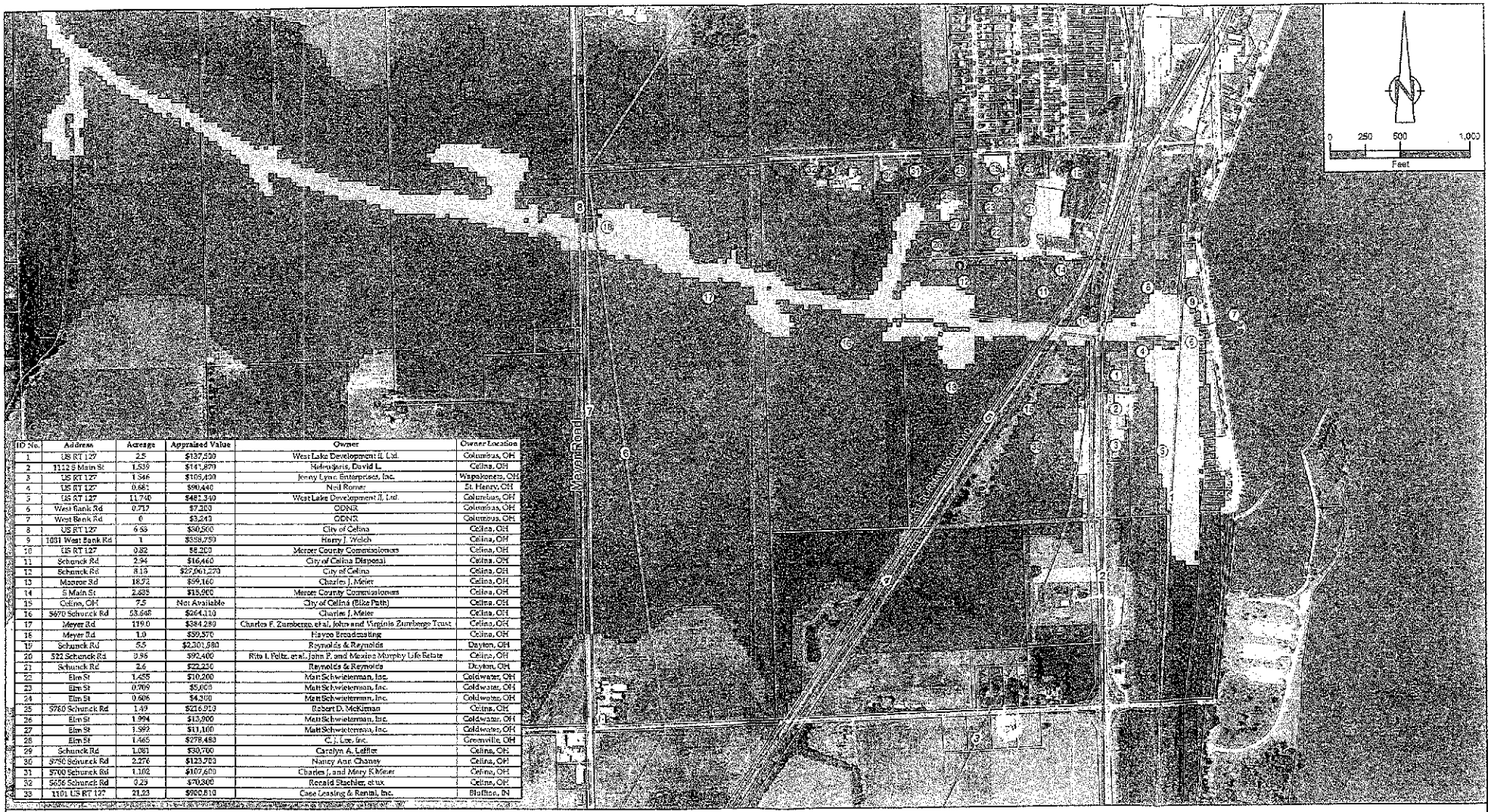
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 2a

DECEMBER / JANUARY 1930 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.5	$137,500	West Lake Development II, Ltd.	Columbus, OH
2	1112 S Main St	1.539	$141,879	Heleotjaris, David L.	Celina, OH
3	US RT 127	1.546	$105,420	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.681	$90,440	Neil Romer	St. Henry, OH
5	US RT 127	11.740	$482,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,203	ODNR	Columbus, OH
7	West Bank Rd	0	$3,243	ODNR	Columbus, OH
8	US RT 127	6.55	$30,500	City of Celina	Celina, OH
9	1031 West Bank Rd	1	$388,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$16,460	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.15	$27,061,270	City of Celina	Celina, OH
13	Monroe Rd	18.72	$99,160	Charles J. Meier	Celina, OH
14	S Main St	2.685	$15,900	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	53.648	$264,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$384,280	Charles F. Zumberge, et al; John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$99,570	Hayco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,301,980	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.95	$92,400	Rita I. Foltz, et al; John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$4,300	Matt Schwieterman, Inc.	Coldwater, OH
25	5760 Schunck Rd	1.49	$216,950	Robert D. McKiman	Celina, OH
26	Elm St	1.994	$13,900	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.593	$11,100	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.465	$278,480	C.J. Lee, Inc.	Greenville, OH
29	Schunck Rd	1.081	$30,700	Carolyn A. Leffler	Celina, OH
30	5750 Schunck Rd	2.276	$123,700	Nancy Ann Chaney	Celina, OH
31	5700 Schunck Rd	1.102	$107,600	Charles J. and Mary K Meier	Celina, OH
32	5656 Schunck Rd	0.23	$70,300	Ronald Stechler, et ux	Celina, OH
33	1101 US RT 127	21.23	$900,810	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BOOM ENGINEERING, INC.

UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 28, 2003

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THE FIGURE WERE OBTAINED FROM THE MERCER COUNTY, OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005.

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

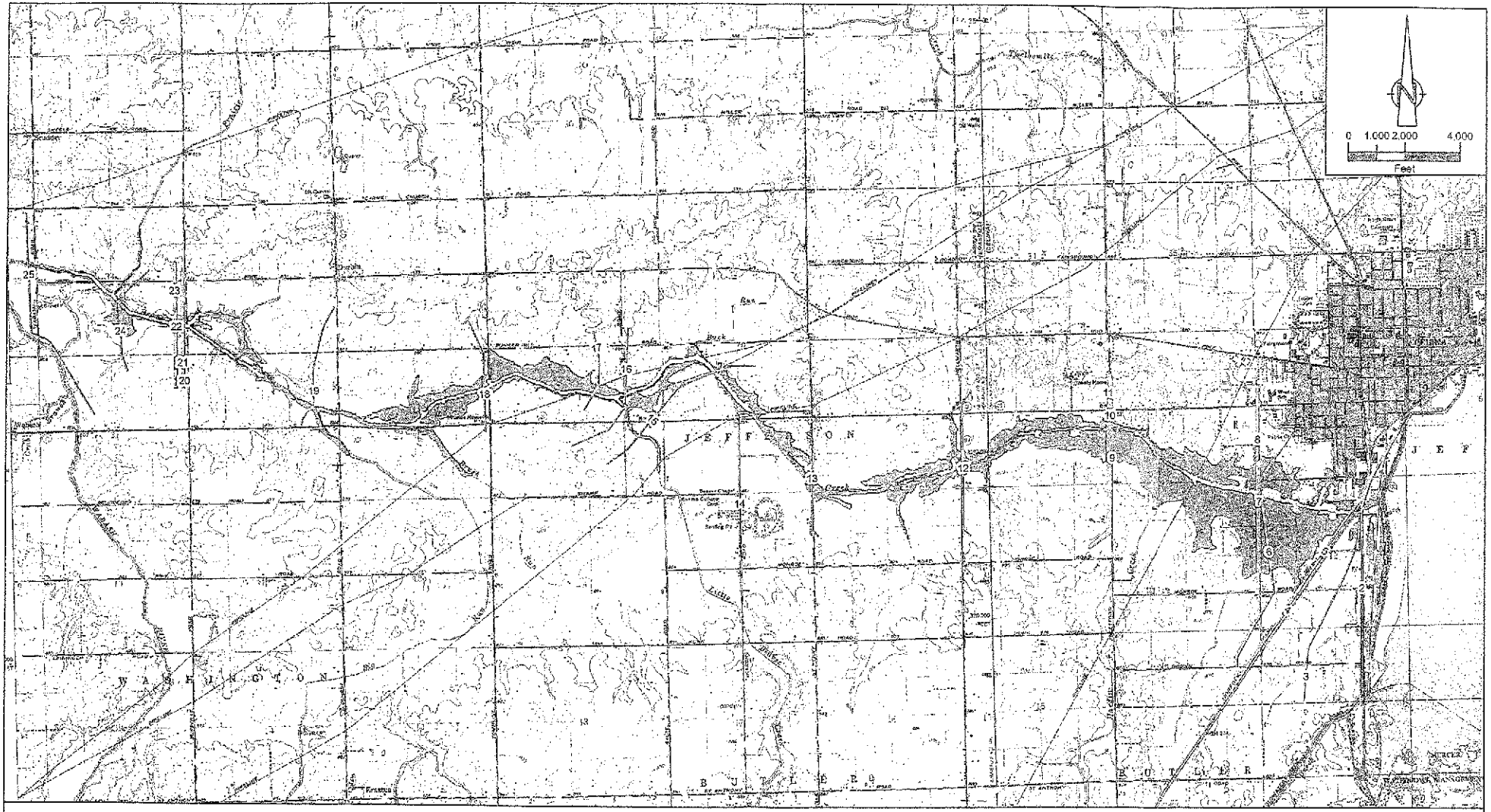
CRA

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 2b
DECEMBER / JANUARY 1930 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, EDGAR ENGINEERING, INC.

UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (DRLMAS ERASTILS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

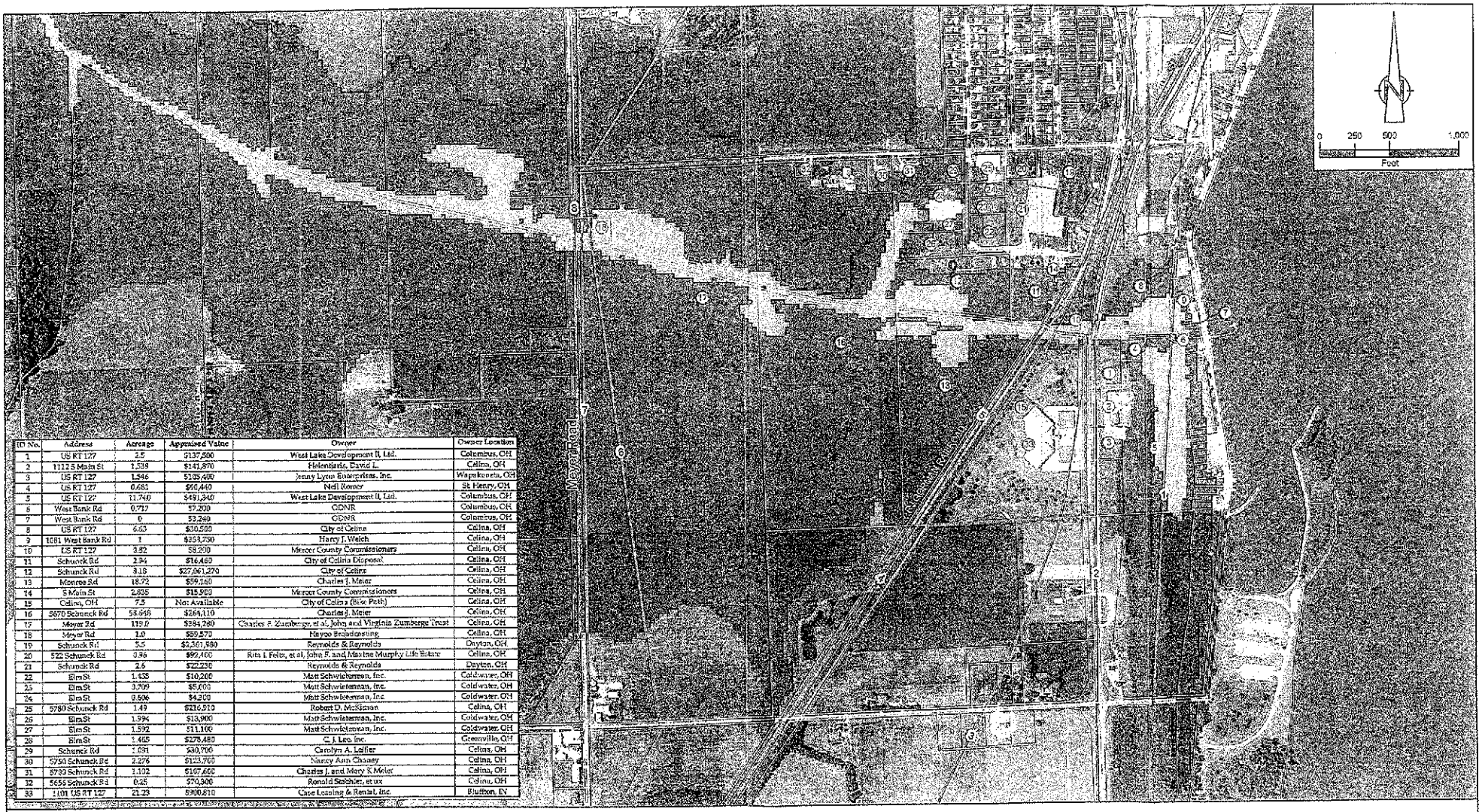
THE MODEL OUTPUT FOR THE 1943 EVENT INDICATES THAT THE WATER SURFACE ELEVATION IN BEAVER CREEK AT THE UPSTREAM LIMIT OF THE CASC PROPERTY WOULD BE 858.8 FEET MSL. THE CASE SPORTS COMPLEX FINISHED FLOOR ELEVATION IS 858.74 FEET MSL. THE LEVEL OF DETAIL OF THE GROUND SURFACE TOPOGRAPHY USED TO CREATE THIS FIGURE, ALTHOUGH THE BEST AVAILABLE DATA, IS NOT SUFFICIENTLY PRECISE TO SHOW THE 0.06 FEET OF FLOODING AT THE SPORTS COMPLEX.

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 3a
MAY 1943 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.5	$137,500	West Lake Development II, Ltd.	Columbus, OH
2	1112 S Main St	1.539	$141,870	Helentakis, David L.	Celina, OH
3	US RT 127	1.546	$135,400	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.681	$60,440	Nell Keener	St. Henry, OH
5	US RT 127	11.740	$491,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
7	West Bank Rd	0	$3,240	ODNR	Columbus, OH
8	US RT 127	6.65	$30,500	City of Celina	Celina, OH
9	1081 West Bank Rd	1	$253,700	Harry J. Welch	Celina, OH
10	US RT 127	3.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.34	$16,460	City of Celina Disposal	Celina, OH
12	Schunck Rd	3.15	$27,061,270	City of Celina	Celina, OH
13	Monroe Rd	18.72	$59,160	Charles J. Meier	Celina, OH
14	S Main St	2.835	$15,950	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	53.648	$264,110	Charles J. Meier	Celina, OH
17	Meyer Rd	139.0	$284,280	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$89,572	Meyco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,361,580	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.96	$99,100	Rita I. Feller, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwietermann, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwietermann, Inc.	Coldwater, OH
24	Elm St	0.596	$4,200	Matt Schwietermann, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.49	$216,510	Robert D. McKiernan	Celina, OH
26	Elm St	1.594	$13,900	Matt Schwietermann, Inc.	Coldwater, OH
27	Elm St	1.592	$11,100	Matt Schwietermann, Inc.	Coldwater, OH
28	Elm St	1.405	$278,480	C.J. Lee, Inc.	Greenville, OH
29	Scherer Rd	1.031	$30,700	Carolyn A. Leffler	Celina, OH
30	5750 Schunck Rd	2.276	$123,700	Nancy Ann Chaney	Celina, OH
31	5700 Schunck Rd	1.102	$107,600	Charles J. and Mary S. Meier	Celina, OH
32	5655 Schunck Rd	0.25	$70,300	Ronald Steichler, et ux	Celina, OH
33	1101 US RT 127	21.29	$900,810	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, EDGAM ENGINEERING, INC.

UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 25, 2004

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THIS FIGURE WERE OBTAINED FROM THE MERCER COUNTY, OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005.

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

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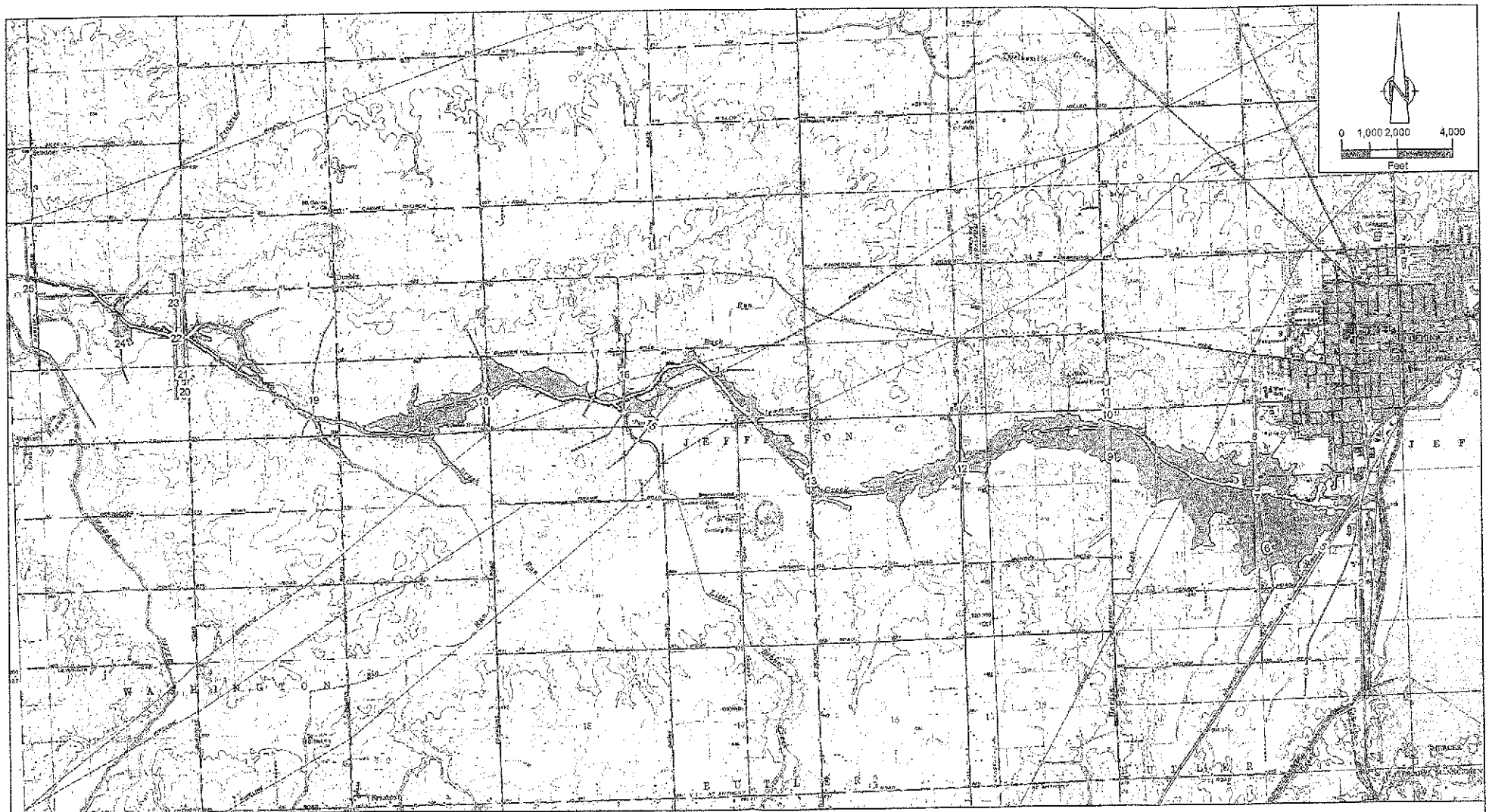
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 3b
MAY 1943 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (CELINA & ERASTUS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

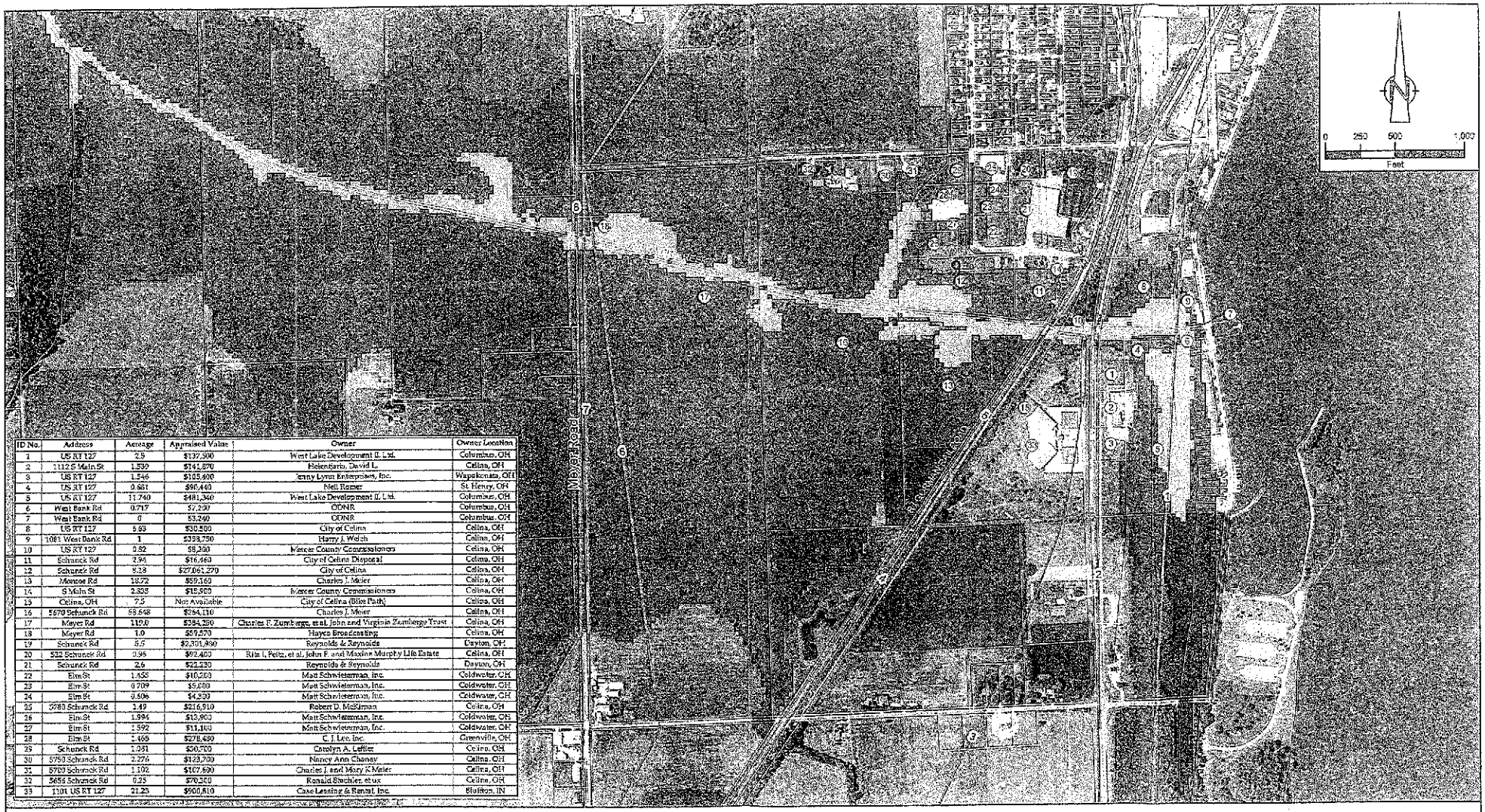
THE MODEL OUTPUT FOR THE 1981 EVENT INDICATES THAT THE WATER SURFACE ELEVATION IN BEAVER CREEK AT THE UPSTREAM LIMIT OF THE CASE PROPERTY WOULD BE 868 FEET MSL. THE CASE SPORTS COMPLEX FINISHED FLOOR ELEVATION IS 853.74 FEET MSL. THE LEVEL OF DETAIL OF THE GROUND SURFACE TOPOGRAPHY USED TO DEVELOP THIS FIGURE, ALTHOUGH THE BEST AVAILABLE DATA, IS NOT SUFFICIENTLY PRECISE TO SHOW THE 3.06 FEET OF FLOODING AT THE SPORTS COMPLEX.

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 4a
MAY 1981 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.9	$137,390	West Lake Development II, Ltd.	Columbus, OH
2	1112 S Main St	1.339	$141,870	Heitenbarb, David L.	Celina, OH
3	US RT 127	1.546	$105,408	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.601	$91,440	Nell Reiser	St. Henry, OH
5	US RT 127	11.749	$481,360	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,220	ODNR	Columbus, OH
7	West Bank Rd	0	$3,240	ODNR	Columbus, OH
8	US RT 127	5.63	$30,500	City of Celina	Celina, OH
9	1081 West Bank Rd	1	$358,750	Harry L Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.95	$16,660	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.28	$27,061,270	City of Celina	Celina, OH
13	Monroe Rd	18.72	$59,160	Charles J. Meier	Celina, OH
14	S Main St	2.338	$15,900	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	58.648	$264,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$384,290	Charles F. Zumbrege, et al, John and Virginia Zumbrege Trust	Celina, OH
18	Meyer Rd	1.0	$59,570	Hayes Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,301,990	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.95	$92,400	Rita L. Feltz, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$4,320	Matt Schwieterman, Inc.	Coldwater, OH
25	5983 Schunck Rd	3.49	$216,510	Robert D. McKirnan	Celina, OH
26	Elm St	1.994	$13,960	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.592	$11,100	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	2.469	$278,490	C J Lee, Inc.	Greenville, OH
29	Schunck Rd	1.031	$50,700	Carolyn A. Leffler	Celina, OH
30	5763 Schunck Rd	2.276	$123,700	Nancy Ann Chaney	Celina, OH
31	5703 Schunck Rd	1.102	$107,890	Charles J. and Mary K Meier	Celina, OH
32	5656 Schunck Rd	0.23	$70,250	Ronald Stechler, et ux	Celina, OH
33	1101 US RT 127	21.23	$900,810	Case Leasing & Rental, Inc.	Bluffton, IN

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UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 23, 2004

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THE FIGURE WERE OBTAINED FROM THE MERCER COUNTY, OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005.

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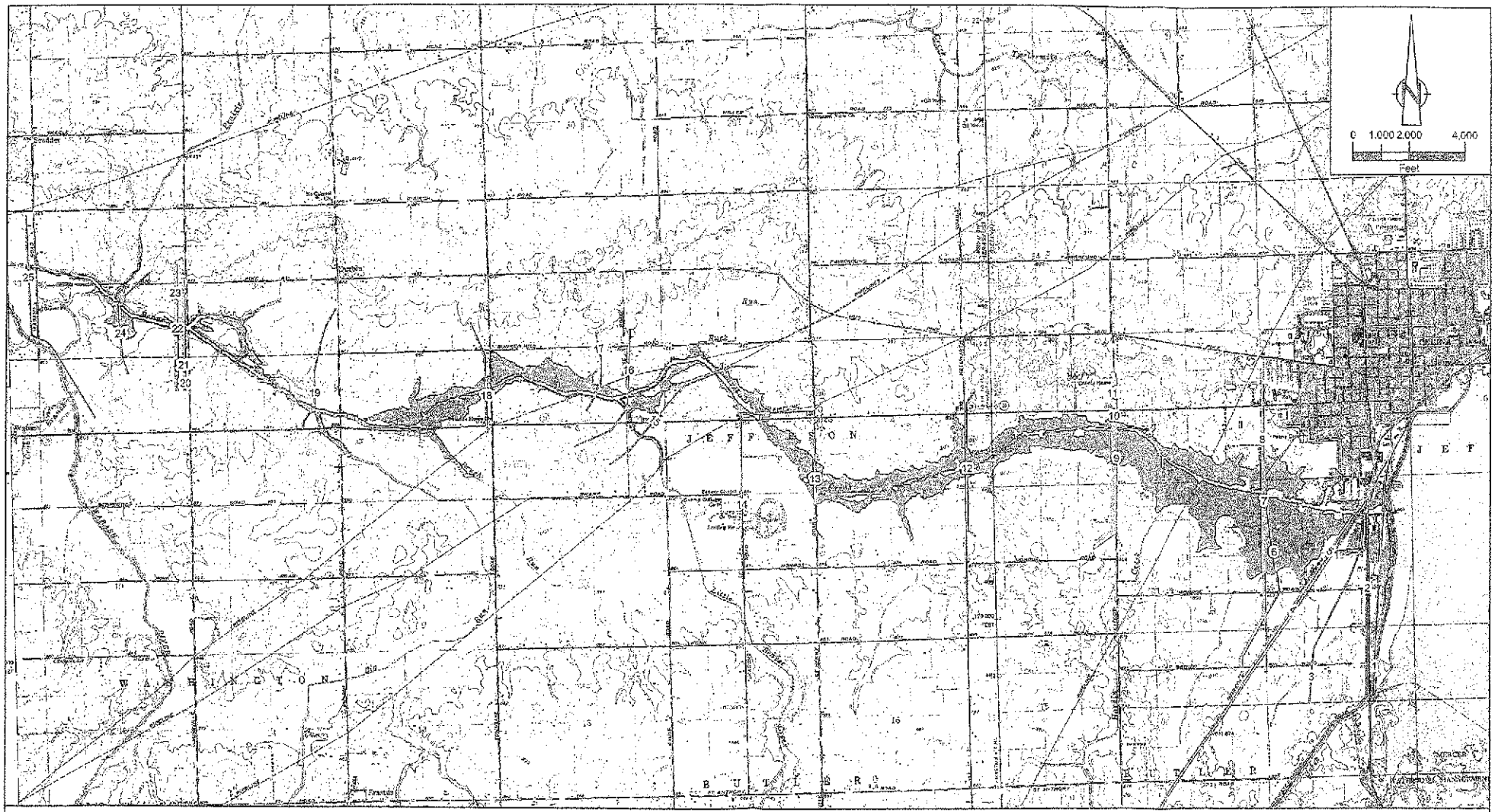
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 4b
MAY 1981 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (CELINA E, ERASTUS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

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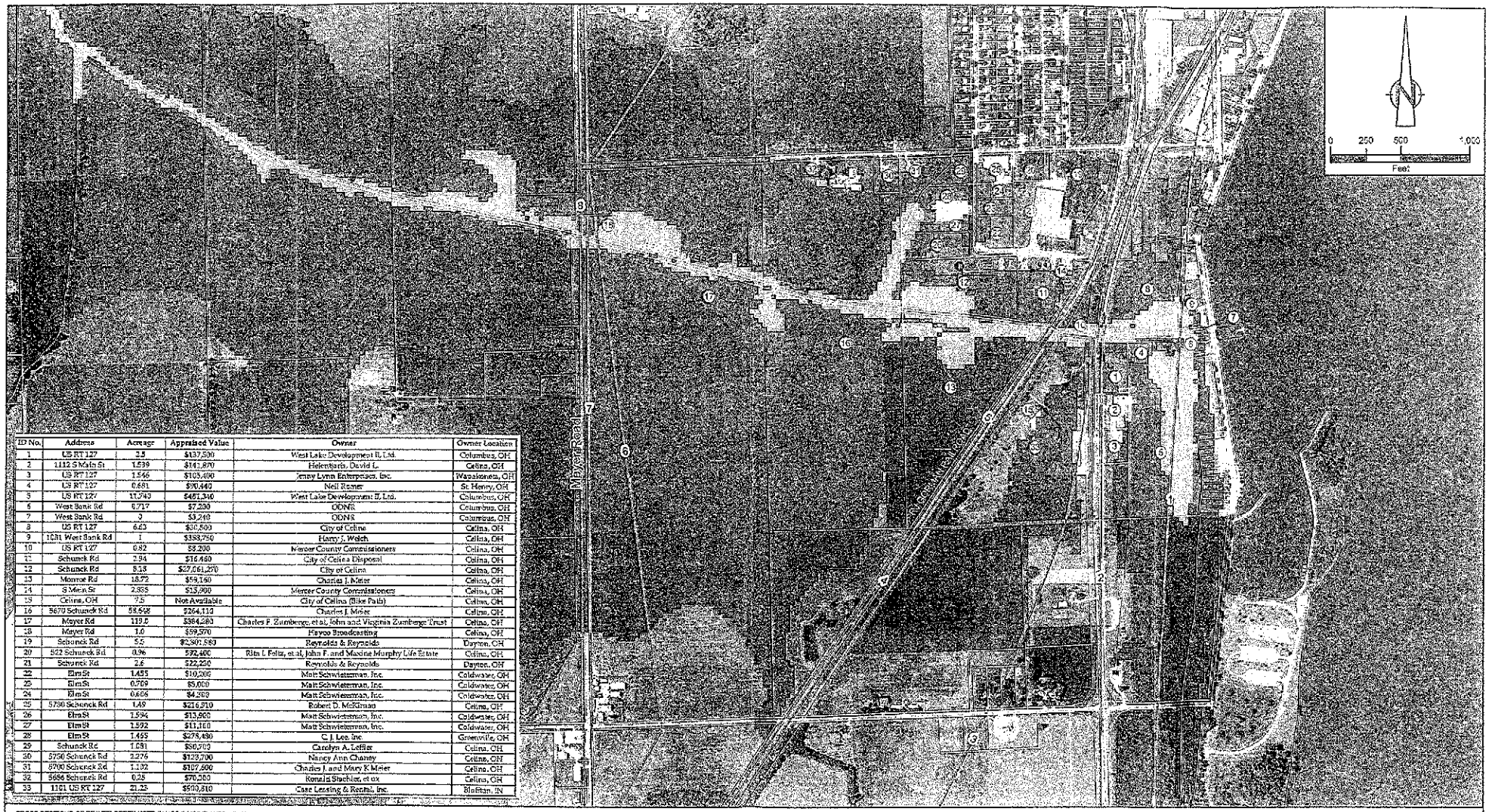
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 5a
JULY 1992 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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4	US RT 127	0.681	$70,440	Neil Reiter	St. Henry, OH
5	US RT 127	11.943	$481,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
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8	US RT 127	6.63	$30,500	City of Celina	Celina, OH
9	1031 West Bank Rd	1	$388,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	7.94	$16,460	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.18	$27,061,270	City of Celina	Celina, OH
13	Monroe Rd	18.72	$59,160	Charles J. Meier	Celina, OH
14	S Main St	2.365	$15,900	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	58.648	$264,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$384,280	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$59,570	Hayco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,301,980	Reynolds & Reynolds	Dayton, OH
20	922 Schunck Rd	0.96	592,400	Rita I. Foltz, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,250	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$4,200	Matt Schwieterman, Inc.	Coldwater, OH
25	5790 Schunck Rd	1.49	$216,910	Robert D. McKiman	Celina, OH
26	Elm St	1.594	$13,900	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.592	$11,160	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.455	$278,480	C J. Lee, Inc	Greenville, OH
29	Schunck Rd	1.081	$80,700	Carolyn A. Leffler	Celina, OH
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UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 29, 2004

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THE FIGURE WERE OBTAINED FROM THE MERCER COUNTY, OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005.

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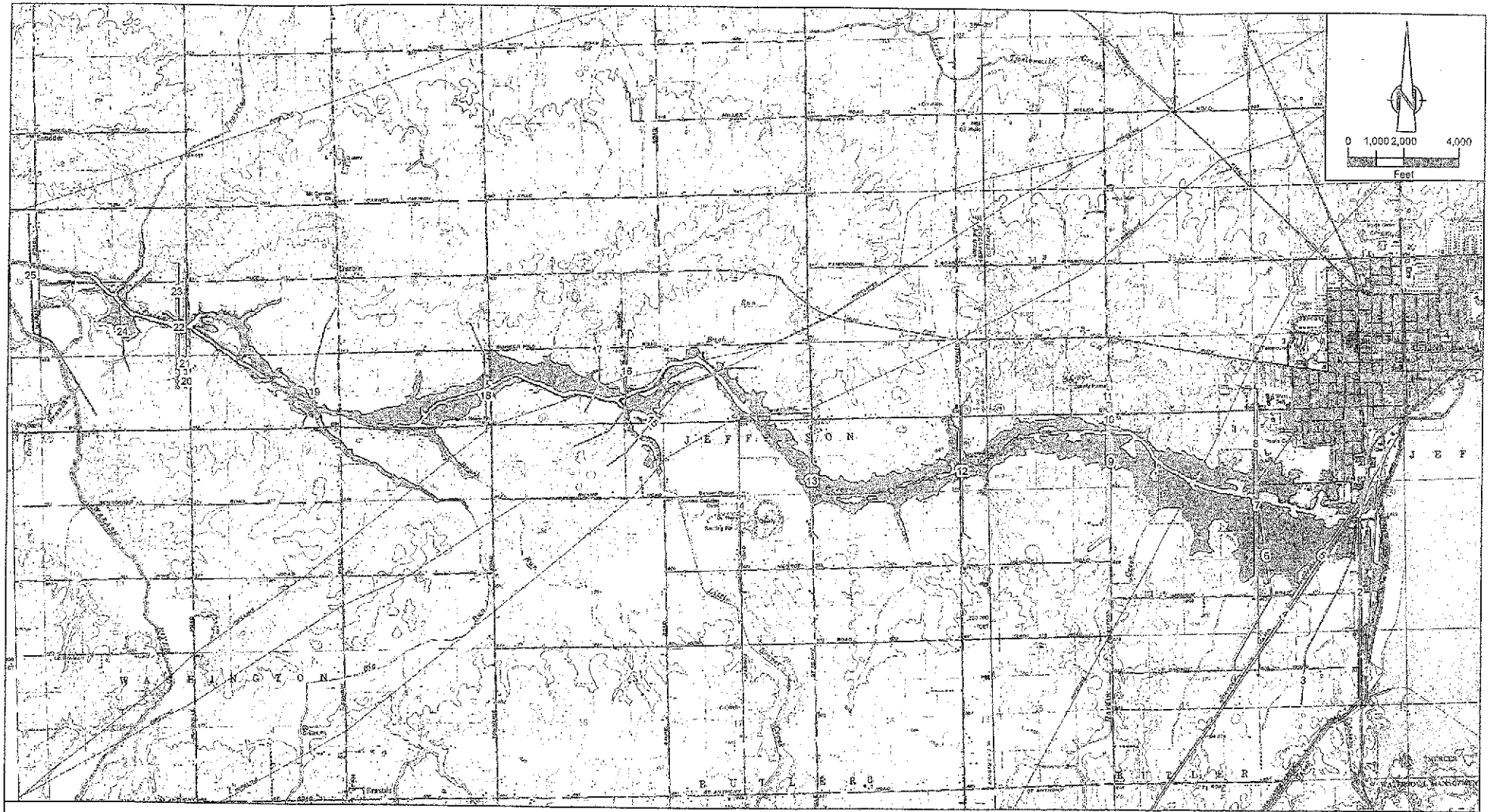
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 5b
JULY 1992 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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UNITED STATES GEOLOGICAL SURVEY DIGITAL RASTER GRAPHICS (DRGs/AKA ERASTUS) DOWNLOADED FROM THE OHIO OFFICE OF INFORMATION TECHNOLOGY WEBSITE

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LEGEND

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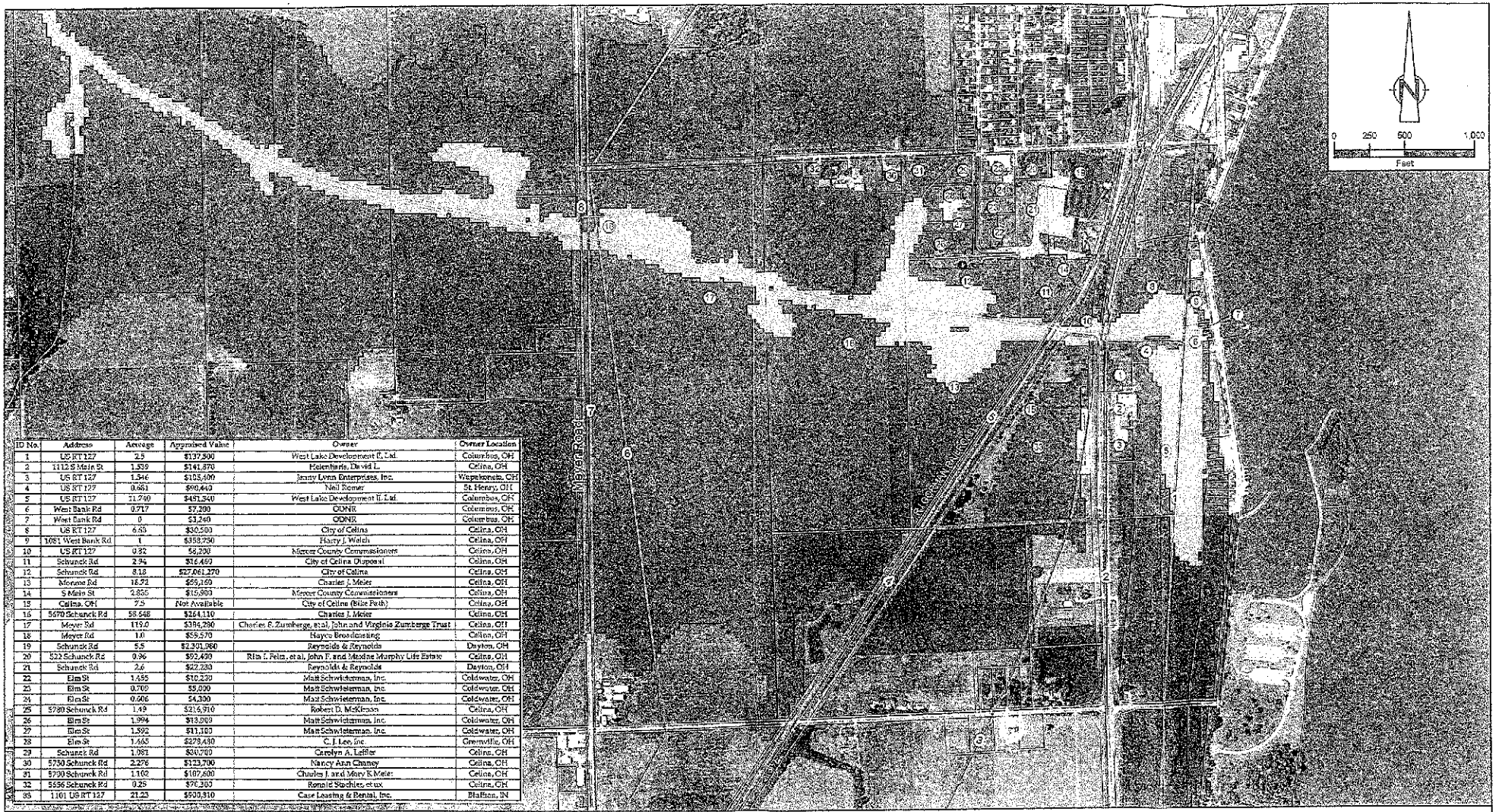
Figure 6a
JUNE / JULY 1993 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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4	US RT 127	0.661	$90,440	Neil Romer	St. Henry, OH
5	US RT 127	11.740	$481,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
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8	US RT 127	6.85	$30,500	City of Celina	Celina, OH
9	1081 West Bank Rd	1	$358,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	56,200	Mercer County Commissioners	Celina, OH
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12	Schunck Rd	8.18	$27,061,270	City of Celina	Celina, OH
13	Moraine Rd	18.72	$86,160	Charles J. Meier	Celina, OH
14	S Main St	2.855	$15,900	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
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24	Elm St	0.606	54,300	Matt Schwieterman, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.49	$216,910	Robert D. McKeown	Celina, OH
26	Elm St	1.994	$13,060	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.592	$11,160	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.465	$278,430	C. J. Lee, Inc.	Greenville, OH
29	Schunck Rd	1.081	$80,760	Carolyn A. Loffler	Celina, OH
30	5750 Schunck Rd	2.276	$123,700	Nancy Ann Cheney	Celina, OH
31	5790 Schunck Rd	1.102	$107,600	Charles J. and Mary K Meier	Celina, OH
32	5556 Schunck Rd	0.25	$95,300	Ronald Stechles, et ux.	Celina, OH
33	1101 US RT 127	21.23	$900,310	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BOCAM ENGINEERING, INC.

UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 23, 2004

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LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
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- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 6b
JUNE / JULY 1993 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1990, BSC&M ENGINEERING, INC.

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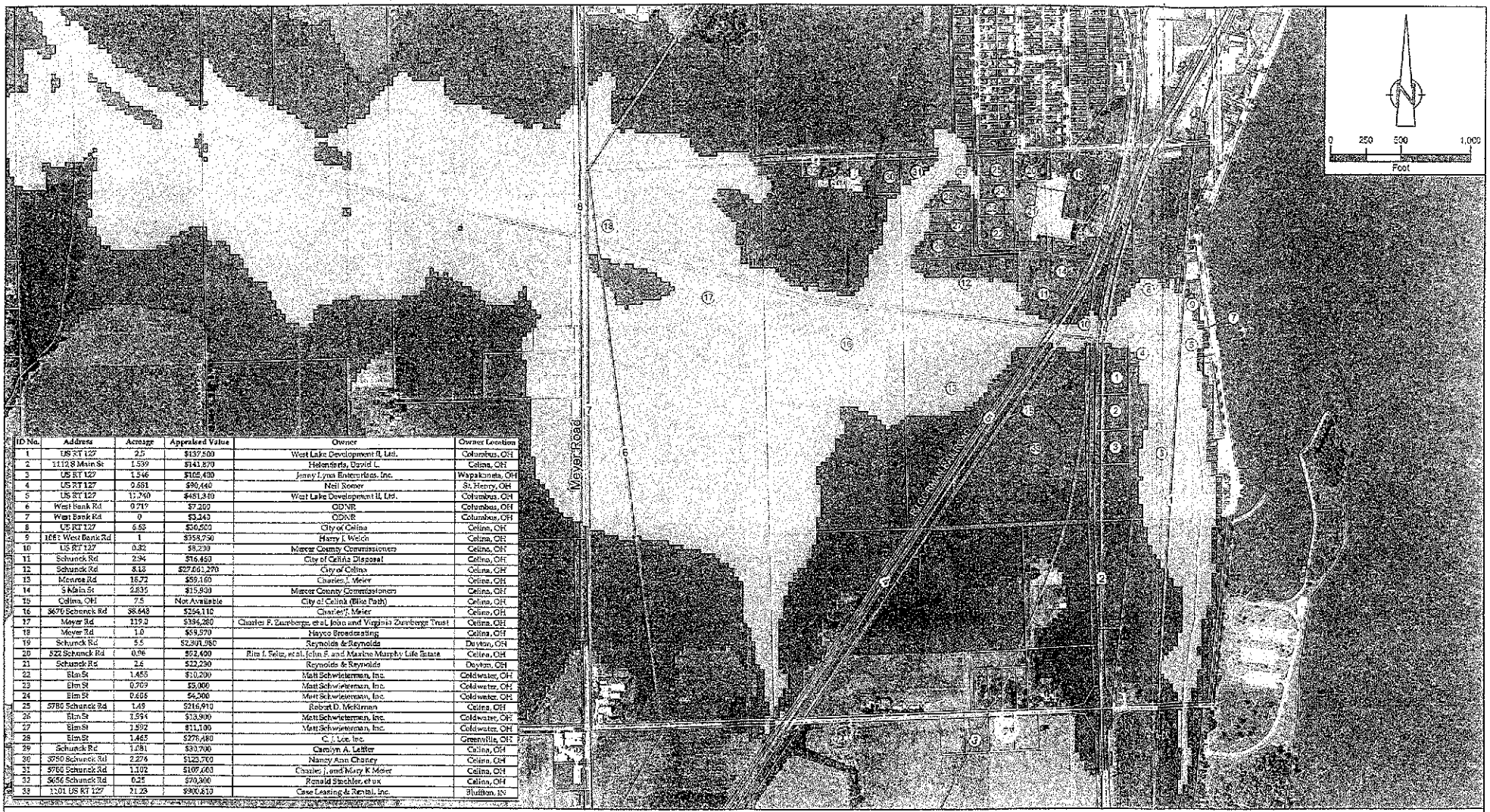
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 7a
JUNE / JULY 2003 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.5	$137,500	West Lake Development II, Ltd.	Columbus, OH
2	2112 S Main St	1.539	$141,870	Helenberts, David L.	Celina, OH
3	US RT 127	1.546	$105,480	Jinny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.661	$90,440	Neil Romer	St. Henry, OH
5	US RT 127	11.760	$481,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.719	$7,200	ODNR	Columbus, OH
7	West Bank Rd	0	$3,240	ODNR	Columbus, OH
8	US RT 127	6.55	$90,500	City of Celina	Celina, OH
9	1051 West Bank Rd	1	$358,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$16,450	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.18	$27,661,270	City of Celina	Celina, OH
13	Monroe Rd	16.72	$59,160	Charles J. Meier	Celina, OH
14	S Main St	2.835	$15,800	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	3670 Schenck Rd	38.648	$254,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$394,280	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$59,970	Hayco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,901,980	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.96	$62,400	Rita I. Seitz, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$4,500	Matt Schwieterman, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.45	$216,910	Robert D. McKiman	Celina, OH
26	Elm St	1.594	$13,900	Matt Schwieterman, Inc.	Coldwater, OH
27	Elm St	1.592	$11,100	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.465	$276,480	C. J. Lee, Inc.	Greenville, OH
29	Schunck Rd	1.081	$30,700	Carolyn A. Leffler	Celina, OH
30	5750 Schunck Rd	2.276	$122,700	Nancy Ann Chaney	Celina, OH
31	5760 Schunck Rd	1.102	$107,600	Charles J. and Mary K Meier	Celina, OH
32	5656 Schunck Rd	0.25	$70,300	Ronald Stechler, et ux	Celina, OH
33	1201 US RT 127	21.23	$900,810	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 3, 1999, BECAM ENGINEERING, INC.

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LEGEND

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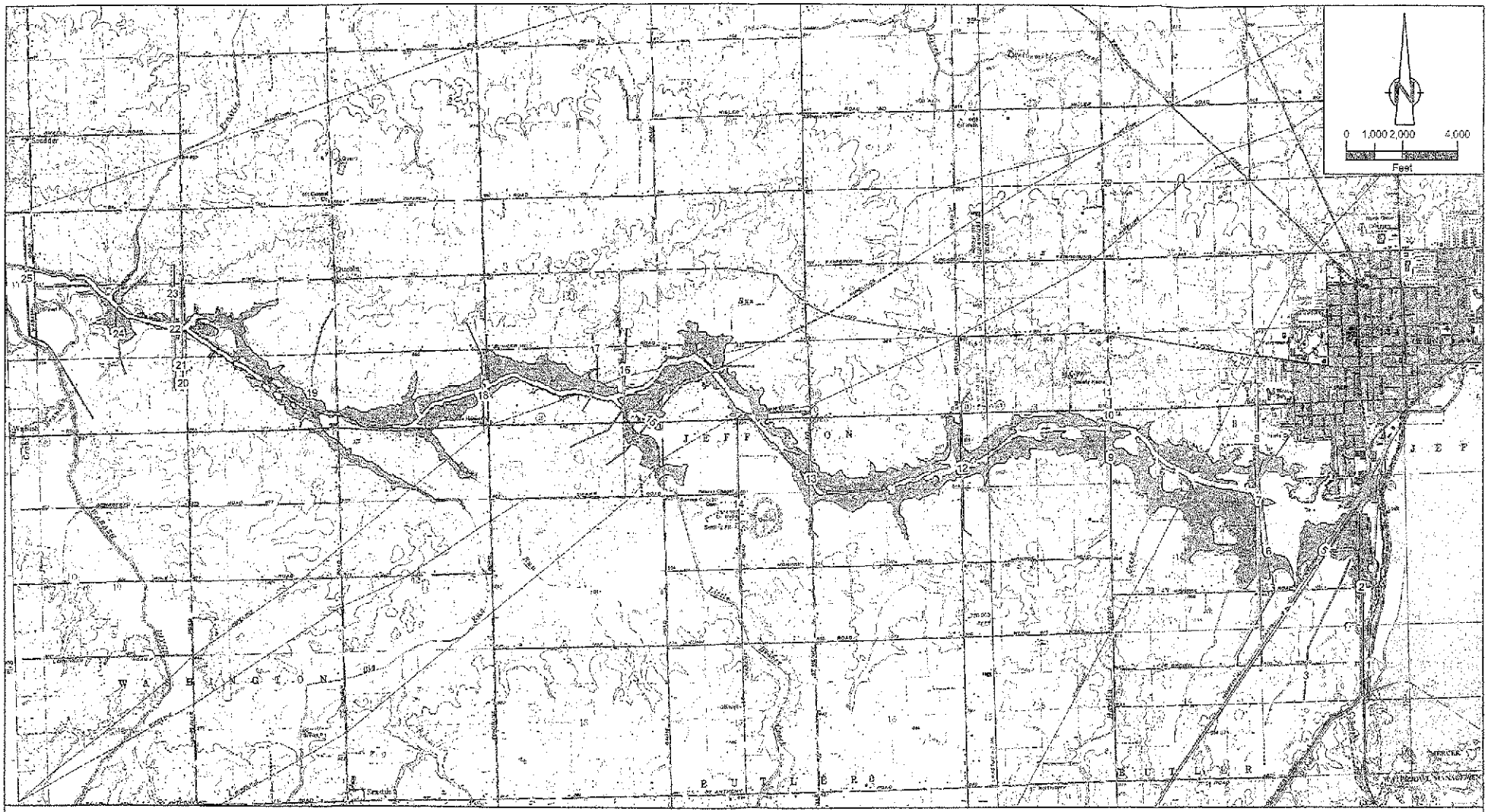
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (7) PROPERTY IDENTIFICATION NUMBER

Figure 7b
JUNE / JULY 2003 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSES, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1999, BROAM ENGINEERING, INC.

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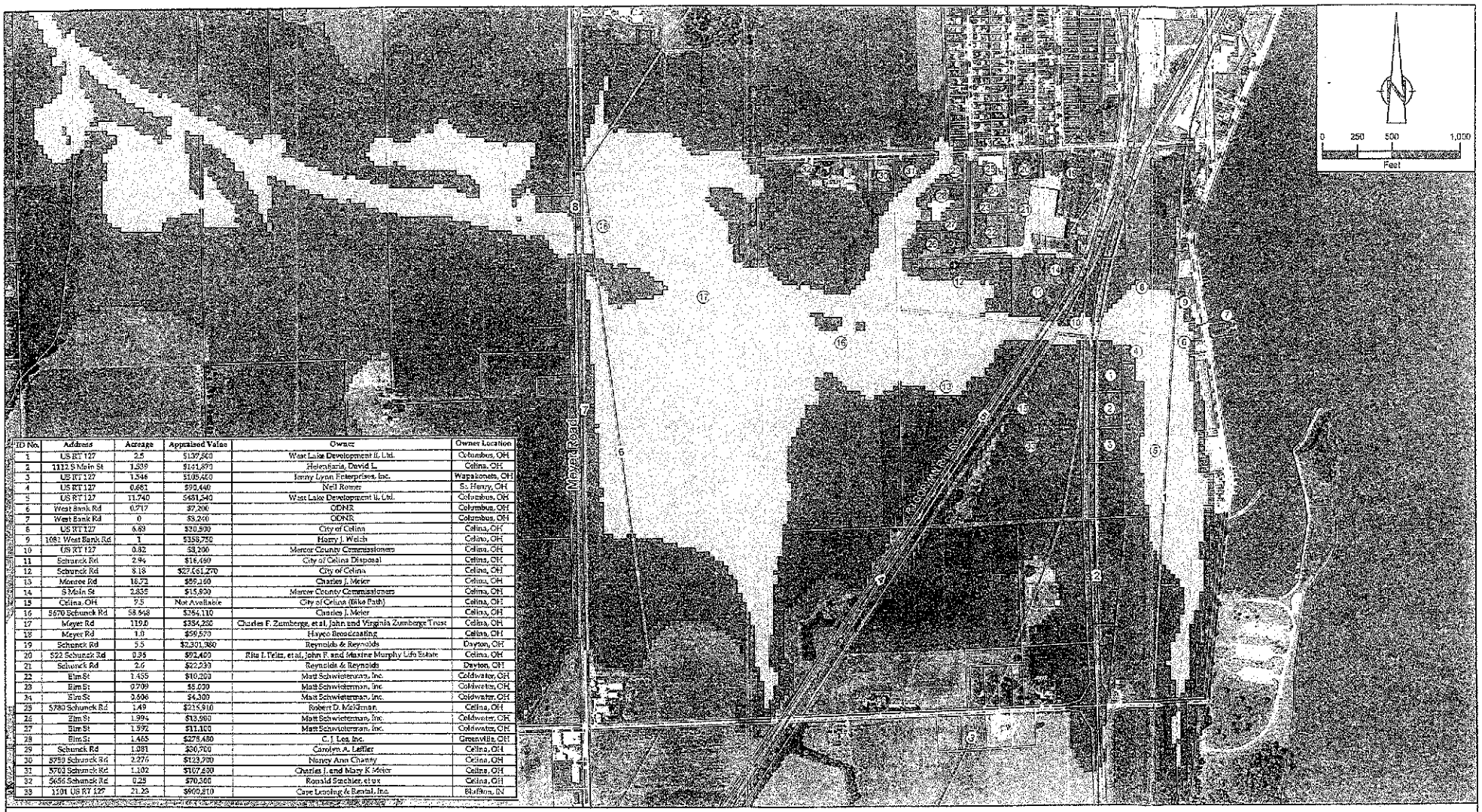
LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY

Figure 8a

DECEMBER 2003 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



ID No.	Address	Acreage	Appraised Value	Owner	Owner Location
1	US RT 127	2.5	$137,500	West Lake Development II, Ltd.	Columbus, OH
2	1112 S Main St	1.339	$141,895	Helenbarie, David L.	Celina, OH
3	US RT 127	1.346	$105,460	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.681	$90,640	Neil Romes	St. Henry, OH
5	US RT 127	11.740	$651,540	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
7	West Bank Rd	0	$3,260	ODNR	Columbus, OH
8	US RT 127	6.69	$310,900	City of Celina	Celina, OH
9	1082 West Bank Rd	1	$358,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$16,480	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.18	$27,681,270	City of Celina	Celina, OH
13	Mercer Rd	18.72	$56,160	Charles J. Meier	Celina, OH
14	S Main St	2.855	$15,800	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5670 Schunck Rd	58.948	$264,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$354,200	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$59,570	Hayco Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,301,380	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.36	$92,400	Rita I. Teles, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Matt Schwietermann, Inc.	Coldwater, OH
23	Elm St	0.709	$5,020	Matt Schwietermann, Inc.	Coldwater, OH
24	Elm St	0.606	$4,300	Matt Schwietermann, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.49	$215,910	Robert D. McKiman	Celina, OH
26	Elm St	1.994	$13,980	Matt Schwietermann, Inc.	Coldwater, OH
27	Elm St	1.592	$11,160	Matt Schwietermann, Inc.	Coldwater, OH
28	Elm St	1.465	$275,480	C. J. Lea, Inc.	Greenville, OH
29	Schunck Rd	1.081	$30,700	Carolyn A. Leffler	Celina, OH
30	5795 Schunck Rd	2.276	$123,700	Nancy Ann Chaney	Celina, OH
31	5703 Schunck Rd	1.102	$107,600	Charles J. and Mary K Meier	Celina, OH
32	5656 Schunck Rd	0.28	$70,500	Ronald Sanchez, et ux	Celina, OH
33	1101 US RT 127	21.25	$900,810	Cape Leasing & Rental, Inc.	Bluffton, IN

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CRA

LEGEND

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- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 8b
DECEMBER 2003 STORM EVENT FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio

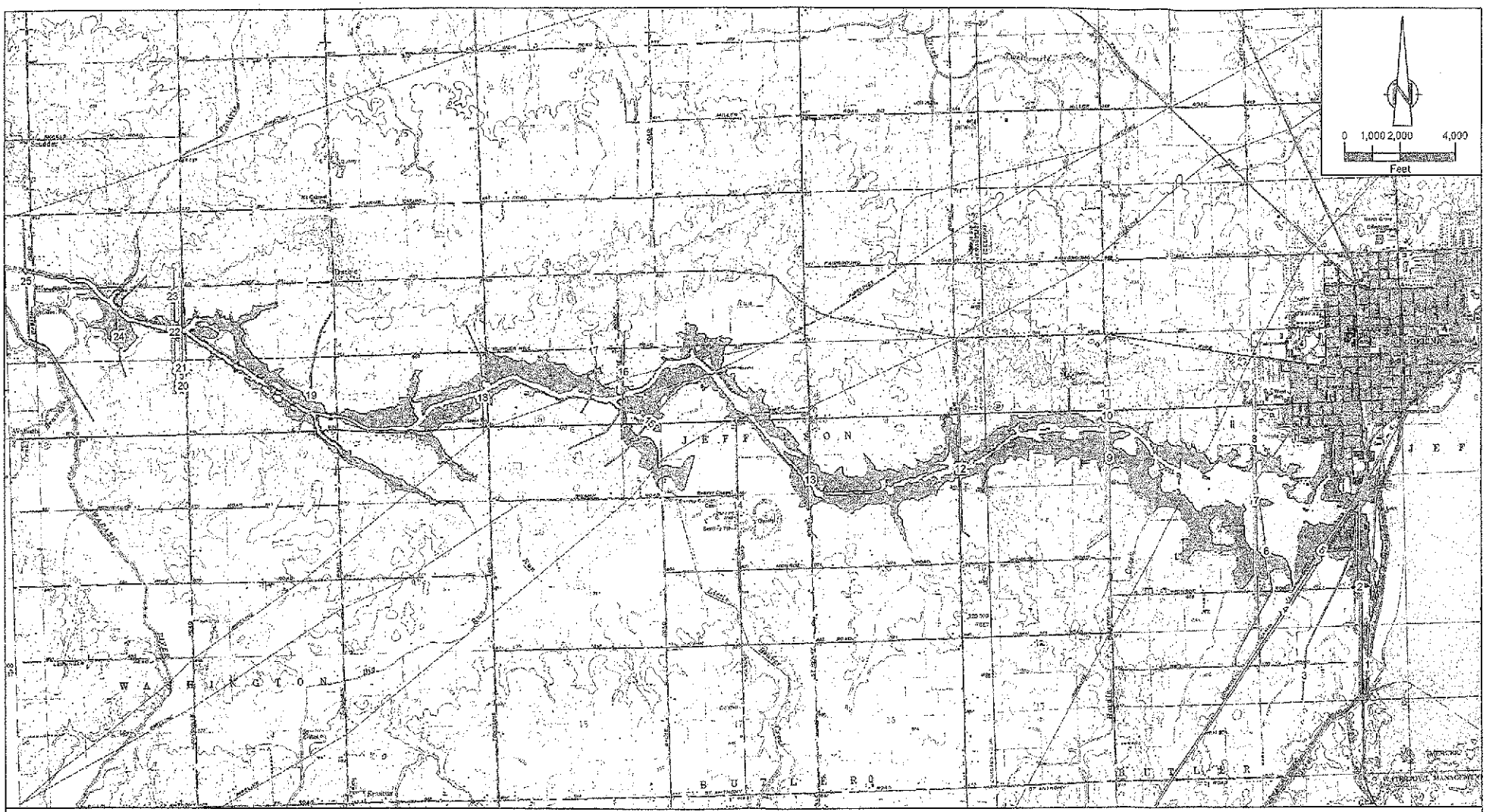

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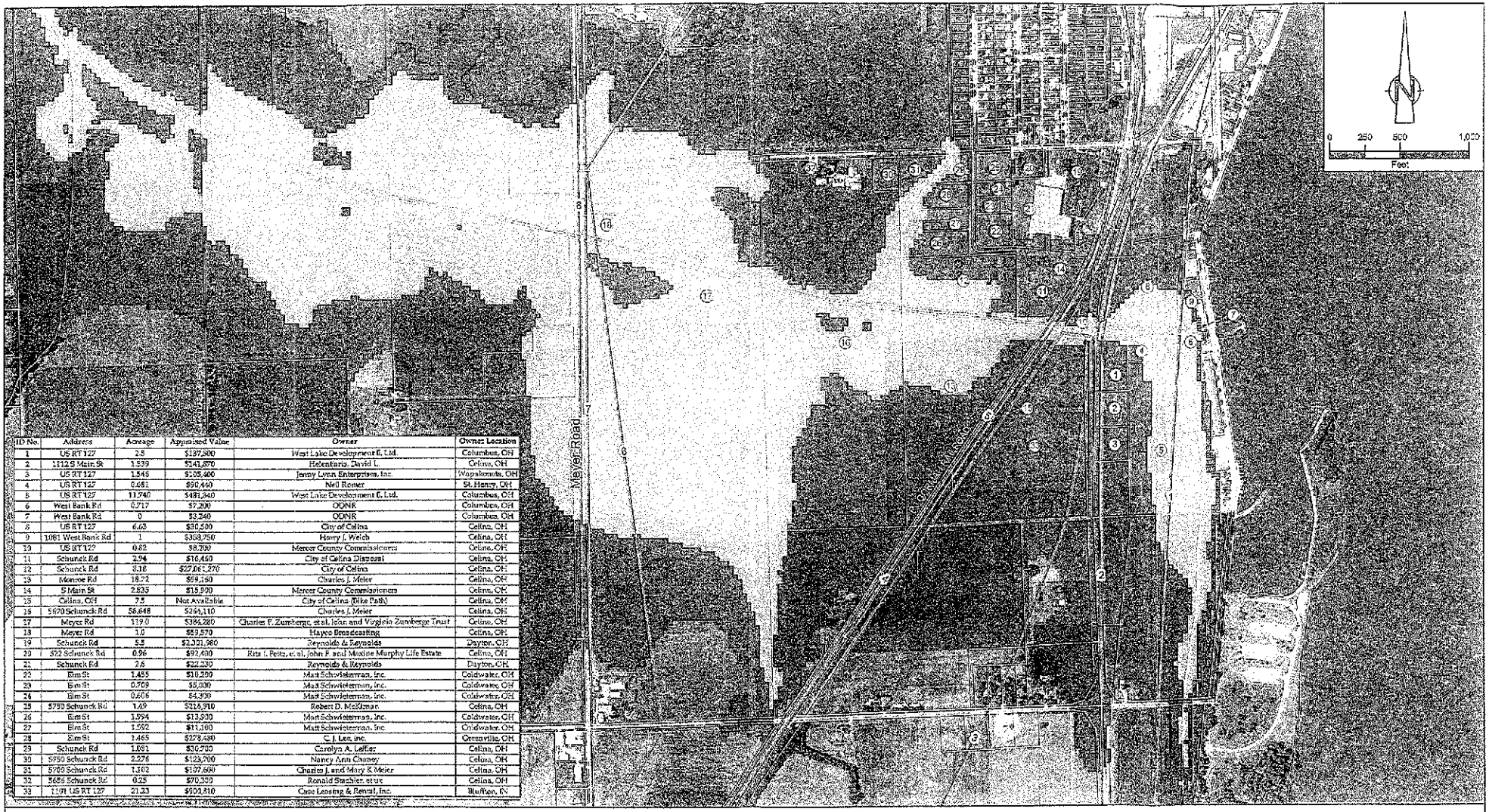
Figure 9a
JANUARY 2005 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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1	US RT 127	2.5	$197,500	West Lake Development E, Ltd.	Columbus, OH
2	1112 S Main St	1.539	$141,870	Helentanis, David L.	Celina, OH
3	US RT 127	1.546	$105,400	Jenny Lynn Enterprises, Inc.	Wapakoneta, OH
4	US RT 127	0.681	$90,460	Neil Romer	St. Henry, OH
5	US RT 127	11.740	$481,340	West Lake Development E, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
7	West Bank Rd	0	$3,240	ODNR	Columbus, OH
8	US RT 127	6.63	$30,500	City of Celina	Celina, OH
9	1081 West Bank Rd	1	$368,750	Harry J. Welch	Celina, OH
10	US RT 127	0.62	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$16,460	City of Celina Disposal	Celina, OH
12	Schunck Rd	8.18	$27,061,270	City of Celina	Celina, OH
13	Monroe Rd	18.72	$69,160	Charles J. Meier	Celina, OH
14	S Main St	2.835	$15,970	Mercer County Commissioners	Celina, OH
15	Celina, OH	7.5	Not Available	City of Celina (Bike Path)	Celina, OH
16	5970 Schunck Rd	58.648	$266,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$386,280	Charles F. Zumberge, et al, John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$53,570	Hayes Broadcasting	Celina, OH
19	Schunck Rd	5.5	$2,321,380	Reynolds & Reynolds	Dayton, OH
20	572 Schunck Rd	0.96	$92,400	Rita I. Peltz, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.455	$10,200	Mast Schwietermen, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Mast Schwietermen, Inc.	Coldwater, OH
24	Elm St	0.606	$4,300	Mast Schwietermen, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.49	$216,910	Robert D. McKiman	Celina, OH
26	Elm St	1.994	$13,930	Mast Schwietermen, Inc.	Coldwater, OH
27	Elm St	1.592	$11,100	Mast Schwietermen, Inc.	Coldwater, OH
28	Elm St	1.465	$228,480	C. J. Lee, inc.	Gennaville, OH
29	Schunck Rd	1.091	$30,720	Carolyn A. Leffler	Celina, OH
30	5950 Schunck Rd	2.276	$128,700	Nancy Ann Chaney	Celina, OH
31	5709 Schunck Rd	1.362	$107,600	Charles J. and Mary K Meier	Celina, OH
32	5655 Schunck Rd	0.25	$70,350	Ronald Stechler, et ux	Celina, OH
33	1101 US RT 127	21.23	$600,810	Case Leasing & Rental, Inc.	Bluffton, IN

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CRA

LEGEND

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- PROPERTY BOUNDARIES
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- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 9b
JANUARY 2005 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio

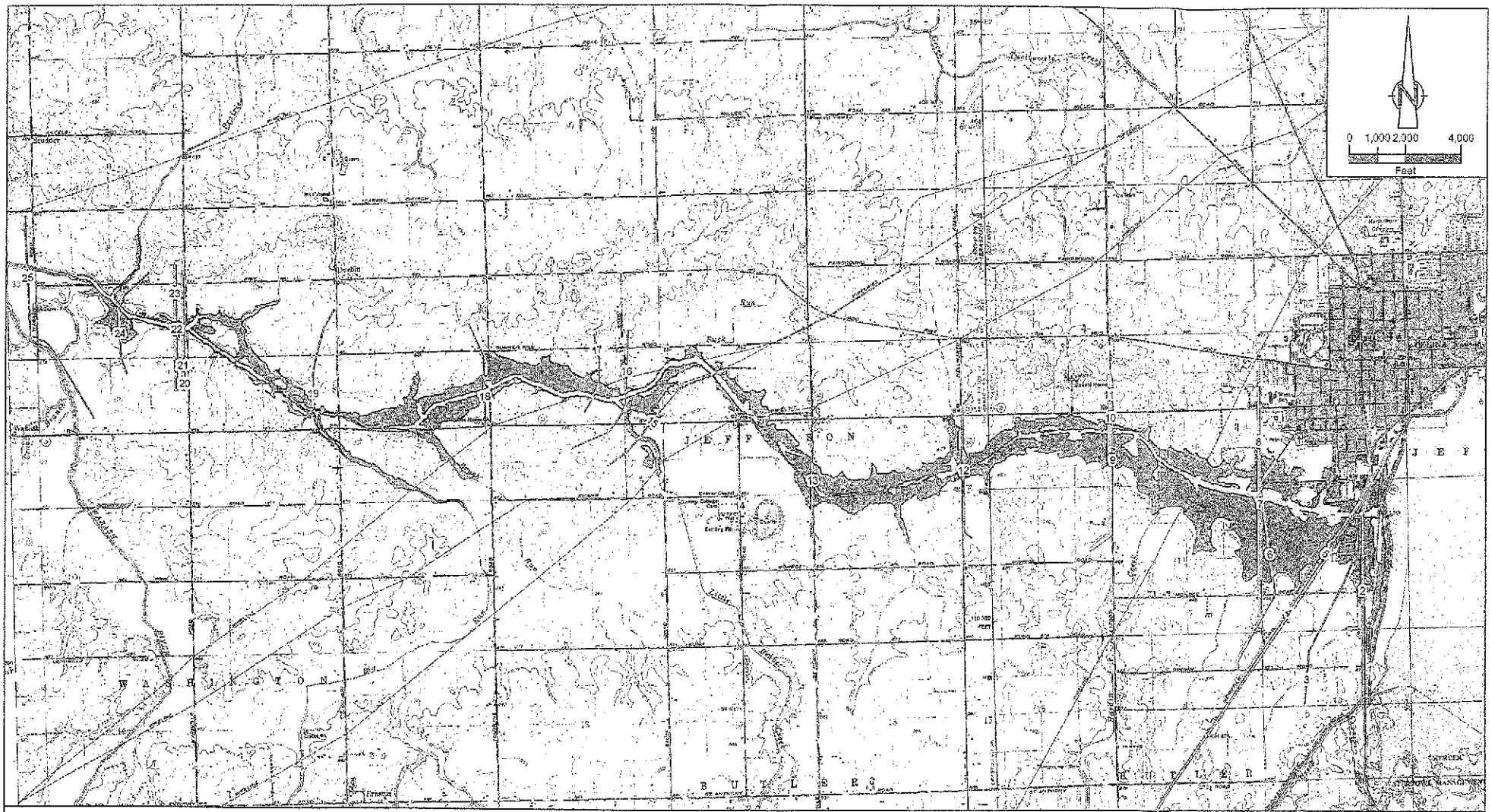

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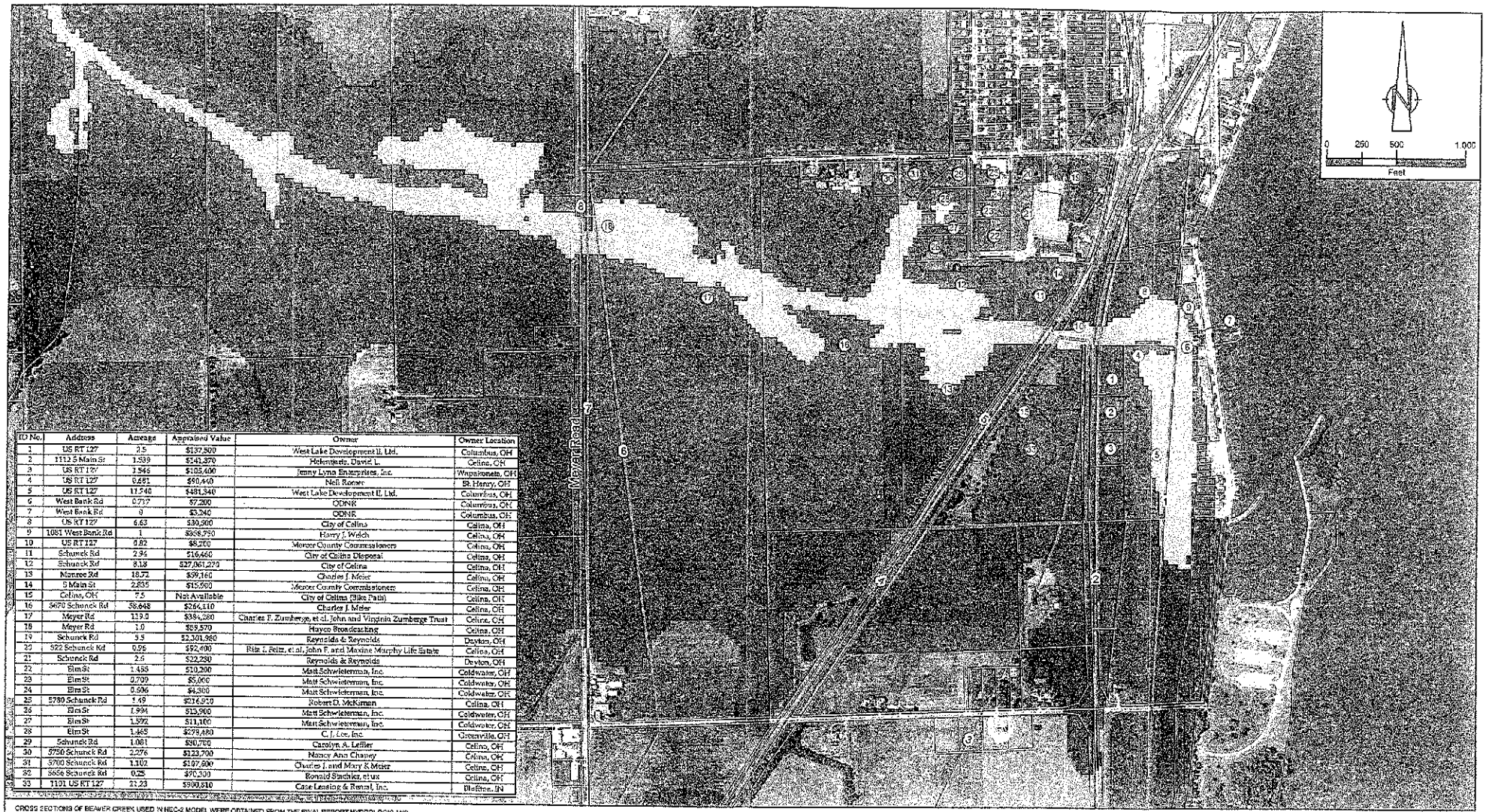
Figure 10a
JUNE 2006 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio



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4	US RT 127	0.681	$60,440	Nell Roeser	St Henry, OH
5	US RT 127	11.740	$481,340	West Lake Development II, Ltd.	Columbus, OH
6	West Bank Rd	0.717	$7,200	ODNR	Columbus, OH
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8	US RT 127	6.63	$30,900	City of Celina	Celina, OH
9	1081 West Bank Rd	1	$568,750	Harry J. Welch	Celina, OH
10	US RT 127	0.82	$8,200	Mercer County Commissioners	Celina, OH
11	Schunck Rd	2.94	$16,460	City of Celina Disposal	Celina, OH
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16	5670 Schunck Rd	58.648	$266,110	Charles J. Meier	Celina, OH
17	Meyer Rd	119.0	$384,280	Charles F. Zumberge, et al. John and Virginia Zumberge Trust	Celina, OH
18	Meyer Rd	1.0	$69,570	Hayco Broadcasting	Celina, OH
19	Schunck Rd	9.5	$2,301,960	Reynolds & Reynolds	Dayton, OH
20	522 Schunck Rd	0.95	$92,400	Rita J. Fehr, et al, John F. and Maxine Murphy Life Estate	Celina, OH
21	Schunck Rd	2.6	$22,230	Reynolds & Reynolds	Dayton, OH
22	Elm St	1.485	$10,200	Matt Schwieterman, Inc.	Coldwater, OH
23	Elm St	0.709	$5,000	Matt Schwieterman, Inc.	Coldwater, OH
24	Elm St	0.606	$4,300	Matt Schwieterman, Inc.	Coldwater, OH
25	5780 Schunck Rd	1.49	$016,910	Robert D. McKimen	Celina, OH
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27	Elm St	1.592	$11,100	Matt Schwieterman, Inc.	Coldwater, OH
28	Elm St	1.465	$278,480	C.I. Lee, Inc.	Greenville, OH
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32	5656 Schunck Rd	0.25	$90,200	Ronnid Stechler, et ux	Celina, OH
33	1101 US RT 127	21.23	$900,810	Case Leasing & Rental, Inc.	Bluffton, IN

CROSS SECTIONS OF BEAVER CREEK USED IN HEC-2 MODEL WERE OBTAINED FROM THE FINAL REPORT HYDROLOGIC AND HYDRAULIC ANALYSIS, GRAND LAKE ST. MARYS, AUGLAIZE AND MERCER COUNTIES, OHIO, FEBRUARY 2, 1983, BSCEM ENGINEERING, INC.

UNITED STATES DEPARTMENT OF AGRICULTURAL AERIAL PHOTOGRAPH DATED JUNE 23, 2006

INFORMATION SHOWN IN THE TABLE AND PROPERTY BOUNDARIES SHOWN ON THE FIGURE WERE OBTAINED FROM THE MERCER COUNTY OHIO REAL ESTATE SEARCH RESULTS, UNOFFICIAL REAL PROPERTY RECORD CARDS, COMPLETED ON DECEMBER 21, 2005.

GROUND SURFACE ELEVATIONS USED WERE OBTAINED FROM THE OHIO 10 METER DIGITAL ELEVATION MODEL, PUBLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF EMERGENCY AND REMEDIAL RESPONSE, 2004

LEGEND

- CASE LEASING AND RENTAL, INC. PROPERTY BOUNDARY
- CROSS SECTION NUMBER AND LOCATIONS USED IN HEC-2 COMPUTER PROGRAM
- PROPERTY BOUNDARIES
- INUNDATED AREA AS THE RESULT OF THE 39.4 FOOT SPILLWAY
- INUNDATED AREA AS THE RESULT OF THE 500 FOOT SPILLWAY
- (17) PROPERTY IDENTIFICATION NUMBER

Figure 10b
JUNE 2006 STORM EVENT
FLOOD INUNDATION MAP

Schottenstein Zox & Dunn Co., LPA
Columbus, Ohio

TABLES

TABLE 1

MODEL RESULTS FOR HISTORICAL STORM EVENTS
GRAND LAKE ST. MARYS
MERCER AND AUGLAIZE COUNTIES, OHIO

Rainfall/Runoff event	Rainfall Amount [3]	Rainfall Duration [3]	39.4-Foot Spillway	500-Foot Spillway	Difference [7]	39.4-Foot Spillway	500-Foot Spillway	Difference [8]	39.4-Foot Spillway	500-Foot Spillway	Difference [11]	39.4-Foot Spillway	500-Foot Spillway	Difference [11]
			Maximum lake elevation	Maximum lake elevation		Maximum Discharge [9]	Maximum Discharge [4]		Upstream Case Property Limit Maximum Water Elevation [10]	Upstream Case Property Limit Maximum Water Elevation [10]		Downstream Case Property Limit Maximum Water Elevation [10]	Downstream Case Property Limit Maximum Water Elevation [10]	
	[inches]	[hours]	[feet msl]	[feet msl]	[feet msl]	[cfs]	[cfs]	[cfs]	[feet msl]	[feet msl]	[feet]	[feet msl]	[feet msl]	[feet]
March/ April 1913 [1]	8.31	156	872.9 [4]	872.6 [4]	-0.3	325	2100	1775	854.6	961.4	6.8	854.5	860.1	5.6
January 1936	6.15	198	872.6 [5]	872.3 [5]	-0.3	265	1327	1062	854.0	859.6	5.6	853.9	859.1	5.2
April 1938 [2]	3.26	84	872.2 [5]	872.0 [5]	-0.2	177	663	486	852.9	857.0	4.1	852.9	857.0	4.1
May 1943	4.11	132	872.5 [6]	872.2 [6]	-0.3	229	1058	830	853.6	858.8	5.2	853.5	858.5	5.0
February 1959 [2]	3.37	108	872.2 [7]	872.1 [6]	-0.1	177	809	632	852.9	857.8	4.9	852.9	857.7	4.8
April/May 1972	5.72	276	872.5 [5]	872.1 [5]	-0.4	229	976	748	853.6	858.5	5.0	853.5	858.3	4.8
May 1981 [2]	4.99	156	872.3 [5]	872.2 [6]	-0.1	193	1044	852	853.1	858.8	5.6	853.1	858.5	5.4
July 1992	8.94	246	872.4 [6]	872.0 [6]	-0.4	210	1208	998	853.2	859.3	6.0	853.2	858.9	5.7
June/July 1995 [2]	5.83	204	872.7 [6]	872.4 [5]	-0.3	265	1448	1163	854.2	859.9	5.7	854.1	859.3	5.2
February/May1997 [2]	2.99	108	872.2 [5]	872.0 [5]	-0.2	176	640	465	852.9	856.9	4.0	852.9	856.8	4.0
July/ August 1998 [2]	3.60	180	872.5 [6]	872.1 [5]	-0.4	237	813	576	853.7	857.9	4.2	853.6	857.7	4.1
May 2002 [2]	2.93	300	872.6 [6]	872.0 [5]	-0.6	247	667	421	853.8	857.1	3.3	853.7	857.0	3.3
June/July 2003	10.67	138	873.7 [6]	872.6 [5]	-1.0	537	2185	1648	856.5	860.9	4.7	856.2	860.2	4.0
December 2003 [2]	3.42	324	873.3 [6]	872.5 [5]	-0.8	444	1744	1300	855.6	860.5	4.9	855.5	859.8	4.3
January 2005	7.43	106	873.5 [5a]	872.6 [5]	-0.9	482	1961	1480	855.9	860.8	4.9	855.8	860.1	4.2
June 2006	N/A	N/A	873.0 [6]	872.4 [5]	-0.6	346	1535	1189	854.6	860.1	5.4	854.7	859.5	4.8
									Case Leasing and Rental, Inc. finished floor elevation = 858.74 [12]					

Notes: [1] Since no lake elevation data was available in 1913, the cited event was modeled by HEC-1 using recorded rainfall data and an assumed starting lake elevation of 871.6 feet msl.

[2] The cited rainfall/ runoff event was not included in analysis of the CRA May 2006 Report

[3] Data obtained from the National Oceanic and Atmospheric Administration (NOAA) National Climate Data Center (NCDC) for the following stations: Mercer, OH (335190), Auglaize, OH (330363), Mercer, OH (335869), Adams, IN (120678), Darke, OH (338642), Shelby, OH (337993), and Darke, OH (332375).

[4] Data obtained from the HEC-1 simulation output.

[5] Lake elevations cited are actual elevations as measured at GLSM.

[5a] Lake elevations cited were calculated based upon the stage-storage relationship of the GLSM reservoir.

[6] The maximum lake elevation for the 500-foot spillway minus the maximum lake elevation for the 39.4-foot spillway.

[7] Discharges cited were calculated for the corresponding maximum lake elevation by use of the stage-discharge relationship of the corresponding spillway.

[8] The maximum discharge for the 500-foot spillway minus the maximum discharge for the 39.4-foot spillway.

[9] Data obtained from HEC-2 simulation output.

[10] The maximum water elevation for the 500-foot spillway minus the maximum water elevation for the 39.4-foot spillway.

[11] The finished floor of Case Leasing and Rental Inc. was surveyed by Canestaro, Rayer & Associates (CRA) on March 29, 2006.

Highlighted values exceed the elevation of the Case Leasing and Rental, Inc. finished floor.

msl = mean sea level

cfs = cubic feet per second

N/A = Not obtained

TABLE 2

SUMMARY OF LAKE SURFACE LEVEL MEASUREMENT DATA
GRAND LAKE ST. MARYS
MERCER AND AUGLAIZE COUNTIES, OHIO

	APRIL 1, 1927 THROUGH JUNE 1, 1997 [1]		*JUNE 1, 1997 THROUGH AUGUST 21, 2006* [2]		*Difference in Percentage*
	Number of Measurements	*Percentage of Total Measurements (percent)*	*Number of Measurements*	*Percentage of Total Measurements (percent)*	
Total	23,305	100	521	100	0
Above 870.6 (feet msl)	4,994	21.4	382	73.3	51.9
Between 870.6 and 870.99 (feet msl)	2,720	11.7	78	15.0	3.3
Between 871.0 and 871.49 (feet msl)	1,711	7.3	167	32.1	24.7
Between 871.5 and 871.99 (feet msl)	461	2.0	122	23.4	21.4
Above 871.8 (feet msl) [3]	227	1.0	52	10.0	9.0
Above 872.0 (feet msl)	102	0.4	15	2.9	2.4

Notes:

[1] Time period cited was prior to the construction of the 500-foot spillway.

[2] Time period cited is subsequent to the construction of the 500-foot spillway.

[3] The cited elevation is the approximate GLSM elevation at which the 500-foot spillway discharges a flow that will begin to overflow the Beaver Creek channel banks at the Case property.

msl = mean sea level

A

APPENDIX A

LAKE GAUGE SURVEY RESULTS

(Referenced in the text on page 3)

Lee Surveying and Mapping Co., Inc.

Land Surveys • Topography • Subdivisions • Construction Layout

117 N. Madriver Street
Bellefontaine OH 43311

Phone: (937) 593-7335
Fax: (937) 593-7444

1975 - 2005 - 30 YEARS OF EXCELLENCE

September 19, 2006

Schottenstein Zox & Dunn Co., LPA
P.O. Box 165020
Columbus OH 43216

ATTN.: Stephen Samuels

RE: Survey of Gauges and Spillway Notch on Grand Lake St. Marys, Ohio

Dear Mr. Samuels:

This project was personally surveyed by my associate, William K. Bruce, P.S., Ohio Registered Surveyor Number 7437. He completed the field portion of the survey yesterday afternoon and checked his final notes in the late afternoon. He ran the survey in approximate one mile loops a distance of twelve miles around the lake (24 survey miles) using a Zeiss Model DiNi Electronic Level (SN 207427). The pair of level rods are matching rods manufactured by Zeiss and Trimble (Model TD24). The level was checked for accuracy prior to proceeding with the survey. The survey proceeded at a fast pace in all types of weather including heavy rains on the first day of the survey. The final field work was completed at a speed of less than two hours per mile of survey by using extra personnel and two rods instead of the usual one.

Initially, Mr. Bruce had communication problems with the prior survey company regarding the location of the bench marks to use. The problem was unavoidable due to the absence of Mr. Charles Munce from his office for two days. Since it was imperative that the project be completed quickly, Mr. Bruce used an assumed elevation for his beginning point and completed the survey with that basis for elevations. Once, he obtained the bench mark locations required to match the prior surveys, he tied his survey to a point designated Bench Mark 2 in the Mercer County Engineer's Records.

Bench Mark 2 is a chiseled "O" cut in the southeast wing of the U.S. Route 127 bridge over Beaver Creek opposite center-line Station 7+50 per the 1977 highway plans. The published elevation for Bench Mark 2 is 860.72 feet.

The correction to his assumed elevations will require adding 17.003 feet to each of his field elevations. Mr. Bruce's unadjusted closure for the total twenty-four mile distance is 0.04 feet of error in the twelve miles. 0.04 feet is about 1/2 inch.

Your original scope for this project requested that we provide the following information:

1. The elevation of the 50-foot notch in the center of the spillway located on the western side of Grand Lake St. Marys. Note that Mr. Bruce simply called this the top of spillway in his notes.

2. The elevation of the gauge on the East Bank of Grand Lake St. Marys.

3. The elevation of the gauge on the Western Bank of Grand Lake St. Marys.

4. The elevation of the gauge on the boathouse located on the north side of Grand Lake St. Marys.

Lee Surveying and Mapping Co., Inc.

Land Surveys • Topography • Subdivisions • Construction Layout

117 N. Madriver Street
Bellefontaine OH 43311

Phone: (937) 593-7335
Fax: (937) 593-7444

1975 - 2005 ~ 30 YEARS OF EXCELLENCE

During a phone conversation with you, I was instructed to use the same mark on all of the gauges with a preference to use the 3 feet mark. Additionally, we were to, also, verify the elevations of each end of the dam and the top of the "V" slot in the dam.

The results of the survey after the addition of the 17.003 feet and necessary variations from the original scope are as follows. All elevations are in feet and thousands of a foot:

Top of the dam on the north side of the spillway	871.487'
Top of the spillway on the north side	870.646'
Top of the dam on the south side of the spillway	871.483'
Top of the spillway on the south side	870.620'

The gauge on the west bank does not exist anymore.

Mercer County Bench Mark 810 is the TBM for the west bank gauge if it is to be replaced. The location is defined on the attached county document at the end of this report The published elevation is 877.01 feet. The elevation from our field survey is 877.003'

The top of the 2 feet mark on the gauge at the O.D.N.R. maintenance area boat building. 872.764 There is no 3 feet mark on this gauge. This gauge could not be found at the beginning of the survey.

A "MAG" nail TBM was set in the west side of a light pole in the middle of the maintenance area parking lot. The top of the head of the MAG nail is 875.551

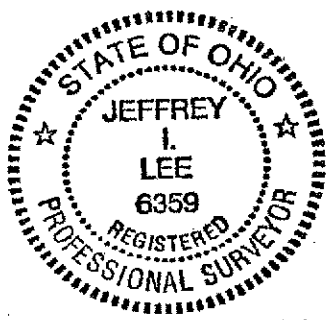
Top of the 3 feet mark on the water gauge at the east end of the lake 873.308

TBM at the water gauge area is a chiseled "+" on top of a bolt at the base of the hoist/crane. 878.612

I have attached a copy of Mr. Bruce's original field notes as well as a copy of the Mercer County Bench Mark notes as cited above. If you have need for any further information, please contact us.

Sincerely,

Jeffrey I. Lee
Ohio Professional Surveyor 6359



ORIGINAL STAMP IN GREEN

FINAL ELEVATIONS

TOP/DAM (NORTH SIDE SPILLWAY)	871.487
T/SPILLWAY NORTH SIDE	870.646
T/DAM (SOUTH SIDE SPILLWAY)	871.483
T/SPILLWAY SOUTH SIDE	870.62
NO GAUGE @ WEST BANK SIDE	_____

TOP/ 2' MARK ON WATER GAUGE @
O.D.N.R. MAINTENANCE AREA 872.764
BOAT BUILDING

T.B.M. @ O.D.N.R. MAINTENANCE AREA 875.551
IS A "MAG" NAIL SET IN THE WEST
SIDE OF A LIGHT POLE IN THE
MIDDLE OF MAINTENANCE AREA
PARKING LOT

TOP/ 3' MARK ON WATER GAUGE - 873.308
@ EAST END OF LAKE

T.B.M @ WATER GAUGE AREA IS 878.612
A CHISELED "+" ON TOP OF A
BOLT @ BASE OF HOIST/CRANE

NOTE: ADD 17.003' TO ALL ELEVATIONS ON PAGES 2 through 19. (PAGE 20 TIES MAIN LOOPS TO MERCER CO. ENGINEERS B.M. # 2)

STATE OF OHIO
WILLIAM K. BRUCE 7437 REGISTERED PROFESSIONAL SURVEYOR

ORIGINAL STAMP IN GREEN

(2) 4314096

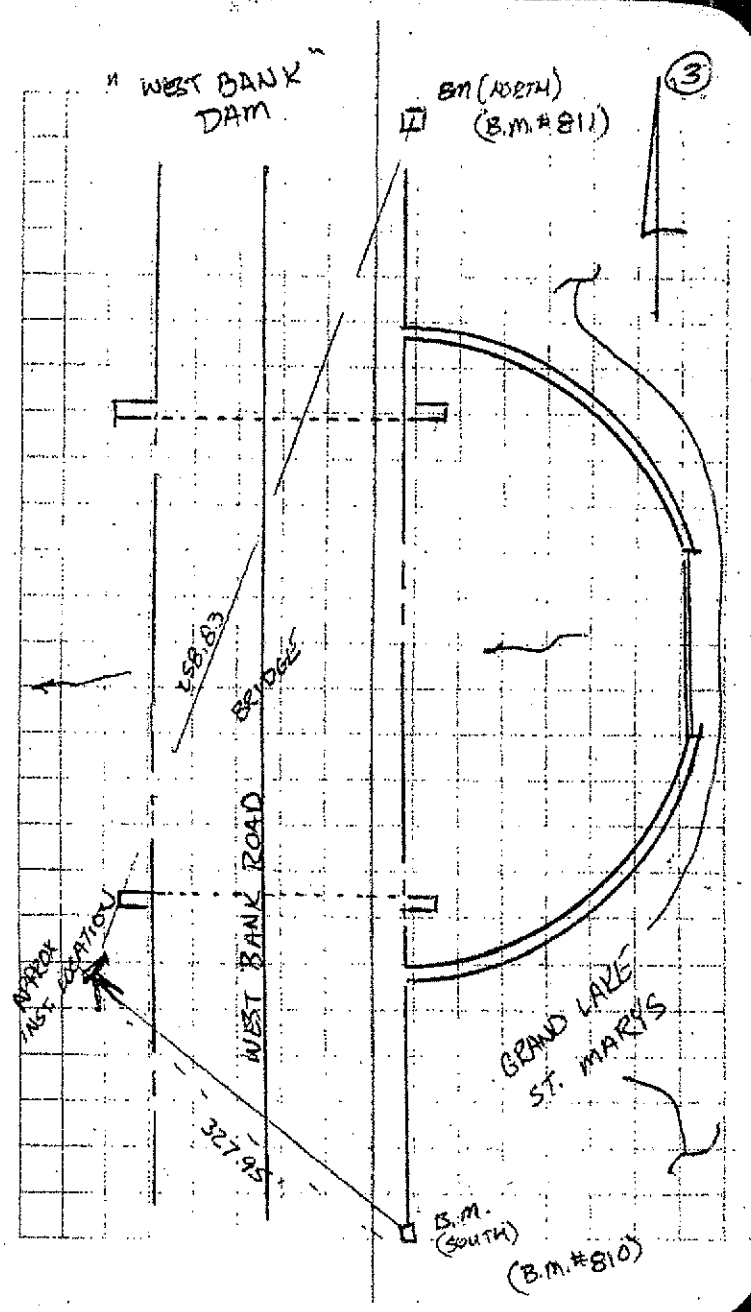
9/12/06 65°-OVERCAST, RAIN

KB-CW-DL

INSTRUMENT = ZIESS DINI 20

DESC	+	I	−	ELEV.	NOTE
B.M. CHISELED "□"	3.944	863.944		860.00	SOUTH
ASSUMED 860.00					
(876.81) #810				877.01 (4/15/06) INFO OBTAINED	
B.M. CHISELED "□" (876.81) #811			4.164	859.78	NORTH
T/DAM @ SPILLWAY (NORTH)			9.460	854.484	
T/CONC. @ SPILLWAY (NORTH)			10.301	853.643	290.45'
T/DAM @ SPILLWAY (SOUTH)			9.464	854.48	
T/CONC. @ SPILLWAY (SOUTH)			10.327	853.617	273.66'
CHK IN @ SOUTH B.M.			3.942		

NOTE: BENCH LOOPS ARE BASED UPON ASSUMED ELEV.



(4)

4314096

KB-CW-DL

9/12/06

65°-OVERCAST/RAIN

LEVEL LOOP #1

(BEGIN ON WEST BANK ROAD)

HEADING-NORTH

DESC	+	x	-	ELEV.	NOTE
B.M. CHISELED	~~4.160~~ 4.610	~~864.368~~ 864.39		859.78	NORTH
T.P.#1	4.728	864.348	4.770	859.62	
T.P.#2	5.049	864.824	4.573	859.775	
T.P.#3	4.973	865.227	~~4.569~~ 4.570	860.254	
T.P.#4	4.266	864.499	4.994	860.233	
T.P.#5	4.853	864.464	4.888	859.611	
T.P.#4	4.800	865.035	4.229	860.235	
T.P.#3	4.555	864.811	4.779	860.256	
T.P.#2	4.480	~~855.297~~ 864.257	5.034	859.777	
T.P.#1	5.373	864.996	4.634	859.623	
CHK. IN B.M.			5.213	859.783	

.003 HIGH

60°-OVERCAST

9/13/06

KB-CW-DL

LOOP #2

(5)

DESC	+	x	-	ELEV.	NOTES
T.P.#5	3.577	863.188		859.611	
T.P.#6	5.508	861.325	7.371	855.817	
T.P.#7	5.499	861.713	5.111	856.214	
T.P.#8	6.186	863.415	4.484	857.229	
T.P.#9	5.109	861.424	7.100	856.315	
T.P.#10	7.355	864.587	4.242	857.182	
T.P.#11	7.005	864.414	7.328	857.409	
T.P.#12	1.702	864.237	1.879	862.535	
T.P.#11	8.199	865.606	6.630	857.407	
T.P.#10	4.420	861.604	8.422	857.184	
T.P.#9	7.888	864.204	5.288	856.316	
T.P.#8	~~4.660~~ 4.390	861.620	6.974	857.230	
T.P.#7	5.005	861.217	5.408	856.212	
T.P.#6	7.560	863.369	5.408	855.809	
T.P.#5			3.764	859.605	

(.004 LOW)

(6) 9/13/06 KB-CW-DW-RP

LOOP # 3

DESC	+	HI	−	ELEV	NOTES
T.P. # 12	2.456	864.991		862.535	
TP # 13	5.804	864.398	6.397	858.594	
TP # 14	8.640	869.819	3.219	861.179	
T.P. # 15	4.970	872.269	2.520	867.299	
T.P. # 16	1.390	864.375	9.284	862.985	
T.P. # 17	6.604	~~878.87~~ 863.948	7.031	~~871.406~~	857.344
T.P. # 18	6.286	~~880.49~~ 863.428	3.806	~~874.204~~	860.142
T.P. # 19	2.543	~~880.421~~ 866.178	2.793	~~877.697~~	863.635
T.P. # 20	9.849	~~886.993~~ 872.931	3.096	~~877.144~~	863.082
T.P. # 21	4.472	~~886.60~~ 871.618	5.785	~~881.208~~	867.146
T.P. # 22	6.407	~~885.60~~ 871.538	6.487	~~879.193~~	865.131 (boxed)
T.P. # 21	5.551	~~886.76~~ 872.698	~~4.93~~ 4.391	881.209	867.147
T.P. # 20	2.998	~~880.441~~ 866.977	9.617	~~877.143~~	863.081
T.P. # 19	2.530	~~880.000~~ 866.166	2.443	~~877.698~~	863.636
T.P. # 18	3.581	~~877.785~~ 863.723	6.024	~~874.204~~	860.142
T.P. # 17	7.419	~~878.821~~ 864.759	6.383	~~871.402~~	857.340
T.P. # 16	9.267	872.249	1.777	~~877.044~~	862.982
T.P. # 15	2.451	869.745	4.955	867.294	
T.P. # 14	3.100	864.275	8.570	861.175	
T.P. # 13	6.318	864.905	5.688	858.587	
T.P. # 12			2.376	862.529	

.006' LOW

9/13/06 KB-CW-DL-RP (7)

LOOP # 4

DESC	+	HI	−	ELEV	NOTES
T.P. # 22	4.337	869.468		865.131	
T.P. # 23	4.199	867.52	6.147	863.321	
T.P. # 24	9.867	873.454	3.983	863.587	
T.P. # 25	5.714	876.695	2.473	870.981	
T.P. # 26	5.259	875.766	6.188	870.507	
T.P. # 27	7.608	881.468	~~5.259~~ 1.906	873.860	
T.P. # 28	5.668	881.115	6.021	875.447	
T.P. # 29	5.883	881.923	5.075	876.040	
T.P. # 30	5.708	882.306	5.325	876.598	
T.P. # 31	3.921	881.002	5.225	877.081	
T.P. # 32	2.640	880.811	2.831	878.171 (boxed)	
T.P. # 31	5.072	882.154	3.729	877.082	
T.P. # 30	5.150	881.750	5.554	876.600	
T.P. # 29	4.943	880.986	5.707	876.043	
T.P. # 28	5.772	881.221	5.537	875.449	
T.P. # 27	1.647	875.511	7.357	873.864	
T.P. # 26	6.025	876.539	4.997	870.514	
T.P. # 25	2.425	873.410	5.554	870.985	
T.P. # 24	3.748	867.341	9.817	863.593	
T.P. # 23	5.867	869.199	4.009	863.332	
T.P. # 22			4.055	865.144	

.013 HIGH

(8) 9/14/06 75° P. SUNNY KB-EW-DL

LOOP #5

DESC	+	x	-	ELEV.	NOTE
T.P.#32	7.590	885.761		878.171	
T.P.* 33	4.548	883.392	6.917	878.844	
T.P.*34	7.745	886.909	4.228	879.164	
T.P.#35	3.990	883.781	7.618	879.291	
T.P.#36	4.715	880.663	7.333	875.948	
T.P.*37	5.719	879.989	6.393	874.270	
T.P.*38	6.229	880.870	5.348	874.641	
T.P.#39	8.421	885.264	4.027	876.843	
T.P.#40	2.792	881.458	6.598	878.666	
T.P.#41	0.700	870.153	12.005	869.453	
T.P.*42	4.237	864.892	9.498	860.655	
T.P.*43	9.601	869.304	5.189	859.703	
T.P.*44	0.445	869.429	0.320	868.984	
T.P.*43	5.171	864.880	9.720	859.709	
T.P.*42	9.386	870.047	4.219	860.661	
T.P.*41	12.004	881.464	0.587	869.460	
T.P.*40	6.571	885.245	2.790	878.674	
T.P.*39	4.048	880.900	8.393	876.852	
T.P.*38	5.430	880.081	6.249	874.651	
T.P.#37	6.482	880.765	5.798	874.283	
T.P.#36	7.298	883.258	4.805	875.960	
T.P.*35	3.771	887.076	3.953	879.305	
T.P.*34	4.328	883.506	7.898	879.178	

(9)

DESC	+	x	-	ELEV.	NOTES
T.P.#33	7.009	885.847	4.648	878.858	
T.P.#32			7.682	878.185	
		0.014 HIGH			

(10)

KB-CW-DL DUBROCAST-75#

9/14/06

LOOP #6

DESC.	+	∠	−	ELEV.	NOTES
T.P.#44	9,328	878.312		868.984	
T.P.#45	7,429	882.023	3,718	874.594	
T.P.#46	7,856	885.961	3,918	878.105	
T.P.#47	2,971	884.371	4,561	881.400	TURN SHORT
T.P.#48	0,518	875.520	9,369	875.002	TURN SHORT
T.P.#49	0,427	866.593	9,354	866.166	SHORT
TP#50	6,214	865.314	7,493	859.100	
T.P.#51	~~7,698~~ 7,968	869.995	3,327	861.987	
T.P.#52	9,695	876.775	2,875	867.080	
T.P.#53	7,582	883.090	1,267	875.508	
T.P.#54	1,217	878.888	5,419	877.671	
T.P.#55	2,295	871.695	9,488	869.400	
T.P.#56	4,806	868.650	7,851	863.844	
T.P.#57	~~8,989~~ 8,908	872.246	5,312	863.338	
T.P.#58	2,792	872.190	~~2,965~~ 2,848	869.398	
T.P.#57	5,192	868.532	8,850	863.340	
T.P.#56	7,585	871.427	4,690	863.842	
TP#55	9,742	878.638	2,031	869.396	
T.P.#54	5,284	882.950	0,972	877.666	
T.P.#53	1,277	876.779	7,448	875.592	
T.P.#52	2,712	869.791	9,700	867.079	
T.P.#51	3,175	865.159	7,807	861.984	
T.P.#50	7,387	866.488	6,058	859,101	

(11)

DESC	+	∠	−	ELEV.	NOTES
T.P.#49	9,226	875.396	0,318	866.170	
T.P.#48	9,153	884.162	0 387	875.609	
T.P.#47	4,514	885.922	2,754	881.408	
T.P.#46	3,921	882.629	7.814	878.108	
T.P.#45	3,954	878.553	7.430	874.599	
T.P.#44			9,560	868.993	
			0.009 HIGH		

(12)

KB-MS-DL

9/16/06 70° - FOGGY

LOOP #7

DESC	+	⊼	-	ELEV	NOTES
TP#58	5.553	874.951		869.398	
TP#59	5.403	874.421	5.933	869.018	
TP#60	5.971	876.997	3.395	871.026	
TP#61	4.459	872.194	9.262	867.735	
T.P.#62	8.830	877.521	3.503	868.691	
T.P.#63	9.458	885.797	1.182	876.339	
T.P.#64	5.095	887.298	3.594	882.203	
T.P.#65	2.707	882.708	7.297	880.001	AUGUSTA MERCER LA LINE
T.P.#66	3.023	877.427	8.304	874.404	
T.P.#67	7.743	880.306	4.864	872.563	
T.P.#68	5.562	882.431	3.437	876.869	
T.P.#69	7.692	882.384	7.739	874.692	
T.P.#68	3.382	880.25	5.516	876.868	
T.P.#67	4.715	877.279	7.686	872.564	
T.P.#66	8.251	882.655	2.875	874.404	
T.P.#65	7.180	887.182	2.653	880.002	
T.P.#64	3.639	885.845	4.976	882.206	
T.P.#63	1.194	877.537	9.502	876.343	
T.P.#62	3.501	872.197	8.841	868.696	
T.P.#61	9.316	877.056	4.456	867.741	
T.P.#60	3.316	874.349	6.024	871.033	
T.P.#59	5.904	874.929	5.324	869.025	
T.P.#58			5.525	869.404	

(.006 HIGH)

9/16/06 75° OVERCAST

LOOP #8

(13)

DESC.	+	⊼	-	ELEV.	NOTES
~~874.692~~					
T.P.#69	6.867	881.559		874.692	
T.P.#70	5.336	883.394	3.501	878.058	
T.P.#71	~~3.832~~ 3.387	884.125	3.101	880.293	
T.P.#72	4.037	878.504	9.658	874.467	
T.P.#73	1.337	873.174	6.667	871.857	ENTRANCE DRIVE TO STATE PARK
T.P.#74	4.826	868.283	9.717	863.457	
T.P.#75	9.565	872.978	4.870	863.413	
T.P.#76	5.233	875.296	2.915	870.063	
TP#77	7.348	879.314	3.330	871.966	
T.P.#78	6.846	878.055	8.105	871.209	
T.P.#79	1.443	878.004	1.494	876.561	
T.P.#78	8.115	879.326	6.793	871.211	
T.P.#77	3.250	875.221	7.355	871.971	
T.P.#76	2.732	872.804	5.149	870.072	
T.P.#75	4.797	868.214	9.387	863.417	
T.P.#74	9.686	873.146	4.754	863.46	
TP#73	6.745	875.583	1.308	871.838	
T.P.#72	9.594	884.061	4.116	874.467	
TP#71	3.071	883.361	3.771	880.290	
TP#70	3.580	881.633	5.308	878.053	
TP#69			6.949	874.684	
		(.008 LOW)			

(14)

9/14/06 75°~SUNNY

KB-MS-DL LOOP #9

DESC	+	HI	-	ELEV	NOTES
T.P. 79	7.986	884.587		876.561	
T.P. 80	4.604	886.82	2.331	882.216	OU R.R.V.
T.P.*81	4.024	884.21	6.634	880.186	
T.P.*82	3.516	879.775	7.951	876.259	
T.P.*83	3.568	875.45	7.893	871.882	
T.P.*84	3.540	~~870.764~~ ~~871.097~~ 869.118	8.226	~~867.224~~ ~~867.557~~ 863.668	IRR
T.P.*85	5.458	~~868.451~~	7.104	~~863.993~~	
T.P.*86	4.683	868.091	5.710	863.408	
T.P.*87	4.781	866.554	6.318	861.773	
T.P.*88	4.305	864.669	6.190	860.364	
T.P.*89	5.207	864.609	5.267	859.402	
T.P.*88	6.294	866.650	4.253	860.356	
T.P.*87	6.062	867.881	4.881	861.769	
T.P.*86	5.625	869.034	4.422	863.409	
T.P.*85	7.007	870.670	5.371	863.663	
T.P.*84	8.225	875.460	3.435	867.235	
T.P.*83	7.821	879.717	3.564	871.896	
T.P.*82	7.944	884.222	3.439	876.278	
T.P.*81	6.539	~~886.747~~ ~~886.084~~ 884.566	4.014	880.~~553~~	
T.P.*80	2.329	~~886.586~~	4.510	882.~~257~~	
T.P.*79			7.988	~~868.500~~ 876.578	

(0.017 HIGH)

(15)

(16) 9-17-06 65°-SUNNY

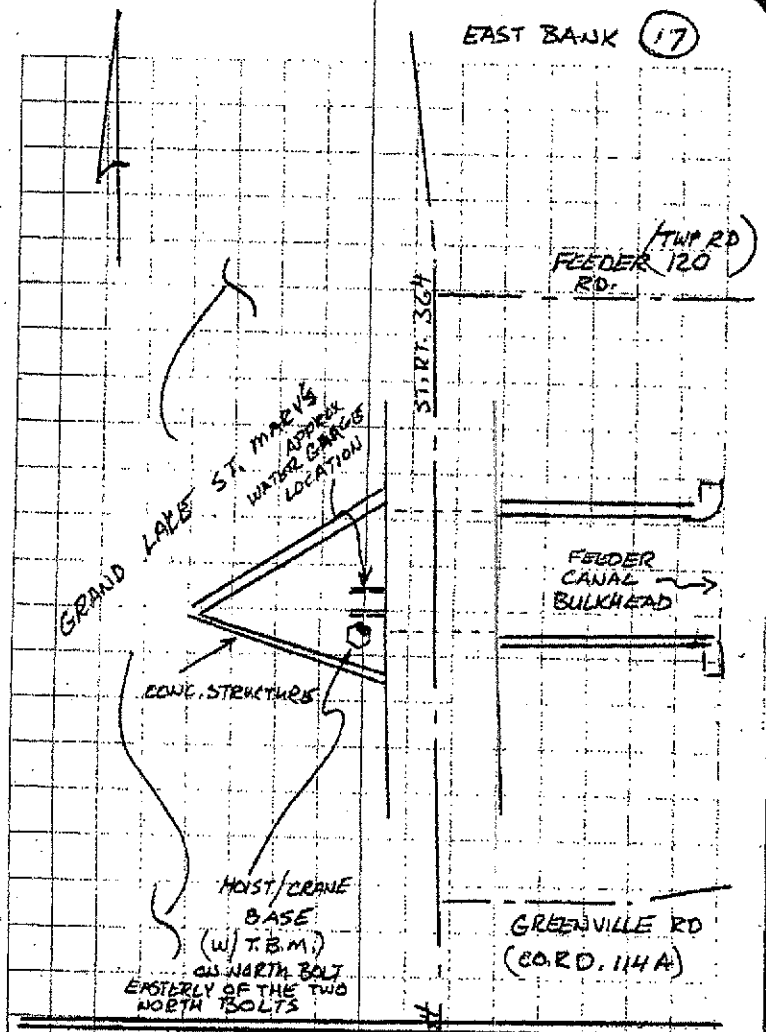
KB-CW-DL

LOOP #10

DESC	+	X	−	ELEV	NOTES
T.P.#89	4.839	864.241		859.402	
T.P.#90	5.083	864.284	5.040	859.201	
T.P.#91	5.400	864.618	5.066	859.218	
T.P.#92	5.586	865.163	5.041	859.577	
T.P.#93	5.649	865.370	5.442	859.721	
T.P.#94	5.580	865.948	5.002	860.368	
T.P.#95	4.864	866.102	4.710	861.238	
T.P.#96	5.471	866.749	4.824	861.278	
T.P.#97	4.761	866.706	4.804	861.945	
T.B.M.#1 BOLT ON CRANE HOIST @ GAUGE #1 @ EAST BANK (CHISELED "+" ON BOLT)	5.162	866.771	5.097	861.609	
T.P.#97	4.827	866.77	4.828	861.943	
T.P.#96	5.108	866.383	5.495	861.275	
T.P.#95	4.789	866.023	5.149	861.234	
T.P.#94	4.874	865.237	5.660	860.363	
T.P.#93	5.429	865.147	5.519	859.718	
T.P.#92	5.074	864.647	5.574	859.573	
T.P.#91	4.944	864.156	5.435	859.212	
T.P.#90	4.837	864.032	4.961	859.195	
T.P.#89			4.635	859.397	

(0.005 LOW)

EAST BANK (17)



DESC	+	X	−	ELEV	NOTE
T.B.M.#1	5.110	866.719		861.609	
TOP/3' WATER MARK	10.306	866.611	10.414	856.305	
T.B.M.#1			4.999	861.618	

(0.009 HIGH)

(18) KB-CW-DL 9/17/06 70°-SUNNY

LOOP #11

FROM STATE PARK BLDG. TO WATER GAUGE

DESC	+	↗	−	ELEV.	NOTE
T.P.#73	4.093	875.93		871.837	
T.P.#98	0.302	~~875.507~~ 869.509		6.723	869.207
T.P.#99	3.192	866.314		6.387	863.122
T.P.#100	5.657	862.965		9.006	857.308
T.B.M.#2	4.395	863.138		4.222	858.743
MAG NAIL SET IN WEST SIDE OF LIGHT POLE IN CENTER OF STATE PARK MAINTENANCE FACILITY PARKING LOT (APPROX 1.0' ABOVE PAVEMENT ELEV.)					
T.P.#101	5.373	862.037		6.474	856.664
TOP/2' WATER GAUGE *	5.941	861.895		6.083	855.954
T.P.#101	6.261	862.925		5.231	856.664
T.P.#100	8.586	866.094		5.417	857.508
T.P.#99	7.340	870.662		2.772	863.322
T.P.#98	6.523	875.93		1.255	869.407
T.P.#73				3.897	872.033

* NOTE: 2' WATER GAUGE HANGS ON A CHAIN, INSIDE STATE PARK MAINT. FACILITY BOAT HOUSE

LOOP #11-B 80°-SUNNY (19)

DESC.	+	↗	−	ELEV.	NOTE
T.P.#73	3.987	875.824		871.837	
T.P.#98	1.272	870.483	6.613	869.211	
T.P.#99	2.669	865.796	7.356	863.127	
T.P.#100	5.124	862.437	8.483	857.313	
T.P.#101	5.896	862.367	5.966	856.471	←
T.B.M.#2			3.819	858.548	
T.P.#100	8.545	865.86	5.052	857.315	
T.P.#99	7.411	870.54	2.731	863.129	
T.P.#98	6.432	875.647	1.325	869.215	
T.P.#73			3.803	871.844	
		(+.007)			
T.P.#100	5.373	861.844		856.471	
T/WATER GAUGE	5.941	861.702	6.083	855.761	
T.P.#101			5.231	856.471	

KB-CW-DL 9-18-06

(20) 65° - OVERCAST/RAIN

LOOP #12

TIE-IN MAIN LOOP TO MERCER CO. ENGINEER'S B.M.#2 (DATED 7-17-03)

(B.M.#2 FROM BEAVER CREEK PLANS - 1977 - MERCER CO. ENG. OFFICE. "O" CUT IN S.E. WING OF US 127 BRIDGE STA 7+50)

DESC.	+	HI	-	ELEV.	NOTE
B.M.#2	5.510	866.23		860.72	
T.P.#102	11.409	874.728	2.911	863.319	
TP#103	7.575	881.76	0.543	874.185	
CHISELED "O" IN CURB ON WEST BANK RD IN T/CURB, 382'± SOUTH OF SOUTH END BRIDGE @ DAM (B.M.#810)					
	4.689	881.692	4.757	877.003	
T.P.#103	0.571	874.756	7.507	874.185	
T.P.#102	~~3.079~~ 3.081	866.400	11.437	863.319	
B.M.#2			5.676	860.724	

(.004 HIGH)

NOTE:
MERCER CO. ENG. OFFICE
REF. ELEV. = 877.01 ✓

PROJECT Determine Elevation of DATE 8-18-03

TASK 2 new bench marks as described based on BM #2 from Beaver Creek plans - 1977

Desc./Loca.	BS	HI	FS	Elev.
BM #2 from Beaver Creek plans - 1977				
"O" cut in SE wing of US-127 bridge over Beaver Creek - Sta. 7+50.	3.88	864.60		860.72
TP	6.72	864.65	6.67	857.93
TP	14.18	877.94	0.89	863.76
TP (Bolt)	3.49	881.00	0.43	877.51
BM #810 - "□" Square chiseled in top of concrete seawall at catch basin located ±382' South of south end of West Bank Rd. bridge over Beaver Creek at spillway			3.99	877.01
TP (Bolt)	5.24	882.75		877.51
BM #811 - "□ Square Saw cut in top of Concrete Seawall at catch basin located ±116' North of north end of West Bank Rd. bridge over Beaver Creek at spillway			5.94	876.81
BM #810 - Elev. = 877.01				
BM #811 - Elev. = 876.81				

NAD 29

APPENDIX B

LAKE ELEVATION DATA
(Referenced in the text on page 3)

TABLE 2

SUMMARY OF LAKE SURFACE LEVEL MEASUREMENT DATA
GRAND LAKE ST. MARYS
MERCER AND AUGLAIZE COUNTIES, OHIO

	APRIL 1, 1927 THROUGH JUNE 1, 1997 [1]		*JUNE 1, 1997 THROUGH AUGUST 21, 2006* [2]		*Difference in Percentage*
	Number of Measurements	*Percentage of Total Measurements (percent)*	*Number of Measurements*	*Percentage of Total Measurements (percent)*	
Total	23,305	100	521	100	0
Above 870.6 (feet msl)	4,994	21.4	382	73.3	51.9
Between 870.6 and 870.99 (feet msl)	2,720	11.7	78	15.0	3.3
Between 871.0 and 871.49 (feet msl)	1,711	7.3	167	32.1	24.7
Between 871.5 and 871.99 (feet msl)	461	2.0	122	23.4	21.4
Above 871.8 (feet msl) [3]	227	1.0	52	10.0	9.0
Above 872.0 (feet msl)	102	0.4	15	2.9	2.4

Notes:

[1] Time period cited was prior to the construction of the 500-foot spillway.

[2] Time period cited is subsequent to the construction of the 500-foot spillway.

[3] The cited elevation is the approximate GLSM elevation at which the 500-foot spillway discharges a flow that will begin to overflow the Beaver Creek channel banks at the Case property.

msl = mean sea level

APPENDIX A

LAKE GAUGE SURVEY RESULTS

(Referenced in the text on page 3)

Lee Surveying and Mapping Co., Inc.

Land Surveys • Topography • Subdivisions • Construction Layout

117 N. Madriver Street
Bellefontaine OH 43311

Phone: (937) 593-7335
Fax: (937) 593-7444

1975 - 2005 - 30 YEARS OF EXCELLENCE

September 19, 2006

Schottenstein Zox & Dunn Co., LPA
P.O. Box 165020
Columbus OH 43216

ATTN.: Stephen Samuels

RE: Survey of Gauges and Spillway Notch on Grand Lake St. Marys, Ohio

Dear Mr. Samuels:

This project was personally surveyed by my associate, William K. Bruce, P.S., Ohio Registered Surveyor Number 7437. He completed the field portion of the survey yesterday afternoon and checked his final notes in the late afternoon. He ran the survey in approximate one mile loops a distance of twelve miles around the lake (24 survey miles) using a Zeiss Model DiNi Electronic Level (SN 207427). The pair of level rods are matching rods manufactured by Zeiss and Trimble (Model TD24). The level was checked for accuracy prior to proceeding with the survey. The survey proceeded at a fast pace in all types of weather including heavy rains on the first day of the survey. The final field work was completed at a speed of less than two hours per mile of survey by using extra personnel and two rods instead of the usual one.

Initially, Mr. Bruce had communication problems with the prior survey company regarding the location of the bench marks to use. The problem was unavoidable due to the absence of Mr. Charles Munce from his office for two days. Since it was imperative that the project be completed quickly, Mr. Bruce used an assumed elevation for his beginning point and completed the survey with that basis for elevations. Once, he obtained the bench mark locations required to match the prior surveys, he tied his survey to a point designated Bench Mark 2 in the Mercer County Engineer's Records.

Bench Mark 2 is a chiseled "O" cut in the southeast wing of the U.S. Route 127 bridge over Beaver Creek opposite center-line Station 7+50 per the 1977 highway plans. The published elevation for Bench Mark 2 is 860.72 feet.

The correction to his assumed elevations will require adding 17.003 feet to each of his field elevations. Mr. Bruce's unadjusted closure for the total twenty-four mile distance is 0.04 feet of error in the twelve miles. 0.04 feet is about 1/2 inch.

Your original scope for this project requested that we provide the following information:

1. The elevation of the 50-foot notch in the center of the spillway located on the western side of Grand Lake St. Marys. Note that Mr. Bruce simply called this the top of spillway in his notes.

2. The elevation of the gauge on the East Bank of Grand Lake St. Marys.

3. The elevation of the gauge on the Western Bank of Grand Lake St. Marys.

4. The elevation of the gauge on the boathouse located on the north side of Grand Lake St. Marys.

Lee Surveying and Mapping Co., Inc.

Land Surveys • Topography • Subdivisions • Construction Layout

117 N. Madriver Street
Bellefontaine OH 43311

Phone: (937) 593-7335
Fax: (937) 593-7444

1975 - 2005 - 30 YEARS OF EXCELLENCE

During a phone conversation with you, I was instructed to use the same mark on all of the gauges with a preference to use the 3 feet mark. Additionally, we were to, also, verify the elevations of each end of the dam and the top of the "V" slot in the dam.

The results of the survey after the addition of the 17.003 feet and necessary variations from the original scope are as follows. All elevations are in feet and thousands of a foot:

Top of the dam on the north side of the spillway	871.487'
Top of the spillway on the north side	870.646'
Top of the dam on the south side of the spillway	871.483'
Top of the spillway on the south side	870.620'

The gauge on the west bank does not exist anymore.

Mercer County Bench Mark 810 is the TBM for the west bank gauge if it is to be replaced. The location is defined on the attached county document at the end of this report The published elevation is 877.01 feet. The elevation from our field survey is 877.003'

The top of the 2 feet mark on the gauge at the O.D.N.R. maintenance area boat building. 872.764 There is no 3 feet mark on this gauge. This gauge could not be found at the beginning of the survey.

A "MAG" nail TBM was set in the west side of a light pole in the middle of the maintenance area parking lot. The top of the head of the MAG nail is 875.551

Top of the 3 feet mark on the water gauge at the east end of the lake 873.308

TBM at the water gauge area is a chiseled "+" on top of a bolt at the base of the hoist/crane. 878.612

I have attached a copy of Mr. Bruce's original field notes as well as a copy of the Mercer County Bench Mark notes as cited above. If you have need for any further information, please contact us.

Sincerely,

Jeffrey I. Lee
Ohio Professional Surveyor 6359

ORIGINAL STAMP IN GREEN

FINAL ELEVATIONS

TOP/DAM (NORTH SIDE SPILLWAY)	871.487
T/SPILLWAY NORTH SIDE	870.646
T/DAM (SOUTH SIDE SPILLWAY)	871.483
T/SPILLWAY SOUTH SIDE	870.62
NO GAUGE @ WEST BANK SIDE	———

TOP/ 2' MARK ON WATER GAUGE @ O.D.N.R. MAINTENANCE AREA BOAT BUILDING — 872.764

T.B.M. @ O.D.N.R. MAINTENANCE AREA IS A "MAG" NAIL SET IN THE WEST SIDE OF A LIGHT POLE IN THE MIDDLE OF MAINTENANCE AREA PARKING LOT — 875.551

TOP/ 3' MARK ON WATER GAUGE @ EAST END OF LAKE — 873.308

T.B.M @ WATER GAUGE AREA IS A CHISELED "+" ON TOP OF A BOLT @ BASE OF HOIST/CRANE — 878.612

NOTE: ADD 17.003' TO ALL ELEVATIONS ON PAGES 2 through 19. (PAGE 20 TIES MAIN LOOPS TO MERCER CO. ENGINEERS B.M. #2)

STATE OF OHIO
WILLIAM K. BRUCE 7437 REGISTERED PROFESSIONAL SURVEYOR

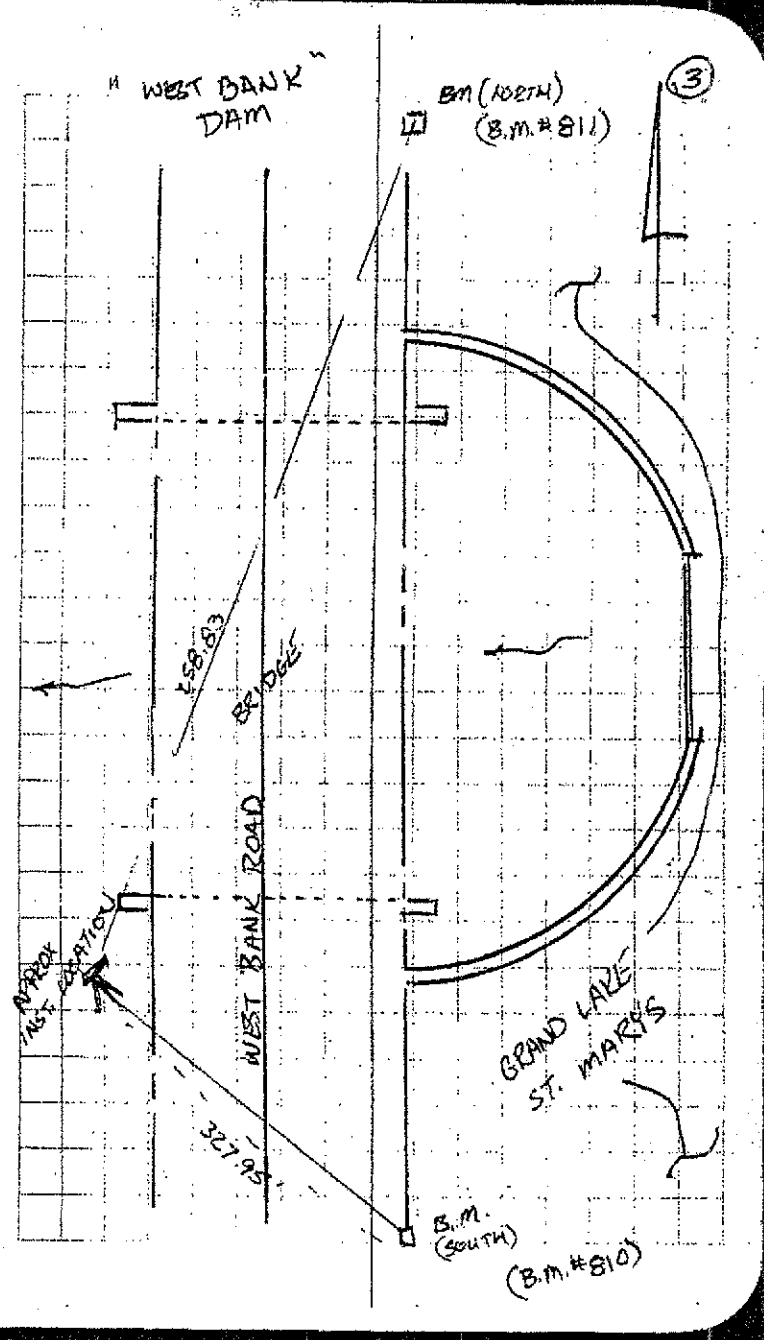
ORIGINAL STAMP IN GREEN

(2) 4314096
9/12/06 65°-OVERCAST, RAIN
KB-CW-DL

INSTRUMENT = ZEISS DINI 20

DESC	+	X	-	ELEV.	NOTE
B.M. CHISELED "□"	3.944	863.944		860.00	SOUTH
ASSUMED 860.00 (876.81) INFO OBTAINED 877.01 (4/15/06) #810					
B.M. CHISELED "□" (876.81) #811			4.164	859.78	NORTH
T/DAM @ SPILLWAY (NORTH)			9.460	854.484	
T/CONC. OF SPILLWAY (NORTH)			10.301	853.643	290.45'
T/DAM @ SPILLWAY (SOUTH)			9.464	854.48	
T/CONC. @ SPILLWAY (SOUTH)			10.327	853.617	273.56'
CHK IN @ SOUTH B.M.			3.942		

NOTE: BENCH LOOPS ARE BASED UPON ASSUMED ELEV.



(4) 4314096

KB-CW-DL 65°-OVERCAST/RAIN

9/12/06 LEVEL LOOP #1

(BEGIN ON WEST BAN X ROAD)

HEADING NORTH

DESC	+	x	-	ELEV.	NOTE
B.M. CHISELED	~~4.160~~ 4.610	~~864.368~~ 864.39		859.78	NORTH
T.P.#1	4.728	864.348	4.770	859.62	
T.P.#2	5.049	864.824	4.573	859.775	
T.P.#3	4.973	865.227	~~4.569~~ 4.570	860.254	
T.P.#4	4.266	864.499	4.994	860.233	
T.P.#5	4.853	864.464	4.888	859.611	
T.P.#4	4.800	865.035	4.229	860.235	
T.P.#3	4.555	864.811	4.779	860.256	
T.P.#2	4.480	~~855.297~~ 864.257	5.034	859.777	
T.P.#1	5.373	864.996	4.634	859.623	
CHK. IN @ B.M.			5.213	859.783	

.003 HIGH

60°-OVERCAST KB-CW-02

9/13/06 LOOP #2

(5)

DESC	+	x	-	ELEV.	NOTES
T.P.#5	3.577	863.188		859.611	
T.P.#6	5.508	861.325	7.371	855.817	
T.P.#7	5.499	861.713	5.111	856.214	
T.P.#8	6.186	863.415	4.484	857.229	
T.P.#9	5.109	861.424	7.100	856.315	
T.P.#10	7.355	864.587	4.242	857.182	
T.P.#11	7.005	864.414	7.128	857.409	
T.P.#12	1.702	864.237	1.879	862.535	
T.P.#11	8.199	865.606	6.630	857.407	
T.P.#10	4.420	861.604	8.422	857.184	
T.P.#9	7.888	864.204	5.288	856.316	
T.P.#8	~~4.660~~ 4.390	861.620	6.974	857.230	
T.P.#7	5.005	861.217	5.408	856.212	
T.P.#6	7.560	863.369	5.408	855.809	
T.P.#5			3.764	859.605	

(.004 LOW)

(6) 9/13/06 KB-CW-DW-RP

LOOP #3

DESC	+	π	−	ELEV.	NOTES
T.P.* 12	2.456	864.991		862.535	
TP# 13	5.804	864.398	6.397	858.594	
TP # 14	8.640	869.819	3.219	861.179	
T.P.#15	4.970	872.269	2.520	867.299	
T.P.#16	1.390	864.375	9.284	862.985	
T.P.#17	6.604	878.91 863.948	7.031	~~871.406~~	857.344
T.P.#18	6.286	866.428	3.806	~~874.104~~	860.142
T.P.#19	2.543	866.138	2.793	~~877.697~~	863.635
T.P.#20	9.849	872.931	3.096	~~877.144~~	863.082
T.P.#21	4.472	871.618	5.785	~~881.288~~	867.146
T.P.#22	6.407	876.538	6.487	~~879.193~~	865.131
T.P.#21	5.551	867.698	~~4.993~~	881.209	867.147
T.P.#20	2.998	866.979	4.391	~~877.143~~	863.081
T.P.#19	2.530	866.166	9.617	~~877.698~~	863.636
T.P.#18	3.581	867.723	2.443	~~874.804~~	860.142
T.P.#17	7.419	878.821 864.769	6.024	~~871.402~~	857.340
T.P.#16	9.267	872.249	6.383	~~877.044~~	862.982
T.P.#15	2.451	869.745	1.777	867.294	
T.P.#14	3.100	864.275	4.955	861.175	
T.P.#13	6.318	864.905	8.570	858.587	
T.P.#12			5.686	858.529	
			2.376	862.529	

.006 LOW

(7) 9/13/06 KB-CW-DW-RP

LOOP #4

DESC	+	π	−	ELEV.	NOTES
T.P.*22	4.337	869.468		865.131	
T.P.*23	4.199	867.52	6.147	863.321	
T.P.#24	9.867	873.454	3.983	863.587	
T.P.*25	5.714	876.695	2.473	876.981	
TP*26	5.259	875.766	6.188	870.507	
TP*27	7.608	881.468	~~5.259~~ 1.906	873.860	
T.P.*28	5.668	881.115	6.021	875.447	
TP#29	5.883	881.923	5.075	876.040	
T.P.*30	5.708	882.306	5.325	876.598	
TP*31	3.921	881.002	5.225	877.081	
T.P.*32	2.640	880.811	2.831	878.171	
T.P.*31	5.072	882.154	3.729	877.082	
T.P.*30	5.150	881.756	5.554	876.600	
TP*29	4.943	880.986	5.707	876.043	
T.P.*28	5.772	881.221	5.537	875.449	
TP*27	1.647	875.511	7.357	873.864	
T.P.*26	6.025	876.539	4.997	876.514	
TP*25	2.425	873.410	5.554	876.985	
TP*24	3.748	867.341	9.817	863.593	
TP*23	5.867	869.199	4.009	863.332	
TP*22			4.055	865.144	

.013 HIGH

(8) 9/14/06 75° P. SUNNY
KB-EW-DL
LOOP*5

DESC	+	x	-	ELEV.	NOTE
T.P.#32	7.590	885.761		878.171	
T.P.* 33	4.548	883.392	6.917	878.844	
T.P.*34	7.745	886.909	4.228	879.164	
T.P.#35	3.990	883.281	7.618	879.291	
T.P.*36	4.715	880.663	7.333	875.948	
T.P.*37	5.719	879.989	6.393	874.270	
T.P.*38	6.229	880.870	5.348	874.641	
T.P.#39	8.421	885.264	4.027	876.843	
T.P.*40	2.792	881.458	6.598	878.666	
T.P.#41	0.700	870.153	12.005	869.453	
T.P.*42	4.237	864.892	9.498	860.655	
T.P.*43	9.601	869.304	5.189	859.703	
T.P.*44	0.445	869.429	0.320	868.984	
T.P.*43	5.171	864.880	9.720	859.709	
T.P.*42	9.386	870.047	4.219	860.661	
T.P.*41	12.004	881.464	0.587	869.460	
T.P.*40	6.571	885.245	2.790	868674	
T.P.*39	4.048	880.900	8.393	876852	
T.P.*38	5.430	880.081	6.249	874.651	
T.P.*37	6.482	880.765	5.798	874.283	
T.P.*36	7.298	883.258	4.805	875.960	
T.P.*35	3.771	887.076	3.953	879.305	
T.P.*34	4.328	883.506	7.898	879.178	

(9)

DESC	+	x	-	ELEV.	NOTES
T.P.*33	7.009	885.867	4.648	878.858	
T.P.*32			7.682	878.185	
		0.014 HIGH			

(10)

KB-CW-DL DUBBCAST-75'

9/14/06

LOOP #6

DESC.	+	∡	−	ELEV.	NOTE
T.P.#44	9,328	878.312		868.984	
T.P.#45	7,429	882.023	3,718	874.594	
T.P.#46	7,856	885.961	3,918	878.105	
T.P.#47	2,971	884.371	4,561	881.400	TURN SHORT
T.P.#48	0,518	875.520	9,369	875.002	TURN SHORT
T.P.#49	0,427	866.543	9,354	866.166	SHORT
TP#50	6,214	865.314	7,493	859.100	
T.P.#51	~~7,698~~ 7,968	869.995	3,327	861.987	
T.P.#52	9,695	876.775	2,875	867.080	
T.P.#53	7,582	883.090	1,267	875.508	
T.P.#54	1,217	878.688	5,419	877.471	
T.P.#55	2,295	871.696	9,488	869.400	
T.P.#56	4,806	868.650	7,851	863.844	
T.P.#57	~~2,989~~ 8,908	872.246	5,312	863.338	
T.P.#58	2,792	872.190	~~2,965~~ 2,848	869.398	
T.P.#57	5,192	868.532	8,850	863.340	
T.P.#56	7,585	871.427	4,690	863.842	
TP#55	9,242	878.638	2,031	869.396	
T.P.#54	5,284	882.950	0,972	877.666	
T.P.#53	1,277	876.779	7,448	875.502	
T.P.#52	2,712	869.791	9,700	867.079	
T.P.#51	3,175	865.159	7,807	861.984	
T.P.#50	7,387	866.488	6,058	859.101	

(11)

DESC	+	∡	−	ELEV.	NOTES
T.P.#49	9,226	875.396	0,318	866.170	
T.P.#48	9,153	884.162	0,387	875.609	
T.P.#47	4,514	885.922	2,754	881.408	
T.P.#46	3,921	882.629	7,814	878.108	
T.P.#45	3,954	878.503	7,430	874.599	
T.P.#44			9,560	868.993	
			0.009 HIGH		

(12)

KB-MS-DL

9/16/06 70° - FOGGY

LOOP #7

DESC	+	T	-	ELEV	NOTES
TP#58	5.553	874.951		869.398	
TP#59	5.403	874.421	5.933	869.018	
TP#60	5.971	876.997	3.395	871.026	
TP#61	4.459	872.194	9.262	867.735	
T.P.#62	8.930	877.521	3.503	868.691	
T.P.#63	9.458	885.797	1.182	876.339	
T.P.#64	5.095	887.298	3.594	882.203	
T.P.#65	2.707	882.708	7.297	880.001	AUGUSTA MERCER CO LINE
T.P.#66	3.023	877.427	8.304	874.404	
T.P.#67	7.743	880.306	4.864	872.563	
T.P.#68	5.562	882.431	3.437	876.869	
T.P.#69	7.692	882.384	7.739	874.692	
T.P.#68	3.382	880.25	5.516	876.868	
T.P.#67	4.715	877.279	7.686	872.564	
T.P.#66	8.251	882.655	2.875	874.404	
T.P.#65	7.180	887.182	2.653	880.002	
T.P.#64	3.639	885.845	4.976	882.206	
T.P.#63	1.194	877.537	9.502	876.343	
T.P.#62	3.501	872.197	8.841	868.696	
T.P.#61	9.316	877.056	4.456	867.741	
T.P.#60	3.316	874.349	6.024	871.033	
T.P.#59	5.904	874.929	5.324	869.025	
T.P.#58			5.525	869.404	

(.006 HIGH)

9/16/06 75° FORECAST

LOOP #8

(13)

DESC	+	T	-	ELEV.	NOTES
~~874.692~~					
T.P.#69	6.867	881.559		874.692	
T.P.#70	6.336	883.394	3.501	876.058	
T.P.#71	3.832 ~~3.387~~	884.125	3.101	880.293	
T.P.#72	4.037	878.504	9.658	874.467	
T.P.#73	1.337	873.174	6.667	871.837	ENTRANCE DRIVE TO STATE PARK
T.P.#74	4.826	868.283	9.717	863.457	
T.P.#75	9.565	872.978	4.870	863.413	
T.P.#76	5.233	875.296	2.915	870.063	
TP#77	7.348	879.314	3.330	871.966	
T.P.#78	6.846	878.055	8.105	871.209	
T.P.#79	1.443	878.004	1.494	876.561	
T.P.#78	8.115	879.326	6.793	871.211	
T.P.#77	3.250	875.221	7.355	871.971	
T.P.#76	2.732	872.804	5.149	870.072	
T.P.#75	4.797	868.214	9.387	863.417	
T.P.#74	9.686	873.146	4.754	863.46	
TP#73	6.745	875.583	1.308	871.838	
TP#72	9.594	884.061	4.116	874.467	
TP#71	3.071	883.361	3.771	880.290	
TP#70	3.580	881.633	5.308	878.053	
TP#69			6.949	874.684	
		(.008 LOW)			

(14)

9/14/06 75° SUNNY
KB - MS - DL
LOOP #9

DESC	+	I	-	ELEV	NOTES
T.P. 79	7.986	884.547		876.561	
T.P. 80	4.604	886.82	2.331	882.216	ON R.R.
T.P.*81	4.024	884.21	6.634	880.186	
T.P.*82	3.516	879.775	7.951	876.259	
T.P.*83	3.568	875.45	7.893	871.882	
T.P.*84	3.540	~~870.764~~ ~~871.647~~ 869.118	8.226	~~867.224~~ ~~867.557~~ 863.66	RR
T.P.*85	5.458	~~868.454~~	7.104	~~863.996~~	
T.P.*86	4.683	868.091	5.710	863.408	
T.P.*87	4.781	866.554	6.318	861.773	
T.P.*88	4.305	864.669	6.190	860.364	
T.P.*89	5.207	864.609	5.267	859.402	
T.P.*88	6.294	866.650	4.253	860.356	
T.P.*87	6.062	867.831	4.881	861.769	
T.P.*86	5.625	869.034	4.422	863.409	
T.P.*85	7.007	870.670	5.371	863.663	
T.P.*84	8.225	875.460	3.435	867.235	
T.P.*83	7.821	879.717	3.564	871.896	
T.P.*82	7.944	884.222 ~~886.747~~	3.439	876.278	
T.P.*81	6.539	~~886.667~~ ~~884.596~~	4.014	880.~~448~~	
T.P.*80	2.329	~~884.596~~	4.510	882.237	
T.P.*79			7.988	~~868.500~~ 876.578	

(0.017 HIGH)

(15)

(16) 9-17-06 65° SUNNY

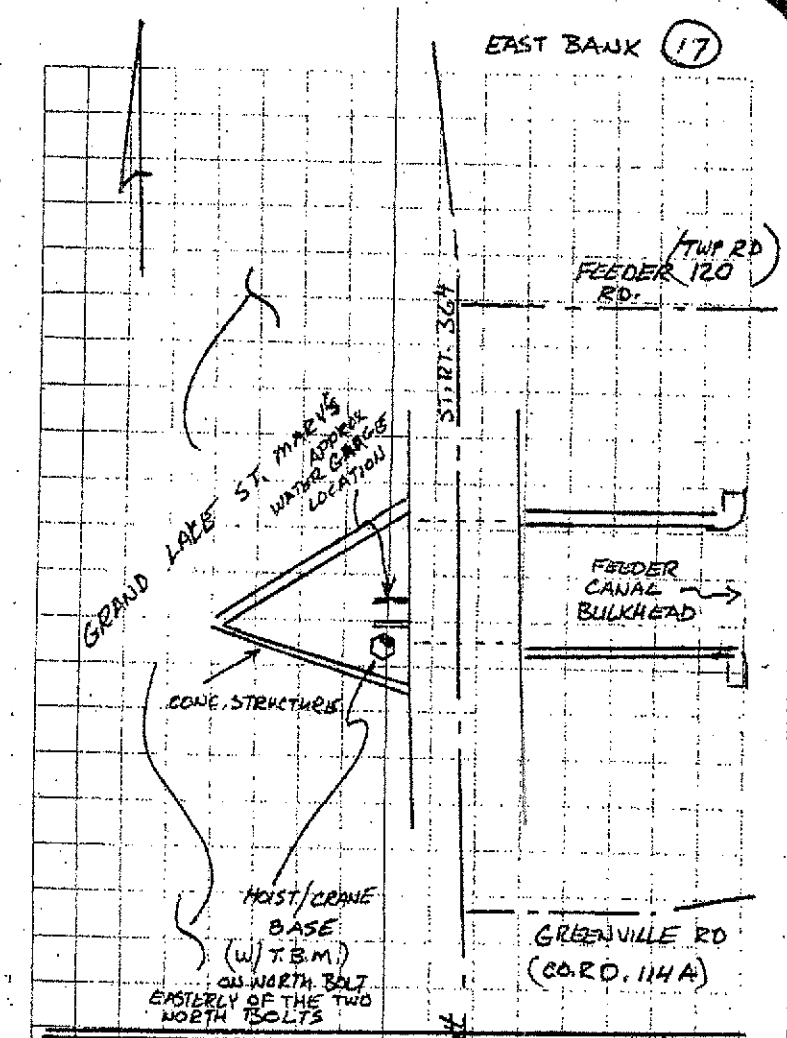
KB-CW-DL

LOOP #10

DESC	+	↗	−	ELEV	NOTES
T.P. #89	4.839	864.241		859.402	
T.P. #90	5.083	864.284	5.040	859.201	
T.P. #91	5.400	864.618	5.066	859.218	
T.P. #92	5.586	865.163	5.041	859.577	
T.P. #93	5.649	865.370	5.442	859.721	
T.P. #94	5.580	865.948	5.002	860.368	
T.P. #95	4.864	866.102	4.710	861.238	
T.P. #96	5.471	866.749	4.824	861.278	
T.P. #97	4.761	866.706	4.804	861.945	
T.B.M. #1 — BOLT ON CRANE HOIST @ GAUGE AREA @ EAST BANK (CHISELED "+" ON BOLT)	5.162	866.771	5.097	861.609	
T.P. #97	4.827	866.77	4.828	861.943	
T.P. #96	5.108	866.383	5.495	861.275	
T.P. #95	4.789	866.023	5.149	861.234	
T.P. #94	4.874	865.237	5.660	860.363	
T.P. #93	5.429	865.147	5.519	859.718	
T.P. #92	5.074	864.647	5.574	859.573	
T.P. #91	4.944	864.156	5.435	859.212	
T.P. #90	4.837	864.032	4.961	859.195	
T.P. #89			4.635	859.397	

(0.005 LOW)

EAST BANK (17)



DESC	+	↗	−	ELEV	NOTES
T.B.M. #1	5.110	866.719		861.609	
TOP/3' WATER MARK	10.304	866.611	10.414	856.305	
T.B.M. #			4.999	861.618	

(0.008 HIGH)

(18) KB-CW-DL 9/17/06 70°-SUNNY

LOOP #11

FROM STATE PARK MAINT. TO WATER GAUGE

DESC	+	⊼	−	ELEV.	NOTE
T.P.#73	4.093	875.93		871.837	
T.P.#98	0.302	~~875.509~~ 869.509		0.723	869.207
T.P.#99	3.192	866.314		6.387	863.122
T.P.#100	5.657	862.965		9.006	857.308
T.B.M.#2	4.395	863.138		4.222	858.743
MAG NAIL SET IN WEST SIDE OF LIGHT POLE IN CENTER OF STATE PARK MAINTENANCE FACILITY PARKING LOT (APPROX 1.0' ABOVE PAVEMENT ELEV.)					
T.P.#101	5.373	862.037		6.474	856.664
TOP/2' WATER GAUGE *	5.941	861.895		6.083	855.954
T.P.#101	6.266	862.925		5.231	856.664
T.P.#100	8.586	866.094		5.417	857.508
T.P.#99	7.340	870.862		2.772	863.322
T.P.#98	6.523	875.93		1.255	869.407
T.P.#73				3.897	872.033

* NOTE: 2' WATER GAUGE HANGS ON A CHAIN, INSIDE STATE PARK MAINT. FACILITY BOAT HOUSE

LOOP #11-B 80°-SUNNY (19)

DESC.	+	⊼	−	ELEV.	NOTE
T.P.#73	3.987	875.824		871.837	
T.P.#98	1.272	870.483	6.613	869.211	
T.P.#99	2.669	865.796	7.356	863.127	
T.P.#100	5.124	862.437	8.483	857.313	
T.P.#101	5.896	862.367	5.966	856.471	←
T.B.M.#2			3.819	858.548	
T.P.#100	8.545	865.86	5.052	857.315	
T.P.#99	7.411	870.54	2.731	863.129	
T.P.#98	6.432	875.647	1.325	869.215	
T.P.#73			3.893	871.844	
		(+.007)			
T.P.#100	5.373	861.844		856.471	
T/WATER GAUGE	5.941	861.702	6.083	855.761	
T.P.#101			5.231	856.471	

(20) KB-CW-DL 9-18-06

65° - OVERCAST/RAIN

LOOP #12

TIE-IN MAIN LOOP TO MERCER CO.

ENGINEER'S B.M.#2 (DATED 7-17-03)

(B.M.#2 FROM BEAVER CREEK PLANS - 1977 - MERCER CO. ENG. OFFICE. "O" CUT IN S.E. WING OF US 127 BRIDGE STA 745)

DESC.	+	∠	−	ELEV.	NOTE
B.M.#2	5.510	866.23		860.72	
T.P.#102	11.409	874.728	2.911	863.319	
TP#103	7.575	881.76	0.543	874.185	
CHISELED "□" IN CURB ON WEST BANK RD (B.M.#810)					
INT/CURB, 382'± SOUTH OF SOUTH END BRIDGE @ DAM					
	4.689	881.692	4.757	877.003	
T.P.#103	0.571	874.756	7.507	874.185	
T.P.#102	~~3.079~~ 3.081	866.400	11.437	863.319	
B.M.#2			5.676	860.724	

(.004 HIGH)

NOTE:
MERCER CO. ENG. OFFICE
REF. ELEV. = 877.01 ✓

PROJECT Determine Elevation of DATE 8-18-03

TASK 2 new bench marks as described based on BM #2 from Beaver Creek plans - 1977

Desc./Loca.	BS	HI	FS	Elev.
BM #2 from Beaver Creek plans - 1977 "O" cut in SE wing of US-127 bridge over Beaver Creek - Sta. 7+50.	3.88	864.60		860.72
TP	6.72	864.65	6.67	857.93
TP	14.18	877.94	0.89	863.76
TP (Bolt)	3.49	881.00	0.43	877.51
BM #810 - "□" Square chiseled in top of concrete seawall of catch basin located ~382' south of south end of West Bank Rd. bridge over Beaver Creek at spillway			3.99	877.01
TP (Bolt)	5.24	882.75		877.51
BM #811 - "□ Square Saw cut in top of Concrete Seawall at catch basin located ± 116' north of north end of West Bank Rd. bridge over Beaver Creek at spillway			5.94	876.81

BM #810 - Elev. = 877.01
BM #811 - Elev. = 876.81

NAD 29

APPENDIX B

LAKE ELEVATION DATA
(Referenced in the text on page 3)

Date	CDNS Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/01/27	NA	NA	871.44
04/02/27	NA	NA	871.48
04/03/27	NA	NA	871.64
04/04/27	NA	NA	871.64
04/05/27	NA	NA	871.64
04/06/27	NA	NA	871.64
04/07/27	NA	NA	871.60
04/08/27	NA	NA	871.56
04/09/27	NA	NA	871.56
04/10/27	NA	NA	871.56
04/11/27	NA	NA	871.56
04/12/27	NA	NA	871.56
04/13/27	NA	NA	871.52
04/14/27	NA	NA	871.48
04/15/27	NA	NA	871.44
04/16/27	NA	NA	871.39
04/17/27	NA	NA	871.39
04/18/27	NA	NA	871.39
04/19/27	NA	NA	871.39
04/20/27	NA	NA	871.39
04/21/27	NA	NA	871.39
04/22/27	NA	NA	871.38
04/23/27	NA	NA	871.36
04/24/27	NA	NA	871.33
04/25/27	NA	NA	871.31
04/26/27	NA	NA	871.31
04/27/27	NA	NA	871.27
04/28/27	NA	NA	871.23
04/29/27	NA	NA	871.21
04/30/27	NA	NA	871.21
05/01/27	NA	NA	871.23
05/02/27	NA	NA	871.23
05/03/27	NA	NA	871.34
05/04/27	NA	NA	871.34
05/05/27	NA	NA	871.34
05/06/27	NA	NA	871.06
05/07/27	NA	NA	870.91
05/08/27	NA	NA	870.88
05/09/27	NA	NA	870.84
05/10/27	NA	NA	870.88
05/11/27	NA	NA	870.85
05/12/27	NA	NA	870.81
05/13/27	NA	NA	870.77
05/14/27	NA	NA	870.73
05/15/27	NA	NA	870.64
05/16/27	NA	NA	870.56
05/17/27	NA	NA	870.52
05/18/27	NA	NA	870.48
05/19/27	NA	NA	870.56
05/20/27	NA	NA	870.56
05/21/27	NA	NA	871.27
05/22/27	NA	NA	871.23
05/23/27	NA	NA	871.19
05/24/27	NA	NA	871.14
05/25/27	NA	NA	871.10
05/26/27	NA	NA	871.06
05/27/27	NA	NA	871.03
05/28/27	NA	NA	870.98
05/29/27	NA	NA	870.94
05/30/27	NA	NA	870.89
05/31/27	NA	NA	870.85
06/01/27	NA	NA	870.81
06/02/27	NA	NA	870.77
06/03/27	NA	NA	870.73
06/04/27	NA	NA	870.69
06/05/27	NA	NA	870.64
06/06/27	NA	NA	870.60
06/07/27	NA	NA	870.56
06/08/27	NA	NA	870.52
06/09/27	NA	NA	870.48
06/10/27	NA	NA	870.44
06/11/27	NA	NA	870.39
06/12/27	NA	NA	870.35
06/13/27	NA	NA	870.31
06/14/27	NA	NA	870.27
06/15/27	NA	NA	870.23
06/16/27	NA	NA	870.18
06/17/27	NA	NA	870.14
06/18/27	NA	NA	870.02
06/19/27	NA	NA	869.94
06/20/27	NA	NA	869.89
06/21/27	NA	NA	869.85
06/22/27	NA	NA	869.81
06/23/27	NA	NA	869.77
06/24/27	NA	NA	869.73
06/25/27	NA	NA	869.69
06/26/27	NA	NA	869.64
06/27/27	NA	NA	869.60
06/28/27	NA	NA	869.56
06/29/27	NA	NA	869.52
06/30/27	NA	NA	869.48
07/01/27	NA	NA	869.44
07/02/27	NA	NA	869.39
07/03/27	NA	NA	869.35
07/04/27	NA	NA	869.31
07/05/27	NA	NA	869.27
07/06/27	NA	NA	869.23
07/07/27	NA	NA	869.19
07/08/27	NA	NA	869.14
07/09/27	NA	NA	869.10
07/10/27	NA	NA	869.06
07/11/27	NA	NA	869.02
07/12/27	NA	NA	868.98
07/13/27	NA	NA	868.93
07/14/27	NA	NA	868.89
07/15/27	NA	NA	868.85
07/16/27	NA	NA	868.81
07/17/27	NA	NA	868.77
07/18/27	NA	NA	868.73
07/19/27	NA	NA	868.69
07/20/27	NA	NA	868.64
07/21/27	NA	NA	868.60
07/22/27	NA	NA	868.56
07/23/27	NA	NA	868.52
07/24/27	NA	NA	868.48
07/25/27	NA	NA	868.44
07/26/27	NA	NA	868.39
07/27/27	NA	NA	868.35
07/28/27	NA	NA	868.31
07/29/27	NA	NA	868.27
07/30/27	NA	NA	868.23
07/31/27	NA	NA	868.19
08/01/27	NA	NA	868.19
08/02/27	NA	NA	868.19
08/03/27	NA	NA	868.19
08/04/27	NA	NA	868.19
08/05/27	NA	NA	868.14
08/06/27	NA	NA	868.14
08/07/27	NA	NA	868.10
08/08/27	NA	NA	868.10
08/09/27	NA	NA	868.06
08/10/27	NA	NA	868.02
08/11/27	NA	NA	867.98
08/12/27	NA	NA	867.94
08/13/27	NA	NA	867.89
08/14/27	NA	NA	867.85
08/15/27	NA	NA	867.81
08/16/27	NA	NA	867.77
08/17/27	NA	NA	867.73
08/18/27	NA	NA	867.69
08/19/27	NA	NA	867.64
08/20/27	NA	NA	867.60
08/21/27	NA	NA	867.56
08/22/27	NA	NA	867.52
08/23/27	NA	NA	867.48
08/24/27	NA	NA	867.44
08/25/27	NA	NA	867.40
08/26/27	NA	NA	867.35
08/27/27	NA	NA	867.31
08/28/27	NA	NA	867.27
08/29/27	NA	NA	867.23
08/30/27	NA	NA	867.19
08/31/27	NA	NA	867.15
09/01/27	NA	NA	867.10
09/02/27	NA	NA	867.06
09/03/27	NA	NA	867.02
09/04/27	NA	NA	866.98
09/05/27	NA	NA	866.94
09/06/27	NA	NA	866.89
09/07/27	NA	NA	866.85
09/08/27	NA	NA	866.81
09/09/27	NA	NA	866.77
09/10/27	NA	NA	866.73
09/11/27	NA	NA	866.69
09/12/27	NA	NA	866.64
09/13/27	NA	NA	866.60
09/14/27	NA	NA	866.56
09/15/27	NA	NA	866.52
09/16/27	NA	NA	866.48
09/17/27	NA	NA	866.44
09/18/27	NA	NA	866.40
09/19/27	NA	NA	866.35
09/20/27	NA	NA	866.31
09/21/27	NA	NA	866.27
09/22/27	NA	NA	866.23
09/23/27	NA	NA	866.19
09/24/27	NA	NA	866.15
09/25/27	NA	NA	866.10
09/26/27	NA	NA	866.06
09/27/27	NA	NA	866.02
09/28/27	NA	NA	865.98
09/29/27	NA	NA	865.94
09/30/27	NA	NA	865.90
10/01/27	NA	NA	865.85
10/02/27	NA	NA	865.81
10/03/27	NA	NA	865.77
10/04/27	NA	NA	865.73
10/05/27	NA	NA	865.69

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	DDR/R Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/11/28	NA	NA	666.56
04/12/28	NA	NA	663.54
04/13/28	NA	NA	661.60
04/14/28	NA	NA	660.56
04/15/28	NA	NA	664.87
04/16/28	NA	NA	663.92
04/17/28	NA	NA	662.46
04/18/28	NA	NA	660.48
04/19/28	NA	NA	660.48
04/20/28	NA	NA	666.52
04/21/28	NA	NA	665.64
04/22/25	NA	NA	666.73
04/23/25	NA	NA	665.81
04/24/25	NA	NA	662.51
04/25/25	NA	NA	666.61
04/26/25	NA	NA	669.61
04/27/25	NA	NA	666.77
04/28/25	NA	NA	666.77
04/29/25	NA	NA	669.77
04/30/25	NA	NA	663.77
05/01/25	NA	NA	665.73
05/02/25	NA	NA	662.73
05/03/25	NA	NA	664.73
05/04/25	NA	NA	664.73
05/05/25	NA	NA	669.60
05/06/25	NA	NA	669.84
05/07/25	NA	NA	669.84
05/08/25	NA	NA	669.84
05/09/25	NA	NA	669.84
05/10/25	NA	NA	669.84
05/11/25	NA	NA	669.50
05/12/25	NA	NA	668.65
05/13/25	NA	NA	668.65
05/14/25	NA	NA	668.56
05/15/25	NA	NA	668.56
05/16/25	NA	NA	668.56
05/17/25	NA	NA	668.52
05/18/25	NA	NA	668.52
05/19/25	NA	NA	668.52
05/20/25	NA	NA	668.48
05/21/25	NA	NA	668.48
05/22/25	NA	NA	668.48
05/23/25	NA	NA	668.48
05/24/25	NA	NA	668.48
05/25/25	NA	NA	668.48
05/26/25	NA	NA	669.48
05/27/25	NA	NA	668.48
05/28/25	NA	NA	668.48
05/29/25	NA	NA	668.48
05/30/25	NA	NA	668.52
05/31/25	NA	NA	668.52
06/01/25	NA	NA	668.52
06/02/25	NA	NA	668.52
06/03/25	NA	NA	668.52
06/04/25	NA	NA	668.56
06/05/25	NA	NA	668.56
06/06/25	NA	NA	668.60
06/07/25	NA	NA	668.64
06/08/25	NA	NA	668.69
06/09/25	NA	NA	668.81
06/10/25	NA	NA	668.81
06/11/25	NA	NA	668.81
06/12/25	NA	NA	668.77
06/13/25	NA	NA	668.77
06/14/25	NA	NA	668.77
06/15/25	NA	NA	663.71
06/16/25	NA	NA	668.61
06/17/25	NA	NA	668.61
06/18/25	NA	NA	668.61
06/19/25	NA	NA	668.61
06/20/25	NA	NA	668.55
06/21/25	NA	NA	668.65
06/22/25	NA	NA	668.65
06/23/25	NA	NA	668.65
06/24/25	NA	NA	668.59
06/25/25	NA	NA	668.69
06/26/25	NA	NA	668.65
06/27/25	NA	NA	668.63
06/28/25	NA	NA	668.63
06/29/25	NA	NA	668.63
06/30/25	NA	NA	668.63
07/01/25	NA	NA	668.63
07/02/25	NA	NA	668.94
07/03/25	NA	NA	668.94
07/04/25	NA	NA	668.94
07/05/25	NA	NA	668.94
07/06/25	NA	NA	668.94
07/07/25	NA	NA	668.94
07/08/25	NA	NA	668.86
07/09/25	NA	NA	668.89
07/10/25	NA	NA	668.89
07/11/25	NA	NA	668.85
07/12/25	NA	NA	668.85
07/13/25	NA	NA	668.69
07/14/25	NA	NA	669.98
07/15/25	NA	NA	669.98
07/16/25	NA	NA	670.02
07/17/25	NA	NA	670.02
07/18/25	NA	NA	670.02
07/19/25	NA	NA	670.02
07/20/25	NA	NA	670.02
07/21/25	NA	NA	670.02
07/22/25	NA	NA	670.06
07/23/25	NA	NA	670.06
07/24/25	NA	NA	670.06
07/25/25	NA	NA	670.02
07/26/25	NA	NA	670.02
07/27/25	NA	NA	668.98
07/28/25	NA	NA	668.94
07/29/25	NA	NA	668.85
07/30/25	NA	NA	668.81
07/31/25	NA	NA	667.77
08/01/25	NA	NA	668.77
08/02/25	NA	NA	668.77
08/03/25	NA	NA	668.77
08/04/25	NA	NA	667.73
08/05/25	NA	NA	668.73
08/06/25	NA	NA	668.69
08/07/25	NA	NA	668.69
08/08/25	NA	NA	668.84
08/09/25	NA	NA	668.80
08/10/25	NA	NA	668.59
08/11/25	NA	NA	668.52
08/12/25	NA	NA	668.48
08/13/25	NA	NA	668.44
08/14/25	NA	NA	668.44
08/15/25	NA	NA	667.39
08/16/25	NA	NA	668.30
08/17/25	NA	NA	668.35
08/18/25	NA	NA	668.35
08/19/25	NA	NA	668.30
08/20/25	NA	NA	668.31
08/21/25	NA	NA	668.27
08/22/25	NA	NA	668.23
08/23/25	NA	NA	668.19
08/24/25	NA	NA	668.19
08/25/25	NA	NA	668.10
08/26/25	NA	NA	668.10
08/27/25	NA	NA	668.06
08/28/25	NA	NA	668.06
08/29/25	NA	NA	668.06
08/30/25	NA	NA	668.02
08/31/25	NA	NA	668.02
09/01/25	NA	NA	668.58
09/02/25	NA	NA	668.94
09/03/25	NA	NA	668.94
09/04/25	NA	NA	668.90
09/05/25	NA	NA	668.90
09/06/25	NA	NA	668.85
09/07/25	NA	NA	668.85
09/08/25	NA	NA	668.81
09/09/25	NA	NA	668.77
09/10/25	NA	NA	668.77
09/11/25	NA	NA	668.73
09/12/25	NA	NA	668.73
09/13/25	NA	NA	668.69
09/14/25	NA	NA	668.69
09/15/25	NA	NA	668.64
09/16/25	NA	NA	668.64
09/17/25	NA	NA	668.64
09/18/25	NA	NA	668.60
09/19/25	NA	NA	668.60
09/20/25	NA	NA	668.56
09/21/25	NA	NA	668.56
09/22/25	NA	NA	668.52
09/23/25	NA	NA	668.52
09/24/25	NA	NA	668.48
09/25/25	NA	NA	668.48
09/26/25	NA	NA	668.44
09/27/25	NA	NA	668.44
09/28/25	NA	NA	668.44
09/29/25	NA	NA	668.39
09/30/25	NA	NA	668.39
10/01/25	NA	NA	668.39
10/02/25	NA	NA	668.35
10/03/25	NA	NA	668.35
10/04/25	NA	NA	668.35
10/05/25	NA	NA	668.35
10/06/25	NA	NA	668.31
10/07/25	NA	NA	668.31
10/08/25	NA	NA	668.31
10/09/25	NA	NA	668.27
10/10/25	NA	NA	668.27
10/11/25	NA	NA	668.27
10/12/25	NA	NA	668.23
10/13/25	NA	NA	668.23
10/14/25	NA	NA	668.23
10/15/25	NA	NA	668.23

EB = East Basin
WB = West Basin
Bot = Beachcomber
NA = Not Available

Date	GDWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/22/28	NA	NA	869.85
04/23/28	NA	NA	869.89
04/24/28	NA	NA	869.89
04/25/28	NA	NA	869.89
04/26/28	NA	NA	869.89
04/27/28	NA	NA	869.89
04/28/28	NA	NA	869.89
04/29/28	NA	NA	869.89
04/30/28	NA	NA	869.89
05/01/28	NA	NA	869.89
05/02/28	NA	NA	869.89
05/03/28	NA	NA	869.94
05/04/28	NA	NA	869.94
05/05/28	NA	NA	869.98
05/06/28	NA	NA	869.98
05/07/28	NA	NA	870.02
05/08/28	NA	NA	870.02
05/09/28	NA	NA	870.02
05/10/28	NA	NA	870.02
05/11/28	NA	NA	869.98
05/12/28	NA	NA	869.98
05/13/28	NA	NA	870.02
05/14/28	NA	NA	870.06
05/15/28	NA	NA	870.14
05/16/28	NA	NA	870.19
05/17/28	NA	NA	870.23
05/18/28	NA	NA	870.31
05/19/28	NA	NA	870.31
05/20/28	NA	NA	870.31
05/21/28	NA	NA	870.35
05/22/28	NA	NA	870.31
05/23/28	NA	NA	870.31
05/24/28	NA	NA	870.31
05/25/28	NA	NA	870.31
05/26/28	NA	NA	870.31
05/27/28	NA	NA	870.27
05/28/28	NA	NA	870.27
05/29/28	NA	NA	870.23
05/30/28	NA	NA	870.23
05/31/28	NA	NA	870.23
06/01/28	NA	NA	870.19
06/02/28	NA	NA	870.19
06/03/28	NA	NA	870.19
06/04/28	NA	NA	870.14
06/05/28	NA	NA	870.10
06/06/28	NA	NA	870.10
06/07/28	NA	NA	870.06
06/08/28	NA	NA	870.02
06/09/28	NA	NA	870.02
06/10/28	NA	NA	870.02
06/11/28	NA	NA	870.06
06/12/28	NA	NA	870.06
06/13/28	NA	NA	870.06
06/14/28	NA	NA	870.10
06/15/28	NA	NA	870.10
06/16/28	NA	NA	870.10
06/17/28	NA	NA	870.10
06/18/28	NA	NA	870.10
06/19/28	NA	NA	870.06
06/20/28	NA	NA	870.06
06/21/28	NA	NA	870.02
06/22/28	NA	NA	870.02
06/23/28	NA	NA	870.02
06/24/28	NA	NA	869.98
06/25/28	NA	NA	869.98
06/26/28	NA	NA	873.02
06/27/28	NA	NA	873.02
06/28/28	NA	NA	873.02
06/29/28	NA	NA	873.02
06/30/28	NA	NA	873.06
07/01/28	NA	NA	873.06
07/02/28	NA	NA	873.06
07/03/28	NA	NA	873.06
07/04/28	NA	NA	873.06
07/05/28	NA	NA	873.06
07/06/28	NA	NA	873.14
07/07/28	NA	NA	873.23
07/08/28	NA	NA	873.31
07/09/28	NA	NA	873.27
07/10/28	NA	NA	873.27
07/11/28	NA	NA	873.23
07/12/28	NA	NA	873.23
07/13/28	NA	NA	873.19
07/14/28	NA	NA	873.19
07/15/28	NA	NA	873.14
07/16/28	NA	NA	873.14
07/17/28	NA	NA	873.10
07/18/28	NA	NA	873.10
07/19/28	NA	NA	873.06
07/20/28	NA	NA	873.02
07/21/28	NA	NA	869.98
07/22/28	NA	NA	869.94
07/23/28	NA	NA	869.94
07/24/28	NA	NA	869.90
07/25/28	NA	NA	869.86
07/26/28	NA	NA	869.86
07/27/28	NA	NA	869.86
07/28/28	NA	NA	869.81
07/29/28	NA	NA	869.73
07/30/28	NA	NA	869.69
07/31/28	NA	NA	869.69
08/01/28	NA	NA	869.69
08/02/28	NA	NA	869.69
08/03/28	NA	NA	869.69
08/04/28	NA	NA	869.69
08/05/28	NA	NA	869.69
08/06/28	NA	NA	869.69
08/07/28	NA	NA	869.69
08/08/28	NA	NA	869.64
08/09/28	NA	NA	869.64
08/10/28	NA	NA	869.60
08/11/28	NA	NA	869.60
08/12/28	NA	NA	869.60
08/13/28	NA	NA	869.73
08/14/28	NA	NA	869.73
08/15/28	NA	NA	869.77
08/16/28	NA	NA	869.81
08/17/28	NA	NA	869.81
08/18/28	NA	NA	869.81
08/19/28	NA	NA	869.77
08/20/28	NA	NA	869.77
08/21/28	NA	NA	869.73
08/22/28	NA	NA	869.73
08/23/28	NA	NA	869.69
08/24/28	NA	NA	869.69
08/25/28	NA	NA	869.64
08/26/28	NA	NA	869.60
08/27/28	NA	NA	869.56
08/28/28	NA	NA	869.53
08/29/28	NA	NA	869.49
08/30/28	NA	NA	869.44
08/31/28	NA	NA	869.39
09/01/28	NA	NA	869.39
09/02/28	NA	NA	869.35
09/03/28	NA	NA	869.35
09/04/28	NA	NA	869.31
09/05/28	NA	NA	869.31
09/06/28	NA	NA	869.31
09/07/28	NA	NA	869.27
09/08/28	NA	NA	869.27
09/09/28	NA	NA	869.23
09/10/28	NA	NA	869.19
09/11/28	NA	NA	869.19
09/12/28	NA	NA	869.14
09/13/28	NA	NA	869.14
09/14/28	NA	NA	869.10
09/15/28	NA	NA	869.10
09/16/28	NA	NA	869.06
09/17/28	NA	NA	869.06
09/18/28	NA	NA	869.06
09/19/28	NA	NA	869.02
09/20/28	NA	NA	869.02
09/21/28	NA	NA	869.02
09/22/28	NA	NA	868.98
09/23/28	NA	NA	868.94
09/24/28	NA	NA	868.94
09/25/28	NA	NA	868.94
09/26/28	NA	NA	868.94
09/27/28	NA	NA	868.94
09/28/28	NA	NA	868.94
09/29/28	NA	NA	868.90
09/30/28	NA	NA	868.86
10/01/28	NA	NA	868.86
10/02/28	NA	NA	868.81
10/03/28	NA	NA	868.81
10/04/28	NA	NA	868.77
10/05/28	NA	NA	868.77
10/06/28	NA	NA	868.73
10/07/28	NA	NA	868.73
10/08/28	NA	NA	868.69
10/09/28	NA	NA	868.69
10/10/28	NA	NA	868.64
10/11/28	NA	NA	868.64
10/12/28	NA	NA	868.64
10/13/28	NA	NA	868.60
10/14/28	NA	NA	868.60
10/15/28	NA	NA	868.60
10/16/28	NA	NA	868.56
10/17/28	NA	NA	868.56
10/18/28	NA	NA	868.56
10/19/28	NA	NA	868.56
10/20/28	NA	NA	868.52
10/21/28	NA	NA	868.52
10/22/28	NA	NA	868.56
10/23/28	NA	NA	868.56
10/24/28	NA	NA	868.56
10/25/28	NA	NA	868.73

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	GGNR Measurement [inches]	Measurement Location	Lake Elevation (feet msl)
05/03/30	NA	NA	865.73
05/04/30	NA	NA	863.73
05/05/30	NA	NA	863.73
05/06/30	NA	NA	863.73
05/07/30	NA	NA	863.68
05/08/30	NA	NA	865.68
05/09/30	NA	NA	865.58
05/10/30	NA	NA	863.64
05/11/30	NA	NA	863.64
05/12/30	NA	NA	863.62
05/13/30	NA	NA	863.60
05/14/30	NA	NA	863.58
05/15/30	NA	NA	863.58
05/16/30	NA	NA	863.52
05/17/30	NA	NA	863.52
05/18/30	NA	NA	863.48
05/19/30	NA	NA	863.46
05/20/30	NA	NA	863.46
05/21/30	NA	NA	863.46
05/22/30	NA	NA	863.46
05/23/30	NA	NA	863.44
05/24/30	NA	NA	863.44
05/25/30	NA	NA	863.44
05/26/30	NA	NA	863.44
05/27/30	NA	NA	863.44
05/28/30	NA	NA	863.44
05/29/30	NA	NA	863.44
05/30/30	NA	NA	863.44
05/31/30	NA	NA	863.39
06/01/30	NA	NA	863.38
06/02/30	NA	NA	863.38
06/03/30	NA	NA	863.35
06/04/30	NA	NA	863.35
06/05/30	NA	NA	863.33
06/06/30	NA	NA	863.31
06/07/30	NA	NA	863.31
06/08/30	NA	NA	863.34
06/09/30	NA	NA	863.34
06/10/30	NA	NA	863.27
06/11/30	NA	NA	863.27
06/12/30	NA	NA	863.31
06/13/30	NA	NA	863.27
06/14/30	NA	NA	863.27
06/15/30	NA	NA	863.27
06/16/30	NA	NA	863.33
06/17/30	NA	NA	863.33
06/18/30	NA	NA	863.33
06/19/30	NA	NA	863.19
06/20/30	NA	NA	863.19
06/21/30	NA	NA	863.19
06/22/30	NA	NA	863.19
06/23/30	NA	NA	863.19
06/24/30	NA	NA	863.23
06/25/30	NA	NA	863.19
06/26/30	NA	NA	863.14
06/27/30	NA	NA	863.14
06/28/30	NA	NA	863.10
06/29/30	NA	NA	863.10
06/30/30	NA	NA	863.06
07/01/30	NA	NA	863.02
07/02/30	NA	NA	863.02
07/03/30	NA	NA	862.98
07/04/30	NA	NA	862.94
07/05/30	NA	NA	862.89
07/06/30	NA	NA	862.89
07/07/30	NA	NA	862.91
07/08/30	NA	NA	862.91
07/09/30	NA	NA	862.77
07/10/30	NA	NA	862.73
07/11/30	NA	NA	862.68
07/12/30	NA	NA	862.64
07/13/30	NA	NA	862.64
07/14/30	NA	NA	862.60
07/15/30	NA	NA	862.60
07/16/30	NA	NA	862.58
07/17/30	NA	NA	862.56
07/18/30	NA	NA	862.52
07/19/30	NA	NA	862.52
07/20/30	NA	NA	862.48
07/21/30	NA	NA	862.48
07/22/30	NA	NA	862.48
07/23/30	NA	NA	862.48
07/24/30	NA	NA	862.46
07/25/30	NA	NA	862.44
07/26/30	NA	NA	862.44
07/27/30	NA	NA	862.44
07/28/30	NA	NA	862.42
07/29/30	NA	NA	862.38
07/30/30	NA	NA	862.38
07/31/30	NA	NA	862.35
08/01/30	NA	NA	862.31
08/02/30	NA	NA	862.31
08/03/30	NA	NA	862.27
08/04/30	NA	NA	862.23
08/05/30	NA	NA	862.23
08/06/30	NA	NA	862.23
08/07/30	NA	NA	862.21
08/08/30	NA	NA	862.23
08/09/30	NA	NA	862.23
08/10/30	NA	NA	862.19
08/11/30	NA	NA	862.19
08/12/30	NA	NA	862.15
08/13/30	NA	NA	862.14
08/14/30	NA	NA	862.10
08/15/30	NA	NA	862.10
08/16/30	NA	NA	862.06
08/17/30	NA	NA	862.06
08/18/30	NA	NA	862.06
08/19/30	NA	NA	862.06
08/20/30	NA	NA	862.02
08/21/30	NA	NA	862.02
08/22/30	NA	NA	861.98
08/23/30	NA	NA	861.98
08/24/30	NA	NA	861.94
08/25/30	NA	NA	861.94
08/26/30	NA	NA	861.88
08/27/30	NA	NA	861.89
08/28/30	NA	NA	861.85
08/29/30	NA	NA	861.85
08/30/30	NA	NA	861.81
08/31/30	NA	NA	861.81
09/01/30	NA	NA	861.81
09/02/30	NA	NA	861.81
09/03/30	NA	NA	861.81
09/04/30	NA	NA	861.81
09/05/30	NA	NA	861.81
09/06/30	NA	NA	861.81
09/07/30	NA	NA	861.77
09/08/30	NA	NA	861.77
09/09/30	NA	NA	861.77
09/10/30	NA	NA	861.73
09/11/30	NA	NA	861.73
09/12/30	NA	NA	861.73
09/13/30	NA	NA	861.73
09/14/30	NA	NA	861.69
09/15/30	NA	NA	861.69
09/16/30	NA	NA	861.64
09/17/30	NA	NA	861.64
09/18/30	NA	NA	861.60
09/19/30	NA	NA	861.60
09/20/30	NA	NA	861.60
09/21/30	NA	NA	861.56
09/22/30	NA	NA	861.56
09/23/30	NA	NA	861.56
09/24/30	NA	NA	861.56
09/25/30	NA	NA	861.56
09/26/30	NA	NA	861.56
09/27/30	NA	NA	861.56
09/28/30	NA	NA	861.52
09/29/30	NA	NA	861.52
09/30/30	NA	NA	861.52
10/01/30	NA	NA	861.52
10/02/30	NA	NA	861.52
10/03/30	NA	NA	861.48
10/04/30	NA	NA	861.48
10/05/30	NA	NA	861.48
10/06/30	NA	NA	861.48
10/07/30	NA	NA	861.46
10/08/30	NA	NA	861.46
10/09/30	NA	NA	861.46
10/10/30	NA	NA	861.46
10/11/30	NA	NA	861.46
10/12/30	NA	NA	861.46
10/13/30	NA	NA	861.46
10/14/30	NA	NA	861.46
10/15/30	NA	NA	861.46
10/16/30	NA	NA	861.44
10/17/30	NA	NA	861.44
10/18/30	NA	NA	861.44
10/19/30	NA	NA	861.44
10/20/30	NA	NA	861.39
10/21/30	NA	NA	861.39
10/22/30	NA	NA	861.39
10/23/30	NA	NA	861.39
10/24/30	NA	NA	861.35
10/25/30	NA	NA	861.31
10/26/30	NA	NA	861.31
10/27/30	NA	NA	861.31
10/28/30	NA	NA	861.31
10/29/30	NA	NA	861.31
10/30/30	NA	NA	861.31
10/31/30	NA	NA	861.31
11/01/30	NA	NA	861.25
11/02/30	NA	NA	861.23
11/03/30	NA	NA	861.23
11/04/30	NA	NA	861.18
11/05/30	NA	NA	861.18
11/06/30	NA	NA	861.18

RB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	Gauge Measurement (inches)	Measurement Location	Lake Elevation (Feet msl)
05/16/21	NA	NA	867.23
05/18/21	NA	NA	867.23
05/19/21	NA	NA	867.23
05/17/21	NA	NA	867.14
05/18/21	NA	NA	867.14
05/19/21	NA	NA	867.14
05/20/21	NA	NA	866.98
05/21/21	NA	NA	866.98
05/22/21	NA	NA	866.98
05/23/21	NA	NA	866.98
05/24/21	NA	NA	866.98
05/25/21	NA	NA	866.98
05/26/21	NA	NA	866.98
05/27/21	NA	NA	866.98
05/28/21	NA	NA	866.98
05/29/21	NA	NA	866.98
05/30/21	NA	NA	866.89
05/31/21	NA	NA	866.89
06/01/21	NA	NA	866.89
06/02/21	NA	NA	866.85
06/03/21	NA	NA	866.85
06/04/21	NA	NA	866.85
06/05/21	NA	NA	866.81
06/06/21	NA	NA	866.81
06/07/21	NA	NA	866.81
06/08/21	NA	NA	866.84
06/09/21	NA	NA	866.77
06/10/21	NA	NA	866.77
06/11/21	NA	NA	866.77
06/12/21	NA	NA	866.73
06/13/21	NA	NA	866.73
06/14/21	NA	NA	866.73
06/15/21	NA	NA	866.73
06/16/21	NA	NA	866.68
06/17/21	NA	NA	866.68
06/18/21	NA	NA	866.68
06/19/21	NA	NA	866.64
06/20/21	NA	NA	866.64
06/21/21	NA	NA	866.64
06/22/21	NA	NA	866.60
06/23/21	NA	NA	866.60
06/24/21	NA	NA	866.60
06/25/21	NA	NA	866.56
06/26/21	NA	NA	866.56
06/27/21	NA	NA	866.56
06/28/21	NA	NA	866.64
06/29/21	NA	NA	866.64
06/30/21	NA	NA	866.64
07/01/21	NA	NA	866.64
07/02/21	NA	NA	866.60
07/03/21	NA	NA	866.60
07/04/21	NA	NA	866.60
07/05/21	NA	NA	866.56
07/06/21	NA	NA	866.56
07/07/21	NA	NA	866.56
07/08/21	NA	NA	866.66
07/09/21	NA	NA	866.66
07/10/21	NA	NA	866.52
07/11/21	NA	NA	866.52
07/12/21	NA	NA	866.48
07/13/21	NA	NA	866.48
07/14/21	NA	NA	866.48
07/15/21	NA	NA	866.44
07/16/21	NA	NA	866.44
07/17/21	NA	NA	866.39
07/18/21	NA	NA	866.39
07/19/21	NA	NA	866.35
07/20/21	NA	NA	866.35
07/21/21	NA	NA	866.35
07/22/21	NA	NA	866.53
07/23/21	NA	NA	866.64
07/24/21	NA	NA	866.64
07/25/21	NA	NA	866.35
07/26/21	NA	NA	866.35
07/27/21	NA	NA	866.35
07/28/21	NA	NA	866.44
07/29/21	NA	NA	866.44
07/30/21	NA	NA	866.44
07/31/21	NA	NA	866.48
08/01/21	NA	NA	866.48
08/02/21	NA	NA	866.48
08/03/21	NA	NA	866.48
08/04/21	NA	NA	866.44
08/05/21	NA	NA	866.39
08/06/21	NA	NA	866.35
08/07/21	NA	NA	866.31
08/08/21	NA	NA	866.31
08/09/21	NA	NA	866.31
08/10/21	NA	NA	866.31
08/11/21	NA	NA	866.31
08/12/21	NA	NA	866.31
08/13/21	NA	NA	866.31
08/14/21	NA	NA	866.27
08/15/21	NA	NA	866.27
08/16/21	NA	NA	866.27
08/17/21	NA	NA	866.27
08/18/21	NA	NA	866.27
08/19/21	NA	NA	866.23
08/20/21	NA	NA	866.23
08/21/21	NA	NA	866.23
08/22/21	NA	NA	866.23
08/23/21	NA	NA	866.19
08/24/21	NA	NA	866.19
08/25/21	NA	NA	866.19
08/26/21	NA	NA	866.14
08/27/21	NA	NA	866.14
08/28/21	NA	NA	866.14
08/29/21	NA	NA	866.14
08/30/21	NA	NA	866.10
08/31/21	NA	NA	866.10
09/01/21	NA	NA	866.10
09/02/21	NA	NA	866.14
09/03/21	NA	NA	866.14
09/04/21	NA	NA	866.14
09/05/21	NA	NA	866.14
09/06/21	NA	NA	866.14
09/07/21	NA	NA	866.14
09/08/21	NA	NA	866.10
09/09/21	NA	NA	866.10
09/10/21	NA	NA	866.10
09/11/21	NA	NA	866.10
09/12/21	NA	NA	866.10
09/13/21	NA	NA	866.06
09/14/21	NA	NA	866.06
09/15/21	NA	NA	866.06
09/16/21	NA	NA	866.06
09/17/21	NA	NA	866.06
09/18/21	NA	NA	866.06
09/19/21	NA	NA	866.06
09/20/21	NA	NA	866.02
09/21/21	NA	NA	866.02
09/22/21	NA	NA	865.98
09/23/21	NA	NA	865.98
09/24/21	NA	NA	865.94
09/25/21	NA	NA	865.94
09/26/21	NA	NA	865.89
09/27/21	NA	NA	865.89
09/28/21	NA	NA	865.89
09/29/21	NA	NA	865.89
09/30/21	NA	NA	865.89
10/01/21	NA	NA	865.89
10/02/21	NA	NA	865.89
10/03/21	NA	NA	865.89
10/04/21	NA	NA	865.89
10/05/21	NA	NA	865.89
10/06/21	NA	NA	865.89
10/07/21	NA	NA	865.89
10/08/21	NA	NA	865.89
10/09/21	NA	NA	865.89
10/10/21	NA	NA	865.89
10/11/21	NA	NA	865.89
10/12/21	NA	NA	865.89
10/13/21	NA	NA	865.89
10/14/21	NA	NA	865.89
10/15/21	NA	NA	865.89
10/16/21	NA	NA	865.89
10/17/21	NA	NA	865.89
10/18/21	NA	NA	865.89
10/19/21	NA	NA	865.89
10/20/21	NA	NA	865.89
10/21/21	NA	NA	865.89
10/22/21	NA	NA	865.89
10/23/21	NA	NA	865.89
10/24/21	NA	NA	865.89
10/25/21	NA	NA	865.89
10/26/21	NA	NA	865.89
10/27/21	NA	NA	865.89
10/28/21	NA	NA	865.89
10/29/21	NA	NA	865.89
10/30/21	NA	NA	865.89
10/31/21	NA	NA	865.89
11/01/21	NA	NA	865.89
11/02/21	NA	NA	865.89
11/03/21	NA	NA	865.89
11/04/21	NA	NA	865.89
11/05/21	NA	NA	865.89
11/06/21	NA	NA	865.89
11/07/21	NA	NA	865.89
11/08/21	NA	NA	865.89
11/09/21	NA	NA	865.89
11/10/21	NA	NA	865.89
11/11/21	NA	NA	865.89
11/12/21	NA	NA	865.89
11/13/21	NA	NA	865.84
11/14/21	NA	NA	865.84
11/15/21	NA	NA	865.84
11/16/21	NA	NA	865.89
11/17/21	NA	NA	865.89

EB = East Bank
WB = West Bank
Ref = Reference
NA = Not Available

Date	CGNR Measurement (meters)	Measurement Location	Lake Elevation (feet msl)
05/26/22	NA	NA	869.19
05/26/22	NA	NA	869.19
05/26/22	NA	NA	869.19
05/27/22	NA	NA	869.19
05/28/22	NA	NA	869.14
05/28/22	NA	NA	869.14
05/30/22	NA	NA	869.14
05/31/22	NA	NA	869.14
06/01/22	NA	NA	869.14
06/02/22	NA	NA	869.10
06/03/22	NA	NA	869.10
06/04/22	NA	NA	869.10
06/05/22	NA	NA	869.10
06/06/22	NA	NA	869.10
06/07/22	NA	NA	869.09
06/08/22	NA	NA	869.08
06/09/22	NA	NA	869.08
06/10/22	NA	NA	869.08
06/11/22	NA	NA	869.02
06/12/22	NA	NA	869.02
06/13/22	NA	NA	868.98
06/14/22	NA	NA	868.95
06/15/22	NA	NA	868.95
06/16/22	NA	NA	868.94
06/17/22	NA	NA	868.94
06/18/22	NA	NA	868.94
06/19/22	NA	NA	868.94
06/20/22	NA	NA	868.89
06/21/22	NA	NA	868.85
06/22/22	NA	NA	868.85
06/23/22	NA	NA	868.89
06/24/22	NA	NA	868.95
06/25/22	NA	NA	868.81
06/26/22	NA	NA	868.81
06/27/22	NA	NA	868.81
06/28/22	NA	NA	868.81
06/29/22	NA	NA	868.81
06/30/22	NA	NA	868.81
07/01/22	NA	NA	868.81
07/02/22	NA	NA	868.81
07/03/22	NA	NA	868.81
07/04/22	NA	NA	868.81
07/05/22	NA	NA	868.81
07/06/22	NA	NA	868.81
07/07/22	NA	NA	868.81
07/08/22	NA	NA	868.81
07/09/22	NA	NA	868.81
07/10/22	NA	NA	868.81
07/11/22	NA	NA	868.81
07/12/22	NA	NA	868.77
07/13/22	NA	NA	868.77
07/14/22	NA	NA	868.77
07/15/22	NA	NA	868.77
07/16/22	NA	NA	868.73
07/17/22	NA	NA	868.73
07/18/22	NA	NA	868.73
07/19/22	NA	NA	868.69
07/20/22	NA	NA	868.69
07/21/22	NA	NA	868.64
07/22/22	NA	NA	868.64
07/23/22	NA	NA	868.60
07/24/22	NA	NA	868.56
07/25/22	NA	NA	868.56
07/26/22	NA	NA	868.52
07/27/22	NA	NA	868.52
07/28/22	NA	NA	868.52
07/29/22	NA	NA	868.48
07/30/22	NA	NA	868.48
07/31/22	NA	NA	868.44
08/01/22	NA	NA	868.44
08/02/22	NA	NA	868.40
08/03/22	NA	NA	868.39
08/04/22	NA	NA	868.35
08/05/22	NA	NA	868.31
08/06/22	NA	NA	868.27
08/07/22	NA	NA	868.23
08/08/22	NA	NA	868.19
08/09/22	NA	NA	868.14
08/10/22	NA	NA	868.14
08/11/22	NA	NA	868.10
08/12/22	NA	NA	868.10
08/13/22	NA	NA	868.06
08/14/22	NA	NA	868.06
08/15/22	NA	NA	868.02
08/16/22	NA	NA	868.02
08/17/22	NA	NA	868.02
08/18/22	NA	NA	868.02
08/19/22	NA	NA	867.98
08/20/22	NA	NA	867.98
08/21/22	NA	NA	867.94
08/22/22	NA	NA	867.94
08/23/22	NA	NA	867.94
08/24/22	NA	NA	867.94
08/25/22	NA	NA	867.94
08/26/22	NA	NA	867.90
08/27/22	NA	NA	867.90
08/28/22	NA	NA	867.86
08/29/22	NA	NA	867.86
08/30/22	NA	NA	867.86
08/31/22	NA	NA	867.86
09/01/22	NA	NA	867.86
09/02/22	NA	NA	867.86
09/03/22	NA	NA	867.86
09/04/22	NA	NA	867.86
09/05/22	NA	NA	867.86
09/06/22	NA	NA	867.86
09/07/22	NA	NA	867.86
09/08/22	NA	NA	867.86
09/09/22	NA	NA	867.86
09/10/22	NA	NA	867.81
09/11/22	NA	NA	867.81
09/12/22	NA	NA	867.81
09/13/22	NA	NA	867.77
09/14/22	NA	NA	867.77
09/15/22	NA	NA	867.77
09/16/22	NA	NA	867.77
09/17/22	NA	NA	867.73
09/18/22	NA	NA	867.73
09/19/22	NA	NA	867.73
09/20/22	NA	NA	867.73
09/21/22	NA	NA	867.73
09/22/22	NA	NA	867.73
09/23/22	NA	NA	867.73
09/24/22	NA	NA	867.77
09/25/22	NA	NA	867.77
09/26/22	NA	NA	867.81
09/27/22	NA	NA	867.81
09/28/22	NA	NA	867.89
09/29/22	NA	NA	867.94
09/30/22	NA	NA	867.94
10/01/22	NA	NA	867.94
10/02/22	NA	NA	867.94
10/03/22	NA	NA	867.94
10/04/22	NA	NA	867.94
10/05/22	NA	NA	867.94
10/06/22	NA	NA	867.94
10/07/22	NA	NA	867.94
10/08/22	NA	NA	867.94
10/09/22	NA	NA	867.89
10/10/22	NA	NA	867.85
10/11/22	NA	NA	867.85
10/12/22	NA	NA	867.85
10/13/22	NA	NA	867.85
10/14/22	NA	NA	867.85
10/15/22	NA	NA	867.89
10/16/22	NA	NA	867.89
10/17/22	NA	NA	867.89
10/18/22	NA	NA	867.85
10/19/22	NA	NA	867.85
10/20/22	NA	NA	867.85
10/21/22	NA	NA	867.85
10/22/22	NA	NA	867.85
10/23/22	NA	NA	867.81
10/24/22	NA	NA	867.81
10/25/22	NA	NA	867.81
10/26/22	NA	NA	867.81
10/27/22	NA	NA	867.81
10/28/22	NA	NA	867.81
10/29/22	NA	NA	867.81
10/30/22	NA	NA	867.81
10/31/22	NA	NA	867.85
11/01/22	NA	NA	867.85
11/02/22	NA	NA	867.89
11/03/22	NA	NA	867.89
11/04/22	NA	NA	867.89
11/05/22	NA	NA	867.94
11/06/22	NA	NA	867.94
11/07/22	NA	NA	867.94
11/08/22	NA	NA	867.94
11/09/22	NA	NA	867.94
11/10/22	NA	NA	867.94
11/11/22	NA	NA	867.94
11/12/22	NA	NA	867.94
11/13/22	NA	NA	867.94
11/14/22	NA	NA	867.94
11/15/22	NA	NA	867.94
11/16/22	NA	NA	867.94
11/17/22	NA	NA	867.94
11/18/22	NA	NA	867.94
11/19/22	NA	NA	867.94
11/20/22	NA	NA	867.94
11/21/22	NA	NA	868.03
11/22/22	NA	NA	868.09
11/23/22	NA	NA	868.14
11/24/22	NA	NA	868.23
11/25/22	NA	NA	868.31
11/26/22	NA	NA	868.39
11/27/22	NA	NA	868.28

EB = East Bank
WB = West Bank
BH = Breakwater
NA = Not Available

Date	OSHR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/04/33	NA	NA	870.81
05/05/33	NA	NA	870.77
05/06/33	NA	NA	870.73
05/07/33	NA	NA	870.73
05/08/33	NA	NA	870.69
05/09/33	NA	NA	870.69
05/10/33	NA	NA	870.64
05/11/33	NA	NA	870.64
05/12/33	NA	NA	870.60
05/13/33	NA	NA	870.56
05/14/33	NA	NA	870.52
05/15/33	NA	NA	870.48
05/16/33	NA	NA	870.45
05/17/33	NA	NA	870.39
05/18/33	NA	NA	870.39
05/19/33	NA	NA	870.35
05/20/33	NA	NA	870.35
05/21/33	NA	NA	870.31
05/22/33	NA	NA	870.31
05/23/33	NA	NA	870.27
05/24/33	NA	NA	870.27
05/25/33	NA	NA	870.23
05/26/33	NA	NA	870.23
05/27/33	NA	NA	870.23
05/28/33	NA	NA	870.23
05/29/33	NA	NA	870.19
05/30/33	NA	NA	870.19
05/31/33	NA	NA	870.19
06/01/33	NA	NA	870.19
06/02/33	NA	NA	870.19
06/03/33	NA	NA	870.19
06/04/33	NA	NA	870.19
06/05/33	NA	NA	870.19
06/06/33	NA	NA	870.14
06/07/33	NA	NA	870.14
06/08/33	NA	NA	870.14
06/09/33	NA	NA	870.14
06/10/33	NA	NA	870.10
06/11/33	NA	NA	870.10
06/12/33	NA	NA	870.10
06/13/33	NA	NA	870.06
06/14/33	NA	NA	870.06
06/15/33	NA	NA	870.06
06/16/33	NA	NA	870.02
06/17/33	NA	NA	870.02
06/18/33	NA	NA	869.98
06/19/33	NA	NA	869.98
06/20/33	NA	NA	869.94
06/21/33	NA	NA	869.94
06/22/33	NA	NA	869.89
06/23/33	NA	NA	869.89
06/24/33	NA	NA	869.85
06/25/33	NA	NA	869.81
06/26/33	NA	NA	869.81
06/27/33	NA	NA	869.81
06/28/33	NA	NA	869.81
06/29/33	NA	NA	869.81
06/30/33	NA	NA	869.81
07/01/33	NA	NA	869.77
07/02/33	NA	NA	869.77
07/03/33	NA	NA	869.77
07/04/33	NA	NA	869.77
07/05/33	NA	NA	869.73
07/06/33	NA	NA	869.73
07/07/33	NA	NA	869.73
07/08/33	NA	NA	869.73
07/09/33	NA	NA	869.73
07/10/33	NA	NA	869.73
07/11/33	NA	NA	869.69
07/12/33	NA	NA	869.69
07/13/33	NA	NA	869.69
07/14/33	NA	NA	869.69
07/15/33	NA	NA	869.69
07/16/33	NA	NA	869.69
07/17/33	NA	NA	869.69
07/18/33	NA	NA	869.69
07/19/33	NA	NA	869.69
07/20/33	NA	NA	869.69
07/21/33	NA	NA	869.69
07/22/33	NA	NA	869.69
07/23/33	NA	NA	869.69
07/24/33	NA	NA	869.69
07/25/33	NA	NA	869.69
07/26/33	NA	NA	869.69
07/27/33	NA	NA	869.69
07/28/33	NA	NA	869.69
07/29/33	NA	NA	869.69
07/30/33	NA	NA	869.69
07/31/33	NA	NA	869.69
08/01/33	NA	NA	869.69
08/02/33	NA	NA	869.69
08/03/33	NA	NA	869.69
08/04/33	NA	NA	869.69
08/05/33	NA	NA	869.69
08/06/33	NA	NA	869.69
08/07/33	NA	NA	869.69
08/08/33	NA	NA	869.69
08/09/33	NA	NA	869.69
08/10/33	NA	NA	869.69
08/11/33	NA	NA	869.69
08/12/33	NA	NA	869.69
08/13/33	NA	NA	869.69
08/14/33	NA	NA	869.69
08/15/33	NA	NA	869.73
08/16/33	NA	NA	869.73
08/17/33	NA	NA	869.73
08/18/33	NA	NA	869.73
08/19/33	NA	NA	869.77
08/20/33	NA	NA	869.77
08/21/33	NA	NA	869.77
08/22/33	NA	NA	869.81
08/23/33	NA	NA	869.81
08/24/33	NA	NA	869.81
08/25/33	NA	NA	869.81
08/26/33	NA	NA	869.81
08/27/33	NA	NA	870.61
08/28/33	NA	NA	870.69
08/29/33	NA	NA	870.69
08/30/33	NA	NA	870.69
08/31/33	NA	NA	870.69
09/01/33	NA	NA	870.65
09/02/33	NA	NA	870.65
09/03/33	NA	NA	870.65
09/04/33	NA	NA	870.61
09/05/33	NA	NA	870.61
09/06/33	NA	NA	870.61
09/07/33	NA	NA	870.57
09/08/33	NA	NA	870.57
09/09/33	NA	NA	870.57
09/10/33	NA	NA	870.53
09/11/33	NA	NA	870.53
09/12/33	NA	NA	870.50
09/13/33	NA	NA	870.50
09/14/33	NA	NA	870.50
09/15/33	NA	NA	870.50
09/16/33	NA	NA	870.46
09/17/33	NA	NA	870.46
09/18/33	NA	NA	870.46
09/19/33	NA	NA	870.42
09/20/33	NA	NA	870.42
09/21/33	NA	NA	870.38
09/22/33	NA	NA	870.38
09/23/33	NA	NA	870.34
09/24/33	NA	NA	870.34
09/25/33	NA	NA	870.30
09/26/33	NA	NA	870.30
09/27/33	NA	NA	870.30
09/28/33	NA	NA	870.26
09/29/33	NA	NA	870.26
09/30/33	NA	NA	870.22
10/01/33	NA	NA	870.22
10/02/33	NA	NA	870.18
10/03/33	NA	NA	870.18
10/04/33	NA	NA	870.14
10/05/33	NA	NA	870.14
10/06/33	NA	NA	870.14
10/07/33	NA	NA	870.14
10/08/33	NA	NA	870.10
10/09/33	NA	NA	870.10
10/10/33	NA	NA	870.10
10/11/33	NA	NA	870.06
10/12/33	NA	NA	870.06
10/13/33	NA	NA	870.06
10/14/33	NA	NA	870.06
10/15/33	NA	NA	870.06
10/16/33	NA	NA	870.02
10/17/33	NA	NA	870.02
10/18/33	NA	NA	870.02
10/19/33	NA	NA	870.02
10/20/33	NA	NA	870.02
10/21/33	NA	NA	869.98
10/22/33	NA	NA	869.98
10/23/33	NA	NA	869.98
10/24/33	NA	NA	869.98
10/25/33	NA	NA	869.98
10/26/33	NA	NA	869.98
10/27/33	NA	NA	869.98
10/28/33	NA	NA	869.98
10/29/33	NA	NA	869.98
10/30/33	NA	NA	869.98
10/31/33	NA	NA	869.98
11/01/33	NA	NA	869.98
11/02/33	NA	NA	869.98
11/03/33	NA	NA	869.98
11/04/33	NA	NA	869.98
11/05/33	NA	NA	869.98
11/06/33	NA	NA	869.98
11/07/33	NA	NA	869.98
11/08/33	NA	NA	869.98
11/09/33	NA	NA	869.98
11/10/33	NA	NA	869.98
11/11/33	NA	NA	869.98
11/12/33	NA	NA	869.98
11/13/33	NA	NA	869.98
11/14/33	NA	NA	869.98
11/15/33	NA	NA	869.98
11/16/33	NA	NA	869.98
11/17/33	NA	NA	869.98
11/18/33	NA	NA	869.98
11/19/33	NA	NA	869.98
11/20/33	NA	NA	869.98
11/21/33	NA	NA	869.98
11/22/33	NA	NA	869.98
11/23/33	NA	NA	869.98
11/24/33	NA	NA	869.98
11/25/33	NA	NA	869.98
11/26/33	NA	NA	869.98
11/27/33	NA	NA	869.98
11/28/33	NA	NA	869.98
11/29/33	NA	NA	869.98
11/30/33	NA	NA	869.98
12/01/33	NA	NA	869.98
12/02/33	NA	NA	869.98
12/03/33	NA	NA	869.98
12/04/33	NA	NA	869.98
12/05/33	NA	NA	869.98
12/06/33	NA	NA	869.98
12/07/33	NA	NA	869.98
12/08/33	NA	NA	869.98

EB = East Bank
WB = West Bank
EH = EastHouse
NA = Not Available

Date	DDNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
06/15/34	NA	NA	869.52
06/16/34	NA	NA	869.48
06/17/34	NA	NA	869.48
06/18/34	NA	NA	869.48
06/19/34	NA	NA	869.48
06/20/34	NA	NA	869.44
06/21/34	NA	NA	869.44
06/22/34	NA	NA	869.44
06/23/34	NA	NA	869.44
06/24/34	NA	NA	869.44
06/25/34	NA	NA	869.44
06/26/34	NA	NA	869.44
06/27/34	NA	NA	869.82
06/28/34	NA	NA	869.84
06/29/34	NA	NA	869.86
06/30/34	NA	NA	869.86
07/01/34	NA	NA	869.84
07/02/34	NA	NA	869.38
07/03/34	NA	NA	869.52
07/04/34	NA	NA	869.53
07/05/34	NA	NA	869.48
07/06/34	NA	NA	869.48
07/07/34	NA	NA	869.44
07/08/34	NA	NA	869.44
07/09/34	NA	NA	869.44
07/10/34	NA	NA	869.44
07/11/34	NA	NA	869.44
07/12/34	NA	NA	869.38
07/13/34	NA	NA	869.38
07/14/34	NA	NA	869.28
07/15/34	NA	NA	869.38
07/16/34	NA	NA	869.38
07/17/34	NA	NA	869.38
07/18/34	NA	NA	868.35
07/19/34	NA	NA	868.55
07/20/34	NA	NA	868.38
07/21/34	NA	NA	868.31
07/22/34	NA	NA	868.31
07/23/34	NA	NA	868.27
07/24/34	NA	NA	868.23
07/25/34	NA	NA	868.19
07/26/34	NA	NA	868.19
07/27/34	NA	NA	868.14
07/28/34	NA	NA	868.14
07/29/34	NA	NA	868.10
07/30/34	NA	NA	868.10
07/31/34	NA	NA	868.10
08/01/34	NA	NA	868.10
08/02/34	NA	NA	868.06
08/03/34	NA	NA	868.06
08/04/34	NA	NA	868.06
08/05/34	NA	NA	868.06
08/06/34	NA	NA	868.06
08/07/34	NA	NA	868.06
08/08/34	NA	NA	868.06
08/09/34	NA	NA	868.06
08/10/34	NA	NA	868.02
08/11/34	NA	NA	868.02
08/12/34	NA	NA	868.02
08/13/34	NA	NA	868.02
08/14/34	NA	NA	868.02
08/15/34	NA	NA	868.02
08/16/34	NA	NA	867.98
08/17/34	NA	NA	867.98
08/18/34	NA	NA	867.94
08/19/34	NA	NA	867.94
08/20/34	NA	NA	867.94
08/21/34	NA	NA	867.94
08/22/34	NA	NA	867.94
08/23/34	NA	NA	867.98
08/24/34	NA	NA	867.98
08/25/34	NA	NA	867.94
08/26/34	NA	NA	867.94
08/27/34	NA	NA	867.94
08/28/34	NA	NA	867.94
08/29/34	NA	NA	867.98
08/30/34	NA	NA	867.98
08/31/34	NA	NA	867.98
09/01/34	NA	NA	867.98
09/02/34	NA	NA	867.98
09/03/34	NA	NA	867.98
09/04/34	NA	NA	867.98
09/05/34	NA	NA	867.98
09/06/34	NA	NA	867.98
09/07/34	NA	NA	867.98
09/08/34	NA	NA	867.98
09/09/34	NA	NA	867.98
09/10/34	NA	NA	867.98
09/11/34	NA	NA	867.98
09/12/34	NA	NA	867.98
09/13/34	NA	NA	867.98
09/14/34	NA	NA	867.98
09/15/34	NA	NA	867.98
09/16/34	NA	NA	867.98
09/17/34	NA	NA	867.98
09/18/34	NA	NA	867.98
09/19/34	NA	NA	867.98
09/20/34	NA	NA	867.98
09/21/34	NA	NA	867.98
09/22/34	NA	NA	867.98
09/23/34	NA	NA	867.98
09/24/34	NA	NA	867.98
09/25/34	NA	NA	867.98
09/26/34	NA	NA	867.98
09/27/34	NA	NA	867.98
09/28/34	NA	NA	867.98
09/29/34	NA	NA	867.98
09/30/34	NA	NA	867.98
10/01/34	NA	NA	867.98
10/02/34	NA	NA	867.98
10/03/34	NA	NA	867.98
10/04/34	NA	NA	867.98
10/05/34	NA	NA	867.98
10/06/34	NA	NA	867.98
10/07/34	NA	NA	867.98
10/08/34	NA	NA	867.98
10/09/34	NA	NA	867.98
10/10/34	NA	NA	867.98
10/11/34	NA	NA	867.98
10/12/34	NA	NA	867.98
10/13/34	NA	NA	867.98
10/14/34	NA	NA	867.98
10/15/34	NA	NA	867.98
10/16/34	NA	NA	867.98
10/17/34	NA	NA	867.98
10/18/34	NA	NA	867.98
10/19/34	NA	NA	867.98
10/20/34	NA	NA	867.98
10/21/34	NA	NA	867.98
10/22/34	NA	NA	867.98
10/23/34	NA	NA	867.98
10/24/34	NA	NA	867.98
10/25/34	NA	NA	867.98
10/26/34	NA	NA	867.98
10/27/34	NA	NA	867.98
10/28/34	NA	NA	867.98
10/29/34	NA	NA	867.98
10/30/34	NA	NA	867.98
10/31/34	NA	NA	867.98
11/01/34	NA	NA	867.98
11/02/34	NA	NA	867.98
11/03/34	NA	NA	867.98
11/04/34	NA	NA	867.98
11/05/34	NA	NA	867.98
11/06/34	NA	NA	867.98
11/07/34	NA	NA	867.98
11/08/34	NA	NA	867.98
11/09/34	NA	NA	867.98
11/10/34	NA	NA	867.98
11/11/34	NA	NA	867.98
11/12/34	NA	NA	867.98
11/13/34	NA	NA	867.98
11/14/34	NA	NA	867.98
11/15/34	NA	NA	867.98
11/16/34	NA	NA	867.98
11/17/34	NA	NA	867.98
11/18/34	NA	NA	867.98
11/19/34	NA	NA	867.98
11/20/34	NA	NA	867.98
11/21/34	NA	NA	867.98
11/22/34	NA	NA	867.98
11/23/34	NA	NA	867.98
11/24/34	NA	NA	867.98
11/25/34	NA	NA	867.98
11/26/34	NA	NA	867.98
11/27/34	NA	NA	867.98
11/28/34	NA	NA	867.98
11/29/34	NA	NA	867.98
11/30/34	NA	NA	867.98
12/01/34	NA	NA	867.98
12/02/34	NA	NA	867.98
12/03/34	NA	NA	867.98
12/04/34	NA	NA	867.98
12/05/34	NA	NA	867.98
12/06/34	NA	NA	867.98
12/07/34	NA	NA	867.98
12/08/34	NA	NA	867.98
12/09/34	NA	NA	867.98
12/10/34	NA	NA	867.98
12/11/34	NA	NA	867.98
12/12/34	NA	NA	867.98
12/13/34	NA	NA	867.98
12/14/34	NA	NA	867.98
12/15/34	NA	NA	867.98
12/16/34	NA	NA	867.98
12/17/34	NA	NA	867.98
12/18/34	NA	NA	867.98
12/19/34	NA	NA	867.98

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	ODNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/26/35	NA	NA	868.48
05/27/35	NA	NA	868.48
05/28/35	NA	NA	868.48
05/29/35	NA	NA	868.49
05/30/35	NA	NA	868.48
05/31/35	NA	NA	868.48
06/01/35	NA	NA	868.48
06/02/35	NA	NA	868.46
06/03/35	NA	NA	868.46
06/04/35	NA	NA	868.46
06/05/35	NA	NA	868.46
06/06/35	NA	NA	868.46
06/07/35	NA	NA	868.46
06/08/35	NA	NA	868.46
06/09/35	NA	NA	868.46
06/10/35	NA	NA	868.46
06/11/35	NA	NA	868.46
06/12/35	NA	NA	868.46
06/13/35	NA	NA	868.46
06/14/35	NA	NA	868.46
06/15/35	NA	NA	868.46
06/16/35	NA	NA	868.46
06/17/35	NA	NA	868.46
06/18/35	NA	NA	868.46
06/19/35	NA	NA	868.46
06/20/35	NA	NA	868.46
06/21/35	NA	NA	868.46
06/22/35	NA	NA	868.46
06/23/35	NA	NA	868.46
06/24/35	NA	NA	868.46
06/25/35	NA	NA	868.46
06/26/35	NA	NA	868.46
06/27/35	NA	NA	868.46
06/28/35	NA	NA	868.46
06/29/35	NA	NA	868.46
06/30/35	NA	NA	868.46
07/01/35	NA	NA	868.46
07/02/35	NA	NA	868.46
07/03/35	NA	NA	868.46
07/04/35	NA	NA	868.46
07/05/35	NA	NA	868.46
07/06/35	NA	NA	868.46
07/07/35	NA	NA	868.46
07/08/35	NA	NA	868.46
07/09/35	NA	NA	868.46
07/10/35	NA	NA	868.46
07/11/35	NA	NA	868.46
07/12/35	NA	NA	868.46
07/13/35	NA	NA	868.46
07/14/35	NA	NA	868.46
07/15/35	NA	NA	868.44
07/16/35	NA	NA	868.38
07/17/35	NA	NA	868.36
07/18/35	NA	NA	868.35
07/19/35	NA	NA	868.35
07/20/35	NA	NA	868.35
07/21/35	NA	NA	868.33
07/22/35	NA	NA	868.31
07/23/35	NA	NA	868.31
07/24/35	NA	NA	868.31
07/25/35	NA	NA	868.31
07/26/35	NA	NA	868.31
07/27/35	NA	NA	868.31
07/28/35	NA	NA	868.31
07/29/35	NA	NA	868.31
07/30/35	NA	NA	868.31
07/31/35	NA	NA	868.31
08/01/35	NA	NA	868.31
08/02/35	NA	NA	868.31
08/03/35	NA	NA	868.31
08/04/35	NA	NA	868.31
08/05/35	NA	NA	868.31
08/06/35	NA	NA	868.31
08/07/35	NA	NA	868.31
08/08/35	NA	NA	868.31
08/09/35	NA	NA	868.31
08/10/35	NA	NA	868.31
08/11/35	NA	NA	868.31
08/12/35	NA	NA	868.31
08/13/35	NA	NA	868.31
08/14/35	NA	NA	868.31
08/15/35	NA	NA	868.31
08/16/35	NA	NA	868.31
08/17/35	NA	NA	868.31
08/18/35	NA	NA	868.31
08/19/35	NA	NA	868.31
08/20/35	NA	NA	868.31
08/21/35	NA	NA	868.31
08/22/35	NA	NA	868.31
08/23/35	NA	NA	868.31
08/24/35	NA	NA	868.31
08/25/35	NA	NA	868.31
08/26/35	NA	NA	868.31
08/27/35	NA	NA	868.31
08/28/35	NA	NA	868.31
08/29/35	NA	NA	868.31
08/30/35	NA	NA	868.31
08/31/35	NA	NA	868.31
09/01/35	NA	NA	868.31
09/02/35	NA	NA	868.31
09/03/35	NA	NA	868.31
09/04/35	NA	NA	868.31
09/05/35	NA	NA	868.31
09/06/35	NA	NA	868.31
09/07/35	NA	NA	868.31
09/08/35	NA	NA	868.31
09/09/35	NA	NA	868.31
09/10/35	NA	NA	868.31
09/11/35	NA	NA	868.31
09/12/35	NA	NA	868.31
09/13/35	NA	NA	868.31
09/14/35	NA	NA	868.31
09/15/35	NA	NA	868.31
09/16/35	NA	NA	868.31
09/17/35	NA	NA	868.31
09/18/35	NA	NA	868.31
09/19/35	NA	NA	868.31
09/20/35	NA	NA	868.31
09/21/35	NA	NA	868.31
09/22/35	NA	NA	868.31
09/23/35	NA	NA	868.31
09/24/35	NA	NA	868.31
09/25/35	NA	NA	868.31
09/26/35	NA	NA	868.31
09/27/35	NA	NA	868.31
09/28/35	NA	NA	868.31
09/29/35	NA	NA	868.31
09/30/35	NA	NA	868.31
10/01/35	NA	NA	868.31
10/02/35	NA	NA	868.31
10/03/35	NA	NA	868.31
10/04/35	NA	NA	868.31
10/05/35	NA	NA	868.31
10/06/35	NA	NA	868.31
10/07/35	NA	NA	868.31
10/08/35	NA	NA	868.31
10/09/35	NA	NA	868.31
10/10/35	NA	NA	868.31
10/11/35	NA	NA	868.31
10/12/35	NA	NA	868.31
10/13/35	NA	NA	868.31
10/14/35	NA	NA	868.31
10/15/35	NA	NA	868.31
10/16/35	NA	NA	868.31
10/17/35	NA	NA	868.31
10/18/35	NA	NA	868.31
10/19/35	NA	NA	868.31
10/20/35	NA	NA	868.31
10/21/35	NA	NA	868.31
10/22/35	NA	NA	868.31
10/23/35	NA	NA	868.31
10/24/35	NA	NA	868.31
10/25/35	NA	NA	868.31
10/26/35	NA	NA	868.31
10/27/35	NA	NA	868.31
10/28/35	NA	NA	868.31
10/29/35	NA	NA	868.31
10/30/35	NA	NA	868.31
10/31/35	NA	NA	868.31
11/01/35	NA	NA	868.31
11/02/35	NA	NA	868.31
11/03/35	NA	NA	868.31
11/04/35	NA	NA	868.31
11/05/35	NA	NA	868.31
11/06/35	NA	NA	868.31
11/07/35	NA	NA	868.31
11/08/35	NA	NA	868.31
11/09/35	NA	NA	868.31
11/10/35	NA	NA	868.31
11/11/35	NA	NA	868.31
11/12/35	NA	NA	868.31
11/13/35	NA	NA	868.31
11/14/35	NA	NA	868.31
11/15/35	NA	NA	868.31
11/16/35	NA	NA	868.31
11/17/35	NA	NA	868.31
11/18/35	NA	NA	868.31
11/19/35	NA	NA	868.31
11/20/35	NA	NA	868.31
11/21/35	NA	NA	868.31
11/22/35	NA	NA	868.31
11/23/35	NA	NA	868.31
11/24/35	NA	NA	868.31
11/25/35	NA	NA	868.31
11/26/35	NA	NA	868.31
11/27/35	NA	NA	868.31
11/28/35	NA	NA	868.31
11/29/35	NA	NA	868.31
11/30/35	NA	NA	868.31
12/01/35	NA	NA	868.31
12/02/35	NA	NA	868.31
12/03/35	NA	NA	868.31
12/04/35	NA	NA	868.31
12/05/35	NA	NA	868.31
12/06/35	NA	NA	868.31
12/07/35	NA	NA	868.31
12/08/35	NA	NA	868.31
12/09/35	NA	NA	868.35
12/10/35	NA	NA	868.39
12/11/35	NA	NA	868.53
12/12/35	NA	NA	868.44
12/13/35	NA	NA	868.44
12/14/35	NA	NA	868.48
12/15/35	NA	NA	868.48
12/16/35	NA	NA	868.48
12/17/35	NA	NA	868.48
12/18/35	NA	NA	868.48
12/19/35	NA	NA	868.48
12/20/35	NA	NA	868.48
12/21/35	NA	NA	868.52
12/22/35	NA	NA	868.52
12/23/35	NA	NA	868.52
12/24/35	NA	NA	868.52
12/25/35	NA	NA	868.52
12/26/35	NA	NA	868.52
12/27/35	NA	NA	868.52
12/28/35	NA	NA	868.52
12/29/35	NA	NA	868.52
12/30/35	NA	NA	868.52

EB = East Bank,
WB = West Bank,
SH = Shelthouse
NA = Not Available

Date	GDA R Measurement (inches)	Measurement Location	Lake Elevation (feet IGLD)
07/06/35	NA	NA	968.10
07/07/35	NA	NA	968.00
07/08/35	NA	NA	968.02
07/09/35	NA	NA	968.02
07/10/35	NA	NA	968.01
07/11/35	NA	NA	968.04
07/12/35	NA	NA	968.04
07/13/35	NA	NA	968.04
07/14/35	NA	NA	968.05
07/15/35	NA	NA	968.01
07/16/35	NA	NA	968.07
07/17/35	NA	NA	968.77
07/18/35	NA	NA	968.73
07/19/35	NA	NA	968.73
07/20/35	NA	NA	968.69
07/21/35	NA	NA	968.69
07/22/35	NA	NA	968.64
07/23/35	NA	NA	968.60
07/24/35	NA	NA	968.56
07/25/35	NA	NA	968.52
07/26/35	NA	NA	968.52
07/27/35	NA	NA	968.52
07/28/35	NA	NA	968.46
07/29/35	NA	NA	968.46
07/30/35	NA	NA	968.46
07/31/35	NA	NA	968.46
08/01/35	NA	NA	968.44
08/02/35	NA	NA	968.44
08/03/35	NA	NA	968.44
08/04/35	NA	NA	968.44
08/05/35	NA	NA	968.39
08/06/35	NA	NA	968.39
08/07/35	NA	NA	968.38
08/08/35	NA	NA	968.38
08/09/35	NA	NA	968.35
08/10/35	NA	NA	968.35
08/11/35	NA	NA	968.35
08/12/35	NA	NA	968.31
08/13/35	NA	NA	968.35
08/14/35	NA	NA	968.31
08/15/35	NA	NA	968.31
08/16/35	NA	NA	968.31
08/17/35	NA	NA	968.31
08/18/35	NA	NA	968.27
08/19/35	NA	NA	968.27
08/20/35	NA	NA	968.27
08/21/35	NA	NA	968.27
08/22/35	NA	NA	968.23
08/23/35	NA	NA	968.23
08/24/35	NA	NA	968.23
08/25/35	NA	NA	968.23
08/26/35	NA	NA	968.23
08/27/35	NA	NA	968.19
08/28/35	NA	NA	968.19
08/29/35	NA	NA	968.19
08/30/35	NA	NA	968.14
08/31/35	NA	NA	968.14
09/01/35	NA	NA	968.10
09/02/35	NA	NA	968.10
09/03/35	NA	NA	968.06
09/04/35	NA	NA	968.06
09/05/35	NA	NA	968.01
09/06/35	NA	NA	968.02
09/07/35	NA	NA	968.02
09/08/35	NA	NA	968.02
09/09/35	NA	NA	968.02
09/10/35	NA	NA	968.07
09/11/35	NA	NA	968.02
09/12/35	NA	NA	968.02
09/13/35	NA	NA	968.02
09/14/35	NA	NA	968.02
09/15/35	NA	NA	967.98
09/16/35	NA	NA	967.98
09/17/35	NA	NA	967.96
09/18/35	NA	NA	967.96
09/19/35	NA	NA	967.95
09/20/35	NA	NA	967.93
09/21/35	NA	NA	967.96
09/22/35	NA	NA	967.93
09/23/35	NA	NA	967.89
09/24/35	NA	NA	967.96
09/25/35	NA	NA	967.89
09/26/35	NA	NA	967.99
09/27/35	NA	NA	967.96
09/28/35	NA	NA	967.95
09/29/35	NA	NA	967.99
09/30/35	NA	NA	967.96
10/01/35	NA	NA	967.93
10/02/35	NA	NA	967.98
10/03/35	NA	NA	967.98
10/04/35	NA	NA	967.96
10/05/35	NA	NA	967.96
10/06/35	NA	NA	967.99
10/07/35	NA	NA	967.99
10/08/35	NA	NA	968.02
10/09/35	NA	NA	968.02
10/10/35	NA	NA	968.02
10/11/35	NA	NA	968.02
10/12/35	NA	NA	968.02
10/13/35	NA	NA	968.02
10/14/35	NA	NA	968.06
10/15/35	NA	NA	968.06
10/16/35	NA	NA	968.06
10/17/35	NA	NA	968.06
10/18/35	NA	NA	968.06
10/19/35	NA	NA	968.10
10/20/35	NA	NA	968.10
10/21/35	NA	NA	968.10
10/22/35	NA	NA	968.14
10/23/35	NA	NA	968.14
10/24/35	NA	NA	968.18
10/25/35	NA	NA	968.18
10/26/35	NA	NA	968.18
10/27/35	NA	NA	968.18
10/28/35	NA	NA	968.18
10/29/35	NA	NA	968.18
10/30/35	NA	NA	968.22
10/31/35	NA	NA	968.22
11/01/35	NA	NA	968.27
11/02/35	NA	NA	968.27
11/03/35	NA	NA	968.27
11/04/35	NA	NA	968.31
11/05/35	NA	NA	968.31
11/06/35	NA	NA	968.31
11/07/35	NA	NA	968.31
11/08/35	NA	NA	968.35
11/09/35	NA	NA	968.39
11/10/35	NA	NA	968.39
11/11/35	NA	NA	968.39
11/12/35	NA	NA	968.38
11/13/35	NA	NA	968.38
11/14/35	NA	NA	968.39
11/15/35	NA	NA	968.39
11/16/35	NA	NA	968.39
11/17/35	NA	NA	968.38
11/18/35	NA	NA	968.39
11/19/35	NA	NA	968.39
11/20/35	NA	NA	968.39
11/21/35	NA	NA	968.39
11/22/35	NA	NA	968.39
11/23/35	NA	NA	968.39
11/24/35	NA	NA	968.39
11/25/35	NA	NA	968.39
11/26/35	NA	NA	968.39
11/27/35	NA	NA	968.39
11/28/35	NA	NA	968.39
11/29/35	NA	NA	968.39
11/30/35	NA	NA	968.39
12/01/35	NA	NA	968.39
12/02/35	NA	NA	968.39
12/03/35	NA	NA	968.39
12/04/35	NA	NA	968.39
12/05/35	NA	NA	968.39
12/06/35	NA	NA	968.39
12/07/35	NA	NA	968.39
12/08/35	NA	NA	968.39
12/09/35	NA	NA	968.39
12/10/35	NA	NA	968.39
12/11/35	NA	NA	968.39
12/12/35	NA	NA	968.39
12/13/35	NA	NA	968.39
12/14/35	NA	NA	968.39
12/15/35	NA	NA	968.39
12/16/35	NA	NA	968.39
12/17/35	NA	NA	968.39
12/18/35	NA	NA	968.39
12/19/35	NA	NA	968.39
12/20/35	NA	NA	968.39
12/21/35	NA	NA	968.39
12/22/35	NA	NA	968.39
12/23/35	NA	NA	968.39
12/24/35	NA	NA	968.39
12/25/35	NA	NA	968.39
12/26/35	NA	NA	968.39
12/27/35	NA	NA	968.39
12/28/35	NA	NA	968.39
12/29/35	NA	NA	968.39
12/30/35	NA	NA	968.39
12/31/35	NA	NA	968.39
01/01/37	NA	NA	968.39
01/02/37	NA	NA	968.39
01/03/37	NA	NA	968.39
01/04/37	NA	NA	968.39
01/05/37	NA	NA	968.43
01/06/37	NA	NA	968.43
01/07/37	NA	NA	968.64
01/08/37	NA	NA	968.73
01/09/37	NA	NA	968.77

EB = East Bank
WB = West Bank
BK = Back Channel
NA = Not Available

Date	CDWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
07/17/37	NA	NA	871.14
07/18/37	NA	NA	871.14
07/19/37	NA	NA	871.23
07/20/37	NA	NA	871.23
07/21/37	NA	NA	871.19
07/22/37	NA	NA	871.19
07/23/37	NA	NA	871.14
07/24/37	NA	NA	871.14
07/25/37	NA	NA	871.14
07/26/37	NA	NA	871.05
07/27/37	NA	NA	871.09
07/28/37	NA	NA	870.99
07/29/37	NA	NA	870.99
07/30/37	NA	NA	870.89
07/31/37	NA	NA	870.89
08/01/37	NA	NA	870.81
08/02/37	NA	NA	870.81
08/03/37	NA	NA	870.73
08/04/37	NA	NA	870.73
08/05/37	NA	NA	870.75
08/06/37	NA	NA	870.79
08/07/37	NA	NA	870.64
08/08/37	NA	NA	870.64
08/09/37	NA	NA	870.64
08/10/37	NA	NA	870.78
08/11/37	NA	NA	870.78
08/12/37	NA	NA	870.81
08/13/37	NA	NA	870.81
08/14/37	NA	NA	870.81
08/15/37	NA	NA	870.81
08/16/37	NA	NA	870.73
08/17/37	NA	NA	870.73
08/18/37	NA	NA	870.73
08/19/37	NA	NA	870.64
08/20/37	NA	NA	870.64
08/21/37	NA	NA	870.64
08/22/37	NA	NA	870.64
08/23/37	NA	NA	870.60
08/24/37	NA	NA	870.60
08/25/37	NA	NA	870.58
08/26/37	NA	NA	870.56
08/27/37	NA	NA	870.52
08/28/37	NA	NA	870.48
08/29/37	NA	NA	870.48
08/30/37	NA	NA	870.43
08/31/37	NA	NA	870.43
09/01/37	NA	NA	870.43
09/02/37	NA	NA	870.43
09/03/37	NA	NA	870.43
09/04/37	NA	NA	870.43
09/05/37	NA	NA	870.39
09/06/37	NA	NA	870.39
09/07/37	NA	NA	870.39
09/08/37	NA	NA	870.36
09/09/37	NA	NA	870.58
09/10/37	NA	NA	870.35
09/11/37	NA	NA	870.35
09/12/37	NA	NA	870.35
09/13/37	NA	NA	870.31
09/14/37	NA	NA	870.31
09/15/37	NA	NA	870.31
09/16/37	NA	NA	870.31
09/17/37	NA	NA	870.27
09/18/37	NA	NA	870.27
09/19/37	NA	NA	870.27
09/20/37	NA	NA	870.23
09/21/37	NA	NA	870.23
09/22/37	NA	NA	870.23
09/23/37	NA	NA	870.19
09/24/37	NA	NA	870.19
09/25/37	NA	NA	870.14
09/26/37	NA	NA	870.14
09/27/37	NA	NA	870.14
09/28/37	NA	NA	870.10
09/29/37	NA	NA	870.10
09/30/37	NA	NA	870.02
10/01/37	NA	NA	870.02
10/02/37	NA	NA	870.02
10/03/37	NA	NA	870.02
10/04/37	NA	NA	870.02
10/05/37	NA	NA	870.02
10/06/37	NA	NA	870.02
10/07/37	NA	NA	870.02
10/08/37	NA	NA	870.02
10/09/37	NA	NA	870.02
10/10/37	NA	NA	870.02
10/11/37	NA	NA	870.02
10/12/37	NA	NA	870.02
10/13/37	NA	NA	870.02
10/14/37	NA	NA	870.06
10/15/37	NA	NA	870.06
10/16/37	NA	NA	870.06
10/17/37	NA	NA	870.06
10/18/37	NA	NA	870.06
10/19/37	NA	NA	870.10
10/20/37	NA	NA	870.10
10/21/37	NA	NA	870.10
10/22/37	NA	NA	870.10
10/23/37	NA	NA	870.14
10/24/37	NA	NA	870.14
10/25/37	NA	NA	870.14
10/26/37	NA	NA	870.19
10/27/37	NA	NA	870.19
10/28/37	NA	NA	870.19
10/29/37	NA	NA	870.19
10/30/37	NA	NA	870.23
10/31/37	NA	NA	870.23
11/01/37	NA	NA	870.23
11/02/37	NA	NA	870.31
11/03/37	NA	NA	870.31
11/04/37	NA	NA	870.31
11/05/37	NA	NA	870.31
11/06/37	NA	NA	870.31
11/07/37	NA	NA	870.31
11/08/37	NA	NA	870.27
11/09/37	NA	NA	870.27
11/10/37	NA	NA	870.27
11/11/37	NA	NA	870.27
11/12/37	NA	NA	870.23
11/13/37	NA	NA	870.23
11/14/37	NA	NA	870.23
11/15/37	NA	NA	870.21
11/16/37	NA	NA	870.23
11/17/37	NA	NA	870.23
11/18/37	NA	NA	870.23
11/19/37	NA	NA	870.14
11/20/37	NA	NA	870.14
11/21/37	NA	NA	870.14
11/22/37	NA	NA	870.14
11/23/37	NA	NA	870.14
11/24/37	NA	NA	870.14
11/25/37	NA	NA	870.10
11/26/37	NA	NA	870.10
11/27/37	NA	NA	870.06
11/28/37	NA	NA	870.06
11/29/37	NA	NA	870.06
11/30/37	NA	NA	870.06
12/01/37	NA	NA	870.06
12/02/37	NA	NA	870.06
12/03/37	NA	NA	870.06
12/04/37	NA	NA	870.06
12/05/37	NA	NA	870.06
12/06/37	NA	NA	870.10
12/07/37	NA	NA	870.10
12/08/37	NA	NA	870.10
12/09/37	NA	NA	870.10
12/10/37	NA	NA	870.10
12/11/37	NA	NA	870.10
12/12/37	NA	NA	870.14
12/13/37	NA	NA	870.14
12/14/37	NA	NA	870.14
12/15/37	NA	NA	870.14
12/16/37	NA	NA	870.14
12/17/37	NA	NA	870.19
12/18/37	NA	NA	870.48
12/19/37	NA	NA	870.56
12/20/37	NA	NA	870.77
12/21/37	NA	NA	870.81
12/22/37	NA	NA	870.81
12/23/37	NA	NA	870.85
12/24/37	NA	NA	870.85
12/25/37	NA	NA	870.81
12/26/37	NA	NA	870.71
12/27/37	NA	NA	870.71
12/28/37	NA	NA	870.71
12/29/37	NA	NA	870.75
12/30/37	NA	NA	870.79
12/31/37	NA	NA	870.71
01/01/38	NA	NA	870.69
01/02/38	NA	NA	870.67
01/03/38	NA	NA	870.67
01/04/38	NA	NA	870.63
01/05/38	NA	NA	870.69
01/06/38	NA	NA	870.64
01/07/38	NA	NA	870.64
01/08/38	NA	NA	870.64
01/09/38	NA	NA	870.64
01/10/38	NA	NA	870.64
01/11/38	NA	NA	870.60
01/12/38	NA	NA	870.60
01/13/38	NA	NA	870.60
01/14/38	NA	NA	870.60
01/15/38	NA	NA	870.58
01/16/38	NA	NA	870.56
01/17/38	NA	NA	870.56
01/18/38	NA	NA	870.56
01/19/38	NA	NA	870.52
01/20/38	NA	NA	870.52

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	OGNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
07/29/36	NA	NA	870.23
07/29/36	NA	NA	870.23
07/30/36	NA	NA	870.23
07/31/36	NA	NA	870.23
08/01/36	NA	NA	870.23
08/02/36	NA	NA	870.23
08/03/36	NA	NA	870.19
08/04/36	NA	NA	870.19
08/05/36	NA	NA	870.19
08/06/36	NA	NA	870.14
08/07/36	NA	NA	870.14
08/08/36	NA	NA	870.14
08/09/36	NA	NA	870.14
08/10/36	NA	NA	870.14
08/11/36	NA	NA	870.10
08/12/36	NA	NA	870.10
08/13/36	NA	NA	870.10
08/14/36	NA	NA	870.06
08/15/36	NA	NA	870.06
08/16/36	NA	NA	870.02
08/17/36	NA	NA	870.02
08/18/36	NA	NA	869.98
08/19/36	NA	NA	869.98
08/20/36	NA	NA	869.94
08/21/36	NA	NA	869.89
08/22/36	NA	NA	869.89
08/23/36	NA	NA	869.89
08/24/36	NA	NA	869.85
08/25/36	NA	NA	869.85
08/26/36	NA	NA	869.81
08/27/36	NA	NA	869.81
08/28/36	NA	NA	869.77
08/29/36	NA	NA	869.77
08/30/36	NA	NA	869.73
08/31/36	NA	NA	869.73
09/01/36	NA	NA	869.69
09/02/36	NA	NA	869.69
09/03/36	NA	NA	869.64
09/04/36	NA	NA	869.60
09/05/36	NA	NA	869.56
09/06/36	NA	NA	869.52
09/07/36	NA	NA	869.52
09/08/36	NA	NA	869.48
09/09/36	NA	NA	869.48
09/10/36	NA	NA	869.44
09/11/36	NA	NA	869.39
09/12/36	NA	NA	869.39
09/13/36	NA	NA	869.39
09/14/36	NA	NA	869.35
09/15/36	NA	NA	869.35
09/16/36	NA	NA	869.35
09/17/36	NA	NA	869.31
09/18/36	NA	NA	869.31
09/19/36	NA	NA	869.27
09/20/36	NA	NA	869.27
09/21/36	NA	NA	869.27
09/22/36	NA	NA	869.23
09/23/36	NA	NA	869.23
09/24/36	NA	NA	869.23
09/25/36	NA	NA	869.23
09/26/36	NA	NA	869.19
09/27/36	NA	NA	869.19
09/28/36	NA	NA	869.19
09/29/36	NA	NA	869.19
09/30/36	NA	NA	869.14
10/01/36	NA	NA	869.14
10/02/36	NA	NA	869.14
10/03/36	NA	NA	869.14
10/04/36	NA	NA	869.14
10/05/36	NA	NA	869.10
10/06/36	NA	NA	869.10
10/07/36	NA	NA	869.10
10/08/36	NA	NA	869.06
10/09/36	NA	NA	869.06
10/10/36	NA	NA	869.06
10/11/36	NA	NA	869.02
10/12/36	NA	NA	869.02
10/13/36	NA	NA	869.02
10/14/36	NA	NA	868.98
10/15/36	NA	NA	868.98
10/16/36	NA	NA	868.94
10/17/36	NA	NA	868.94
10/18/36	NA	NA	868.94
10/19/36	NA	NA	868.94
10/20/36	NA	NA	868.94
10/21/36	NA	NA	868.89
10/22/36	NA	NA	868.89
10/23/36	NA	NA	868.89
10/24/36	NA	NA	868.85
10/25/36	NA	NA	868.85
10/26/36	NA	NA	868.85
10/27/36	NA	NA	868.81
10/28/36	NA	NA	868.81
10/29/36	NA	NA	868.81
10/30/36	NA	NA	868.81
10/31/36	NA	NA	868.81
11/01/36	NA	NA	868.81
11/02/36	NA	NA	868.77
11/03/36	NA	NA	868.77
11/04/36	NA	NA	868.77
11/05/36	NA	NA	868.77
11/06/36	NA	NA	868.73
11/07/36	NA	NA	868.73
11/08/36	NA	NA	868.73
11/09/36	NA	NA	868.73
11/10/36	NA	NA	868.73
11/11/36	NA	NA	868.73
11/12/36	NA	NA	868.73
11/13/36	NA	NA	868.73
11/14/36	NA	NA	868.73
11/15/36	NA	NA	868.73
11/16/36	NA	NA	868.73
11/17/36	NA	NA	868.73
11/18/36	NA	NA	868.73
11/19/36	NA	NA	868.73
11/20/36	NA	NA	868.73
11/21/36	NA	NA	868.73
11/22/36	NA	NA	868.73
11/23/36	NA	NA	868.73
11/24/36	NA	NA	868.73
11/25/36	NA	NA	868.73
11/26/36	NA	NA	868.73
11/27/36	NA	NA	868.73
11/28/36	NA	NA	868.73
11/29/36	NA	NA	868.73
11/30/36	NA	NA	868.73
12/01/36	NA	NA	868.73
12/02/36	NA	NA	868.73
12/03/36	NA	NA	868.73
12/04/36	NA	NA	868.73
12/05/36	NA	NA	868.73
12/06/36	NA	NA	868.73
12/07/36	NA	NA	868.73
12/08/36	NA	NA	868.73
12/09/36	NA	NA	868.73
12/10/36	NA	NA	868.73
12/11/36	NA	NA	868.73
12/12/36	NA	NA	868.73
12/13/36	NA	NA	868.73
12/14/36	NA	NA	868.73
12/15/36	NA	NA	868.73
12/16/36	NA	NA	868.73
12/17/36	NA	NA	868.73
12/18/36	NA	NA	868.73
12/19/36	NA	NA	868.73
12/20/36	NA	NA	868.73
12/21/36	NA	NA	868.73
12/22/36	NA	NA	868.73
12/23/36	NA	NA	868.73
12/24/36	NA	NA	868.73
12/25/36	NA	NA	868.73
12/26/36	NA	NA	868.73
12/27/36	NA	NA	868.73
12/28/36	NA	NA	868.73
12/29/36	NA	NA	868.73
12/30/36	NA	NA	868.73
12/31/36	NA	NA	868.73
01/01/37	NA	NA	868.73
01/02/37	NA	NA	868.73
01/03/37	NA	NA	868.73
01/04/37	NA	NA	868.73
01/05/37	NA	NA	868.73
01/06/37	NA	NA	868.73
01/07/37	NA	NA	868.73
01/08/37	NA	NA	868.73
01/09/37	NA	NA	868.73
01/10/37	NA	NA	868.73
01/11/37	NA	NA	868.73
01/12/37	NA	NA	868.73
01/13/37	NA	NA	868.73
01/14/37	NA	NA	868.73
01/15/37	NA	NA	868.73
01/16/37	NA	NA	868.73
01/17/37	NA	NA	868.73
01/18/37	NA	NA	868.73
01/19/37	NA	NA	868.73
01/20/37	NA	NA	868.73
01/21/37	NA	NA	868.73
01/22/37	NA	NA	868.73
01/23/37	NA	NA	868.73
01/24/37	NA	NA	868.73
01/25/37	NA	NA	868.73
01/26/37	NA	NA	868.73
01/27/37	NA	NA	868.73
01/28/37	NA	NA	868.73
01/29/37	NA	NA	868.73
01/30/37	NA	NA	868.73
01/31/37	NA	NA	868.73

EB = East Bank
WB = West Bank
BH = Bird House
NA = Not Available

Date	Gage Readjustment (Inches)	Measurement Location	Lake Elevation (feet msl)
05/05/39	NA	NA	862.69
05/06/39	NA	NA	864.65
05/15/39	NA	NA	869.81
05/13/39	NA	NA	869.81
05/12/39	NA	NA	869.77
05/13/39	NA	NA	869.75
05/14/39	NA	NA	869.75
05/15/39	NA	NA	869.83
05/16/39	NA	NA	869.69
05/17/39	NA	NA	869.69
05/18/39	NA	NA	869.69
05/19/39	NA	NA	869.64
05/20/39	NA	NA	869.64
05/21/39	NA	NA	869.60
05/22/39	NA	NA	869.60
05/23/39	NA	NA	869.56
05/24/39	NA	NA	869.50
05/25/39	NA	NA	869.52
05/26/39	NA	NA	869.52
05/27/39	NA	NA	869.52
05/28/39	NA	NA	869.48
05/29/39	NA	NA	869.48
05/30/39	NA	NA	869.48
05/31/39	NA	NA	869.48
06/01/39	NA	NA	869.44
06/02/39	NA	NA	869.44
06/03/39	NA	NA	869.38
06/04/39	NA	NA	869.38
06/05/39	NA	NA	869.38
06/06/39	NA	NA	869.35
06/07/39	NA	NA	869.31
06/08/39	NA	NA	868.27
06/09/39	NA	NA	868.27
06/10/39	NA	NA	868.27
06/11/39	NA	NA	868.23
06/12/39	NA	NA	869.19
06/13/39	NA	NA	869.19
06/14/39	NA	NA	869.14
06/15/39	NA	NA	869.14
06/16/39	NA	NA	869.14
06/17/39	NA	NA	869.10
06/18/39	NA	NA	869.06
06/19/39	NA	NA	868.06
06/20/39	NA	NA	868.06
06/21/39	NA	NA	868.02
06/22/39	NA	NA	868.02
06/23/39	NA	NA	868.02
06/24/39	NA	NA	868.98
06/25/39	NA	NA	868.98
06/26/39	NA	NA	868.98
06/27/39	NA	NA	868.95
06/28/39	NA	NA	868.95
06/29/39	NA	NA	868.95
06/30/39	NA	NA	868.91
07/01/39	NA	NA	868.91
07/02/39	NA	NA	868.87
07/03/39	NA	NA	868.87
07/04/39	NA	NA	868.87
07/05/39	NA	NA	868.87
07/06/39	NA	NA	868.87
07/07/39	NA	NA	868.87
07/08/39	NA	NA	868.87
07/09/39	NA	NA	868.87
07/10/39	NA	NA	868.87
07/11/39	NA	NA	868.87
07/12/39	NA	NA	868.87
07/13/39	NA	NA	868.87
07/14/39	NA	NA	868.87
07/15/39	NA	NA	868.87
07/16/39	NA	NA	868.87
07/17/39	NA	NA	868.87
07/18/39	NA	NA	868.87
07/19/39	NA	NA	868.87
07/20/39	NA	NA	868.87
07/21/39	NA	NA	868.87
07/22/39	NA	NA	868.87
07/23/39	NA	NA	868.87
07/24/39	NA	NA	868.87
07/25/39	NA	NA	868.87
07/26/39	NA	NA	868.87
07/27/39	NA	NA	868.87
07/28/39	NA	NA	868.87
07/29/39	NA	NA	868.87
07/30/39	NA	NA	868.87
07/31/39	NA	NA	868.87
08/01/39	NA	NA	868.87
08/02/39	NA	NA	868.87
08/03/39	NA	NA	868.87
08/04/39	NA	NA	868.87
08/05/39	NA	NA	868.87
08/06/39	NA	NA	868.87
08/07/39	NA	NA	868.87
08/08/39	NA	NA	868.87
08/09/39	NA	NA	868.87
08/10/39	NA	NA	868.87
08/11/39	NA	NA	868.87
08/12/39	NA	NA	868.87
08/13/39	NA	NA	868.87
08/14/39	NA	NA	868.87
08/15/39	NA	NA	868.87
08/16/39	NA	NA	868.87
08/17/39	NA	NA	868.87
08/18/39	NA	NA	868.87
08/19/39	NA	NA	868.87
08/20/39	NA	NA	868.87
08/21/39	NA	NA	868.87
08/22/39	NA	NA	868.87
08/23/39	NA	NA	868.87
08/24/39	NA	NA	868.87
08/25/39	NA	NA	868.87
08/26/39	NA	NA	868.87
08/27/39	NA	NA	868.87
08/28/39	NA	NA	868.87
08/29/39	NA	NA	868.87
08/30/39	NA	NA	868.87
08/31/39	NA	NA	868.87
09/01/39	NA	NA	868.87
09/02/39	NA	NA	868.87
09/03/39	NA	NA	868.87
09/04/39	NA	NA	868.87
09/05/39	NA	NA	868.87
09/06/39	NA	NA	868.87
09/07/39	NA	NA	868.87
09/08/39	NA	NA	868.87
09/09/39	NA	NA	868.87
09/10/39	NA	NA	868.87
09/11/39	NA	NA	868.87
09/12/39	NA	NA	868.87
09/13/39	NA	NA	868.87
09/14/39	NA	NA	868.87
09/15/39	NA	NA	868.87
09/16/39	NA	NA	868.87
09/17/39	NA	NA	868.87
09/18/39	NA	NA	868.87
09/19/39	NA	NA	868.87
09/20/39	NA	NA	868.87
09/21/39	NA	NA	868.87
09/22/39	NA	NA	868.87
09/23/39	NA	NA	868.87
09/24/39	NA	NA	868.87
09/25/39	NA	NA	868.87
09/26/39	NA	NA	868.87
09/27/39	NA	NA	868.87
09/28/39	NA	NA	868.87
09/29/39	NA	NA	868.87
09/30/39	NA	NA	868.87
10/01/39	NA	NA	868.87
10/02/39	NA	NA	868.87
10/03/39	NA	NA	868.87
10/04/39	NA	NA	868.87
10/05/39	NA	NA	868.87
10/06/39	NA	NA	868.87
10/07/39	NA	NA	868.87
10/08/39	NA	NA	868.87
10/09/39	NA	NA	868.87
10/10/39	NA	NA	868.87
10/11/39	NA	NA	868.87
10/12/39	NA	NA	868.87
10/13/39	NA	NA	868.87
10/14/39	NA	NA	868.87
10/15/39	NA	NA	868.87
10/16/39	NA	NA	868.87
10/17/39	NA	NA	868.87
10/18/39	NA	NA	868.87
10/19/39	NA	NA	868.87
10/20/39	NA	NA	868.87
10/21/39	NA	NA	868.87
10/22/39	NA	NA	868.87
10/23/39	NA	NA	868.87
10/24/39	NA	NA	868.87
10/25/39	NA	NA	868.87
10/26/39	NA	NA	868.87
10/27/39	NA	NA	868.87
10/28/39	NA	NA	868.87
10/29/39	NA	NA	868.87
10/30/39	NA	NA	868.87
10/31/39	NA	NA	868.87
11/01/39	NA	NA	868.87
11/02/39	NA	NA	868.87
11/03/39	NA	NA	868.87
11/04/39	NA	NA	868.87
11/05/39	NA	NA	868.87
11/06/39	NA	NA	868.87
11/07/39	NA	NA	868.87
11/08/39	NA	NA	868.87
11/09/39	NA	NA	868.87
11/10/39	NA	NA	868.87
11/11/39	NA	NA	868.87
11/12/39	NA	NA	868.87
11/13/39	NA	NA	868.87
11/14/39	NA	NA	868.87
11/15/39	NA	NA	868.87
11/16/39	NA	NA	868.87
11/17/39	NA	NA	868.87
11/18/39	NA	NA	868.87
11/19/39	NA	NA	868.87
11/20/39	NA	NA	868.87
11/21/39	NA	NA	868.87
11/22/39	NA	NA	868.87
11/23/39	NA	NA	868.87
11/24/39	NA	NA	868.87
11/25/39	NA	NA	868.87
11/26/39	NA	NA	868.87
11/27/39	NA	NA	868.87
11/28/39	NA	NA	868.87
11/29/39	NA	NA	868.87
11/30/39	NA	NA	868.87
12/01/39	NA	NA	868.87
12/02/39	NA	NA	868.87
12/03/39	NA	NA	868.87
12/04/39	NA	NA	868.87
12/05/39	NA	NA	868.87
12/06/39	NA	NA	868.87
12/07/39	NA	NA	868.87
12/08/39	NA	NA	868.87
12/09/39	NA	NA	868.87
12/10/39	NA	NA	868.87
12/11/39	NA	NA	868.87
12/12/39	NA	NA	868.87
12/13/39	NA	NA	868.87
12/14/39	NA	NA	868.87
12/15/39	NA	NA	868.87
12/16/39	NA	NA	868.87
12/17/39	NA	NA	868.87
12/18/39	NA	NA	868.87
12/19/39	NA	NA	868.87
12/20/39	NA	NA	868.87
12/21/39	NA	NA	868.87
12/22/39	NA	NA	868.87
12/23/39	NA	NA	868.87
12/24/39	NA	NA	868.87
12/25/39	NA	NA	868.87
12/26/39	NA	NA	868.87
12/27/39	NA	NA	868.87
12/28/39	NA	NA	868.87
12/29/39	NA	NA	868.87
12/30/39	NA	NA	868.87
12/31/39	NA	NA	868.87
01/01/40	NA	NA	868.87
01/02/40	NA	NA	868.87
01/03/40	NA	NA	868.87
01/04/40	NA	NA	868.87
01/05/40	NA	NA	868.87
01/06/40	NA	NA	868.87
01/07/40	NA	NA	868.87
01/08/40	NA	NA	868.87
01/09/40	NA	NA	868.87
01/10/40	NA	NA	868.87
01/11/40	NA	NA	868.87
01/12/40	NA	NA	868.87
01/13/40	NA	NA	868.73
01/14/40	NA	NA	868.73
01/15/40	NA	NA	868.73
01/16/40	NA	NA	868.73
01/17/40	NA	NA	868.73
01/18/40	NA	NA	868.73
01/19/40	NA	NA	868.73
01/20/40	NA	NA	868.73
01/21/40	NA	NA	868.73
01/22/40	NA	NA	868.69
01/23/40	NA	NA	868.69
01/24/40	NA	NA	868.69
01/25/40	NA	NA	868.69
01/26/40	NA	NA	868.69
01/27/40	NA	NA	868.69
01/28/40	NA	NA	868.69
01/29/40	NA	NA	868.69
01/30/40	NA	NA	868.69
01/31/40	NA	NA	868.64
02/01/40	NA	NA	868.64
02/02/40	NA	NA	868.64
02/03/40	NA	NA	868.64
02/04/40	NA	NA	868.64
02/05/40	NA	NA	868.64
02/06/40	NA	NA	868.64
02/07/40	NA	NA	868.64
02/08/40	NA	NA	868.60
02/09/40	NA	NA	868.60
02/10/40	NA	NA	868.60
02/11/40	NA	NA	868.13

EA = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	Gage Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/15/40	NA	NA	862.95
05/19/40	NA	NA	862.38
05/20/40	NA	NA	862.81
05/21/40	NA	NA	863.84
04/22/40	NA	NA	866.77
05/23/40	NA	NA	866.77
05/24/40	NA	NA	869.77
04/25/40	NA	NA	869.73
05/26/40	NA	NA	869.73
05/27/40	NA	NA	869.68
05/28/40	NA	NA	869.68
05/29/40	NA	NA	870.09
05/30/40	NA	NA	869.28
05/31/40	NA	NA	869.05
06/01/40	NA	NA	868.95
06/02/40	NA	NA	870.58
06/03/40	NA	NA	870.09
06/04/40	NA	NA	867.79
06/05/40	NA	NA	869.68
06/06/40	NA	NA	869.68
06/07/40	NA	NA	869.64
06/08/40	NA	NA	869.64
06/09/40	NA	NA	869.64
06/10/40	NA	NA	869.60
06/11/40	NA	NA	869.60
06/12/40	NA	NA	869.60
06/13/40	NA	NA	869.60
06/14/40	NA	NA	869.56
06/15/40	NA	NA	869.56
06/16/40	NA	NA	869.52
06/17/40	NA	NA	869.52
06/18/40	NA	NA	869.48
06/19/40	NA	NA	869.48
06/20/40	NA	NA	869.44
06/21/40	NA	NA	869.44
06/22/40	NA	NA	869.39
06/23/40	NA	NA	869.39
06/24/40	NA	NA	869.39
06/25/40	NA	NA	869.33
06/26/40	NA	NA	869.35
06/27/40	NA	NA	869.35
06/28/40	NA	NA	869.35
06/29/40	NA	NA	869.35
06/30/40	NA	NA	869.31
07/01/40	NA	NA	869.31
07/02/40	NA	NA	869.31
07/03/40	NA	NA	869.31
07/04/40	NA	NA	869.27
07/05/40	NA	NA	869.27
07/06/40	NA	NA	869.27
07/07/40	NA	NA	869.23
07/08/40	NA	NA	869.23
07/09/40	NA	NA	869.23
07/10/40	NA	NA	869.18
07/11/40	NA	NA	869.18
07/12/40	NA	NA	869.18
07/13/40	NA	NA	869.18
07/14/40	NA	NA	869.14
07/15/40	NA	NA	869.18
07/16/40	NA	NA	869.18
07/17/40	NA	NA	869.18
07/18/40	NA	NA	869.19
07/19/40	NA	NA	868.27
07/20/40	NA	NA	869.23
07/21/40	NA	NA	869.23
07/22/40	NA	NA	869.14
07/23/40	NA	NA	869.10
07/24/40	NA	NA	869.10
07/25/40	NA	NA	868.19
07/26/40	NA	NA	869.14
07/27/40	NA	NA	868.14
07/28/40	NA	NA	868.14
07/29/40	NA	NA	868.14
07/30/40	NA	NA	869.14
07/31/40	NA	NA	869.14
08/01/40	NA	NA	869.14
08/02/40	NA	NA	868.14
08/03/40	NA	NA	868.14
08/04/40	NA	NA	868.14
08/05/40	NA	NA	868.14
08/06/40	NA	NA	868.14
08/07/40	NA	NA	868.14
08/08/40	NA	NA	868.14
08/09/40	NA	NA	868.14
08/10/40	NA	NA	869.14
08/11/40	NA	NA	869.19
08/12/40	NA	NA	869.19
08/13/40	NA	NA	869.14
08/14/40	NA	NA	868.14
08/15/40	NA	NA	868.14
08/16/40	NA	NA	868.14
08/17/40	NA	NA	868.14
08/18/40	NA	NA	868.14
08/19/40	NA	NA	868.14
08/20/40	NA	NA	868.14
08/21/40	NA	NA	869.14
08/22/40	NA	NA	869.14
08/23/40	NA	NA	868.14
08/24/40	NA	NA	868.14
08/25/40	NA	NA	868.14
08/26/40	NA	NA	868.14
08/27/40	NA	NA	868.19
08/28/40	NA	NA	868.19
08/29/40	NA	NA	868.19
08/30/40	NA	NA	868.23
08/31/40	NA	NA	868.23
09/01/40	NA	NA	868.23
09/02/40	NA	NA	868.23
09/03/40	NA	NA	868.23
09/04/40	NA	NA	868.23
09/05/40	NA	NA	868.23
09/06/40	NA	NA	868.23
09/07/40	NA	NA	868.23
09/08/40	NA	NA	868.23
09/09/40	NA	NA	868.19
09/10/40	NA	NA	868.14
09/11/40	NA	NA	868.14
09/12/40	NA	NA	868.14
09/13/40	NA	NA	868.14
09/14/40	NA	NA	868.14
09/15/40	NA	NA	868.14
09/16/40	NA	NA	868.14
09/17/40	NA	NA	868.14
09/18/40	NA	NA	868.14
09/19/40	NA	NA	868.14
09/20/40	NA	NA	868.14
09/21/40	NA	NA	868.14
09/22/40	NA	NA	868.14
09/23/40	NA	NA	868.14
09/24/40	NA	NA	868.14
09/25/40	NA	NA	868.14
09/26/40	NA	NA	868.14
09/27/40	NA	NA	868.14
09/28/40	NA	NA	868.14
09/29/40	NA	NA	868.14
09/30/40	NA	NA	868.14
10/01/40	NA	NA	868.14
10/02/40	NA	NA	868.14
10/03/40	NA	NA	868.14
10/04/40	NA	NA	868.14
10/05/40	NA	NA	868.14
10/06/40	NA	NA	868.14
10/07/40	NA	NA	868.14
10/08/40	NA	NA	868.14
10/09/40	NA	NA	868.14
10/10/40	NA	NA	868.14
10/11/40	NA	NA	868.14
10/12/40	NA	NA	868.14
10/13/40	NA	NA	868.14
10/14/40	NA	NA	868.14
10/15/40	NA	NA	868.14
10/16/40	NA	NA	868.14
10/17/40	NA	NA	868.14
10/18/40	NA	NA	868.14
10/19/40	NA	NA	868.14
10/20/40	NA	NA	868.14
10/21/40	NA	NA	868.14
10/22/40	NA	NA	868.14
10/23/40	NA	NA	868.14
10/24/40	NA	NA	868.14
10/25/40	NA	NA	868.14
10/26/40	NA	NA	868.19
10/27/40	NA	NA	868.19
10/28/40	NA	NA	868.19
10/29/40	NA	NA	868.19
10/30/40	NA	NA	868.23
10/31/40	NA	NA	868.23
11/01/40	NA	NA	868.23
11/02/40	NA	NA	868.23
11/03/40	NA	NA	868.23
11/04/40	NA	NA	868.23
11/05/40	NA	NA	868.23
11/06/40	NA	NA	868.23
11/07/40	NA	NA	868.23
11/08/40	NA	NA	868.23
11/09/40	NA	NA	868.19
11/10/40	NA	NA	868.14
11/11/40	NA	NA	868.09
11/12/40	NA	NA	868.09
11/13/40	NA	NA	868.09
11/14/40	NA	NA	868.09
11/15/40	NA	NA	868.09
11/16/40	NA	NA	868.09
11/17/40	NA	NA	868.09
11/18/40	NA	NA	868.09
11/19/40	NA	NA	868.09
11/20/40	NA	NA	868.09
12/01/40	NA	NA	868.23
12/02/40	NA	NA	868.23
12/03/40	NA	NA	868.23
12/04/40	NA	NA	868.23
12/05/40	NA	NA	868.23
12/06/40	NA	NA	868.23
12/07/40	NA	NA	868.23
12/08/40	NA	NA	868.23
12/09/40	NA	NA	868.23
12/10/40	NA	NA	868.23
12/11/40	NA	NA	868.19
12/12/40	NA	NA	868.14
12/13/40	NA	NA	868.09
12/14/40	NA	NA	868.09
12/15/40	NA	NA	868.09
12/16/40	NA	NA	868.09
12/17/40	NA	NA	868.09
12/18/40	NA	NA	868.09
12/19/40	NA	NA	868.09
12/20/40	NA	NA	868.09
12/21/40	NA	NA	868.09
12/22/40	NA	NA	868.04
12/23/40	NA	NA	868.04
12/24/40	NA	NA	868.04
12/25/40	NA	NA	868.04
12/26/40	NA	NA	868.09
12/27/40	NA	NA	868.09
12/28/40	NA	NA	868.09
12/29/40	NA	NA	868.09
12/30/40	NA	NA	868.09
12/31/40	NA	NA	868.09
01/01/41	NA	NA	868.23
01/02/41	NA	NA	868.23
01/03/41	NA	NA	868.23
01/04/41	NA	NA	868.23
01/05/41	NA	NA	868.23
01/06/41	NA	NA	868.23
01/07/41	NA	NA	868.23
01/08/41	NA	NA	868.23
01/09/41	NA	NA	868.23
01/10/41	NA	NA	868.23
01/11/41	NA	NA	868.23
01/12/41	NA	NA	868.23
01/13/41	NA	NA	868.23
01/14/41	NA	NA	868.23
01/15/41	NA	NA	868.23
01/16/41	NA	NA	868.23
01/17/41	NA	NA	868.23
01/18/41	NA	NA	868.23
01/19/41	NA	NA	868.23
01/20/41	NA	NA	868.23
01/21/41	NA	NA	868.23
01/22/41	NA	NA	868.23
01/23/41	NA	NA	868.23
01/24/41	NA	NA	868.23
01/25/41	NA	NA	868.23
01/26/41	NA	NA	868.23
01/27/41	NA	NA	868.23
01/28/41	NA	NA	868.23
01/29/41	NA	NA	868.23
01/30/41	NA	NA	868.23
01/31/41	NA	NA	868.23
02/01/41	NA	NA	868.19
02/02/41	NA	NA	868.19
02/03/41	NA	NA	868.19
02/04/41	NA	NA	868.19
02/05/41	NA	NA	868.19
02/06/41	NA	NA	868.14
02/07/41	NA	NA	868.14
02/08/41	NA	NA	868.14
02/09/41	NA	NA	868.14
02/10/41	NA	NA	868.14
02/11/41	NA	NA	868.14
02/12/41	NA	NA	868.14
02/13/41	NA	NA	868.14
02/14/41	NA	NA	868.14
02/15/41	NA	NA	868.14
02/16/41	NA	NA	868.14
02/17/41	NA	NA	868.14
02/18/41	NA	NA	868.14
02/19/41	NA	NA	868.14
02/20/41	NA	NA	868.14
02/21/41	NA	NA	868.14

EA = East Bank
WA = West Bank
Str = Structure
NA = Not Available

Date	GONR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
06/29/41	NA	NA	868.19
06/30/41	NA	NA	868.19
08/31/41	NA	NA	868.19
09/01/41	NA	NA	868.14
09/02/41	NA	NA	868.14
09/03/41	NA	NA	868.14
09/04/41	NA	NA	868.19
09/05/41	NA	NA	868.23
09/06/41	NA	NA	868.23
09/07/41	NA	NA	868.23
09/08/41	NA	NA	868.23
09/09/41	NA	NA	868.23
09/10/41	NA	NA	868.23
09/11/41	NA	NA	868.14
09/12/41	NA	NA	868.14
09/13/41	NA	NA	868.14
09/14/41	NA	NA	868.08
09/15/41	NA	NA	868.08
09/16/41	NA	NA	868.08
09/17/41	NA	NA	868.02
09/18/41	NA	NA	868.02
09/19/41	NA	NA	867.97
09/20/41	NA	NA	867.96
09/21/41	NA	NA	867.96
09/22/41	NA	NA	867.96
09/23/41	NA	NA	867.97
09/24/41	NA	NA	867.99
09/25/41	NA	NA	867.93
09/26/41	NA	NA	867.89
09/27/41	NA	NA	867.91
09/28/41	NA	NA	867.93
09/29/41	NA	NA	867.64
09/30/41	NA	NA	867.61
10/01/41	NA	NA	867.56
10/02/41	NA	NA	867.59
10/03/41	NA	NA	867.59
10/04/41	NA	NA	867.59
10/05/41	NA	NA	867.64
10/06/41	NA	NA	867.64
10/07/41	NA	NA	867.64
10/08/41	NA	NA	867.73
10/09/41	NA	NA	867.73
10/10/41	NA	NA	867.73
10/11/41	NA	NA	867.73
10/12/41	NA	NA	867.73
10/13/41	NA	NA	867.73
10/14/41	NA	NA	867.73
10/15/41	NA	NA	867.73
10/16/41	NA	NA	867.73
10/17/41	NA	NA	867.64
10/18/41	NA	NA	867.64
10/19/41	NA	NA	867.56
10/20/41	NA	NA	867.59
10/21/41	NA	NA	867.58
10/22/41	NA	NA	867.48
10/23/41	NA	NA	867.49
10/24/41	NA	NA	867.48
10/25/41	NA	NA	867.48
10/26/41	NA	NA	867.48
10/27/41	NA	NA	867.48
10/28/41	NA	NA	867.48
10/29/41	NA	NA	867.48
10/30/41	NA	NA	867.48
10/31/41	NA	NA	867.48
11/01/41	NA	NA	867.48
11/02/41	NA	NA	867.48
11/03/41	NA	NA	864.48
11/04/41	NA	NA	867.45
11/05/41	NA	NA	867.45
11/06/41	NA	NA	867.39
11/07/41	NA	NA	867.39
11/08/41	NA	NA	867.39
11/09/41	NA	NA	867.39
11/10/41	NA	NA	867.39
11/11/41	NA	NA	867.39
11/12/41	NA	NA	867.39
11/13/41	NA	NA	867.39
11/14/41	NA	NA	867.39
11/15/41	NA	NA	867.39
11/16/41	NA	NA	867.39
11/17/41	NA	NA	867.39
11/18/41	NA	NA	867.39
11/19/41	NA	NA	867.39
11/20/41	NA	NA	867.39
11/21/41	NA	NA	867.39
11/22/41	NA	NA	867.39
11/23/41	NA	NA	867.39
11/24/41	NA	NA	867.39
11/25/41	NA	NA	867.31
11/26/41	NA	NA	867.31
11/27/41	NA	NA	867.31
11/28/41	NA	NA	867.31
11/29/41	NA	NA	867.31
11/30/41	NA	NA	867.31
12/01/41	NA	NA	867.31
12/02/41	NA	NA	867.31
12/03/41	NA	NA	867.31
12/04/41	NA	NA	867.31
12/05/41	NA	NA	867.31
12/06/41	NA	NA	867.31
12/07/41	NA	NA	867.23
12/08/41	NA	NA	867.23
12/09/41	NA	NA	867.23
12/10/41	NA	NA	867.23
12/11/41	NA	NA	867.23
12/12/41	NA	NA	867.23
12/13/41	NA	NA	867.23
12/14/41	NA	NA	867.23
12/15/41	NA	NA	867.23
12/16/41	NA	NA	867.23
12/17/41	NA	NA	867.23
12/18/41	NA	NA	867.23
12/19/41	NA	NA	867.23
12/20/41	NA	NA	867.23
12/21/41	NA	NA	867.23
12/22/41	NA	NA	867.14
12/23/41	NA	NA	867.14
12/24/41	NA	NA	867.14
12/25/41	NA	NA	867.14
12/26/41	NA	NA	867.14
12/27/41	NA	NA	867.14
12/28/41	NA	NA	867.14
12/29/41	NA	NA	867.14
12/30/41	NA	NA	867.14
12/31/41	NA	NA	867.14
01/01/42	NA	NA	867.23
01/02/42	NA	NA	867.23
01/03/42	NA	NA	867.23
01/04/42	NA	NA	867.23
01/05/42	NA	NA	867.23
01/06/42	NA	NA	867.23
01/07/42	NA	NA	867.23
01/08/42	NA	NA	867.23
01/09/42	NA	NA	867.23
01/10/42	NA	NA	867.23
01/11/42	NA	NA	867.23
01/12/42	NA	NA	867.23
01/13/42	NA	NA	867.23
01/14/42	NA	NA	867.23
01/15/42	NA	NA	867.23
01/16/42	NA	NA	867.23
01/17/42	NA	NA	867.23
01/18/42	NA	NA	867.23
01/19/42	NA	NA	867.23
01/20/42	NA	NA	867.23
01/21/42	NA	NA	867.23
01/22/42	NA	NA	867.23
01/23/42	NA	NA	867.23
01/24/42	NA	NA	867.23
01/25/42	NA	NA	867.23
01/26/42	NA	NA	867.23
01/27/42	NA	NA	867.23
01/28/42	NA	NA	867.23
01/29/42	NA	NA	867.23
01/30/42	NA	NA	867.23
01/31/42	NA	NA	867.23
02/01/42	NA	NA	867.23
02/02/42	NA	NA	867.23
02/03/42	NA	NA	867.23
02/04/42	NA	NA	867.23
02/05/42	NA	NA	867.31
02/06/42	NA	NA	867.39
02/07/42	NA	NA	867.56
02/08/42	NA	NA	867.64
02/09/42	NA	NA	867.64
02/10/42	NA	NA	867.64
02/11/42	NA	NA	867.64
02/12/42	NA	NA	867.64
02/13/42	NA	NA	867.64
02/14/42	NA	NA	867.64
02/15/42	NA	NA	867.64
02/16/42	NA	NA	867.69
02/17/42	NA	NA	867.89
02/18/42	NA	NA	867.89
02/19/42	NA	NA	867.89
02/20/42	NA	NA	867.89
02/21/42	NA	NA	867.89
02/22/42	NA	NA	867.89
02/23/42	NA	NA	867.89
02/24/42	NA	NA	867.89
02/25/42	NA	NA	867.89
02/26/42	NA	NA	867.89
02/27/42	NA	NA	867.99
02/28/42	NA	NA	867.93
03/01/42	NA	NA	867.93
03/02/42	NA	NA	867.94
03/03/42	NA	NA	867.94

EB = East Bank
WB = West Bank
SH = Shallowing
NA = Not Available

Date	OOHR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
09/09/42	NA	NA	869.73
09/10/42	NA	NA	869.73
09/11/42	NA	NA	869.73
09/12/42	NA	NA	869.73
09/13/42	NA	NA	869.73
09/14/42	NA	NA	869.73
09/15/42	NA	NA	869.81
09/16/42	NA	NA	869.81
09/17/42	NA	NA	869.81
09/18/42	NA	NA	869.84
09/19/42	NA	NA	869.81
09/20/42	NA	NA	869.81
09/21/42	NA	NA	869.77
09/22/42	NA	NA	869.77
09/23/42	NA	NA	869.73
09/24/42	NA	NA	869.73
09/25/42	NA	NA	869.73
09/26/42	NA	NA	869.73
09/27/42	NA	NA	869.73
09/28/42	NA	NA	869.73
09/29/42	NA	NA	869.73
09/30/42	NA	NA	869.69
10/01/42	NA	NA	869.69
10/02/42	NA	NA	869.64
10/03/42	NA	NA	869.64
10/04/42	NA	NA	869.64
10/05/42	NA	NA	869.64
10/06/42	NA	NA	869.64
10/07/42	NA	NA	869.59
10/08/42	NA	NA	869.64
10/09/42	NA	NA	869.64
10/10/42	NA	NA	869.64
10/11/42	NA	NA	869.60
10/12/42	NA	NA	869.60
10/13/42	NA	NA	869.60
10/14/42	NA	NA	869.60
10/15/42	NA	NA	869.56
10/16/42	NA	NA	869.56
10/17/42	NA	NA	869.56
10/18/42	NA	NA	869.56
10/19/42	NA	NA	869.55
10/20/42	NA	NA	869.52
10/21/42	NA	NA	869.52
10/22/42	NA	NA	869.48
10/23/42	NA	NA	869.48
10/24/42	NA	NA	869.48
10/25/42	NA	NA	869.48
10/26/42	NA	NA	868.48
10/27/42	NA	NA	868.48
10/28/42	NA	NA	868.48
10/29/42	NA	NA	868.48
10/30/42	NA	NA	868.48
10/31/42	NA	NA	868.48
11/01/42	NA	NA	868.44
11/02/42	NA	NA	868.44
11/03/42	NA	NA	868.44
11/04/42	NA	NA	868.44
11/05/42	NA	NA	868.44
11/06/42	NA	NA	869.44
11/07/42	NA	NA	868.44
11/08/42	NA	NA	868.44
11/09/42	NA	NA	869.44
11/10/42	NA	NA	868.35
11/11/42	NA	NA	868.35
11/12/42	NA	NA	868.35
11/13/42	NA	NA	868.35
11/14/42	NA	NA	868.35
11/15/42	NA	NA	868.35
11/16/42	NA	NA	868.31
11/17/42	NA	NA	868.31
11/18/42	NA	NA	868.28
11/19/42	NA	NA	868.28
11/20/42	NA	NA	868.28
11/21/42	NA	NA	868.28
11/22/42	NA	NA	868.29
11/23/42	NA	NA	868.29
11/24/42	NA	NA	868.29
11/25/42	NA	NA	868.31
11/26/42	NA	NA	868.31
11/27/42	NA	NA	868.31
11/28/42	NA	NA	868.31
11/29/42	NA	NA	868.31
11/30/42	NA	NA	868.31
12/01/42	NA	NA	868.31
12/02/42	NA	NA	868.31
12/03/42	NA	NA	868.31
12/04/42	NA	NA	868.31
12/05/42	NA	NA	868.31
12/06/42	NA	NA	868.27
12/07/42	NA	NA	868.27
12/08/42	NA	NA	868.27
12/09/42	NA	NA	868.27
12/10/42	NA	NA	868.27
12/11/42	NA	NA	868.27
12/12/42	NA	NA	868.27
12/13/42	NA	NA	868.31
12/14/42	NA	NA	868.23
12/15/42	NA	NA	868.31
12/16/42	NA	NA	868.31
12/17/42	NA	NA	868.31
12/18/42	NA	NA	868.31
12/19/42	NA	NA	868.31
12/20/42	NA	NA	868.31
12/21/42	NA	NA	868.34
12/22/42	NA	NA	868.34
12/23/42	NA	NA	868.31
12/24/42	NA	NA	868.31
12/25/42	NA	NA	868.31
12/26/42	NA	NA	868.28
12/27/42	NA	NA	868.28
12/28/42	NA	NA	868.48
12/29/42	NA	NA	868.56
12/30/42	NA	NA	869.64
12/31/42	NA	NA	868.73
01/01/43	NA	NA	868.81
01/02/43	NA	NA	868.81
01/03/43	NA	NA	868.81
01/04/43	NA	NA	868.84
01/05/43	NA	NA	868.88
01/06/43	NA	NA	868.88
01/07/43	NA	NA	868.88
01/08/43	NA	NA	868.95
01/09/43	NA	NA	868.95
01/10/43	NA	NA	868.97
01/11/43	NA	NA	868.94
01/12/43	NA	NA	868.98
01/13/43	NA	NA	868.98
01/14/43	NA	NA	868.98
01/15/43	NA	NA	868.98
01/16/43	NA	NA	868.98
01/17/43	NA	NA	868.98
01/18/43	NA	NA	869.08
01/19/43	NA	NA	870.06
01/20/43	NA	NA	870.06
01/21/43	NA	NA	870.06
01/22/43	NA	NA	870.06
01/23/43	NA	NA	870.06
01/24/43	NA	NA	870.06
01/25/43	NA	NA	870.06
01/26/43	NA	NA	870.09
01/27/43	NA	NA	870.06
01/28/43	NA	NA	870.06
01/29/43	NA	NA	870.06
01/30/43	NA	NA	870.06
01/31/43	NA	NA	870.06
02/01/43	NA	NA	870.06
02/02/43	NA	NA	870.06
02/03/43	NA	NA	870.06
02/04/43	NA	NA	870.06
02/05/43	NA	NA	870.06
02/06/43	NA	NA	870.06
02/07/43	NA	NA	870.06
02/08/43	NA	NA	870.06
02/09/43	NA	NA	870.06
02/10/43	NA	NA	870.06
02/11/43	NA	NA	870.06
02/12/43	NA	NA	870.14
02/13/43	NA	NA	870.14
02/14/43	NA	NA	870.14
02/15/43	NA	NA	870.14
02/16/43	NA	NA	870.14
02/17/43	NA	NA	870.14
02/18/43	NA	NA	870.14
02/19/43	NA	NA	870.14
02/20/43	NA	NA	870.14
02/21/43	NA	NA	870.14
02/22/43	NA	NA	870.14
02/23/43	NA	NA	870.14
02/24/43	NA	NA	870.14
02/25/43	NA	NA	870.14
02/26/43	NA	NA	870.14
02/27/43	NA	NA	870.14
02/28/43	NA	NA	870.14
03/01/43	NA	NA	870.14
03/02/43	NA	NA	870.14
03/03/43	NA	NA	870.23
03/04/43	NA	NA	870.23
03/05/43	NA	NA	870.23
03/06/43	NA	NA	870.23
03/07/43	NA	NA	870.23
03/08/43	NA	NA	870.23
03/09/43	NA	NA	870.23
03/10/43	NA	NA	870.23
03/11/43	NA	NA	870.23
03/12/43	NA	NA	870.25
03/13/43	NA	NA	870.23
03/14/43	NA	NA	870.23
03/15/43	NA	NA	870.23

EB = East Bank
WB = West Bank
BH = Boreholes
NA = Not Available

Date	CDWR Measurement (feet msl)	Measurement Location	Lake Elevation (feet msl)
08/20/43	NA	NA	870.48
08/21/43	NA	NA	870.39
08/22/43	NA	NA	870.39
08/23/43	NA	NA	870.39
08/24/43	NA	NA	870.39
08/25/43	NA	NA	870.31
08/26/43	NA	NA	870.31
08/27/43	NA	NA	870.31
08/28/43	NA	NA	870.31
08/29/43	NA	NA	870.31
08/30/43	NA	NA	870.31
08/31/43	NA	NA	870.31
09/01/43	NA	NA	870.31
09/02/43	NA	NA	870.31
09/03/43	NA	NA	870.31
09/04/43	NA	NA	870.31
09/05/43	NA	NA	870.31
09/06/43	NA	NA	870.31
09/07/43	NA	NA	870.31
09/08/43	NA	NA	870.31
09/09/43	NA	NA	870.31
09/10/43	NA	NA	870.31
09/11/43	NA	NA	870.31
09/12/43	NA	NA	870.31
09/13/43	NA	NA	870.31
09/14/43	NA	NA	870.31
09/15/43	NA	NA	870.31
09/16/43	NA	NA	870.31
09/17/43	NA	NA	870.31
09/18/43	NA	NA	870.31
09/19/43	NA	NA	870.31
09/20/43	NA	NA	870.31
09/21/43	NA	NA	870.31
09/22/43	NA	NA	870.31
09/23/43	NA	NA	870.31
09/24/43	NA	NA	870.31
09/25/43	NA	NA	870.31
09/26/43	NA	NA	870.31
09/27/43	NA	NA	870.31
09/28/43	NA	NA	870.31
09/29/43	NA	NA	870.31
09/30/43	NA	NA	870.31
10/01/43	NA	NA	870.31
10/02/43	NA	NA	870.31
10/03/43	NA	NA	870.31
10/04/43	NA	NA	870.31
10/05/43	NA	NA	870.31
10/06/43	NA	NA	870.31
10/07/43	NA	NA	870.31
10/08/43	NA	NA	870.31
10/09/43	NA	NA	870.31
10/10/43	NA	NA	870.31
10/11/43	NA	NA	870.31
10/12/43	NA	NA	870.31
10/13/43	NA	NA	870.31
10/14/43	NA	NA	870.31
10/15/43	NA	NA	870.31
10/16/43	NA	NA	870.31
10/17/43	NA	NA	870.31
10/18/43	NA	NA	870.31
10/19/43	NA	NA	870.31
10/20/43	NA	NA	870.31
10/21/43	NA	NA	870.31
10/22/43	NA	NA	870.31
10/23/43	NA	NA	870.31
10/24/43	NA	NA	870.31
10/25/43	NA	NA	870.31
10/26/43	NA	NA	870.31
10/27/43	NA	NA	870.31
10/28/43	NA	NA	870.31
10/29/43	NA	NA	870.31
10/30/43	NA	NA	870.31
10/31/43	NA	NA	870.31
11/01/43	NA	NA	870.31
11/02/43	NA	NA	870.31
11/03/43	NA	NA	870.31
11/04/43	NA	NA	870.31
11/05/43	NA	NA	870.31
11/06/43	NA	NA	870.31
11/07/43	NA	NA	870.31
11/08/43	NA	NA	870.31
11/09/43	NA	NA	870.31
11/10/43	NA	NA	870.31
11/11/43	NA	NA	870.31
11/12/43	NA	NA	870.31
11/13/43	NA	NA	870.31
11/14/43	NA	NA	870.31
11/15/43	NA	NA	870.31
11/16/43	NA	NA	870.31
11/17/43	NA	NA	870.31
11/18/43	NA	NA	870.31
11/19/43	NA	NA	870.31
11/20/43	NA	NA	870.31
11/21/43	NA	NA	870.31
11/22/43	NA	NA	870.31
11/23/43	NA	NA	870.31
11/24/43	NA	NA	870.31
11/25/43	NA	NA	870.31
11/26/43	NA	NA	870.31
11/27/43	NA	NA	870.31
11/28/43	NA	NA	870.31
11/29/43	NA	NA	870.31
11/30/43	NA	NA	870.31
12/01/43	NA	NA	870.31
12/02/43	NA	NA	870.31
12/03/43	NA	NA	870.31
12/04/43	NA	NA	870.31
12/05/43	NA	NA	870.31
12/06/43	NA	NA	870.31
12/07/43	NA	NA	870.31
12/08/43	NA	NA	870.31
12/09/43	NA	NA	870.31
12/10/43	NA	NA	870.31
12/11/43	NA	NA	870.31
12/12/43	NA	NA	870.31
12/13/43	NA	NA	870.31
12/14/43	NA	NA	870.31
12/15/43	NA	NA	870.31
12/16/43	NA	NA	870.31
12/17/43	NA	NA	870.31
12/18/43	NA	NA	870.31
12/19/43	NA	NA	870.31
12/20/43	NA	NA	870.31
12/21/43	NA	NA	870.31
12/22/43	NA	NA	870.31
12/23/43	NA	NA	870.31
12/24/43	NA	NA	870.31
12/25/43	NA	NA	870.31
12/26/43	NA	NA	870.31
12/27/43	NA	NA	870.31
12/28/43	NA	NA	870.31
12/29/43	NA	NA	870.31
12/30/43	NA	NA	870.31
12/31/43	NA	NA	870.31
01/01/44	NA	NA	868.81
01/02/44	NA	NA	868.81
01/03/44	NA	NA	868.81
01/04/44	NA	NA	868.81
01/05/44	NA	NA	868.81
01/06/44	NA	NA	868.81
01/07/44	NA	NA	867.73
01/08/44	NA	NA	865.15
01/09/44	NA	NA	865.73
01/10/44	NA	NA	865.73
01/11/44	NA	NA	865.73
01/12/44	NA	NA	867.73
01/13/44	NA	NA	868.73
01/14/44	NA	NA	868.73
01/15/44	NA	NA	868.73
01/16/44	NA	NA	869.73
01/17/44	NA	NA	869.73
01/18/44	NA	NA	868.73
01/19/44	NA	NA	869.64
01/20/44	NA	NA	869.64
01/21/44	NA	NA	869.64
01/22/44	NA	NA	869.64
01/23/44	NA	NA	869.64
01/24/44	NA	NA	869.64
01/25/44	NA	NA	869.64
01/26/44	NA	NA	869.64
01/27/44	NA	NA	869.64
01/28/44	NA	NA	869.66
01/29/44	NA	NA	869.66
01/30/44	NA	NA	868.66
01/31/44	NA	NA	868.66
02/01/44	NA	NA	868.66
02/02/44	NA	NA	868.56
02/03/44	NA	NA	868.56
02/04/44	NA	NA	868.56
02/05/44	NA	NA	868.56
02/06/44	NA	NA	869.48
02/07/44	NA	NA	869.48
02/08/44	NA	NA	869.48
02/09/44	NA	NA	869.48
02/10/44	NA	NA	869.48
02/11/44	NA	NA	869.48
02/12/44	NA	NA	869.48
02/13/44	NA	NA	869.48
02/14/44	NA	NA	869.48
02/15/44	NA	NA	869.48
02/16/44	NA	NA	869.48
02/17/44	NA	NA	869.48
02/18/44	NA	NA	869.48
02/19/44	NA	NA	869.48
02/20/44	NA	NA	869.48
02/21/44	NA	NA	869.48
02/22/44	NA	NA	869.48
02/23/44	NA	NA	868.56
02/24/44	NA	NA	868.56
02/25/44	NA	NA	868.56
02/26/44	NA	NA	868.56
02/27/44	NA	NA	868.56
02/28/44	NA	NA	868.56
02/29/44	NA	NA	868.56
03/01/44	NA	NA	868.56
03/02/44	NA	NA	868.56
03/03/44	NA	NA	868.56
03/04/44	NA	NA	868.73
03/05/44	NA	NA	868.73
03/06/44	NA	NA	868.61
03/07/44	NA	NA	870.33
03/08/44	NA	NA	870.31
03/09/44	NA	NA	870.31
03/10/44	NA	NA	870.31
03/11/44	NA	NA	870.31
03/12/44	NA	NA	870.31
03/13/44	NA	NA	870.31
03/14/44	NA	NA	870.31
03/15/44	NA	NA	870.31
03/16/44	NA	NA	870.31
03/17/44	NA	NA	870.31
03/18/44	NA	NA	870.31
03/19/44	NA	NA	870.31
03/20/44	NA	NA	870.31
03/21/44	NA	NA	870.31
03/22/44	NA	NA	870.31
03/23/44	NA	NA	870.31
03/24/44	NA	NA	870.31
03/25/44	NA	NA	870.31

CB = Cass Bore
WB = Wood Bore
RH = Rosehouse
NA = Not Available

Date	OOMR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
09/30/44	NA	NA	868.31
10/1/44	NA	NA	868.23
10/2/44	NA	NA	868.23
10/3/44	NA	NA	868.31
10/4/44	NA	NA	868.31
10/5/44	NA	NA	868.31
10/6/44	NA	NA	868.31
10/7/44	NA	NA	868.31
10/8/44	NA	NA	868.31
10/9/44	NA	NA	868.31
10/10/44	NA	NA	868.31
10/11/44	NA	NA	868.23
10/12/44	NA	NA	868.23
10/13/44	NA	NA	868.23
10/14/44	NA	NA	868.23
10/15/44	NA	NA	868.23
10/16/44	NA	NA	868.23
10/17/44	NA	NA	868.23
10/18/44	NA	NA	868.23
10/19/44	NA	NA	868.23
10/20/44	NA	NA	868.23
10/21/44	NA	NA	868.14
10/22/44	NA	NA	868.14
10/23/44	NA	NA	868.14
10/24/44	NA	NA	868.14
10/25/44	NA	NA	868.14
10/26/44	NA	NA	868.14
10/27/44	NA	NA	868.14
10/28/44	NA	NA	868.14
10/29/44	NA	NA	868.14
10/30/44	NA	NA	868.14
10/31/44	NA	NA	868.14
11/1/44	NA	NA	868.05
11/2/44	NA	NA	868.05
11/3/44	NA	NA	868.05
11/4/44	NA	NA	868.05
11/5/44	NA	NA	868.05
11/6/44	NA	NA	868.05
11/7/44	NA	NA	868.05
11/8/44	NA	NA	868.05
11/9/44	NA	NA	868.05
11/10/44	NA	NA	868.05
11/11/44	NA	NA	868.05
11/12/44	NA	NA	867.95
11/13/44	NA	NA	867.95
11/14/44	NA	NA	867.95
11/15/44	NA	NA	868.05
11/16/44	NA	NA	868.05
11/17/44	NA	NA	868.05
11/18/44	NA	NA	868.05
11/19/44	NA	NA	868.05
11/20/44	NA	NA	868.05
11/21/44	NA	NA	868.05
11/22/44	NA	NA	868.05
11/23/44	NA	NA	868.14
11/24/44	NA	NA	868.14
11/25/44	NA	NA	868.14
11/26/44	NA	NA	868.14
11/27/44	NA	NA	868.14
11/28/44	NA	NA	868.14
11/29/44	NA	NA	868.14
11/30/44	NA	NA	868.14
12/1/44	NA	NA	868.14
12/2/44	NA	NA	868.14
12/3/44	NA	NA	868.14
12/4/44	NA	NA	868.14
12/5/44	NA	NA	868.14
12/6/44	NA	NA	868.14
12/7/44	NA	NA	868.14
12/8/44	NA	NA	868.14
12/9/44	NA	NA	868.14
12/10/44	NA	NA	868.14
12/11/44	NA	NA	868.14
12/12/44	NA	NA	868.14
12/13/44	NA	NA	868.14
12/14/44	NA	NA	868.14
12/15/44	NA	NA	868.14
12/16/44	NA	NA	868.14
12/17/44	NA	NA	868.14
12/18/44	NA	NA	868.14
12/19/44	NA	NA	868.14
12/20/44	NA	NA	868.14
12/21/44	NA	NA	868.14
12/22/44	NA	NA	868.14
12/23/44	NA	NA	868.14
12/24/44	NA	NA	868.14
12/25/44	NA	NA	868.14
12/26/44	NA	NA	868.14
12/27/44	NA	NA	868.14
12/28/44	NA	NA	868.14
12/29/44	NA	NA	868.14
12/30/44	NA	NA	868.14
12/31/44	NA	NA	868.14
01/01/45	NA	NA	868.14
01/02/45	NA	NA	868.14
01/03/45	NA	NA	868.14
01/04/45	NA	NA	868.14
01/05/45	NA	NA	868.14
01/06/45	NA	NA	868.14
01/07/45	NA	NA	868.14
01/08/45	NA	NA	868.14
01/09/45	NA	NA	868.14
01/10/45	NA	NA	868.14
01/11/45	NA	NA	868.14
01/12/45	NA	NA	868.14
01/13/45	NA	NA	868.14
01/14/45	NA	NA	868.14
01/15/45	NA	NA	868.14
01/16/45	NA	NA	868.14
01/17/45	NA	NA	868.14
01/18/45	NA	NA	868.05
01/19/45	NA	NA	868.05
01/20/45	NA	NA	868.05
01/21/45	NA	NA	868.05
01/22/45	NA	NA	868.05
01/23/45	NA	NA	868.05
01/24/45	NA	NA	868.05
01/25/45	NA	NA	868.05
01/26/45	NA	NA	868.05
01/27/45	NA	NA	868.05
01/28/45	NA	NA	868.05
01/29/45	NA	NA	868.05
01/30/45	NA	NA	868.05
01/31/45	NA	NA	868.05
02/01/45	NA	NA	868.05
02/02/45	NA	NA	868.05
02/03/45	NA	NA	868.05
02/04/45	NA	NA	868.05
02/05/45	NA	NA	868.05
02/06/45	NA	NA	867.98
02/07/45	NA	NA	867.98
02/08/45	NA	NA	867.98
02/09/45	NA	NA	867.98
02/10/45	NA	NA	867.98
02/11/45	NA	NA	867.98
02/12/45	NA	NA	867.98
02/13/45	NA	NA	867.98
02/14/45	NA	NA	867.98
02/15/45	NA	NA	868.06
02/16/45	NA	NA	868.14
02/17/45	NA	NA	868.14
02/18/45	NA	NA	868.14
02/19/45	NA	NA	868.14
02/20/45	NA	NA	868.14
02/21/45	NA	NA	868.14
02/22/45	NA	NA	868.23
02/23/45	NA	NA	868.23
02/24/45	NA	NA	868.31
02/25/45	NA	NA	868.31
02/26/45	NA	NA	868.31
02/27/45	NA	NA	868.31
02/28/45	NA	NA	868.31
03/01/45	NA	NA	868.31
03/02/45	NA	NA	868.46
03/03/45	NA	NA	868.64
03/04/45	NA	NA	868.73
03/05/45	NA	NA	868.73
03/06/45	NA	NA	868.81
03/07/45	NA	NA	868.98
03/08/45	NA	NA	867.14
03/09/45	NA	NA	868.23
03/10/45	NA	NA	868.23
03/11/45	NA	NA	868.31
03/12/45	NA	NA	868.31
03/13/45	NA	NA	868.31
03/14/45	NA	NA	868.31
03/15/45	NA	NA	868.31
03/16/45	NA	NA	868.23
03/17/45	NA	NA	868.39
03/18/45	NA	NA	868.39
03/19/45	NA	NA	868.48
03/20/45	NA	NA	868.56
03/21/45	NA	NA	868.56
03/22/45	NA	NA	868.56
03/23/45	NA	NA	868.56
03/24/45	NA	NA	868.56
03/25/45	NA	NA	869.56
03/26/45	NA	NA	868.56
03/27/45	NA	NA	868.56
03/28/45	NA	NA	869.56
03/29/45	NA	NA	869.56
03/30/45	NA	NA	868.56
03/31/45	NA	NA	869.64
04/01/45	NA	NA	869.56
04/02/45	NA	NA	869.73
04/03/45	NA	NA	870.06
04/04/45	NA	NA	870.14
04/05/45	NA	NA	870.14

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	Donor Measurement (feet/ms)	Measurement Location	Lake Elevation (feet msl)
10/11/45	NA	NA	870.39
10/12/45	NA	NA	870.39
10/13/45	NA	NA	870.39
10/14/45	NA	NA	870.39
10/15/45	NA	NA	870.39
10/16/45	NA	NA	870.39
10/17/45	NA	NA	870.39
10/18/45	NA	NA	870.39
10/19/45	NA	NA	870.39
10/20/45	NA	NA	870.39
10/21/45	NA	NA	870.39
10/22/45	NA	NA	870.39
10/23/45	NA	NA	870.48
10/24/45	NA	NA	870.48
10/25/45	NA	NA	870.48
10/26/45	NA	NA	870.48
10/27/45	NA	NA	870.48
10/28/45	NA	NA	870.48
10/29/45	NA	NA	870.48
10/30/45	NA	NA	870.48
10/31/45	NA	NA	870.48
11/1/45	NA	NA	870.48
11/2/45	NA	NA	870.48
11/3/45	NA	NA	870.48
11/4/45	NA	NA	870.48
11/5/45	NA	NA	870.48
11/6/45	NA	NA	870.48
11/7/45	NA	NA	870.48
11/8/45	NA	NA	870.48
11/9/45	NA	NA	870.48
11/10/45	NA	NA	870.48
11/11/45	NA	NA	870.48
11/12/45	NA	NA	870.48
11/13/45	NA	NA	870.48
11/14/45	NA	NA	870.48
11/15/45	NA	NA	870.48
11/16/45	NA	NA	870.48
11/17/45	NA	NA	870.48
11/18/45	NA	NA	870.48
11/19/45	NA	NA	870.48
11/20/45	NA	NA	870.48
11/21/45	NA	NA	870.48
11/22/45	NA	NA	870.48
11/23/45	NA	NA	870.48
11/24/45	NA	NA	870.48
11/25/45	NA	NA	870.48
11/26/45	NA	NA	870.48
11/27/45	NA	NA	870.48
11/28/45	NA	NA	870.48
11/29/45	NA	NA	870.48
11/30/45	NA	NA	870.48
12/1/45	NA	NA	870.48
12/2/45	NA	NA	870.48
12/3/45	NA	NA	870.48
12/4/45	NA	NA	870.48
12/5/45	NA	NA	870.48
12/6/45	NA	NA	870.48
12/7/45	NA	NA	870.48
12/8/45	NA	NA	870.48
12/9/45	NA	NA	870.48
12/10/45	NA	NA	870.48
12/11/45	NA	NA	870.48
12/12/45	NA	NA	870.48
12/13/45	NA	NA	870.48
12/14/45	NA	NA	870.48
12/15/45	NA	NA	870.48
12/16/45	NA	NA	870.48
12/17/45	NA	NA	870.48
12/18/45	NA	NA	870.48
12/19/45	NA	NA	870.48
12/20/45	NA	NA	870.48
12/21/45	NA	NA	870.48
12/22/45	NA	NA	870.48
12/23/45	NA	NA	870.48
12/24/45	NA	NA	870.48
12/25/45	NA	NA	870.48
12/26/45	NA	NA	870.48
12/27/45	NA	NA	870.48
12/28/45	NA	NA	870.48
12/29/45	NA	NA	870.48
12/30/45	NA	NA	870.48
12/31/45	NA	NA	870.48
01/1/46	NA	NA	870.48
01/2/46	NA	NA	870.48
01/3/46	NA	NA	870.48
01/4/46	NA	NA	870.48
01/5/46	NA	NA	870.48
01/6/46	NA	NA	870.48
01/7/46	NA	NA	870.48
01/8/46	NA	NA	870.48
01/9/46	NA	NA	870.48
01/10/46	NA	NA	870.48
01/11/46	NA	NA	870.48
01/12/46	NA	NA	870.48
01/13/46	NA	NA	870.48
01/14/46	NA	NA	870.48
01/15/46	NA	NA	870.48
01/16/46	NA	NA	870.48
01/17/46	NA	NA	870.48
01/18/46	NA	NA	870.48
01/19/46	NA	NA	870.48
01/20/46	NA	NA	870.48
01/21/46	NA	NA	870.48
01/22/46	NA	NA	870.48
01/23/46	NA	NA	870.48
01/24/46	NA	NA	870.48
01/25/46	NA	NA	870.48
01/26/46	NA	NA	870.48
01/27/46	NA	NA	870.48
01/28/46	NA	NA	870.48
01/29/46	NA	NA	870.48
01/30/46	NA	NA	870.48
01/31/46	NA	NA	870.48
02/1/46	NA	NA	870.48
02/2/46	NA	NA	870.48
02/3/46	NA	NA	870.48
02/4/46	NA	NA	870.48
02/5/46	NA	NA	870.48
02/6/46	NA	NA	870.48
02/7/46	NA	NA	870.48
02/8/46	NA	NA	870.48
02/9/46	NA	NA	870.48
02/10/46	NA	NA	870.48
02/11/46	NA	NA	870.48
02/12/46	NA	NA	870.48
02/13/46	NA	NA	870.48
02/14/46	NA	NA	870.48
02/15/46	NA	NA	870.48
02/16/46	NA	NA	870.48
02/17/46	NA	NA	870.48
02/18/46	NA	NA	870.48
02/19/46	NA	NA	870.48
02/20/46	NA	NA	870.48
02/21/46	NA	NA	870.48
02/22/46	NA	NA	870.48
02/23/46	NA	NA	870.48
02/24/46	NA	NA	870.48
02/25/46	NA	NA	870.48
02/26/46	NA	NA	870.48
02/27/46	NA	NA	870.48
02/28/46	NA	NA	870.48
02/29/46	NA	NA	870.48
03/1/46	NA	NA	870.48
03/2/46	NA	NA	870.48
03/3/46	NA	NA	870.48
03/4/46	NA	NA	870.48
03/5/46	NA	NA	870.48
03/6/46	NA	NA	870.48
03/7/46	NA	NA	870.48
03/8/46	NA	NA	870.48
03/9/46	NA	NA	870.48
03/10/46	NA	NA	870.48
03/11/46	NA	NA	870.48
03/12/46	NA	NA	870.48
03/13/46	NA	NA	870.48
03/14/46	NA	NA	870.48
03/15/46	NA	NA	870.48
03/16/46	NA	NA	870.48
03/17/46	NA	NA	870.48
03/18/46	NA	NA	870.48
03/19/46	NA	NA	870.48
03/20/46	NA	NA	870.48
03/21/46	NA	NA	870.48
03/22/46	NA	NA	870.48
03/23/46	NA	NA	870.48
03/24/46	NA	NA	870.48
03/25/46	NA	NA	870.48
03/26/46	NA	NA	870.48
03/27/46	NA	NA	870.48
03/28/46	NA	NA	870.48
03/29/46	NA	NA	870.48
03/30/46	NA	NA	870.48
03/31/46	NA	NA	870.48
04/1/46	NA	NA	870.48
04/2/46	NA	NA	870.48
04/3/46	NA	NA	870.48
04/4/46	NA	NA	870.48
04/5/46	NA	NA	870.48
04/6/46	NA	NA	870.48
04/7/46	NA	NA	870.48
04/8/46	NA	NA	870.48
04/9/46	NA	NA	870.48
04/10/46	NA	NA	870.48
04/11/46	NA	NA	870.48
04/12/46	NA	NA	870.48
04/13/46	NA	NA	870.48
04/14/46	NA	NA	870.48
04/15/46	NA	NA	870.48
04/16/46	NA	NA	870.48

EB = East Bank
WB = West Bank
OH = Boathouse
NA = Not Available

Date	GDWR Measurement (inches)	Assessment Location	Lake Elevation (feet msl)
10/22/46	NA	NA	668.05
10/23/46	NA	NA	668.05
10/24/46	NA	NA	668.05
10/25/46	NA	NA	668.05
10/26/46	NA	NA	668.05
10/27/46	NA	NA	668.05
10/28/46	NA	NA	668.05
10/29/46	NA	NA	668.05
10/30/46	NA	NA	663.05
10/31/46	NA	NA	668.05
11/01/46	NA	NA	668.05
11/02/46	NA	NA	668.05
11/03/46	NA	NA	668.05
11/04/46	NA	NA	668.05
11/05/46	NA	NA	668.05
11/06/46	NA	NA	668.05
11/07/46	NA	NA	668.05
11/08/46	NA	NA	668.05
11/09/46	NA	NA	668.05
11/10/46	NA	NA	668.05
11/11/46	NA	NA	668.05
11/12/46	NA	NA	668.05
11/13/46	NA	NA	668.05
11/14/46	NA	NA	665.05
11/15/46	NA	NA	665.05
11/16/46	NA	NA	665.05
11/17/46	NA	NA	665.05
11/18/46	NA	NA	665.05
11/19/46	NA	NA	665.05
11/20/46	NA	NA	664.14
11/21/46	NA	NA	664.14
11/22/46	NA	NA	664.14
11/23/46	NA	NA	664.14
11/24/46	NA	NA	664.14
11/25/46	NA	NA	664.14
11/26/46	NA	NA	664.14
11/27/46	NA	NA	664.14
11/28/46	NA	NA	664.14
11/29/46	NA	NA	664.14
11/30/46	NA	NA	664.14
12/01/46	NA	NA	663.31
12/02/46	NA	NA	663.31
12/03/46	NA	NA	663.31
12/04/46	NA	NA	663.31
12/05/46	NA	NA	663.31
12/06/46	NA	NA	663.31
12/07/46	NA	NA	663.31
12/08/46	NA	NA	663.31
12/09/46	NA	NA	663.31
12/10/46	NA	NA	663.31
12/11/46	NA	NA	663.31
12/12/46	NA	NA	663.31
12/13/46	NA	NA	663.32
12/14/46	NA	NA	663.45
12/15/46	NA	NA	663.58
12/16/46	NA	NA	663.84
12/17/46	NA	NA	663.84
12/18/46	NA	NA	663.84
12/19/46	NA	NA	663.84
12/20/46	NA	NA	663.84
12/21/46	NA	NA	663.84
12/22/46	NA	NA	663.84
12/23/46	NA	NA	664.84
12/24/46	NA	NA	664.84
12/25/46	NA	NA	664.84
12/26/46	NA	NA	663.84
12/27/46	NA	NA	663.84
12/28/46	NA	NA	663.84
12/29/46	NA	NA	663.84
12/30/46	NA	NA	663.84
12/31/46	NA	NA	663.84
01/01/47	NA	NA	663.84
01/02/47	NA	NA	665.73
01/03/47	NA	NA	668.81
01/04/47	NA	NA	668.81
01/05/47	NA	NA	668.99
01/06/47	NA	NA	668.99
01/07/47	NA	NA	668.99
01/08/47	NA	NA	668.99
01/09/47	NA	NA	668.89
01/10/47	NA	NA	668.89
01/11/47	NA	NA	668.89
01/12/47	NA	NA	668.89
01/13/47	NA	NA	668.89
01/14/47	NA	NA	668.89
01/15/47	NA	NA	668.89
01/16/47	NA	NA	668.89
01/17/47	NA	NA	668.89
01/18/47	NA	NA	668.65
01/19/47	NA	NA	668.89
01/20/47	NA	NA	668.89
01/21/47	NA	NA	668.06
01/22/47	NA	NA	668.14
01/23/47	NA	NA	668.14
01/24/47	NA	NA	668.14
01/25/47	NA	NA	668.14
01/26/47	NA	NA	668.23
01/27/47	NA	NA	668.23
01/28/47	NA	NA	668.23
01/29/47	NA	NA	668.23
01/30/47	NA	NA	668.23
01/31/47	NA	NA	668.56
02/01/47	NA	NA	668.64
02/02/47	NA	NA	668.81
02/03/47	NA	NA	668.89
02/04/47	NA	NA	669.06
02/05/47	NA	NA	669.06
02/06/47	NA	NA	669.06
02/07/47	NA	NA	669.06
02/08/47	NA	NA	668.98
02/09/47	NA	NA	668.85
02/10/47	NA	NA	669.06
02/11/47	NA	NA	669.06
02/12/47	NA	NA	669.06
02/13/47	NA	NA	669.06
02/14/47	NA	NA	669.06
02/15/47	NA	NA	669.06
02/16/47	NA	NA	669.06
02/17/47	NA	NA	669.06
02/18/47	NA	NA	669.06
02/19/47	NA	NA	669.06
02/20/47	NA	NA	669.06
02/21/47	NA	NA	669.06
02/22/47	NA	NA	669.06
02/23/47	NA	NA	669.73
02/24/47	NA	NA	669.73
02/25/47	NA	NA	669.73
02/26/47	NA	NA	669.73
02/27/47	NA	NA	669.73
02/28/47	NA	NA	669.73
03/01/47	NA	NA	669.73
03/02/47	NA	NA	669.73
03/03/47	NA	NA	669.73
03/04/47	NA	NA	669.73
03/05/47	NA	NA	669.73
03/06/47	NA	NA	669.73
03/07/47	NA	NA	669.73
03/08/47	NA	NA	669.73
03/09/47	NA	NA	669.64
03/10/47	NA	NA	669.64
03/11/47	NA	NA	669.64
03/12/47	NA	NA	669.64
03/13/47	NA	NA	669.64
03/14/47	NA	NA	669.73
03/15/47	NA	NA	669.73
03/16/47	NA	NA	669.81
03/17/47	NA	NA	669.81
03/18/47	NA	NA	669.80
03/19/47	NA	NA	669.89
03/20/47	NA	NA	669.89
03/21/47	NA	NA	669.89
03/22/47	NA	NA	669.98
03/23/47	NA	NA	669.81
03/24/47	NA	NA	669.98
03/25/47	NA	NA	669.98
03/26/47	NA	NA	669.98
03/27/47	NA	NA	669.98
03/28/47	NA	NA	669.98
03/29/47	NA	NA	669.98
03/30/47	NA	NA	669.98
03/31/47	NA	NA	669.98
04/01/47	NA	NA	669.98
04/02/47	NA	NA	669.98
04/03/47	NA	NA	670.06
04/04/47	NA	NA	670.06
04/05/47	NA	NA	670.06
04/06/47	NA	NA	670.14
04/07/47	NA	NA	670.14
04/08/47	NA	NA	670.14
04/09/47	NA	NA	670.14
04/10/47	NA	NA	670.14
04/11/47	NA	NA	670.14
04/12/47	NA	NA	670.14
04/13/47	NA	NA	670.14
04/14/47	NA	NA	670.06
04/15/47	NA	NA	670.06
04/16/47	NA	NA	670.14
04/17/47	NA	NA	670.23
04/18/47	NA	NA	670.23
04/19/47	NA	NA	670.23
04/20/47	NA	NA	670.23
04/21/47	NA	NA	670.31
04/22/47	NA	NA	670.31
04/23/47	NA	NA	670.31
04/24/47	NA	NA	670.23
04/25/47	NA	NA	670.56
04/26/47	NA	NA	670.64
04/27/47	NA	NA	670.73

EB = East Bank
WB = West Bank
SH = Shoreline
NA = Not Available

Date	Gauge Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
11/8/47	NA	NA	869.38
11/9/47	NA	NA	869.38
11/10/47	NA	NA	869.38
11/11/47	NA	NA	869.38
11/12/47	NA	NA	869.38
11/13/47	NA	NA	869.38
11/14/47	NA	NA	869.38
11/15/47	NA	NA	869.38
11/16/47	NA	NA	869.38
11/17/47	NA	NA	869.38
11/18/47	NA	NA	869.38
11/19/47	NA	NA	869.38
11/20/47	NA	NA	869.38
11/21/47	NA	NA	869.38
11/22/47	NA	NA	869.38
11/23/47	NA	NA	869.38
11/24/47	NA	NA	869.38
11/25/47	NA	NA	869.38
11/26/47	NA	NA	869.38
11/27/47	NA	NA	869.38
11/28/47	NA	NA	869.38
11/29/47	NA	NA	869.38
11/30/47	NA	NA	869.06
12/1/47	NA	NA	869.06
12/2/47	NA	NA	869.06
12/3/47	NA	NA	869.06
12/4/47	NA	NA	869.06
12/5/47	NA	NA	869.06
12/6/47	NA	NA	869.06
12/7/47	NA	NA	869.06
12/8/47	NA	NA	869.06
12/9/47	NA	NA	869.06
12/10/47	NA	NA	869.06
12/11/47	NA	NA	868.88
12/12/47	NA	NA	868.96
12/13/47	NA	NA	868.96
12/14/47	NA	NA	868.96
12/15/47	NA	NA	868.93
12/16/47	NA	NA	868.88
12/17/47	NA	NA	868.96
12/18/47	NA	NA	868.98
12/19/47	NA	NA	868.96
12/20/47	NA	NA	868.89
12/21/47	NA	NA	868.89
12/22/47	NA	NA	868.89
12/23/47	NA	NA	868.89
12/24/47	NA	NA	868.89
12/25/47	NA	NA	868.89
12/26/47	NA	NA	868.89
12/27/47	NA	NA	868.89
12/28/47	NA	NA	868.81
12/29/47	NA	NA	868.81
12/30/47	NA	NA	868.81
12/31/47	NA	NA	868.81
01/01/48	NA	NA	868.81
01/02/48	NA	NA	868.81
01/03/48	NA	NA	868.06
01/04/48	NA	NA	868.14
01/05/48	NA	NA	868.14
01/06/48	NA	NA	868.14
01/07/48	NA	NA	868.14
01/08/48	NA	NA	868.14
01/09/48	NA	NA	868.14
01/10/48	NA	NA	868.14
01/11/48	NA	NA	868.14
01/12/48	NA	NA	868.06
01/13/48	NA	NA	868.06
01/14/48	NA	NA	868.06
01/15/48	NA	NA	868.06
01/16/48	NA	NA	868.06
01/17/48	NA	NA	868.06
01/18/48	NA	NA	868.06
01/19/48	NA	NA	868.53
01/20/48	NA	NA	868.96
01/21/48	NA	NA	868.96
01/22/48	NA	NA	868.38
01/23/48	NA	NA	868.91
01/24/48	NA	NA	868.98
01/25/48	NA	NA	868.98
01/26/48	NA	NA	868.98
01/27/48	NA	NA	868.89
01/28/48	NA	NA	868.89
01/29/48	NA	NA	868.89
01/30/48	NA	NA	868.89
01/31/48	NA	NA	868.81
02/01/48	NA	NA	868.83
02/02/48	NA	NA	868.81
02/03/48	NA	NA	868.81
02/04/48	NA	NA	868.81
02/05/48	NA	NA	868.81
02/06/48	NA	NA	868.81
02/07/48	NA	NA	868.89
02/08/48	NA	NA	868.73
02/09/48	NA	NA	868.73
02/10/48	NA	NA	868.73
02/11/48	NA	NA	868.73
02/12/48	NA	NA	868.64
02/13/48	NA	NA	868.64
02/14/48	NA	NA	868.73
02/15/48	NA	NA	868.81
02/16/48	NA	NA	868.73
02/17/48	NA	NA	868.98
02/18/48	NA	NA	869.06
02/19/48	NA	NA	869.06
02/20/48	NA	NA	869.14
02/21/48	NA	NA	869.14
02/22/48	NA	NA	869.14
02/23/48	NA	NA	869.06
02/24/48	NA	NA	869.06
02/25/48	NA	NA	869.06
02/26/48	NA	NA	869.14
02/27/48	NA	NA	869.14
02/28/48	NA	NA	869.14
02/29/48	NA	NA	869.14
03/01/48	NA	NA	869.23
03/02/48	NA	NA	868.31
03/03/48	NA	NA	868.31
03/04/48	NA	NA	869.31
03/05/48	NA	NA	869.31
03/06/48	NA	NA	869.31
03/07/48	NA	NA	869.31
03/08/48	NA	NA	869.31
03/09/48	NA	NA	869.31
03/10/48	NA	NA	869.31
03/11/48	NA	NA	869.31
03/12/48	NA	NA	869.31
03/13/48	NA	NA	869.31
03/14/48	NA	NA	869.31
03/15/48	NA	NA	869.31
03/16/48	NA	NA	869.39
03/17/48	NA	NA	869.48
03/18/48	NA	NA	869.48
03/19/48	NA	NA	869.56
03/20/48	NA	NA	869.64
03/21/48	NA	NA	869.64
03/22/48	NA	NA	869.73
03/23/48	NA	NA	869.73
03/24/48	NA	NA	869.69
03/25/48	NA	NA	870.06
03/26/48	NA	NA	870.31
03/27/48	NA	NA	870.31
03/28/48	NA	NA	870.39
03/29/48	NA	NA	870.48
03/30/48	NA	NA	870.48
03/31/48	NA	NA	870.48
04/01/48	NA	NA	870.48
04/02/48	NA	NA	870.48
04/03/48	NA	NA	870.48
04/04/48	NA	NA	870.43
04/05/48	NA	NA	870.48
04/06/48	NA	NA	870.64
04/07/48	NA	NA	870.64
04/08/48	NA	NA	870.73
04/09/48	NA	NA	870.73
04/10/48	NA	NA	870.73
04/11/48	NA	NA	870.81
04/12/48	NA	NA	870.98
04/13/48	NA	NA	871.06
04/14/48	NA	NA	871.31
04/15/48	NA	NA	871.39
04/16/48	NA	NA	871.39
04/17/48	NA	NA	871.39
04/18/48	NA	NA	871.39
04/19/48	NA	NA	871.31
04/20/48	NA	NA	871.31
04/21/48	NA	NA	871.31
04/22/48	NA	NA	871.23
04/23/48	NA	NA	871.23
04/24/48	NA	NA	871.14
04/25/48	NA	NA	871.06
04/26/48	NA	NA	871.06
04/27/48	NA	NA	870.98
04/28/48	NA	NA	870.98
04/29/48	NA	NA	870.98
04/30/48	NA	NA	870.89
05/01/48	NA	NA	870.89
05/02/48	NA	NA	870.89
05/03/48	NA	NA	871.14
05/04/48	NA	NA	871.14
05/05/48	NA	NA	871.14
05/06/48	NA	NA	871.14
05/07/48	NA	NA	871.23

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	OOHG Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
11/12/48	NA	NA	868.69
11/13/48	NA	NA	868.98
11/14/48	NA	NA	866.38
11/15/48	NA	NA	866.96
11/16/48	NA	NA	868.86
11/17/48	NA	NA	868.69
11/18/48	NA	NA	866.88
11/19/48	NA	NA	869.06
11/20/48	NA	NA	869.34
11/21/48	NA	NA	869.31
11/22/48	NA	NA	869.29
11/23/48	NA	NA	869.28
11/24/48	NA	NA	869.39
11/25/48	NA	NA	869.48
11/26/48	NA	NA	869.46
11/27/48	NA	NA	869.44
11/28/48	NA	NA	869.56
11/29/48	NA	NA	869.64
11/30/48	NA	NA	868.73
12/01/48	NA	NA	869.73
12/02/48	NA	NA	869.73
12/03/48	NA	NA	869.73
12/04/48	NA	NA	869.73
12/05/48	NA	NA	868.73
12/06/48	NA	NA	868.73
12/07/48	NA	NA	869.73
12/08/48	NA	NA	869.73
12/09/48	NA	NA	869.73
12/10/48	NA	NA	869.73
12/11/48	NA	NA	869.73
12/12/48	NA	NA	869.73
12/13/48	NA	NA	869.73
12/14/48	NA	NA	869.77
12/15/48	NA	NA	870.33
12/16/48	NA	NA	870.48
12/17/48	NA	NA	870.52
12/18/48	NA	NA	870.58
12/19/48	NA	NA	870.56
12/20/48	NA	NA	870.58
12/21/48	NA	NA	870.56
12/22/48	NA	NA	870.56
12/23/48	NA	NA	870.56
12/24/48	NA	NA	870.56
12/25/48	NA	NA	870.56
12/26/48	NA	NA	870.56
12/27/48	NA	NA	870.56
12/28/48	NA	NA	870.56
12/29/48	NA	NA	870.56
12/30/48	NA	NA	870.64
12/31/48	NA	NA	870.64
01/01/49	NA	NA	870.64
01/02/49	NA	NA	870.64
01/03/49	NA	NA	870.64
01/04/49	NA	NA	870.64
01/05/49	NA	NA	870.64
01/06/49	NA	NA	870.64
01/07/49	NA	NA	870.64
01/08/49	NA	NA	870.64
01/09/49	NA	NA	870.64
01/10/49	NA	NA	870.64
01/11/49	NA	NA	870.64
01/12/49	NA	NA	870.64
01/13/49	NA	NA	870.64
01/14/49	NA	NA	870.64
01/15/49	NA	NA	870.64
01/16/49	NA	NA	870.64
01/17/49	NA	NA	870.64
01/18/49	NA	NA	870.64
01/19/49	NA	NA	870.64
01/20/49	NA	NA	870.64
01/21/49	NA	NA	870.64
01/22/49	NA	NA	870.64
01/23/49	NA	NA	870.64
01/24/49	NA	NA	870.64
01/25/49	NA	NA	870.64
01/26/49	NA	NA	870.64
01/27/49	NA	NA	870.64
01/28/49	NA	NA	870.64
01/29/49	NA	NA	870.64
01/30/49	NA	NA	870.64
01/31/49	NA	NA	870.64
02/01/49	NA	NA	870.64
02/02/49	NA	NA	870.64
02/03/49	NA	NA	870.64
02/04/49	NA	NA	870.64
02/05/49	NA	NA	870.64
02/06/49	NA	NA	870.64
02/07/49	NA	NA	870.64
02/08/49	NA	NA	870.64
02/09/49	NA	NA	870.64
02/10/49	NA	NA	870.64
02/11/49	NA	NA	870.64
02/12/49	NA	NA	870.64
02/13/49	NA	NA	870.64
02/14/49	NA	NA	870.64
02/15/49	NA	NA	870.64
02/16/49	NA	NA	870.64
02/17/49	NA	NA	870.64
02/18/49	NA	NA	870.64
02/19/49	NA	NA	870.64
02/20/49	NA	NA	870.64
02/21/49	NA	NA	870.64
02/22/49	NA	NA	870.64
02/23/49	NA	NA	870.64
02/24/49	NA	NA	870.64
02/25/49	NA	NA	870.64
02/26/49	NA	NA	870.64
02/27/49	NA	NA	870.64
02/28/49	NA	NA	870.64
03/01/49	NA	NA	870.64
03/02/49	NA	NA	870.64
03/03/49	NA	NA	870.64
03/04/49	NA	NA	870.64
03/05/49	NA	NA	870.64
03/06/49	NA	NA	870.64
03/07/49	NA	NA	870.64
03/08/49	NA	NA	870.64
03/09/49	NA	NA	870.64
03/10/49	NA	NA	870.64
03/11/49	NA	NA	870.64
03/12/49	NA	NA	870.64
03/13/49	NA	NA	870.64
03/14/49	NA	NA	870.64
03/15/49	NA	NA	870.64
03/16/49	NA	NA	870.64
03/17/49	NA	NA	870.64
03/18/49	NA	NA	870.64
03/19/49	NA	NA	870.64
03/20/49	NA	NA	870.64
03/21/49	NA	NA	870.64
03/22/49	NA	NA	870.64
03/23/49	NA	NA	870.64
03/24/49	NA	NA	870.64
03/25/49	NA	NA	870.64
03/26/49	NA	NA	870.64
03/27/49	NA	NA	870.64
03/28/49	NA	NA	870.64
03/29/49	NA	NA	870.64
03/30/49	NA	NA	870.64
03/31/49	NA	NA	870.64
04/01/49	NA	NA	870.64
04/02/49	NA	NA	870.64
04/03/49	NA	NA	870.64
04/04/49	NA	NA	870.64
04/05/49	NA	NA	870.64
04/06/49	NA	NA	870.64
04/07/49	NA	NA	870.64
04/08/49	NA	NA	870.64
04/09/49	NA	NA	870.64
04/10/49	NA	NA	870.64
04/11/49	NA	NA	870.64
04/12/49	NA	NA	870.64
04/13/49	NA	NA	870.64
04/14/49	NA	NA	870.64
04/15/49	NA	NA	870.64
04/16/49	NA	NA	870.64
04/17/49	NA	NA	870.64
04/18/49	NA	NA	870.64
04/19/49	NA	NA	870.64
04/20/49	NA	NA	870.64
04/21/49	NA	NA	870.64
04/22/49	NA	NA	870.64
04/23/49	NA	NA	870.64
04/24/49	NA	NA	870.64
04/25/49	NA	NA	870.64
04/26/49	NA	NA	870.64
04/27/49	NA	NA	870.64
04/28/49	NA	NA	870.64
04/29/49	NA	NA	870.64
04/30/49	NA	NA	870.64
05/01/49	NA	NA	870.64
05/02/49	NA	NA	870.64
05/03/49	NA	NA	870.64
05/04/49	NA	NA	870.64
05/05/49	NA	NA	870.64
05/06/49	NA	NA	870.64
05/07/49	NA	NA	870.64
05/08/49	NA	NA	870.64
05/09/49	NA	NA	870.64
05/10/49	NA	NA	870.64
05/11/49	NA	NA	870.64
05/12/49	NA	NA	870.64
05/13/49	NA	NA	870.64
05/14/49	NA	NA	870.64
05/15/49	NA	NA	870.64
05/16/49	NA	NA	870.64
05/17/49	NA	NA	870.64
05/18/49	NA	NA	870.64

EB = East Bank
WB = West Bank
SH = Shoal Reader
NA = Not Available

Date	GDWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
11/23/48	NA	NA	868.91
11/24/48	NA	NA	868.73
11/25/48	NA	NA	868.73
11/26/48	NA	NA	868.73
11/27/48	NA	NA	868.73
11/28/48	NA	NA	868.73
11/29/48	NA	NA	868.15
11/30/48	NA	NA	868.13
12/01/48	NA	NA	868.33
12/02/48	NA	NA	867.69
12/03/48	NA	NA	868.69
12/04/48	NA	NA	868.69
12/05/48	NA	NA	868.69
12/06/48	NA	NA	868.84
12/07/48	NA	NA	868.84
12/08/48	NA	NA	868.84
12/09/48	NA	NA	868.84
12/10/48	NA	NA	868.84
12/11/48	NA	NA	868.84
12/12/48	NA	NA	868.84
12/13/48	NA	NA	868.84
12/14/48	NA	NA	868.84
12/15/48	NA	NA	868.99
12/16/48	NA	NA	868.99
12/17/48	NA	NA	868.99
12/18/48	NA	NA	868.99
12/19/48	NA	NA	868.99
12/20/48	NA	NA	868.99
12/21/48	NA	NA	868.99
12/22/48	NA	NA	868.99
12/23/48	NA	NA	868.73
12/24/48	NA	NA	868.73
12/25/48	NA	NA	868.73
12/26/48	NA	NA	868.77
12/27/48	NA	NA	868.77
12/28/48	NA	NA	868.77
12/29/48	NA	NA	868.81
12/30/48	NA	NA	868.81
12/31/48	NA	NA	868.81
01/01/49	NA	NA	868.81
01/02/49	NA	NA	868.85
01/03/49	NA	NA	868.81
01/04/49	NA	NA	869.48
01/05/49	NA	NA	869.98
01/06/49	NA	NA	870.06
01/07/49	NA	NA	870.14
01/08/49	NA	NA	870.23
01/09/49	NA	NA	870.31
01/10/49	NA	NA	870.48
01/11/49	NA	NA	870.72
01/12/49	NA	NA	870.81
01/13/49	NA	NA	870.89
01/14/49	NA	NA	871.06
01/15/49	NA	NA	871.14
01/16/49	NA	NA	871.14
01/17/49	NA	NA	871.14
01/18/49	NA	NA	871.10
01/19/49	NA	NA	871.10
01/20/49	NA	NA	871.06
01/21/49	NA	NA	871.06
01/22/49	NA	NA	871.02
01/23/49	NA	NA	871.02
01/24/49	NA	NA	870.98
01/25/49	NA	NA	871.14
01/26/49	NA	NA	871.31
01/27/49	NA	NA	871.39
01/28/49	NA	NA	871.39
01/29/49	NA	NA	871.52
01/30/49	NA	NA	871.56
01/31/49	NA	NA	871.56
02/01/49	NA	NA	871.31
02/02/49	NA	NA	871.27
02/03/49	NA	NA	871.23
02/04/49	NA	NA	871.18
02/05/49	NA	NA	871.14
02/06/49	NA	NA	871.10
02/07/49	NA	NA	871.06
02/08/49	NA	NA	871.06
02/09/49	NA	NA	871.23
02/10/49	NA	NA	871.23
02/11/49	NA	NA	871.23
02/12/49	NA	NA	871.23
02/13/49	NA	NA	871.64
02/14/49	NA	NA	871.98
02/15/49	NA	NA	872.06
02/16/49	NA	NA	872.23
02/17/49	NA	NA	872.35
02/18/49	NA	NA	872.19
02/19/49	NA	NA	872.19
02/20/49	NA	NA	872.14
02/21/49	NA	NA	872.14
02/22/49	NA	NA	872.10
02/23/49	NA	NA	872.10
02/24/49	NA	NA	872.06
02/25/49	NA	NA	872.02
02/26/49	NA	NA	871.98
02/27/49	NA	NA	871.94
02/28/49	NA	NA	871.89
03/01/49	NA	NA	871.85
03/02/49	NA	NA	871.85
03/03/49	NA	NA	871.91
03/04/49	NA	NA	871.77
03/05/49	NA	NA	871.73
03/06/49	NA	NA	871.68
03/07/49	NA	NA	871.64
03/08/49	NA	NA	871.60
03/09/49	NA	NA	871.56
03/10/49	NA	NA	871.52
03/11/49	NA	NA	871.52
03/12/49	NA	NA	871.53
03/13/49	NA	NA	871.48
03/14/49	NA	NA	871.48
03/15/49	NA	NA	871.44
03/16/49	NA	NA	871.44
03/17/49	NA	NA	871.39
03/18/49	NA	NA	871.39
03/19/49	NA	NA	871.34
03/20/49	NA	NA	871.35
03/21/49	NA	NA	871.30
03/22/49	NA	NA	871.35
03/23/49	NA	NA	871.35
03/24/49	NA	NA	871.31
03/25/49	NA	NA	871.31
03/26/49	NA	NA	871.31
03/27/49	NA	NA	871.31
03/28/49	NA	NA	871.39
03/29/49	NA	NA	871.44
03/30/49	NA	NA	871.44
03/31/49	NA	NA	871.39
04/01/49	NA	NA	871.34
04/02/49	NA	NA	871.35
04/03/49	NA	NA	871.35
04/04/49	NA	NA	871.35
04/05/49	NA	NA	871.35
04/06/49	NA	NA	871.31
04/07/49	NA	NA	871.27
04/08/49	NA	NA	871.23
04/09/49	NA	NA	871.19
04/10/49	NA	NA	871.14
04/11/49	NA	NA	871.14
04/12/49	NA	NA	871.10
04/13/49	NA	NA	871.06
04/14/49	NA	NA	871.06
04/15/49	NA	NA	870.98
04/16/49	NA	NA	870.94
04/17/49	NA	NA	870.89
04/18/49	NA	NA	870.85
04/19/49	NA	NA	870.81
04/20/49	NA	NA	870.77
04/21/49	NA	NA	870.73
04/22/49	NA	NA	870.73
04/23/49	NA	NA	870.69
04/24/49	NA	NA	870.64
04/25/49	NA	NA	870.60
04/26/49	NA	NA	870.60
04/27/49	NA	NA	870.68
04/28/49	NA	NA	870.56
04/29/49	NA	NA	870.52
04/30/49	NA	NA	870.52
05/01/49	NA	NA	870.64
05/02/49	NA	NA	870.64
05/03/49	NA	NA	870.64
05/04/49	NA	NA	870.60
05/05/49	NA	NA	870.60
05/06/49	NA	NA	870.60
05/07/49	NA	NA	870.56
05/08/49	NA	NA	870.56
05/09/49	NA	NA	870.56
05/10/49	NA	NA	870.52
05/11/49	NA	NA	870.52
05/12/49	NA	NA	870.52
05/13/49	NA	NA	870.52
05/14/49	NA	NA	870.48
05/15/49	NA	NA	870.48
05/16/49	NA	NA	870.48
05/17/49	NA	NA	870.48
05/18/49	NA	NA	870.43
05/19/49	NA	NA	870.43
05/20/49	NA	NA	870.43
05/21/49	NA	NA	870.43
05/22/49	NA	NA	870.39
05/23/49	NA	NA	870.43
05/24/49	NA	NA	870.43
05/25/49	NA	NA	870.41
05/26/49	NA	NA	870.39
05/27/49	NA	NA	870.39
05/28/49	NA	NA	870.35

EG = East Gate
WG = West Gate
Ch = Breakwater
NA = Not Available

Date	CDNR Measurement [inches]	Measurement Location	Lake Elevation [feet msl]
12/04/50	NA	EA	868.96
12/05/50	NA	EA	870.02
12/06/50	NA	NA	870.05
12/07/50	NA	EA	870.14
12/08/50	NA	NA	870.23
12/09/50	NA	NA	870.28
12/10/50	NA	EA	870.23
12/11/50	NA	EA	870.23
12/12/50	NA	NA	870.28
12/13/50	NA	EA	870.19
12/14/50	NA	EA	870.18
12/15/50	NA	NA	870.14
12/16/50	NA	NA	870.14
12/17/50	NA	EA	870.10
12/18/50	NA	NA	870.10
12/19/50	NA	EA	870.06
12/20/50	NA	NA	870.06
12/21/50	NA	NA	870.02
12/22/50	NA	NA	870.02
12/23/50	NA	NA	869.94
12/24/50	NA	NA	869.94
12/25/50	NA	NA	869.89
12/26/50	NA	NA	869.85
12/27/50	NA	EA	868.81
12/28/50	NA	NA	868.77
12/29/50	NA	EA	868.73
12/30/50	NA	NA	868.69
12/31/50	NA	NA	868.64
01/01/51	NA	NA	868.60
01/02/51	NA	NA	868.56
01/03/51	NA	NA	868.56
01/04/51	NA	NA	868.65
01/05/51	NA	NA	868.85
01/06/51	NA	NA	868.89
01/07/51	NA	NA	868.89
01/08/51	NA	NA	868.85
01/09/51	NA	NA	868.85
01/10/51	NA	NA	869.81
01/11/51	NA	NA	868.81
01/12/51	NA	NA	868.81
01/13/51	NA	NA	868.81
01/14/51	NA	NA	868.81
01/15/51	NA	NA	868.81
01/16/51	NA	NA	868.89
01/17/51	NA	NA	868.94
01/18/51	NA	NA	868.94
01/19/51	NA	NA	868.94
01/20/51	NA	NA	869.94
01/21/51	NA	NA	868.94
01/22/51	NA	NA	868.69
01/23/51	NA	NA	868.89
01/24/51	NA	NA	868.85
01/25/51	NA	NA	868.85
01/26/51	NA	NA	868.81
01/27/51	NA	NA	868.81
01/28/51	NA	NA	868.77
01/29/51	NA	NA	868.73
01/30/51	NA	NA	868.69
01/31/51	NA	NA	868.64
02/01/51	NA	NA	868.64
02/02/51	NA	NA	868.64
02/03/51	NA	NA	868.64
02/04/51	NA	NA	868.60
02/05/51	NA	NA	868.56
02/06/51	NA	NA	868.56
02/07/51	NA	NA	868.52
02/08/51	NA	NA	868.35
02/09/51	NA	NA	868.35
02/10/51	NA	NA	868.31
02/11/51	NA	NA	868.27
02/12/51	NA	NA	868.27
02/13/51	NA	NA	868.27
02/14/51	NA	NA	868.31
02/15/51	NA	NA	868.31
02/16/51	NA	NA	868.31
02/17/51	NA	NA	868.31
02/18/51	NA	NA	868.23
02/19/51	NA	NA	868.19
02/20/51	NA	NA	868.14
02/21/51	NA	NA	868.73
02/22/51	NA	NA	869.69
02/23/51	NA	NA	869.89
02/24/51	NA	NA	869.89
02/25/51	NA	NA	869.87
02/26/51	NA	NA	868.85
02/27/51	NA	NA	868.46
02/28/51	NA	NA	868.81
03/01/51	NA	NA	868.81
03/02/51	NA	NA	868.77
03/03/51	NA	NA	868.77
03/04/51	NA	NA	868.73
03/05/51	NA	NA	868.69
03/06/51	NA	NA	868.64
03/07/51	NA	NA	868.64
03/08/51	NA	NA	868.64
03/09/51	NA	NA	868.60
03/10/51	NA	NA	868.60
03/11/51	NA	NA	868.58
03/12/51	NA	NA	868.56
03/13/51	NA	NA	868.69
03/14/51	NA	NA	868.89
03/15/51	NA	NA	868.27
03/16/51	NA	NA	869.27
03/17/51	NA	NA	869.27
03/18/51	NA	NA	869.27
03/19/51	NA	NA	869.81
03/19/51	NA	NA	869.85
03/20/51	NA	NA	869.86
03/21/51	NA	NA	869.85
03/22/51	NA	NA	869.85
03/23/51	NA	NA	869.85
03/24/51	NA	NA	869.88
03/25/51	NA	NA	869.89
03/26/51	NA	NA	869.94
03/27/51	NA	NA	869.94
03/28/51	NA	NA	869.94
03/29/51	NA	NA	869.98
03/30/51	NA	NA	869.98
03/31/51	NA	NA	870.06
04/01/51	NA	NA	870.06
04/02/51	NA	NA	870.06
04/03/51	NA	NA	870.10
04/04/51	NA	NA	870.10
04/05/51	NA	NA	870.14
04/06/51	NA	NA	870.19
04/07/51	NA	NA	870.19
04/08/51	NA	NA	870.19
04/09/51	NA	NA	870.19
04/10/51	NA	NA	870.19
04/11/51	NA	NA	870.19
04/12/51	NA	NA	870.19
04/13/51	NA	NA	870.19
04/14/51	NA	NA	870.23
04/15/51	NA	NA	870.23
04/16/51	NA	NA	870.27
04/17/51	NA	NA	870.31
04/18/51	NA	NA	870.31
04/19/51	NA	NA	870.31
04/20/51	NA	NA	870.31
04/21/51	NA	NA	870.31
04/22/51	NA	NA	870.31
04/23/51	NA	NA	870.32
04/24/51	NA	NA	870.33
04/25/51	NA	NA	870.39
04/26/51	NA	NA	870.39
04/27/51	NA	NA	870.43
04/28/51	NA	NA	870.43
04/29/51	NA	NA	870.43
04/30/51	NA	NA	870.48
05/01/51	NA	NA	870.48
05/02/51	NA	NA	870.48
05/03/51	NA	NA	870.51
05/04/51	NA	NA	870.51
05/05/51	NA	NA	870.51
05/06/51	NA	NA	870.51
05/07/51	NA	NA	870.51
05/08/51	NA	NA	870.51
05/09/51	NA	NA	870.51
05/10/51	NA	NA	870.51
05/11/51	NA	NA	870.58
05/12/51	NA	NA	870.58
05/13/51	NA	NA	870.58
05/14/51	NA	NA	870.58
05/15/51	NA	NA	870.58
05/16/51	NA	NA	870.58
05/17/51	NA	NA	870.94
05/18/51	NA	NA	870.94
05/19/51	NA	NA	870.94
05/20/51	NA	NA	870.94
05/21/51	NA	NA	870.89
05/22/51	NA	NA	870.89
05/23/51	NA	NA	870.89
05/24/51	NA	NA	870.89
05/25/51	NA	NA	870.85
05/26/51	NA	NA	870.85
05/27/51	NA	NA	870.81
05/28/51	NA	NA	870.81
05/29/51	NA	NA	870.81
05/30/51	NA	NA	870.77
05/31/51	NA	NA	870.77
06/01/51	NA	NA	870.77
06/02/51	NA	NA	870.77
06/03/51	NA	NA	870.77
06/04/51	NA	NA	870.77
06/05/51	NA	NA	870.77
06/06/51	NA	NA	870.77
06/07/51	NA	NA	870.77
06/08/51	NA	NA	870.77
06/09/51	NA	NA	870.77

EB = East Bank
WB = West Bank
BN = Both Ends
NA = Not Available

Date	OSHR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
12/16/51	NA	NA	868.39
12/16/51	NA	NA	868.39
12/17/51	NA	NA	869.39
12/18/51	NA	NA	869.39
12/19/51	NA	NA	869.35
12/20/51	NA	NA	868.39
12/21/51	NA	NA	868.38
12/22/51	NA	NA	868.38
12/23/51	NA	NA	868.38
12/24/51	NA	NA	868.38
12/25/51	NA	NA	869.38
12/26/51	NA	NA	869.38
12/27/51	NA	NA	869.38
12/28/51	NA	NA	868.38
12/29/51	NA	NA	868.44
12/30/51	NA	NA	868.52
12/31/51	NA	NA	868.56
01/01/52	NA	NA	868.56
01/02/52	NA	NA	868.56
01/03/52	NA	NA	868.56
01/04/52	NA	NA	868.56
01/05/52	NA	NA	868.56
01/06/52	NA	NA	868.56
01/07/52	NA	NA	867.56
01/08/52	NA	NA	868.56
01/09/52	NA	NA	868.52
01/10/52	NA	NA	868.52
01/11/52	NA	NA	868.48
01/12/52	NA	NA	868.45
01/13/52	NA	NA	868.41
01/14/52	NA	NA	868.45
01/15/52	NA	NA	868.48
01/16/52	NA	NA	868.48
01/17/52	NA	NA	868.58
01/18/52	NA	NA	870.06
01/19/52	NA	NA	870.06
01/20/52	NA	NA	870.14
01/21/52	NA	NA	870.14
01/22/52	NA	NA	870.14
01/23/52	NA	NA	870.14
01/24/52	NA	NA	870.14
01/25/52	NA	NA	870.14
01/26/52	NA	NA	868.68
01/27/52	NA	NA	870.84
01/28/52	NA	NA	870.88
01/29/52	NA	NA	870.88
01/30/52	NA	NA	870.88
01/31/52	NA	NA	870.89
02/01/52	NA	NA	870.84
02/02/52	NA	NA	870.84
02/03/52	NA	NA	870.80
02/04/52	NA	NA	870.65
02/05/52	NA	NA	870.69
02/06/52	NA	NA	870.69
02/07/52	NA	NA	870.65
02/08/52	NA	NA	870.51
02/09/52	NA	NA	870.37
02/10/52	NA	NA	870.73
02/11/52	NA	NA	870.69
02/12/52	NA	NA	870.64
02/13/52	NA	NA	870.60
02/14/52	NA	NA	870.56
02/15/52	NA	NA	870.52
02/16/52	NA	NA	870.48
02/17/52	NA	NA	870.43
02/18/52	NA	NA	870.39
02/19/52	NA	NA	870.39
02/20/52	NA	NA	870.35
02/21/52	NA	NA	870.41
02/22/52	NA	NA	870.46
02/23/52	NA	NA	870.45
02/24/52	NA	NA	870.43
02/25/52	NA	NA	870.39
02/26/52	NA	NA	870.35
02/27/52	NA	NA	870.31
02/28/52	NA	NA	870.27
02/29/52	NA	NA	870.23
03/01/52	NA	NA	870.23
03/02/52	NA	NA	870.18
03/03/52	NA	NA	870.18
03/04/52	NA	NA	870.14
03/05/52	NA	NA	870.10
03/06/52	NA	NA	870.06
03/07/52	NA	NA	870.02
03/08/52	NA	NA	870.02
03/09/52	NA	NA	870.02
03/10/52	NA	NA	870.02
03/11/52	NA	NA	869.98
03/12/52	NA	NA	870.00
03/13/52	NA	NA	870.00
03/14/52	NA	NA	870.04
03/15/52	NA	NA	870.06
03/16/52	NA	NA	870.33
03/17/52	NA	NA	870.52
03/18/52	NA	NA	870.32
03/19/52	NA	NA	870.52
03/20/52	NA	NA	870.56
03/21/52	NA	NA	870.56
03/22/52	NA	NA	870.56
03/23/52	NA	NA	870.52
03/24/52	NA	NA	870.48
03/25/52	NA	NA	870.48
03/26/52	NA	NA	870.43
03/27/52	NA	NA	870.43
03/28/52	NA	NA	870.39
03/29/52	NA	NA	870.35
03/30/52	NA	NA	870.31
03/31/52	NA	NA	870.31
04/01/52	NA	NA	870.31
04/02/52	NA	NA	870.12
04/03/52	NA	NA	870.23
04/04/52	NA	NA	870.27
04/05/52	NA	NA	870.35
04/06/52	NA	NA	870.31
04/07/52	NA	NA	870.31
04/08/52	NA	NA	870.31
04/09/52	NA	NA	870.27
04/10/52	NA	NA	870.27
04/11/52	NA	NA	870.23
04/12/52	NA	NA	870.18
04/13/52	NA	NA	870.19
04/14/52	NA	NA	870.64
04/15/52	NA	NA	870.69
04/16/52	NA	NA	870.69
04/17/52	NA	NA	870.69
04/18/52	NA	NA	870.69
04/19/52	NA	NA	870.69
04/20/52	NA	NA	870.64
04/21/52	NA	NA	870.64
04/22/52	NA	NA	870.64
04/23/52	NA	NA	870.73
04/24/52	NA	NA	870.68
04/25/52	NA	NA	870.56
04/26/52	NA	NA	870.39
04/27/52	NA	NA	870.39
04/28/52	NA	NA	870.94
04/29/52	NA	NA	870.94
04/30/52	NA	NA	870.69
05/01/52	NA	NA	870.85
05/02/52	NA	NA	870.81
05/03/52	NA	NA	870.77
05/04/52	NA	NA	870.73
05/05/52	NA	NA	870.69
05/06/52	NA	NA	870.64
05/07/52	NA	NA	870.60
05/08/52	NA	NA	870.56
05/09/52	NA	NA	870.52
05/10/52	NA	NA	870.45
05/11/52	NA	NA	870.43
05/12/52	NA	NA	870.39
05/13/52	NA	NA	870.28
05/14/52	NA	NA	870.36
05/15/52	NA	NA	870.35
05/16/52	NA	NA	870.31
05/17/52	NA	NA	870.31
05/18/52	NA	NA	870.26
05/19/52	NA	NA	870.20
05/20/52	NA	NA	870.45
05/21/52	NA	NA	870.45
05/22/52	NA	NA	870.45
05/23/52	NA	NA	870.45
05/24/52	NA	NA	870.43
05/25/52	NA	NA	870.39
05/26/52	NA	NA	870.64
05/27/52	NA	NA	870.64
05/28/52	NA	NA	870.69
05/29/52	NA	NA	870.69
05/30/52	NA	NA	870.56
05/31/52	NA	NA	870.56
06/01/52	NA	NA	870.52
06/02/52	NA	NA	870.52
06/03/52	NA	NA	870.56
06/04/52	NA	NA	870.52
06/05/52	NA	NA	870.48
06/06/52	NA	NA	870.45
06/07/52	NA	NA	870.32
06/08/52	NA	NA	870.39
06/09/52	NA	NA	870.35
06/10/52	NA	NA	870.35
06/11/52	NA	NA	870.31
06/12/52	NA	NA	870.43
06/13/52	NA	NA	870.43
06/14/52	NA	NA	870.29
06/15/52	NA	NA	870.35
06/16/52	NA	NA	870.35
06/17/52	NA	NA	870.31
06/18/52	NA	NA	870.31
06/19/52	NA	NA	870.35

EB = East Bank
WB = West Bank
GH = Guesthouse
NA = Not Available

Date	QWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
12/25/52	NA	NA	868.23
12/26/52	NA	NA	868.23
12/27/52	NA	NA	868.23
12/28/52	NA	NA	868.23
12/29/52	NA	NA	868.23
12/30/52	NA	NA	868.23
12/31/52	NA	NA	869.23
01/01/53	NA	NA	869.23
01/02/53	NA	NA	869.23
01/03/53	NA	NA	869.31
01/04/53	NA	NA	869.31
01/05/53	NA	NA	869.31
01/06/53	NA	NA	869.31
01/07/53	NA	NA	869.31
01/08/53	NA	NA	869.31
01/09/53	NA	NA	869.39
01/10/53	NA	NA	869.39
01/11/53	NA	NA	869.39
01/12/53	NA	NA	869.56
01/13/53	NA	NA	869.56
01/14/53	NA	NA	869.65
01/15/53	NA	NA	869.64
01/16/53	NA	NA	869.69
01/17/53	NA	NA	869.69
01/18/53	NA	NA	869.81
01/19/53	NA	NA	869.64
01/20/53	NA	NA	869.64
01/21/53	NA	NA	869.64
01/22/53	NA	NA	869.64
01/23/53	NA	NA	869.64
01/24/53	NA	NA	869.69
01/25/53	NA	NA	869.85
01/26/53	NA	NA	869.85
01/27/53	NA	NA	869.89
01/28/53	NA	NA	869.89
01/29/53	NA	NA	869.89
01/30/53	NA	NA	869.89
01/31/53	NA	NA	869.89
02/01/53	NA	NA	869.85
02/02/53	NA	NA	869.85
02/03/53	NA	NA	869.85
02/04/53	NA	NA	869.81
02/05/53	NA	NA	869.81
02/06/53	NA	NA	869.81
02/07/53	NA	NA	869.81
02/08/53	NA	NA	869.81
02/09/53	NA	NA	868.81
02/10/53	NA	NA	869.77
02/11/53	NA	NA	869.77
02/12/53	NA	NA	869.77
02/13/53	NA	NA	869.77
02/14/53	NA	NA	869.77
02/15/53	NA	NA	869.73
02/16/53	NA	NA	869.73
02/17/53	NA	NA	869.73
02/18/53	NA	NA	869.73
02/19/53	NA	NA	869.73
02/20/53	NA	NA	869.73
02/21/53	NA	NA	869.77
02/22/53	NA	NA	869.77
02/23/53	NA	NA	869.77
02/24/53	NA	NA	869.81
02/25/53	NA	NA	869.81
02/26/53	NA	NA	869.81
02/27/53	NA	NA	869.81
02/28/53	NA	NA	869.81
03/01/53	NA	NA	869.81
03/02/53	NA	NA	869.81
03/03/53	NA	NA	869.81
03/04/53	NA	NA	870.06
03/05/53	NA	NA	870.23
03/06/53	NA	NA	870.23
03/07/53	NA	NA	870.23
03/08/53	NA	NA	870.23
03/09/53	NA	NA	870.27
03/10/53	NA	NA	870.27
03/11/53	NA	NA	870.31
03/12/53	NA	NA	870.31
03/13/53	NA	NA	870.40
03/14/53	NA	NA	870.40
03/15/53	NA	NA	870.48
03/16/53	NA	NA	870.56
03/17/53	NA	NA	870.56
03/18/53	NA	NA	870.52
03/19/53	NA	NA	870.52
03/20/53	NA	NA	870.52
03/21/53	NA	NA	870.48
03/22/53	NA	NA	870.48
03/23/53	NA	NA	870.48
03/24/53	NA	NA	870.43
03/25/53	NA	NA	870.43
03/26/53	NA	NA	870.39
03/27/53	NA	NA	870.35
03/28/53	NA	NA	870.35
03/29/53	NA	NA	870.31
03/30/53	NA	NA	870.31
03/31/53	NA	NA	870.31
04/01/53	NA	NA	870.23
04/02/53	NA	NA	870.23
04/03/53	NA	NA	870.19
04/04/53	NA	NA	870.19
04/05/53	NA	NA	870.14
04/06/53	NA	NA	870.14
04/07/53	NA	NA	870.14
04/08/53	NA	NA	870.10
04/09/53	NA	NA	870.10
04/10/53	NA	NA	870.10
04/11/53	NA	NA	870.14
04/12/53	NA	NA	870.14
04/13/53	NA	NA	870.14
04/14/53	NA	NA	870.10
04/15/53	NA	NA	870.10
04/16/53	NA	NA	870.14
04/17/53	NA	NA	870.14
04/18/53	NA	NA	870.14
04/19/53	NA	NA	870.14
04/20/53	NA	NA	870.14
04/21/53	NA	NA	870.14
04/22/53	NA	NA	870.14
04/23/53	NA	NA	870.10
04/24/53	NA	NA	870.10
04/25/53	NA	NA	870.10
04/26/53	NA	NA	870.10
04/27/53	NA	NA	870.10
04/28/53	NA	NA	870.14
04/29/53	NA	NA	870.14
04/30/53	NA	NA	870.14
05/01/53	NA	NA	870.14
05/02/53	NA	NA	870.14
05/03/53	NA	NA	870.14
05/04/53	NA	NA	870.14
05/05/53	NA	NA	870.14
05/06/53	NA	NA	870.14
05/07/53	NA	NA	870.14
05/08/53	NA	NA	870.14
05/09/53	NA	NA	870.14
05/10/53	NA	NA	870.10
05/11/53	NA	NA	870.10
05/12/53	NA	NA	870.10
05/13/53	NA	NA	870.10
05/14/53	NA	NA	870.10
05/15/53	NA	NA	870.19
05/16/53	NA	NA	870.19
05/17/53	NA	NA	870.23
05/18/53	NA	NA	870.31
05/19/53	NA	NA	870.39
05/20/53	NA	NA	870.39
05/21/53	NA	NA	870.39
05/22/53	NA	NA	870.68
05/23/53	NA	NA	870.72
05/24/53	NA	NA	870.71
05/25/53	NA	NA	870.81
05/26/53	NA	NA	870.81
05/27/53	NA	NA	870.81
05/28/53	NA	NA	870.81
05/29/53	NA	NA	870.81
05/30/53	NA	NA	870.81
05/31/53	NA	NA	870.81
06/01/53	NA	NA	870.73
06/02/53	NA	NA	870.64
06/03/53	NA	NA	870.56
06/04/53	NA	NA	870.52
06/05/53	NA	NA	870.48
06/06/53	NA	NA	870.43
06/07/53	NA	NA	870.43
06/08/53	NA	NA	870.43
06/09/53	NA	NA	870.43
06/10/53	NA	NA	870.52
06/11/53	NA	NA	870.56
06/12/53	NA	NA	870.56
06/13/53	NA	NA	870.52
06/14/53	NA	NA	870.52
06/15/53	NA	NA	870.48
06/16/53	NA	NA	870.48
06/17/53	NA	NA	870.43
06/18/53	NA	NA	870.43
06/19/53	NA	NA	870.39
06/20/53	NA	NA	870.35
06/21/53	NA	NA	870.35
06/22/53	NA	NA	870.35
06/23/53	NA	NA	870.31
06/24/53	NA	NA	870.31
06/25/53	NA	NA	870.31
06/26/53	NA	NA	870.27
06/27/53	NA	NA	870.27
06/28/53	NA	NA	870.31
06/29/53	NA	NA	870.35
06/30/53	NA	NA	870.31

ER = East Bank
WR = West Bank
NM = Maintenance
NA = not Available

Date	ODNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
01/02/54	NA	NA	868.77
01/03/54	NA	NA	868.77
01/07/54	NA	NA	868.77
01/08/54	NA	NA	868.77
01/09/54	NA	NA	868.73
01/10/54	NA	NA	868.73
01/11/54	NA	NA	868.73
01/12/54	NA	NA	868.73
01/13/54	NA	NA	868.73
01/14/54	NA	NA	868.73
01/15/54	NA	NA	868.73
01/16/54	NA	NA	868.73
01/17/54	NA	NA	868.73
01/18/54	NA	NA	868.73
01/19/54	NA	NA	868.73
01/20/54	NA	NA	868.71
01/21/54	NA	NA	868.71
01/22/54	NA	NA	868.71
01/23/54	NA	NA	868.71
01/24/54	NA	NA	868.71
01/25/54	NA	NA	868.71
01/26/54	NA	NA	868.71
01/27/54	NA	NA	868.71
01/28/54	NA	NA	868.71
01/29/54	NA	NA	868.71
01/30/54	NA	NA	868.71
01/31/54	NA	NA	868.71
02/01/54	NA	NA	868.71
02/02/54	NA	NA	868.71
02/03/54	NA	NA	868.71
02/04/54	NA	NA	868.71
02/05/54	NA	NA	868.71
02/06/54	NA	NA	868.71
02/07/54	NA	NA	868.71
02/08/54	NA	NA	868.71
02/09/54	NA	NA	868.71
02/10/54	NA	NA	868.71
02/11/54	NA	NA	868.71
02/12/54	NA	NA	868.71
02/13/54	NA	NA	868.71
02/14/54	NA	NA	868.71
02/15/54	NA	NA	868.71
02/16/54	NA	NA	868.71
02/17/54	NA	NA	868.71
02/18/54	NA	NA	868.71
02/19/54	NA	NA	868.71
02/20/54	NA	NA	868.71
02/21/54	NA	NA	868.71
02/22/54	NA	NA	868.71
02/23/54	NA	NA	868.71
02/24/54	NA	NA	868.71
02/25/54	NA	NA	868.71
02/26/54	NA	NA	868.71
02/27/54	NA	NA	868.71
02/28/54	NA	NA	868.71
03/01/54	NA	NA	868.71
03/02/54	NA	NA	868.71
03/03/54	NA	NA	868.71
03/04/54	NA	NA	868.71
03/05/54	NA	NA	868.71
03/06/54	NA	NA	868.71
03/07/54	NA	NA	868.71
03/08/54	NA	NA	868.71
03/09/54	NA	NA	868.71
03/10/54	NA	NA	868.71
03/11/54	NA	NA	868.71
03/12/54	NA	NA	868.71
03/13/54	NA	NA	868.71
03/14/54	NA	NA	868.71
03/15/54	NA	NA	868.71
03/16/54	NA	NA	868.71
03/17/54	NA	NA	868.71
03/18/54	NA	NA	868.71
03/19/54	NA	NA	868.71
03/20/54	NA	NA	868.71
03/21/54	NA	NA	868.71
03/22/54	NA	NA	868.71
03/23/54	NA	NA	868.71
03/24/54	NA	NA	868.71
03/25/54	NA	NA	868.71
03/26/54	NA	NA	868.71
03/27/54	NA	NA	868.71
03/28/54	NA	NA	868.71
03/29/54	NA	NA	868.71
03/30/54	NA	NA	868.71
03/31/54	NA	NA	868.71
04/01/54	NA	NA	868.71
04/02/54	NA	NA	868.71
04/03/54	NA	NA	868.71
04/04/54	NA	NA	868.71
04/05/54	NA	NA	868.71
04/06/54	NA	NA	868.71
04/07/54	NA	NA	868.71
04/08/54	NA	NA	868.71
04/09/54	NA	NA	868.71
04/10/54	NA	NA	868.71
04/11/54	NA	NA	868.71
04/12/54	NA	NA	868.71
04/13/54	NA	NA	868.71
04/14/54	NA	NA	868.71
04/15/54	NA	NA	868.71
04/16/54	NA	NA	868.71
04/17/54	NA	NA	868.71
04/18/54	NA	NA	868.71
04/19/54	NA	NA	868.71
04/20/54	NA	NA	868.71
04/21/54	NA	NA	868.71
04/22/54	NA	NA	868.71
04/23/54	NA	NA	868.71
04/24/54	NA	NA	868.71
04/25/54	NA	NA	868.71
04/26/54	NA	NA	868.71
04/27/54	NA	NA	868.71
04/28/54	NA	NA	868.71
04/29/54	NA	NA	868.71
04/30/54	NA	NA	868.71
05/01/54	NA	NA	868.71
05/02/54	NA	NA	868.71
05/03/54	NA	NA	868.71
05/04/54	NA	NA	868.71
05/05/54	NA	NA	868.71
05/06/54	NA	NA	868.71
05/07/54	NA	NA	868.71
05/08/54	NA	NA	868.71
05/09/54	NA	NA	868.71
05/10/54	NA	NA	868.71
05/11/54	NA	NA	868.71
05/12/54	NA	NA	868.71
05/13/54	NA	NA	868.71
05/14/54	NA	NA	868.71
05/15/54	NA	NA	868.71
05/16/54	NA	NA	868.71
05/17/54	NA	NA	868.71
05/18/54	NA	NA	868.71
05/19/54	NA	NA	868.71
05/20/54	NA	NA	868.71
05/21/54	NA	NA	868.71
05/22/54	NA	NA	868.71
05/23/54	NA	NA	868.71
05/24/54	NA	NA	868.71
05/25/54	NA	NA	868.71
05/26/54	NA	NA	868.71
05/27/54	NA	NA	868.71
05/28/54	NA	NA	868.71
05/29/54	NA	NA	868.71
05/30/54	NA	NA	868.71
05/31/54	NA	NA	868.71
06/01/54	NA	NA	868.71
06/02/54	NA	NA	868.71
06/03/54	NA	NA	868.71
06/04/54	NA	NA	868.71
06/05/54	NA	NA	868.71
06/06/54	NA	NA	868.71
06/07/54	NA	NA	868.71
06/08/54	NA	NA	868.71
06/09/54	NA	NA	868.71
06/10/54	NA	NA	868.71
06/11/54	NA	NA	868.71
06/12/54	NA	NA	868.71
06/13/54	NA	NA	868.71
06/14/54	NA	NA	868.71
06/15/54	NA	NA	868.71
06/16/54	NA	NA	868.71
06/17/54	NA	NA	868.71
06/18/54	NA	NA	868.71
06/19/54	NA	NA	868.71
06/20/54	NA	NA	868.71
06/21/54	NA	NA	868.71
06/22/54	NA	NA	868.71
06/23/54	NA	NA	868.71
06/24/54	NA	NA	868.71
06/25/54	NA	NA	868.71
06/26/54	NA	NA	868.71
06/27/54	NA	NA	868.71
06/28/54	NA	NA	868.71
06/29/54	NA	NA	868.71
06/30/54	NA	NA	868.71
07/01/54	NA	NA	868.71
07/02/54	NA	NA	868.71
07/03/54	NA	NA	868.71
07/04/54	NA	NA	868.71
07/05/54	NA	NA	868.71
07/06/54	NA	NA	868.71
07/07/54	NA	NA	868.71
07/08/54	NA	NA	868.71
07/09/54	NA	NA	868.71
07/10/54	NA	NA	868.71
07/11/54	NA	NA	868.71

EB = East Basin
WB = West Basin
BH = Bradhaven
NA = Not Available

Date	QCNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
01/16/55	NA	NA	868.35
01/17/55	NA	NA	868.35
01/18/55	NA	NA	868.35
01/19/55	NA	NA	868.35
01/20/55	NA	NA	868.35
01/21/55	NA	NA	868.35
01/22/55	NA	NA	868.35
01/23/55	NA	NA	868.35
01/24/55	NA	NA	868.35
01/25/55	NA	NA	868.35
01/26/55	NA	NA	868.35
01/27/55	NA	NA	868.35
01/28/55	NA	NA	868.35
01/29/55	NA	NA	868.35
01/30/55	NA	NA	868.35
01/31/55	NA	NA	868.35
02/01/55	NA	NA	868.35
02/02/55	NA	NA	868.35
02/03/55	NA	NA	868.35
02/04/55	NA	NA	868.35
02/05/55	NA	NA	868.35
02/06/55	NA	NA	868.35
02/07/55	NA	NA	868.35
02/08/55	NA	NA	868.35
02/09/55	NA	NA	868.35
02/10/55	NA	NA	868.35
02/11/55	NA	NA	868.35
02/12/55	NA	NA	868.35
02/13/55	NA	NA	868.35
02/14/55	NA	NA	868.35
02/15/55	NA	NA	868.35
02/16/55	NA	NA	868.35
02/17/55	NA	NA	868.35
02/18/55	NA	NA	868.35
02/19/55	NA	NA	868.35
02/20/55	NA	NA	868.35
02/21/55	NA	NA	868.35
02/22/55	NA	NA	868.35
02/23/55	NA	NA	868.35
02/24/55	NA	NA	868.35
02/25/55	NA	NA	868.35
02/26/55	NA	NA	868.35
02/27/55	NA	NA	868.35
02/28/55	NA	NA	868.35
03/01/55	NA	NA	868.35
03/02/55	NA	NA	868.35
03/03/55	NA	NA	868.35
03/04/55	NA	NA	868.35
03/05/55	NA	NA	868.35
03/06/55	NA	NA	868.35
03/07/55	NA	NA	868.35
03/08/55	NA	NA	868.35
03/09/55	NA	NA	868.35
03/10/55	NA	NA	868.35
03/11/55	NA	NA	868.35
03/12/55	NA	NA	868.35
03/13/55	NA	NA	868.35
03/14/55	NA	NA	868.35
03/15/55	NA	NA	868.35
03/16/55	NA	NA	868.35
03/17/55	NA	NA	868.35
03/18/55	NA	NA	868.35
03/19/55	NA	NA	868.35
03/20/55	NA	NA	868.35
03/21/55	NA	NA	868.35
03/22/55	NA	NA	868.35
03/23/55	NA	NA	868.35
03/24/55	NA	NA	868.35
03/25/55	NA	NA	868.35
03/26/55	NA	NA	868.35
03/27/55	NA	NA	868.35
03/28/55	NA	NA	868.35
03/29/55	NA	NA	868.35
03/30/55	NA	NA	868.35
03/31/55	NA	NA	868.35
04/01/55	NA	NA	868.35
04/02/55	NA	NA	868.35
04/03/55	NA	NA	868.35
04/04/55	NA	NA	868.35
04/05/55	NA	NA	868.35
04/06/55	NA	NA	868.35
04/07/55	NA	NA	868.35
04/08/55	NA	NA	868.35
04/09/55	NA	NA	868.35
04/10/55	NA	NA	868.35
04/11/55	NA	NA	868.35
04/12/55	NA	NA	868.35
04/13/55	NA	NA	868.35
04/14/55	NA	NA	868.35
04/15/55	NA	NA	868.35
04/16/55	NA	NA	868.35
04/17/55	NA	NA	868.35
04/18/55	NA	NA	868.35
04/19/55	NA	NA	868.35
04/20/55	NA	NA	868.35
04/21/55	NA	NA	868.35
04/22/55	NA	NA	868.35
04/23/55	NA	NA	868.35
04/24/55	NA	NA	868.35
04/25/55	NA	NA	868.35
04/26/55	NA	NA	868.35
04/27/55	NA	NA	868.35
04/28/55	NA	NA	868.35
04/29/55	NA	NA	868.35
04/30/55	NA	NA	868.35
05/01/55	NA	NA	868.35
05/02/55	NA	NA	868.35
05/03/55	NA	NA	868.35
05/04/55	NA	NA	868.35
05/05/55	NA	NA	868.35
05/06/55	NA	NA	868.35
05/07/55	NA	NA	868.35
05/08/55	NA	NA	868.35
05/09/55	NA	NA	868.35
05/10/55	NA	NA	868.35
05/11/55	NA	NA	868.35
05/12/55	NA	NA	868.35
05/13/55	NA	NA	868.35
05/14/55	NA	NA	868.35
05/15/55	NA	NA	868.35
05/16/55	NA	NA	868.35
05/17/55	NA	NA	868.35
05/18/55	NA	NA	868.35
05/19/55	NA	NA	868.35
05/20/55	NA	NA	868.35
05/21/55	NA	NA	868.35
05/22/55	NA	NA	868.35
05/23/55	NA	NA	868.35
05/24/55	NA	NA	868.35
05/25/55	NA	NA	868.35
05/26/55	NA	NA	868.35
05/27/55	NA	NA	868.35
05/28/55	NA	NA	868.35
05/29/55	NA	NA	868.35
05/30/55	NA	NA	868.35
05/31/55	NA	NA	868.35
06/01/55	NA	NA	868.35
06/02/55	NA	NA	868.35
06/03/55	NA	NA	868.35
06/04/55	NA	NA	868.35
06/05/55	NA	NA	868.35
06/06/55	NA	NA	868.35
06/07/55	NA	NA	868.35
06/08/55	NA	NA	868.35
06/09/55	NA	NA	868.43
06/10/55	NA	NA	868.43
06/11/55	NA	NA	868.43
06/12/55	NA	NA	868.43
06/13/55	NA	NA	868.43
06/14/55	NA	NA	868.43
06/15/55	NA	NA	868.43
06/16/55	NA	NA	868.43
06/17/55	NA	NA	868.43
06/18/55	NA	NA	868.43
06/19/55	NA	NA	868.43
06/20/55	NA	NA	868.43
06/21/55	NA	NA	868.43
06/22/55	NA	NA	868.43
06/23/55	NA	NA	868.43
06/24/55	NA	NA	868.43
06/25/55	NA	NA	868.43
06/26/55	NA	NA	868.43
06/27/55	NA	NA	868.43
06/28/55	NA	NA	868.43
06/29/55	NA	NA	868.43
06/30/55	NA	NA	868.43
07/01/55	NA	NA	868.43
07/02/55	NA	NA	868.43
07/03/55	NA	NA	868.43
07/04/55	NA	NA	868.43
07/05/55	NA	NA	868.43
07/06/55	NA	NA	868.43
07/07/55	NA	NA	868.43
07/08/55	NA	NA	868.43
07/09/55	NA	NA	868.43
07/10/55	NA	NA	868.43
07/11/55	NA	NA	868.43
07/12/55	NA	NA	868.43
07/13/55	NA	NA	868.43
07/14/55	NA	NA	868.43
07/15/55	NA	NA	868.43
07/16/55	NA	NA	868.43
07/17/55	NA	NA	868.43
07/18/55	NA	NA	868.43
07/19/55	NA	NA	868.43
07/20/55	NA	NA	868.43
07/21/55	NA	NA	868.43
07/22/55	NA	NA	868.43

EB = East Bank
WB = West Bank
BH = Beachhouse
NA = Not Available

Date	GDKR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
01/27/56	NA	NA	870.23
01/28/56	NA	NA	870.20
01/29/56	NA	NA	870.23
01/30/56	NA	NA	870.31
01/31/56	NA	NA	870.31
02/01/56	NA	NA	870.31
02/02/56	NA	NA	870.36
02/03/56	NA	NA	870.38
02/04/56	NA	NA	870.43
02/05/56	NA	NA	870.43
02/06/56	NA	NA	870.43
02/07/56	NA	NA	870.48
02/08/56	NA	NA	870.48
02/09/56	NA	NA	870.52
02/10/56	NA	NA	870.56
02/11/56	NA	NA	870.64
02/12/56	NA	NA	870.69
02/13/56	NA	NA	870.69
02/14/56	NA	NA	870.69
02/15/56	NA	NA	870.75
02/16/56	NA	NA	870.77
02/17/56	NA	NA	870.81
02/18/56	NA	NA	870.89
02/19/56	NA	NA	870.88
02/20/56	NA	NA	870.94
02/21/56	NA	NA	870.94
02/22/56	NA	NA	870.94
02/23/56	NA	NA	870.94
02/24/56	NA	NA	870.94
02/25/56	NA	NA	870.98
02/26/56	NA	NA	871.10
02/27/56	NA	NA	871.10
02/28/56	NA	NA	871.14
02/29/56	NA	NA	871.14
03/01/56	NA	NA	870.94
03/02/56	NA	NA	870.96
03/03/56	NA	NA	870.94
03/04/56	NA	NA	870.89
03/05/56	NA	NA	870.89
03/06/56	NA	NA	870.69
03/07/56	NA	NA	870.88
03/08/56	NA	NA	870.81
03/09/56	NA	NA	870.81
03/10/56	NA	NA	870.85
03/11/56	NA	NA	870.81
03/12/56	NA	NA	870.81
03/13/56	NA	NA	870.73
03/14/56	NA	NA	870.23
03/15/56	NA	NA	870.73
03/16/56	NA	NA	870.73
03/17/56	NA	NA	870.64
03/18/56	NA	NA	870.64
03/19/56	NA	NA	870.64
03/20/56	NA	NA	870.84
03/21/56	NA	NA	870.88
03/22/56	NA	NA	870.96
03/23/56	NA	NA	870.96
03/24/56	NA	NA	870.96
03/25/56	NA	NA	870.96
03/26/56	NA	NA	870.73
03/27/56	NA	NA	870.73
03/28/56	NA	NA	870.81
03/29/56	NA	NA	870.81
03/30/56	NA	NA	870.81
03/31/56	NA	NA	870.73
04/01/56	NA	NA	870.56
04/02/56	NA	NA	870.56
04/03/56	NA	NA	870.56
04/04/56	NA	NA	870.60
04/05/56	NA	NA	870.73
04/06/56	NA	NA	870.73
04/07/56	NA	NA	870.73
04/08/56	NA	NA	870.73
04/09/56	NA	NA	870.69
04/10/56	NA	NA	870.69
04/11/56	NA	NA	870.69
04/12/56	NA	NA	870.68
04/13/56	NA	NA	870.68
04/14/56	NA	NA	870.68
04/15/56	NA	NA	870.64
04/16/56	NA	NA	870.64
04/17/56	NA	NA	870.64
04/18/56	NA	NA	870.64
04/19/56	NA	NA	870.64
04/20/56	NA	NA	870.64
04/21/56	NA	NA	870.64
04/22/56	NA	NA	870.60
04/23/56	NA	NA	870.60
04/24/56	NA	NA	870.60
04/25/56	NA	NA	870.60
04/26/56	NA	NA	870.60
04/27/56	NA	NA	870.60
04/28/56	NA	NA	870.56
04/29/56	NA	NA	870.56
04/30/56	NA	NA	870.56
05/01/56	NA	NA	870.56
05/02/56	NA	NA	870.56
05/03/56	NA	NA	870.56
05/04/56	NA	NA	870.56
05/05/56	NA	NA	870.56
05/06/56	NA	NA	870.56
05/07/56	NA	NA	870.56
05/08/56	NA	NA	870.56
05/09/56	NA	NA	870.56
05/10/56	NA	NA	870.56
05/11/56	NA	NA	870.56
05/12/56	NA	NA	870.56
05/13/56	NA	NA	870.56
05/14/56	NA	NA	870.56
05/15/56	NA	NA	870.56
05/16/56	NA	NA	870.48
05/17/56	NA	NA	870.48
05/18/56	NA	NA	870.48
05/19/56	NA	NA	870.48
05/20/56	NA	NA	870.48
05/21/56	NA	NA	870.48
05/22/56	NA	NA	870.48
05/23/56	NA	NA	870.48
05/24/56	NA	NA	870.44
05/25/56	NA	NA	870.48
05/26/56	NA	NA	870.48
05/27/56	NA	NA	870.44
05/28/56	NA	NA	870.44
05/29/56	NA	NA	870.48
05/30/56	NA	NA	870.60
05/31/56	NA	NA	870.60
06/01/56	NA	NA	870.77
06/02/56	NA	NA	870.77
06/03/56	NA	NA	870.73
06/04/56	NA	NA	870.73
06/05/56	NA	NA	870.73
06/06/56	NA	NA	870.73
06/07/56	NA	NA	870.73
06/08/56	NA	NA	870.73
06/09/56	NA	NA	870.64
06/10/56	NA	NA	870.64
06/11/56	NA	NA	870.64
06/12/56	NA	NA	870.64
06/13/56	NA	NA	870.64
06/14/56	NA	NA	870.64
06/15/56	NA	NA	870.60
06/16/56	NA	NA	870.60
06/17/56	NA	NA	870.60
06/18/56	NA	NA	870.60
06/19/56	NA	NA	870.60
06/20/56	NA	NA	870.56
06/21/56	NA	NA	870.56
06/22/56	NA	NA	870.52
06/23/56	NA	NA	870.52
06/24/56	NA	NA	870.52
06/25/56	NA	NA	870.52
06/26/56	NA	NA	870.52
06/27/56	NA	NA	870.52
06/28/56	NA	NA	870.48
06/29/56	NA	NA	870.48
06/30/56	NA	NA	870.48
07/01/56	NA	NA	870.48
07/02/56	NA	NA	870.48
07/03/56	NA	NA	870.48
07/04/56	NA	NA	870.48
07/05/56	NA	NA	870.48
07/06/56	NA	NA	870.48
07/07/56	NA	NA	870.48
07/08/56	NA	NA	870.48
07/09/56	NA	NA	870.41
07/10/56	NA	NA	870.41
07/11/56	NA	NA	870.43
07/12/56	NA	NA	870.43
07/13/56	NA	NA	870.43
07/14/56	NA	NA	870.43
07/15/56	NA	NA	870.43
07/16/56	NA	NA	870.43
07/17/56	NA	NA	870.43
07/18/56	NA	NA	870.43
07/19/56	NA	NA	870.39
07/20/56	NA	NA	870.39
07/21/56	NA	NA	870.39
07/22/56	NA	NA	870.39
07/23/56	NA	NA	870.39
07/24/56	NA	NA	870.39
07/25/56	NA	NA	870.39
07/26/56	NA	NA	870.39
07/27/56	NA	NA	870.39
07/28/56	NA	NA	870.39
07/29/56	NA	NA	870.39
07/30/56	NA	NA	870.39
07/31/56	NA	NA	870.38
08/01/56	NA	NA	870.31

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	CGWH Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
02/06/97	NA	NA	870.06
02/07/97	NA	NA	870.06
02/08/97	NA	NA	870.06
02/09/97	NA	NA	870.06
02/10/97	NA	NA	870.06
02/11/97	NA	NA	870.06
02/12/97	NA	NA	870.06
02/13/97	NA	NA	870.06
02/14/97	NA	NA	870.06
02/15/97	NA	NA	870.06
02/16/97	NA	NA	870.06
02/17/97	NA	NA	870.06
02/18/97	NA	NA	870.06
02/19/97	NA	NA	870.06
02/20/97	NA	NA	870.06
02/21/97	NA	NA	870.06
02/22/97	NA	NA	870.06
02/23/97	NA	NA	870.06
02/24/97	NA	NA	870.06
02/25/97	NA	NA	870.06
02/26/97	NA	NA	870.06
02/27/97	NA	NA	870.06
02/28/97	NA	NA	870.06
03/01/97	NA	NA	870.04
03/02/97	NA	NA	870.04
03/03/97	NA	NA	870.04
03/04/97	NA	NA	870.04
03/05/97	NA	NA	870.04
03/06/97	NA	NA	870.06
03/07/97	NA	NA	870.06
03/08/97	NA	NA	870.06
03/09/97	NA	NA	870.06
03/10/97	NA	NA	870.48
03/11/97	NA	NA	870.48
03/12/97	NA	NA	870.48
03/13/97	NA	NA	870.39
03/14/97	NA	NA	870.39
03/15/97	NA	NA	870.39
03/16/97	NA	NA	870.39
03/17/97	NA	NA	870.31
03/18/97	NA	NA	870.31
03/19/97	NA	NA	870.31
03/20/97	NA	NA	870.31
03/21/97	NA	NA	870.31
03/22/97	NA	NA	870.31
03/23/97	NA	NA	870.31
03/24/97	NA	NA	870.31
03/25/97	NA	NA	870.31
03/26/97	NA	NA	870.31
03/27/97	NA	NA	870.31
03/28/97	NA	NA	870.31
03/29/97	NA	NA	870.31
03/30/97	NA	NA	870.31
03/31/97	NA	NA	870.31
04/01/97	NA	NA	870.39
04/02/97	NA	NA	870.48
04/03/97	NA	NA	870.48
04/04/97	NA	NA	871.06
04/05/97	NA	NA	871.23
04/06/97	NA	NA	871.31
04/07/97	NA	NA	871.39
04/08/97	NA	NA	871.23
04/09/97	NA	NA	871.81
04/10/97	NA	NA	871.89
04/11/97	NA	NA	871.89
04/12/97	NA	NA	871.81
04/13/97	NA	NA	871.81
04/14/97	NA	NA	871.73
04/15/97	NA	NA	871.73
04/16/97	NA	NA	871.64
04/17/97	NA	NA	871.64
04/18/97	NA	NA	871.64
04/19/97	NA	NA	871.65
04/20/97	NA	NA	871.81
04/21/97	NA	NA	871.27
04/22/97	NA	NA	871.73
04/23/97	NA	NA	871.89
04/24/97	NA	NA	871.89
04/25/97	NA	NA	871.86
04/26/97	NA	NA	871.81
04/27/97	NA	NA	871.77
04/28/97	NA	NA	871.73
04/29/97	NA	NA	871.73
04/30/97	NA	NA	871.89
05/01/97	NA	NA	871.56
05/02/97	NA	NA	871.48
05/03/97	NA	NA	871.39
05/04/97	NA	NA	871.31
05/05/97	NA	NA	871.23
05/06/97	NA	NA	871.14
05/07/97	NA	NA	871.10
05/08/97	NA	NA	871.06
05/09/97	NA	NA	871.02
05/10/97	NA	NA	870.98
05/11/97	NA	NA	870.98
05/12/97	NA	NA	870.94
05/13/97	NA	NA	870.89
05/14/97	NA	NA	870.89
05/15/97	NA	NA	870.89
05/16/97	NA	NA	870.81
05/17/97	NA	NA	870.77
05/18/97	NA	NA	870.73
05/19/97	NA	NA	870.69
05/20/97	NA	NA	870.64
05/21/97	NA	NA	870.60
05/22/97	NA	NA	870.73
05/23/97	NA	NA	870.73
05/24/97	NA	NA	870.73
05/25/97	NA	NA	870.69
05/26/97	NA	NA	870.65
05/27/97	NA	NA	870.61
05/28/97	NA	NA	870.77
05/29/97	NA	NA	870.73
05/30/97	NA	NA	870.69
05/31/97	NA	NA	870.64
06/01/97	NA	NA	870.60
06/02/97	NA	NA	870.73
06/03/97	NA	NA	870.73
06/04/97	NA	NA	870.73
06/05/97	NA	NA	870.73
06/06/97	NA	NA	870.69
06/07/97	NA	NA	870.69
06/08/97	NA	NA	870.64
06/09/97	NA	NA	870.64
06/10/97	NA	NA	870.64
06/11/97	NA	NA	870.64
06/12/97	NA	NA	870.64
06/13/97	NA	NA	870.56
06/14/97	NA	NA	870.56
06/15/97	NA	NA	870.60
06/16/97	NA	NA	870.60
06/17/97	NA	NA	870.60
06/18/97	NA	NA	870.60
06/19/97	NA	NA	870.60
06/20/97	NA	NA	870.56
06/21/97	NA	NA	870.56
06/22/97	NA	NA	870.56
06/23/97	NA	NA	870.56
06/24/97	NA	NA	870.52
06/25/97	NA	NA	870.52
06/26/97	NA	NA	870.52
06/27/97	NA	NA	870.48
06/28/97	NA	NA	870.73
06/29/97	NA	NA	870.94
06/30/97	NA	NA	871.23
07/01/97	NA	NA	871.31
07/02/97	NA	NA	871.48
07/03/97	NA	NA	871.48
07/04/97	NA	NA	871.64
07/05/97	NA	NA	871.73
07/06/97	NA	NA	871.73
07/07/97	NA	NA	871.73
07/08/97	NA	NA	871.73
07/09/97	NA	NA	871.64
07/10/97	NA	NA	871.60
07/11/97	NA	NA	871.56
07/12/97	NA	NA	871.31
07/13/97	NA	NA	871.39
07/14/97	NA	NA	871.31
07/15/97	NA	NA	871.23
07/16/97	NA	NA	871.19
07/17/97	NA	NA	871.14
07/18/97	NA	NA	871.06
07/19/97	NA	NA	870.98
07/20/97	NA	NA	870.89
07/21/97	NA	NA	870.81
07/22/97	NA	NA	870.73
07/23/97	NA	NA	870.64
07/24/97	NA	NA	870.64
07/25/97	NA	NA	870.69
07/26/97	NA	NA	870.56
07/27/97	NA	NA	870.52
07/28/97	NA	NA	870.48
07/29/97	NA	NA	870.48
07/30/97	NA	NA	870.43
07/31/97	NA	NA	870.35
08/01/97	NA	NA	870.35
08/02/97	NA	NA	870.35
08/03/97	NA	NA	870.35
08/04/97	NA	NA	870.31
08/05/97	NA	NA	870.31
08/06/97	NA	NA	870.27
08/07/97	NA	NA	870.27
08/08/97	NA	NA	870.23
08/09/97	NA	NA	870.23
08/10/97	NA	NA	870.19
08/11/97	NA	NA	870.19
08/12/97	NA	NA	870.14

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	DDNR Measurement (feet/mp)	Measurement Location	Lake Elevation (feet msl)
02/17/58	NA	NA	868.89
02/18/58	NA	NA	868.89
02/19/58	NA	NA	868.89
02/20/58	NA	NA	868.89
02/21/58	NA	NA	868.89
02/22/58	NA	NA	868.89
02/23/58	NA	NA	868.89
02/24/58	NA	NA	868.89
02/25/58	NA	NA	868.89
02/26/58	NA	NA	868.89
02/27/58	NA	NA	868.89
02/28/58	NA	NA	868.89
03/01/58	NA	NA	868.89
03/02/58	NA	NA	868.89
03/03/58	NA	NA	868.89
03/04/58	NA	NA	868.89
03/05/58	NA	NA	868.89
03/06/58	NA	NA	868.89
03/07/58	NA	NA	868.89
03/08/58	NA	NA	868.89
03/09/58	NA	NA	868.89
03/10/58	NA	NA	868.89
03/11/58	NA	NA	868.89
03/12/58	NA	NA	868.89
03/13/58	NA	NA	868.89
03/14/58	NA	NA	868.89
03/15/58	NA	NA	868.89
03/16/58	NA	NA	868.89
03/17/58	NA	NA	868.89
03/18/58	NA	NA	868.89
03/19/58	NA	NA	868.89
03/20/58	NA	NA	868.89
03/21/58	NA	NA	868.89
03/22/58	NA	NA	868.89
03/23/58	NA	NA	868.89
03/24/58	NA	NA	868.89
03/25/58	NA	NA	868.89
03/26/58	NA	NA	868.89
03/27/58	NA	NA	868.89
03/28/58	NA	NA	868.89
03/29/58	NA	NA	868.89
03/30/58	NA	NA	868.89
03/31/58	NA	NA	868.89
04/01/58	NA	NA	868.89
04/02/58	NA	NA	868.89
04/03/58	NA	NA	868.89
04/04/58	NA	NA	868.89
04/05/58	NA	NA	868.89
04/06/58	NA	NA	868.89
04/07/58	NA	NA	868.89
04/08/58	NA	NA	868.89
04/09/58	NA	NA	868.89
04/10/58	NA	NA	868.89
04/11/58	NA	NA	868.89
04/12/58	NA	NA	868.89
04/13/58	NA	NA	868.89
04/14/58	NA	NA	868.89
04/15/58	NA	NA	868.89
04/16/58	NA	NA	868.89
04/17/58	NA	NA	868.89
04/18/58	NA	NA	868.89
04/19/58	NA	NA	868.89
04/20/58	NA	NA	868.89
04/21/58	NA	NA	868.89
04/22/58	NA	NA	868.89
04/23/58	NA	NA	868.89
04/24/58	NA	NA	868.89
04/25/58	NA	NA	868.89
04/26/58	NA	NA	868.89
04/27/58	NA	NA	868.89
04/28/58	NA	NA	868.89
04/29/58	NA	NA	868.89
04/30/58	NA	NA	868.89
05/01/58	NA	NA	868.89
05/02/58	NA	NA	868.89
05/03/58	NA	NA	868.89
05/04/58	NA	NA	868.89
05/05/58	NA	NA	868.89
05/06/58	NA	NA	868.89
05/07/58	NA	NA	868.89
05/08/58	NA	NA	868.89
05/09/58	NA	NA	868.89
05/10/58	NA	NA	868.89
05/11/58	NA	NA	868.89
05/12/58	NA	NA	868.89
05/13/58	NA	NA	868.89
05/14/58	NA	NA	868.89
05/15/58	NA	NA	868.89
05/16/58	NA	NA	868.89
05/17/58	NA	NA	868.89
05/18/58	NA	NA	868.89
05/19/58	NA	NA	868.89
05/20/58	NA	NA	868.89
05/21/58	NA	NA	868.89
05/22/58	NA	NA	868.89
05/23/58	NA	NA	868.89
05/24/58	NA	NA	868.89
05/25/58	NA	NA	868.89
05/26/58	NA	NA	868.89
05/27/58	NA	NA	868.89
05/28/58	NA	NA	868.89
05/29/58	NA	NA	868.89
05/30/58	NA	NA	868.89
05/31/58	NA	NA	868.89
06/01/58	NA	NA	868.89
06/02/58	NA	NA	868.89
06/03/58	NA	NA	868.89
06/04/58	NA	NA	868.89
06/05/58	NA	NA	868.89
06/06/58	NA	NA	868.89
06/07/58	NA	NA	868.89
06/08/58	NA	NA	868.89
06/09/58	NA	NA	868.89
06/10/58	NA	NA	868.89
06/11/58	NA	NA	868.89
06/12/58	NA	NA	868.89
06/13/58	NA	NA	868.89
06/14/58	NA	NA	868.89
06/15/58	NA	NA	868.89
06/16/58	NA	NA	868.89
06/17/58	NA	NA	868.89
06/18/58	NA	NA	868.89
06/19/58	NA	NA	868.89
06/20/58	NA	NA	868.89
06/21/58	NA	NA	868.89
06/22/58	NA	NA	868.89
06/23/58	NA	NA	868.89

EB = East Bank
WB = West Bank
SH = Southwest
NA = Not Available

Date	Gauge Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
03/28/59	NA	NA	871.36
03/29/59	NA	NA	871.88
03/30/59	NA	NA	871.53
03/31/59	NA	NA	870.98
04/01/59	NA	NA	872.84
04/02/59	NA	NA	870.89
04/03/59	NA	NA	870.89
04/04/59	NA	NA	870.85
04/05/59	NA	NA	870.85
04/06/59	NA	NA	870.86
04/07/59	NA	NA	870.81
04/08/59	NA	NA	870.81
04/09/59	NA	NA	870.77
04/10/59	NA	NA	870.73
04/11/59	NA	NA	870.73
04/12/59	NA	NA	870.69
04/13/59	NA	NA	870.69
04/14/59	NA	NA	870.65
04/15/59	NA	NA	870.65
04/16/59	NA	NA	870.61
04/17/59	NA	NA	870.61
04/18/59	NA	NA	870.57
04/19/59	NA	NA	870.53
04/20/59	NA	NA	870.53
04/21/59	NA	NA	870.52
04/22/59	NA	NA	870.52
04/23/59	NA	NA	870.52
04/24/59	NA	NA	870.52
04/25/59	NA	NA	870.52
04/26/59	NA	NA	870.52
04/27/59	NA	NA	870.52
04/28/59	NA	NA	871.39
04/29/59	NA	NA	871.48
04/30/59	NA	NA	871.56
05/01/59	NA	NA	871.52
05/02/59	NA	NA	871.48
05/03/59	NA	NA	871.44
05/04/59	NA	NA	871.39
05/05/59	NA	NA	871.35
05/06/59	NA	NA	871.31
05/07/59	NA	NA	871.27
05/08/59	NA	NA	871.14
05/09/59	NA	NA	871.10
05/10/59	NA	NA	871.05
05/11/59	NA	NA	871.01
05/12/59	NA	NA	870.97
05/13/59	NA	NA	870.93
05/14/59	NA	NA	870.89
05/15/59	NA	NA	870.84
05/16/59	NA	NA	870.80
05/17/59	NA	NA	870.76
05/18/59	NA	NA	870.73
05/19/59	NA	NA	870.69
05/20/59	NA	NA	870.64
05/21/59	NA	NA	870.60
05/22/59	NA	NA	870.56
05/23/59	NA	NA	870.56
05/24/59	NA	NA	870.52
05/25/59	NA	NA	870.52
05/26/59	NA	NA	870.52
05/27/59	NA	NA	870.52
05/28/59	NA	NA	870.52
05/29/59	NA	NA	870.52
05/30/59	NA	NA	870.52
05/31/59	NA	NA	870.48
06/01/59	NA	NA	870.44
06/02/59	NA	NA	870.44
06/03/59	NA	NA	870.43
06/04/59	NA	NA	870.43
06/05/59	NA	NA	870.39
06/06/59	NA	NA	870.39
06/07/59	NA	NA	870.39
06/08/59	NA	NA	870.35
06/09/59	NA	NA	870.35
06/10/59	NA	NA	870.35
06/11/59	NA	NA	870.31
06/12/59	NA	NA	870.31
06/13/59	NA	NA	870.31
06/14/59	NA	NA	870.31
06/15/59	NA	NA	870.27
06/16/59	NA	NA	870.27
06/17/59	NA	NA	870.27
06/18/59	NA	NA	870.23
06/19/59	NA	NA	870.23
06/20/59	NA	NA	870.23
06/21/59	NA	NA	870.23
06/22/59	NA	NA	870.23
06/23/59	NA	NA	870.19
06/24/59	NA	NA	870.19
06/25/59	NA	NA	870.19
06/26/59	NA	NA	870.14
06/27/59	NA	NA	870.14
06/28/59	NA	NA	870.14
06/29/59	NA	NA	870.10
06/30/59	NA	NA	870.10
07/01/59	NA	NA	870.10
07/02/59	NA	NA	870.06
07/03/59	NA	NA	870.06
07/04/59	NA	NA	870.06
07/05/59	NA	NA	870.02
07/06/59	NA	NA	870.02
07/07/59	NA	NA	870.02
07/08/59	NA	NA	869.98
07/09/59	NA	NA	869.98
07/10/59	NA	NA	869.94
07/11/59	NA	NA	869.94
07/12/59	NA	NA	869.89
07/13/59	NA	NA	869.89
07/14/59	NA	NA	869.85
07/15/59	NA	NA	869.85
07/16/59	NA	NA	869.81
07/17/59	NA	NA	869.81
07/18/59	NA	NA	869.77
07/19/59	NA	NA	869.77
07/20/59	NA	NA	869.73
07/21/59	NA	NA	869.73
07/22/59	NA	NA	869.73
07/23/59	NA	NA	869.69
07/24/59	NA	NA	869.69
07/25/59	NA	NA	869.65
07/26/60	NA	NA	869.65
07/27/60	NA	NA	869.64
07/28/60	NA	NA	869.64
07/29/60	NA	NA	869.64
07/30/60	NA	NA	869.64
07/31/60	NA	NA	869.60
08/01/60	NA	NA	869.60
08/02/60	NA	NA	869.56
08/03/60	NA	NA	869.56
08/04/60	NA	NA	869.52
08/05/60	NA	NA	869.52
08/06/60	NA	NA	869.48
08/07/60	NA	NA	869.48
08/08/60	NA	NA	869.44
08/09/60	NA	NA	869.44
08/10/60	NA	NA	869.44
08/11/60	NA	NA	869.39
08/12/60	NA	NA	869.39
08/13/60	NA	NA	869.35
08/14/60	NA	NA	869.35
08/15/60	NA	NA	869.31
08/16/60	NA	NA	869.31
08/17/60	NA	NA	869.27
08/18/60	NA	NA	869.27
08/19/60	NA	NA	869.23
08/20/60	NA	NA	869.23
08/21/60	NA	NA	869.23
08/22/60	NA	NA	869.19
08/23/60	NA	NA	869.19
08/24/60	NA	NA	869.19
08/25/60	NA	NA	869.14
08/26/60	NA	NA	869.14
08/27/60	NA	NA	869.14
08/28/60	NA	NA	869.14
08/29/60	NA	NA	869.14
08/30/60	NA	NA	869.14
08/31/60	NA	NA	869.14
09/01/60	NA	NA	869.14
09/02/60	NA	NA	869.14
09/03/60	NA	NA	869.23

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	GDWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
03/10/60	NA	NA	669.84
03/11/60	NA	NA	662.80
03/13/60	NA	NA	662.06
03/15/60	NA	NA	660.62
03/14/60	NA	NA	658.48
03/15/60	NA	NA	659.44
03/16/60	NA	NA	658.38
03/17/60	NA	NA	659.38
03/18/60	NA	NA	662.39
03/19/60	NA	NA	660.35
03/20/60	NA	NA	658.39
03/21/60	NA	NA	659.29
03/22/60	NA	NA	660.36
03/23/60	NA	NA	658.38
03/24/60	NA	NA	662.39
03/25/60	NA	NA	661.39
03/26/60	NA	NA	659.44
03/27/60	NA	NA	660.45
03/28/60	NA	NA	661.68
03/29/60	NA	NA	664.66
03/30/60	NA	NA	664.64
03/31/60	NA	NA	663.64
04/01/60	NA	NA	669.75
04/02/60	NA	NA	669.73
04/03/60	NA	NA	670.81
04/04/60	NA	NA	669.81
04/05/60	NA	NA	670.85
04/06/60	NA	NA	671.85
04/07/60	NA	NA	670.85
04/08/60	NA	NA	670.85
04/09/60	NA	NA	670.81
04/10/60	NA	NA	670.81
04/11/60	NA	NA	669.77
04/12/60	NA	NA	668.77
04/13/60	NA	NA	668.77
04/14/60	NA	NA	669.77
04/15/60	NA	NA	668.73
04/16/60	NA	NA	668.73
04/17/60	NA	NA	669.73
04/18/60	NA	NA	668.73
04/19/60	NA	NA	669.75
04/20/60	NA	NA	668.75
04/21/60	NA	NA	668.75
04/22/60	NA	NA	668.75
04/23/60	NA	NA	668.77
04/24/60	NA	NA	668.77
04/25/60	NA	NA	668.77
04/26/60	NA	NA	668.77
04/27/60	NA	NA	668.77
04/28/60	NA	NA	668.77
04/29/60	NA	NA	668.77
04/30/60	NA	NA	669.77
05/01/60	NA	NA	669.77
05/02/60	NA	NA	669.77
05/03/60	NA	NA	669.73
05/04/60	NA	NA	669.73
05/05/60	NA	NA	669.73
05/06/60	NA	NA	669.73
05/07/60	NA	NA	669.73
05/08/60	NA	NA	668.73
05/09/60	NA	NA	668.73
05/10/60	NA	NA	668.73
05/11/60	NA	NA	668.73
05/12/60	NA	NA	668.69
05/13/60	NA	NA	669.69
05/14/60	NA	NA	669.69
05/15/60	NA	NA	669.73
05/16/60	NA	NA	669.73
05/17/60	NA	NA	669.73
05/18/60	NA	NA	669.73
05/19/60	NA	NA	669.73
05/20/60	NA	NA	669.73
05/21/60	NA	NA	669.73
05/22/60	NA	NA	668.73
05/23/60	NA	NA	669.73
05/24/60	NA	NA	669.73
05/25/60	NA	NA	669.73
05/26/60	NA	NA	668.81
05/27/60	NA	NA	668.81
05/28/60	NA	NA	668.81
05/29/60	NA	NA	668.81
05/30/60	NA	NA	668.81
05/31/60	NA	NA	668.81
06/01/60	NA	NA	668.81
06/02/60	NA	NA	668.81
06/03/60	NA	NA	668.81
06/04/60	NA	NA	668.81
06/05/60	NA	NA	668.77
06/06/60	NA	NA	668.77
06/07/60	NA	NA	668.73
06/08/60	NA	NA	668.73
06/09/60	NA	NA	668.73
06/10/60	NA	NA	668.69
06/11/60	NA	NA	668.69
06/12/60	NA	NA	668.69
06/13/60	NA	NA	668.68
06/14/60	NA	NA	668.73
06/15/60	NA	NA	668.73
06/16/60	NA	NA	668.73
06/17/60	NA	NA	668.73
06/18/60	NA	NA	668.73
06/19/60	NA	NA	668.71
06/20/60	NA	NA	668.73
06/21/60	NA	NA	668.73
06/22/60	NA	NA	668.72
06/23/60	NA	NA	668.73
06/24/60	NA	NA	668.73
06/25/60	NA	NA	668.73
06/26/60	NA	NA	668.69
06/27/60	NA	NA	668.69
06/28/60	NA	NA	668.69
06/29/60	NA	NA	668.69
06/30/60	NA	NA	668.69
07/01/60	NA	NA	668.68
07/02/60	NA	NA	668.64
07/03/60	NA	NA	668.64
07/04/60	NA	NA	668.64
07/05/60	NA	NA	668.60
07/06/60	NA	NA	668.56
07/07/60	NA	NA	668.56
07/08/60	NA	NA	668.52
07/09/60	NA	NA	668.52
07/10/60	NA	NA	668.48
07/11/60	NA	NA	668.48
07/12/60	NA	NA	668.48
07/13/60	NA	NA	668.45
07/14/60	NA	NA	668.64
07/15/60	NA	NA	668.73
07/16/60	NA	NA	668.73
07/17/60	NA	NA	668.69
07/18/60	NA	NA	668.69
07/19/60	NA	NA	668.68
07/20/60	NA	NA	668.64
07/21/60	NA	NA	668.64
07/22/60	NA	NA	668.64
07/23/60	NA	NA	668.64
07/24/60	NA	NA	668.73
07/25/60	NA	NA	668.73
07/26/60	NA	NA	668.73
07/27/60	NA	NA	668.73
07/28/60	NA	NA	668.73
07/29/60	NA	NA	668.73
07/30/60	NA	NA	668.73
07/31/60	NA	NA	668.73
08/01/60	NA	NA	668.73
08/02/60	NA	NA	668.73
08/03/60	NA	NA	668.73
08/04/60	NA	NA	668.73
08/05/60	NA	NA	668.73
08/06/60	NA	NA	668.73
08/07/60	NA	NA	668.73
08/08/60	NA	NA	668.73
08/09/60	NA	NA	668.73
08/10/60	NA	NA	668.73
08/11/60	NA	NA	668.73
08/12/60	NA	NA	668.73
08/13/60	NA	NA	668.73
08/14/60	NA	NA	668.73
08/15/60	NA	NA	668.73
08/16/60	NA	NA	668.73
08/17/60	NA	NA	668.73
08/18/60	NA	NA	668.73
08/19/60	NA	NA	668.73
08/20/60	NA	NA	668.73
08/21/60	NA	NA	668.73
08/22/60	NA	NA	668.73
08/23/60	NA	NA	668.73
08/24/60	NA	NA	668.73
08/25/60	NA	NA	668.73
08/26/60	NA	NA	668.73
08/27/60	NA	NA	668.73
08/28/60	NA	NA	668.73
08/29/60	NA	NA	668.73
08/30/60	NA	NA	668.73
08/31/60	NA	NA	668.73
09/01/60	NA	NA	668.73
09/02/60	NA	NA	668.73
09/03/60	NA	NA	668.73
09/04/60	NA	NA	668.73
09/05/60	NA	NA	668.73
09/06/60	NA	NA	668.73
09/07/60	NA	NA	668.73
09/08/60	NA	NA	668.73
09/09/60	NA	NA	668.73
09/10/60	NA	NA	668.73
09/11/60	NA	NA	668.73
09/12/60	NA	NA	668.73
09/13/60	NA	NA	668.73

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	DDNR Measurement (inches)	Measurement Location	Lake Elevation (feet, msl)
03/21/61	NA	NA	870.73
03/22/61	NA	NA	870.85
03/23/61	NA	NA	870.85
03/24/61	NA	NA	870.95
03/25/61	NA	NA	870.94
03/26/61	NA	NA	871.05
03/27/61	NA	NA	871.05
03/28/61	NA	NA	871.05
03/29/61	NA	NA	871.14
03/30/61	NA	NA	871.14
03/31/61	NA	NA	871.14
04/01/61	NA	NA	871.05
04/02/61	NA	NA	871.10
04/03/61	NA	NA	871.02
04/04/61	NA	NA	870.98
04/05/61	NA	NA	870.98
04/06/61	NA	NA	870.99
04/07/61	NA	NA	870.96
04/08/61	NA	NA	870.94
04/09/61	NA	NA	870.94
04/10/61	NA	NA	870.94
04/11/61	NA	NA	870.96
04/12/61	NA	NA	871.02
04/13/61	NA	NA	871.02
04/14/61	NA	NA	871.05
04/15/61	NA	NA	871.05
04/16/61	NA	NA	871.05
04/17/61	NA	NA	871.05
04/18/61	NA	NA	871.05
04/19/61	NA	NA	871.05
04/20/61	NA	NA	871.05
04/21/61	NA	NA	871.05
04/22/61	NA	NA	871.22
04/23/61	NA	NA	871.39
04/24/61	NA	NA	871.39
04/25/61	NA	NA	871.48
04/26/61	NA	NA	871.48
04/27/61	NA	NA	871.48
04/28/61	NA	NA	871.48
04/29/61	NA	NA	871.46
04/30/61	NA	NA	871.46
05/01/61	NA	NA	871.46
05/02/61	NA	NA	871.46
05/03/61	NA	NA	871.46
05/04/61	NA	NA	871.46
05/05/61	NA	NA	871.44
05/06/61	NA	NA	871.44
05/07/61	NA	NA	871.44
05/08/61	NA	NA	871.44
05/09/61	NA	NA	871.44
05/10/61	NA	NA	871.39
05/11/61	NA	NA	871.39
05/12/61	NA	NA	871.39
05/13/61	NA	NA	871.38
05/14/61	NA	NA	871.38
05/15/61	NA	NA	871.31
05/16/61	NA	NA	871.27
05/17/61	NA	NA	871.25
05/18/61	NA	NA	871.19
05/19/61	NA	NA	871.14
05/20/61	NA	NA	871.05
05/21/61	NA	NA	871.02
05/22/61	NA	NA	870.98
05/23/61	NA	NA	870.94
05/24/61	NA	NA	870.89
05/25/61	NA	NA	870.86
05/26/61	NA	NA	870.81
05/27/61	NA	NA	870.77
05/28/61	NA	NA	870.73
05/29/61	NA	NA	870.73
05/30/61	NA	NA	870.73
05/31/61	NA	NA	870.73
06/01/61	NA	NA	870.69
06/02/61	NA	NA	870.64
06/03/61	NA	NA	870.64
06/04/61	NA	NA	870.64
06/05/61	NA	NA	870.64
06/06/61	NA	NA	870.64
06/07/61	NA	NA	870.64
06/08/61	NA	NA	870.73
06/09/61	NA	NA	870.81
06/10/61	NA	NA	870.89
06/11/61	NA	NA	870.99
06/12/61	NA	NA	870.98
06/13/61	NA	NA	870.96
06/14/61	NA	NA	871.14
06/15/61	NA	NA	871.14
06/16/61	NA	NA	871.14
06/17/61	NA	NA	871.14
06/18/61	NA	NA	871.14
06/19/61	NA	NA	871.14
06/20/61	NA	NA	871.14
06/21/61	NA	NA	871.14
06/22/61	NA	NA	871.14
06/23/61	NA	NA	871.14
06/24/61	NA	NA	871.10
06/25/61	NA	NA	871.10
06/26/61	NA	NA	871.06
06/27/61	NA	NA	871.06
06/28/61	NA	NA	871.02
06/29/61	NA	NA	871.02
06/30/61	NA	NA	871.02
07/01/61	NA	NA	870.95
07/02/61	NA	NA	870.94
07/03/61	NA	NA	870.89
07/04/61	NA	NA	870.89
07/05/61	NA	NA	870.89
07/06/61	NA	NA	870.89
07/07/61	NA	NA	870.85
07/08/61	NA	NA	870.81
07/09/61	NA	NA	870.81
07/10/61	NA	NA	870.81
07/11/61	NA	NA	870.81
07/12/61	NA	NA	870.81
07/13/61	NA	NA	870.77
07/14/61	NA	NA	870.77
07/15/61	NA	NA	870.73
07/16/61	NA	NA	870.73
07/17/61	NA	NA	870.73
07/18/61	NA	NA	870.69
07/19/61	NA	NA	870.69
07/20/61	NA	NA	870.68
07/21/61	NA	NA	870.68
07/22/61	NA	NA	870.68
07/23/61	NA	NA	870.68
07/24/61	NA	NA	870.69
07/25/61	NA	NA	870.73
07/26/61	NA	NA	870.73
07/27/61	NA	NA	870.73
07/28/61	NA	NA	870.73
07/29/61	NA	NA	870.73
07/30/61	NA	NA	870.81
07/31/61	NA	NA	870.81
08/01/61	NA	NA	870.81
08/02/61	NA	NA	870.81
08/03/61	NA	NA	870.85
08/04/61	NA	NA	870.85
08/05/61	NA	NA	870.85
08/06/61	NA	NA	870.89
08/07/61	NA	NA	870.89
08/08/61	NA	NA	870.89
08/09/61	NA	NA	870.89
08/10/61	NA	NA	870.73
08/11/61	NA	NA	870.73
08/12/61	NA	NA	870.72
08/13/61	NA	NA	870.72
08/14/61	NA	NA	870.64
08/15/61	NA	NA	870.59
08/16/61	NA	NA	870.48
08/17/61	NA	NA	870.39
08/18/61	NA	NA	870.39
08/19/61	NA	NA	870.39
08/20/61	NA	NA	870.39
08/21/61	NA	NA	870.39
08/22/61	NA	NA	870.39
08/23/61	NA	NA	870.39
08/24/61	NA	NA	870.39
08/25/61	NA	NA	870.39
08/26/61	NA	NA	870.39
08/27/61	NA	NA	870.38
08/28/61	NA	NA	870.39
08/29/61	NA	NA	870.39
08/30/61	NA	NA	870.39
08/31/61	NA	NA	870.39
09/01/61	NA	NA	870.39
09/02/61	NA	NA	870.39
09/03/61	NA	NA	870.33
09/04/61	NA	NA	870.33
09/05/61	NA	NA	870.31
09/06/61	NA	NA	870.31
09/07/61	NA	NA	870.31
09/08/61	NA	NA	870.31
09/09/61	NA	NA	870.31
09/10/61	NA	NA	870.31
09/11/61	NA	NA	870.31
09/12/61	NA	NA	870.31
09/13/61	NA	NA	870.31
09/14/61	NA	NA	870.31
09/15/61	NA	NA	870.27
09/16/61	NA	NA	870.23
09/17/61	NA	NA	870.23
09/18/61	NA	NA	870.19
09/19/61	NA	NA	870.14
09/20/61	NA	NA	870.06
09/21/61	NA	NA	870.02
09/22/61	NA	NA	870.02
09/23/61	NA	NA	869.98
09/24/61	NA	NA	869.98

EB = East Bank
WB = West Bank
Br = Breakwater
NA = Not Available

Date	OSHA Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/01/62	NA	NA	870.19
04/02/62	NA	NA	870.14
04/03/62	NA	NA	870.10
04/04/62	NA	NA	870.10
04/05/62	NA	NA	870.08
04/06/62	NA	NA	870.08
04/07/62	NA	NA	870.08
04/08/62	NA	NA	870.08
04/09/62	NA	NA	870.08
04/10/62	NA	NA	870.08
04/11/62	NA	NA	870.08
04/12/62	NA	NA	870.08
04/13/62	NA	NA	870.08
04/14/62	NA	NA	870.08
04/15/62	NA	NA	870.08
04/16/62	NA	NA	870.08
04/17/62	NA	NA	870.08
04/18/62	NA	NA	870.08
04/19/62	NA	NA	870.08
04/20/62	NA	NA	870.02
04/21/62	NA	NA	870.02
04/22/62	NA	NA	869.98
04/23/62	NA	NA	869.98
04/24/62	NA	NA	869.98
04/25/62	NA	NA	869.98
04/26/62	NA	NA	869.94
04/27/62	NA	NA	869.94
04/28/62	NA	NA	869.94
04/29/62	NA	NA	869.89
04/30/62	NA	NA	869.89
05/01/62	NA	NA	869.94
05/02/62	NA	NA	869.89
05/03/62	NA	NA	870.02
05/04/62	NA	NA	870.02
05/05/62	NA	NA	870.02
05/06/62	NA	NA	870.02
05/07/62	NA	NA	870.02
05/08/62	NA	NA	870.06
05/09/62	NA	NA	870.06
05/10/62	NA	NA	870.01
05/11/62	NA	NA	870.02
05/12/62	NA	NA	869.98
05/13/62	NA	NA	869.98
05/14/62	NA	NA	869.94
05/15/62	NA	NA	869.89
05/16/62	NA	NA	869.89
05/17/62	NA	NA	869.89
05/18/62	NA	NA	869.89
05/19/62	NA	NA	869.94
05/20/62	NA	NA	869.94
05/21/62	NA	NA	869.94
05/22/62	NA	NA	869.94
05/23/62	NA	NA	869.89
05/24/62	NA	NA	869.89
05/25/62	NA	NA	869.85
05/26/62	NA	NA	869.83
05/27/62	NA	NA	869.85
05/28/62	NA	NA	869.85
05/29/62	NA	NA	869.85
05/30/62	NA	NA	869.85
05/31/62	NA	NA	869.85
06/01/62	NA	NA	869.85
06/02/62	NA	NA	869.85
06/03/62	NA	NA	869.81
06/04/62	NA	NA	869.81
06/05/62	NA	NA	869.81
06/06/62	NA	NA	869.77
06/07/62	NA	NA	869.77
06/08/62	NA	NA	869.77
06/09/62	NA	NA	869.77
06/10/62	NA	NA	869.77
06/11/62	NA	NA	869.77
06/12/62	NA	NA	869.77
06/13/62	NA	NA	869.77
06/14/62	NA	NA	869.77
06/15/62	NA	NA	869.73
06/16/62	NA	NA	869.73
06/17/62	NA	NA	869.73
06/18/62	NA	NA	869.73
06/19/62	NA	NA	869.73
06/20/62	NA	NA	869.73
06/21/62	NA	NA	869.69
06/22/62	NA	NA	869.69
06/23/62	NA	NA	869.69
06/24/62	NA	NA	869.69
06/25/62	NA	NA	869.69
06/26/62	NA	NA	869.69
06/27/62	NA	NA	869.69
06/28/62	NA	NA	869.69
06/29/62	NA	NA	869.69
06/30/62	NA	NA	869.69
07/01/62	NA	NA	869.64
07/02/62	NA	NA	869.60
07/03/62	NA	NA	869.60
07/04/62	NA	NA	869.65
07/05/62	NA	NA	869.56
07/06/62	NA	NA	869.56
07/07/62	NA	NA	869.56
07/08/62	NA	NA	869.56
07/09/62	NA	NA	869.48
07/10/62	NA	NA	869.48
07/11/62	NA	NA	869.48
07/12/62	NA	NA	869.44
07/13/62	NA	NA	869.44
07/14/62	NA	NA	869.44
07/15/62	NA	NA	869.44
07/16/62	NA	NA	869.44
07/17/62	NA	NA	869.38
07/18/62	NA	NA	869.38
07/19/62	NA	NA	869.38
07/20/62	NA	NA	869.38
07/21/62	NA	NA	869.38
07/22/62	NA	NA	869.38
07/23/62	NA	NA	869.39
07/24/62	NA	NA	869.35
07/25/62	NA	NA	869.35
07/26/62	NA	NA	869.35
07/27/62	NA	NA	869.35
07/28/62	NA	NA	869.35
07/29/62	NA	NA	869.35
07/30/62	NA	NA	869.31
07/31/62	NA	NA	869.31
08/01/62	NA	NA	869.27
08/02/62	NA	NA	869.27
08/03/62	NA	NA	869.23
08/04/62	NA	NA	869.23
08/05/62	NA	NA	869.19
08/06/62	NA	NA	869.19
08/07/62	NA	NA	869.19
08/08/62	NA	NA	869.14
08/09/62	NA	NA	869.14
08/10/62	NA	NA	869.10
08/11/62	NA	NA	869.10
08/12/62	NA	NA	869.06
08/13/62	NA	NA	869.06
08/14/62	NA	NA	869.06
08/15/62	NA	NA	869.02
08/16/62	NA	NA	869.02
08/17/62	NA	NA	868.98
08/18/62	NA	NA	868.98
08/19/62	NA	NA	868.94
08/20/62	NA	NA	868.94
08/21/62	NA	NA	868.94
08/22/62	NA	NA	868.89
08/23/62	NA	NA	868.89
08/24/62	NA	NA	868.89
08/25/62	NA	NA	868.89
08/26/62	NA	NA	868.89
08/27/62	NA	NA	868.89
08/28/62	NA	NA	868.85
08/29/62	NA	NA	868.85
08/30/62	NA	NA	868.85
08/31/62	NA	NA	868.85
09/01/62	NA	NA	868.81
09/02/62	NA	NA	868.81
09/03/62	NA	NA	868.81
09/04/62	NA	NA	868.81
09/05/62	NA	NA	868.81
09/06/62	NA	NA	868.81
09/07/62	NA	NA	868.81
09/08/62	NA	NA	868.81
09/09/62	NA	NA	868.81
09/10/62	NA	NA	868.81
09/11/62	NA	NA	868.81
09/12/62	NA	NA	868.81
09/13/62	NA	NA	868.81
09/14/62	NA	NA	868.81
09/15/62	NA	NA	868.81
09/16/62	NA	NA	868.85
09/17/62	NA	NA	868.85
09/18/62	NA	NA	868.85
09/19/62	NA	NA	868.89
09/20/62	NA	NA	868.89
09/21/62	NA	NA	868.85
09/22/62	NA	NA	868.81
09/23/62	NA	NA	868.77
09/24/62	NA	NA	868.73
09/25/62	NA	NA	868.73
09/26/62	NA	NA	868.68
09/27/62	NA	NA	868.64
09/28/62	NA	NA	868.64
09/29/62	NA	NA	868.60
09/30/62	NA	NA	868.60
10/01/62	NA	NA	868.60
10/02/62	NA	NA	868.60
10/03/62	NA	NA	868.60
10/04/62	NA	NA	868.60
10/05/62	NA	NA	868.60

BR = Red Rock
WR = West Bank
BR = Boathouse
NA = Not Available

Date	DENR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/13/63	NA	NA	870.35
04/14/63	NA	NA	870.31
04/15/63	NA	NA	870.31
04/16/63	NA	NA	870.31
04/16/63	NA	NA	870.27
04/17/63	NA	NA	870.27
04/18/63	NA	NA	870.31
04/19/63	NA	NA	870.31
04/20/63	NA	NA	870.35
04/21/63	NA	NA	870.39
04/22/63	NA	NA	870.39
04/23/63	NA	NA	870.39
04/24/63	NA	NA	870.43
04/25/63	NA	NA	870.45
04/26/63	NA	NA	870.49
04/27/63	NA	NA	870.45
04/28/63	NA	NA	870.52
04/29/63	NA	NA	870.52
04/30/63	NA	NA	870.56
05/01/63	NA	NA	870.56
05/02/63	NA	NA	870.56
05/03/63	NA	NA	870.56
05/04/63	NA	NA	870.56
05/05/63	NA	NA	870.56
05/06/63	NA	NA	870.56
05/07/63	NA	NA	870.56
05/08/63	NA	NA	870.56
05/09/63	NA	NA	870.56
05/10/63	NA	NA	870.56
05/11/63	NA	NA	870.56
05/12/63	NA	NA	870.56
05/13/63	NA	NA	870.56
05/14/63	NA	NA	870.56
05/15/63	NA	NA	870.56
05/16/63	NA	NA	870.56
05/17/63	NA	NA	870.56
05/18/63	NA	NA	870.56
05/19/63	NA	NA	870.56
05/20/63	NA	NA	870.56
05/21/63	NA	NA	870.56
05/22/63	NA	NA	870.56
05/23/63	NA	NA	870.56
05/24/63	NA	NA	870.56
05/25/63	NA	NA	870.56
05/26/63	NA	NA	870.56
05/27/63	NA	NA	870.52
05/28/63	NA	NA	870.48
05/29/63	NA	NA	870.48
05/30/63	NA	NA	870.48
05/31/63	NA	NA	870.48
06/01/63	NA	NA	870.48
06/02/63	NA	NA	870.48
06/03/63	NA	NA	870.48
06/04/63	NA	NA	870.48
06/05/63	NA	NA	870.48
06/06/63	NA	NA	870.48
06/07/63	NA	NA	870.48
06/08/63	NA	NA	870.48
06/09/63	NA	NA	870.52
06/10/63	NA	NA	870.44
06/11/63	NA	NA	870.44
06/12/63	NA	NA	870.44
06/13/63	NA	NA	870.44
06/14/63	NA	NA	870.48
06/15/63	NA	NA	870.43
06/16/63	NA	NA	870.43
06/17/63	NA	NA	870.43
06/18/63	NA	NA	870.39
06/19/63	NA	NA	870.39
06/20/63	NA	NA	870.35
06/21/63	NA	NA	870.35
06/22/63	NA	NA	870.31
06/23/63	NA	NA	870.31
06/24/63	NA	NA	870.27
06/25/63	NA	NA	870.27
06/26/63	NA	NA	870.23
06/27/63	NA	NA	870.19
06/28/63	NA	NA	870.19
06/29/63	NA	NA	870.19
06/30/63	NA	NA	870.14
07/01/63	NA	NA	870.14
07/02/63	NA	NA	870.10
07/03/63	NA	NA	870.10
07/04/63	NA	NA	870.10
07/05/63	NA	NA	870.06
07/06/63	NA	NA	870.06
07/07/63	NA	NA	870.02
07/08/63	NA	NA	870.02
07/09/63	NA	NA	870.02
07/10/63	NA	NA	869.98
07/11/63	NA	NA	869.98
07/12/63	NA	NA	869.94
07/13/63	NA	NA	869.94
07/14/63	NA	NA	869.91
07/15/63	NA	NA	869.91
07/16/63	NA	NA	869.98
07/17/63	NA	NA	883.98
07/18/63	NA	NA	868.98
07/19/63	NA	NA	869.98
07/20/63	NA	NA	869.98
07/21/63	NA	NA	869.98
07/22/63	NA	NA	869.98
07/23/63	NA	NA	869.98
07/24/63	NA	NA	869.94
07/25/63	NA	NA	869.94
07/26/63	NA	NA	869.94
07/27/63	NA	NA	869.94
07/28/63	NA	NA	869.88
07/29/63	NA	NA	868.88
07/30/63	NA	NA	869.89
07/31/63	NA	NA	869.89
08/01/63	NA	NA	869.85
08/02/63	NA	NA	869.85
08/03/63	NA	NA	869.81
08/04/63	NA	NA	869.81
08/05/63	NA	NA	869.81
08/06/63	NA	NA	869.81
08/07/63	NA	NA	869.81
08/08/63	NA	NA	869.81
08/09/63	NA	NA	869.81
08/10/63	NA	NA	869.81
08/11/63	NA	NA	869.77
08/12/63	NA	NA	868.77
08/13/63	NA	NA	868.77
08/14/63	NA	NA	868.77
08/15/63	NA	NA	869.73
08/16/63	NA	NA	869.73
08/17/63	NA	NA	869.73
08/18/63	NA	NA	869.73
08/19/63	NA	NA	869.73
08/20/63	NA	NA	869.73
08/21/63	NA	NA	869.69
08/22/63	NA	NA	869.69
08/23/63	NA	NA	869.64
08/24/63	NA	NA	869.64
08/25/63	NA	NA	869.65
08/26/63	NA	NA	869.60
08/27/63	NA	NA	869.56
08/28/63	NA	NA	869.56
08/29/63	NA	NA	869.56
08/30/63	NA	NA	869.56
08/31/63	NA	NA	869.52
09/01/63	NA	NA	869.48
09/02/63	NA	NA	869.48
09/03/63	NA	NA	869.44
09/04/63	NA	NA	869.44
09/05/63	NA	NA	869.44
09/06/63	NA	NA	869.44
09/07/63	NA	NA	868.29
09/08/63	NA	NA	869.29
09/09/63	NA	NA	869.35
09/10/63	NA	NA	869.35
09/11/63	NA	NA	869.31
09/12/63	NA	NA	869.31
09/13/63	NA	NA	869.27
09/14/63	NA	NA	869.23
09/15/63	NA	NA	869.23
09/16/63	NA	NA	869.19
09/17/63	NA	NA	868.19
09/18/63	NA	NA	869.14
09/19/63	NA	NA	869.14
09/20/63	NA	NA	869.14
09/21/63	NA	NA	869.19
09/22/63	NA	NA	869.19
09/23/63	NA	NA	869.06
09/24/63	NA	NA	869.06
09/25/63	NA	NA	869.06
09/26/63	NA	NA	869.06
09/27/63	NA	NA	869.02
09/28/63	NA	NA	869.02
09/29/63	NA	NA	868.98
09/30/63	NA	NA	868.98
10/01/63	NA	NA	868.94
10/02/63	NA	NA	868.94
10/03/63	NA	NA	868.94
10/04/63	NA	NA	868.94
10/05/63	NA	NA	868.94
10/06/63	NA	NA	868.94
10/07/63	NA	NA	868.88
10/08/63	NA	NA	868.88
10/09/63	NA	NA	868.85
10/10/63	NA	NA	868.81
10/11/63	NA	NA	868.81
10/12/63	NA	NA	868.81
10/13/63	NA	NA	868.77
10/14/63	NA	NA	868.77
10/15/63	NA	NA	868.73
10/16/63	NA	NA	868.73

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	DDNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
04/22/64	NA	NA	871.48
04/23/64	NA	NA	871.38
04/24/64	NA	NA	871.06
04/25/64	NA	NA	871.52
04/26/64	NA	NA	871.92
04/27/64	NA	NA	871.48
04/28/64	NA	NA	871.48
04/29/64	NA	NA	871.48
04/30/64	NA	NA	871.48
05/01/64	NA	NA	871.48
05/02/64	NA	NA	871.31
05/03/64	NA	NA	871.31
05/04/64	NA	NA	871.53
05/05/64	NA	NA	871.23
05/06/64	NA	NA	871.14
05/07/64	NA	NA	870.85
05/08/64	NA	NA	870.69
05/09/64	NA	NA	870.81
05/10/64	NA	NA	870.81
05/11/64	NA	NA	870.81
05/12/64	NA	NA	870.81
05/13/64	NA	NA	870.81
05/14/64	NA	NA	870.73
05/15/64	NA	NA	870.73
05/16/64	NA	NA	870.73
05/17/64	NA	NA	870.73
05/18/64	NA	NA	870.73
05/19/64	NA	NA	870.73
05/20/64	NA	NA	870.64
05/21/64	NA	NA	870.64
05/22/64	NA	NA	870.64
05/23/64	NA	NA	870.64
05/24/64	NA	NA	870.64
05/25/64	NA	NA	870.64
05/26/64	NA	NA	870.64
05/27/64	NA	NA	870.64
05/28/64	NA	NA	870.56
05/29/64	NA	NA	870.56
05/30/64	NA	NA	870.52
05/31/64	NA	NA	870.52
06/01/64	NA	NA	870.45
06/02/64	NA	NA	870.45
06/03/64	NA	NA	870.45
06/04/64	NA	NA	870.45
06/05/64	NA	NA	870.45
06/06/64	NA	NA	870.46
06/07/64	NA	NA	870.46
06/08/64	NA	NA	870.46
06/09/64	NA	NA	870.45
06/10/64	NA	NA	870.48
06/11/64	NA	NA	870.48
06/12/64	NA	NA	870.42
06/13/64	NA	NA	870.43
06/14/64	NA	NA	870.41
06/15/64	NA	NA	870.41
06/16/64	NA	NA	870.41
06/17/64	NA	NA	870.43
06/18/64	NA	NA	870.43
06/19/64	NA	NA	870.45
06/20/64	NA	NA	870.46
06/21/64	NA	NA	870.36
06/22/64	NA	NA	870.39
06/23/64	NA	NA	870.39
06/24/64	NA	NA	870.39
06/25/64	NA	NA	870.33
06/26/64	NA	NA	870.31
06/27/64	NA	NA	870.31
06/28/64	NA	NA	870.31
06/29/64	NA	NA	870.31
06/30/64	NA	NA	870.27
07/01/64	NA	NA	870.27
07/02/64	NA	NA	870.27
07/03/64	NA	NA	870.23
07/04/64	NA	NA	870.23
07/05/64	NA	NA	870.18
07/06/64	NA	NA	870.19
07/07/64	NA	NA	870.14
07/08/64	NA	NA	870.18
07/09/64	NA	NA	870.19
07/10/64	NA	NA	870.19
07/11/64	NA	NA	870.19
07/12/64	NA	NA	870.19
07/13/64	NA	NA	870.18
07/14/64	NA	NA	870.14
07/15/64	NA	NA	870.14
07/16/64	NA	NA	870.14
07/17/64	NA	NA	870.14
07/18/64	NA	NA	870.10
07/19/64	NA	NA	870.13
07/20/64	NA	NA	870.11
07/21/64	NA	NA	870.18
07/22/64	NA	NA	870.18
07/23/64	NA	NA	870.18
07/24/64	NA	NA	870.06
07/25/64	NA	NA	870.02
07/26/64	NA	NA	870.02
07/27/64	NA	NA	869.98
07/28/64	NA	NA	869.98
07/29/64	NA	NA	869.94
07/30/64	NA	NA	869.91
07/31/64	NA	NA	869.95
08/01/64	NA	NA	869.89
08/02/64	NA	NA	869.89
08/03/64	NA	NA	869.83
08/04/64	NA	NA	869.81
08/05/64	NA	NA	869.81
08/06/64	NA	NA	869.77
08/07/64	NA	NA	869.77
08/08/64	NA	NA	869.73
08/09/64	NA	NA	869.69
08/10/64	NA	NA	869.64
08/11/64	NA	NA	869.64
08/12/64	NA	NA	869.60
08/13/64	NA	NA	869.56
08/14/64	NA	NA	869.58
08/15/64	NA	NA	869.52
08/16/64	NA	NA	869.48
08/17/64	NA	NA	869.48
08/18/64	NA	NA	869.48
08/19/64	NA	NA	869.48
08/20/64	NA	NA	869.44
08/21/64	NA	NA	869.44
08/22/64	NA	NA	869.44
08/23/64	NA	NA	869.44
08/24/64	NA	NA	869.39
08/25/64	NA	NA	869.39
08/26/64	NA	NA	869.35
08/27/64	NA	NA	869.35
08/28/64	NA	NA	869.31
08/29/64	NA	NA	869.31
08/30/64	NA	NA	869.31
08/31/64	NA	NA	869.27
09/01/64	NA	NA	869.27
09/02/64	NA	NA	869.27
09/03/64	NA	NA	869.23
09/04/64	NA	NA	869.23
09/05/64	NA	NA	869.19
09/06/64	NA	NA	869.19
09/07/64	NA	NA	869.14
09/08/64	NA	NA	869.14
09/09/64	NA	NA	869.10
09/10/64	NA	NA	869.10
09/11/64	NA	NA	869.10
09/12/64	NA	NA	869.06
09/13/64	NA	NA	869.06
09/14/64	NA	NA	869.06
09/15/64	NA	NA	869.06
09/16/64	NA	NA	869.06
09/17/64	NA	NA	869.02
09/18/64	NA	NA	869.02
09/19/64	NA	NA	869.02
09/20/64	NA	NA	869.02
09/21/64	NA	NA	868.98
09/22/64	NA	NA	868.98
09/23/64	NA	NA	868.98
09/24/64	NA	NA	868.94
09/25/64	NA	NA	868.94
09/26/64	NA	NA	868.89
09/27/64	NA	NA	868.89
09/28/64	NA	NA	868.85
09/29/64	NA	NA	868.85
09/30/64	NA	NA	868.85
10/01/64	NA	NA	868.81
10/02/64	NA	NA	868.81
10/03/64	NA	NA	868.81
10/04/64	NA	NA	868.81
10/05/64	NA	NA	868.81
10/06/64	NA	NA	868.77
10/07/64	NA	NA	868.77
10/08/64	NA	NA	868.77
10/09/64	NA	NA	868.77
10/10/64	NA	NA	868.73
10/11/64	NA	NA	868.73
10/12/64	NA	NA	868.69
10/13/64	NA	NA	868.69
10/14/64	NA	NA	868.69
10/15/64	NA	NA	868.69
10/16/64	NA	NA	868.64
10/17/64	NA	NA	868.64
10/18/64	NA	NA	868.64
10/19/64	NA	NA	868.64
10/20/64	NA	NA	868.64
10/21/64	NA	NA	868.64
10/22/64	NA	NA	868.64
10/23/64	NA	NA	868.64
10/24/64	NA	NA	868.64
10/25/64	NA	NA	868.64
10/26/64	NA	NA	868.64

EB = East Bank
WB = West Bank
GH = Guesthouse
NA = Not Available

Date	Gage Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/02/65	NA	NA	870.81
05/04/65	NA	NA	870.77
05/05/65	NA	NA	870.77
05/06/65	NA	NA	870.77
05/07/65	NA	NA	870.77
05/08/65	NA	NA	870.77
05/09/65	NA	NA	870.73
05/10/65	NA	NA	870.73
05/11/65	NA	NA	870.73
05/12/65	NA	NA	870.68
05/13/65	NA	NA	870.63
05/14/65	NA	NA	870.59
05/15/65	NA	NA	870.59
05/16/65	NA	NA	870.64
05/17/65	NA	NA	870.64
05/18/65	NA	NA	870.64
05/19/65	NA	NA	870.59
05/20/65	NA	NA	870.59
05/21/65	NA	NA	870.59
05/22/65	NA	NA	870.59
05/23/65	NA	NA	870.56
05/24/65	NA	NA	870.56
05/25/65	NA	NA	870.56
05/26/65	NA	NA	870.56
05/27/65	NA	NA	870.56
05/28/65	NA	NA	870.59
05/29/65	NA	NA	870.62
05/30/65	NA	NA	870.62
05/31/65	NA	NA	870.48
06/01/65	NA	NA	870.48
06/02/65	NA	NA	870.48
06/03/65	NA	NA	870.48
06/04/65	NA	NA	870.43
06/05/65	NA	NA	870.43
06/06/65	NA	NA	870.43
06/07/65	NA	NA	870.43
06/08/65	NA	NA	870.43
06/09/65	NA	NA	870.43
06/10/65	NA	NA	870.41
06/11/65	NA	NA	870.35
06/12/65	NA	NA	870.33
06/13/65	NA	NA	870.33
06/14/65	NA	NA	870.39
06/15/65	NA	NA	870.33
06/16/65	NA	NA	870.31
06/17/65	NA	NA	870.31
06/18/65	NA	NA	870.31
06/19/65	NA	NA	870.23
06/20/65	NA	NA	870.23
06/21/65	NA	NA	870.23
06/22/65	NA	NA	870.19
06/23/65	NA	NA	870.19
06/24/65	NA	NA	870.19
06/25/65	NA	NA	870.14
06/26/65	NA	NA	870.14
06/27/65	NA	NA	870.18
06/28/65	NA	NA	870.10
06/29/65	NA	NA	870.06
06/30/65	NA	NA	870.06
07/01/65	NA	NA	870.06
07/02/65	NA	NA	870.02
07/03/65	NA	NA	869.98
07/04/65	NA	NA	869.94
07/05/65	NA	NA	869.94
07/06/65	NA	NA	869.90
07/07/65	NA	NA	869.90
07/08/65	NA	NA	869.85
07/09/65	NA	NA	869.85
07/10/65	NA	NA	869.85
07/11/65	NA	NA	869.81
07/12/65	NA	NA	869.81
07/13/65	NA	NA	869.77
07/14/65	NA	NA	869.73
07/15/65	NA	NA	869.73
07/16/65	NA	NA	869.73
07/17/65	NA	NA	869.68
07/18/65	NA	NA	869.68
07/19/65	NA	NA	869.64
07/20/65	NA	NA	869.64
07/21/65	NA	NA	869.64
07/22/65	NA	NA	869.64
07/23/65	NA	NA	869.64
07/24/65	NA	NA	869.64
07/25/65	NA	NA	869.64
07/26/65	NA	NA	869.60
07/27/65	NA	NA	869.60
07/28/65	NA	NA	869.56
07/29/65	NA	NA	869.56
07/30/65	NA	NA	869.52
07/31/65	NA	NA	869.52
08/01/65	NA	NA	869.52
08/02/65	NA	NA	869.48
08/03/65	NA	NA	869.48
08/04/65	NA	NA	869.48
08/05/65	NA	NA	869.44
08/06/65	NA	NA	869.44
08/07/65	NA	NA	869.44
08/08/65	NA	NA	869.44
08/09/65	NA	NA	869.39
08/10/65	NA	NA	869.39
08/11/65	NA	NA	869.35
08/12/65	NA	NA	869.35
08/13/65	NA	NA	869.31
08/14/65	NA	NA	869.27
08/15/65	NA	NA	869.27
08/16/65	NA	NA	869.23
08/17/65	NA	NA	869.23
08/18/65	NA	NA	869.19
08/19/65	NA	NA	869.19
08/20/65	NA	NA	869.14
08/21/65	NA	NA	869.14
08/22/65	NA	NA	869.10
08/23/65	NA	NA	869.06
08/24/65	NA	NA	869.06
08/25/65	NA	NA	869.06
08/26/65	NA	NA	869.06
08/27/65	NA	NA	869.06
08/28/65	NA	NA	868.90
08/29/65	NA	NA	868.90
08/30/65	NA	NA	868.90
08/31/65	NA	NA	868.90
09/01/65	NA	NA	869.02
09/02/65	NA	NA	869.02
09/03/65	NA	NA	869.02
09/04/65	NA	NA	869.02
09/05/65	NA	NA	869.02
09/06/65	NA	NA	868.98
09/07/65	NA	NA	868.98
09/08/65	NA	NA	868.98
09/09/65	NA	NA	868.98
09/10/65	NA	NA	868.94
09/11/65	NA	NA	868.94
09/12/65	NA	NA	868.94
09/13/65	NA	NA	868.94
09/14/65	NA	NA	868.94
09/15/65	NA	NA	868.94
09/16/65	NA	NA	868.94
09/17/65	NA	NA	868.94
09/18/65	NA	NA	868.94
09/19/65	NA	NA	868.94
09/20/65	NA	NA	868.90
09/21/65	NA	NA	868.90
09/22/65	NA	NA	868.90
09/23/65	NA	NA	868.85
09/24/65	NA	NA	868.85
09/25/65	NA	NA	868.85
09/26/65	NA	NA	868.85
09/27/65	NA	NA	868.85
09/28/65	NA	NA	868.85
09/29/65	NA	NA	868.81
09/30/65	NA	NA	868.81
10/01/65	NA	NA	868.81
10/02/65	NA	NA	868.81
10/03/65	NA	NA	868.81
10/04/65	NA	NA	868.81
10/05/65	NA	NA	868.81
10/06/65	NA	NA	868.81
10/07/65	NA	NA	868.81
10/08/65	NA	NA	868.81
10/09/65	NA	NA	868.77
10/10/65	NA	NA	868.77
10/11/65	NA	NA	868.77
10/12/65	NA	NA	868.77
10/13/65	NA	NA	868.77
10/14/65	NA	NA	868.77
10/15/65	NA	NA	868.77
10/16/65	NA	NA	868.77
10/17/65	NA	NA	868.77
10/18/65	NA	NA	868.73
10/19/65	NA	NA	868.73
10/20/65	NA	NA	868.73
10/21/65	NA	NA	868.81
10/22/65	NA	NA	868.69
10/23/65	NA	NA	868.65
10/24/65	NA	NA	868.65
10/25/65	NA	NA	868.58
10/26/65	NA	NA	868.98
10/27/65	NA	NA	868.98
10/28/65	NA	NA	868.94
10/29/65	NA	NA	868.94
10/30/65	NA	NA	868.90
10/31/65	NA	NA	868.90
11/01/65	NA	NA	868.58
11/02/65	NA	NA	868.58
11/03/65	NA	NA	868.58
11/04/65	NA	NA	868.98
11/05/65	NA	NA	868.94
11/06/65	NA	NA	868.90

(G) = Gage Rana
(W) = Water Bank
(E) = Estimated
NA = Not Available

Date	QCHR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/14/66	NA	NA	868.45
05/15/66	NA	NA	868.48
05/16/66	NA	NA	868.48
05/17/66	NA	NA	868.52
05/18/66	NA	NA	868.52
05/19/66	NA	NA	868.52
05/20/66	NA	NA	868.52
05/21/66	NA	NA	868.59
05/22/66	NA	NA	868.60
05/23/66	NA	NA	868.64
05/24/66	NA	NA	868.64
05/25/66	NA	NA	868.64
05/26/66	NA	NA	868.64
05/27/66	NA	NA	868.64
05/28/66	NA	NA	868.64
05/29/66	NA	NA	868.64
05/30/66	NA	NA	868.64
05/31/66	NA	NA	868.64
06/01/66	NA	NA	867.64
06/02/66	NA	NA	867.64
06/03/66	NA	NA	868.60
06/04/66	NA	NA	868.60
06/05/66	NA	NA	868.60
06/06/66	NA	NA	868.56
06/07/66	NA	NA	868.56
06/08/66	NA	NA	868.52
06/09/66	NA	NA	868.52
06/10/66	NA	NA	868.48
06/11/66	NA	NA	868.48
06/12/66	NA	NA	868.44
06/13/66	NA	NA	868.39
06/14/66	NA	NA	868.39
06/15/66	NA	NA	868.39
06/16/66	NA	NA	868.35
06/17/66	NA	NA	868.35
06/18/66	NA	NA	868.35
06/19/66	NA	NA	868.31
06/20/66	NA	NA	868.31
06/21/66	NA	NA	868.31
06/22/66	NA	NA	868.27
06/23/66	NA	NA	868.23
06/24/66	NA	NA	868.19
06/25/66	NA	NA	868.19
06/26/66	NA	NA	868.19
06/27/66	NA	NA	868.14
06/28/66	NA	NA	868.14
06/29/66	NA	NA	868.10
06/30/66	NA	NA	868.10
07/01/66	NA	NA	868.10
07/02/66	NA	NA	868.06
07/03/66	NA	NA	868.06
07/04/66	NA	NA	868.06
07/05/66	NA	NA	868.06
07/06/66	NA	NA	868.06
07/07/66	NA	NA	868.02
07/08/66	NA	NA	868.02
07/09/66	NA	NA	868.02
07/10/66	NA	NA	868.98
07/11/66	NA	NA	868.94
07/12/66	NA	NA	868.94
07/13/66	NA	NA	868.94
07/14/66	NA	NA	868.94
07/15/66	NA	NA	868.89
07/16/66	NA	NA	868.85
07/17/66	NA	NA	868.85
07/18/66	NA	NA	868.81
07/19/66	NA	NA	868.81
07/20/66	NA	NA	868.77
07/21/66	NA	NA	868.77
07/22/66	NA	NA	868.73
07/23/66	NA	NA	868.73
07/24/66	NA	NA	868.69
07/25/66	NA	NA	868.69
07/26/66	NA	NA	868.69
07/27/66	NA	NA	868.64
07/28/66	NA	NA	868.64
07/29/66	NA	NA	868.64
07/30/66	NA	NA	868.64
07/31/66	NA	NA	868.69
08/01/66	NA	NA	868.96
08/02/66	NA	NA	868.92
08/03/66	NA	NA	868.46
08/04/66	NA	NA	868.46
08/05/66	NA	NA	868.44
08/06/66	NA	NA	868.39
08/07/66	NA	NA	868.39
08/08/66	NA	NA	868.39
08/09/66	NA	NA	868.35
08/10/66	NA	NA	868.35
08/11/66	NA	NA	868.35
08/12/66	NA	NA	868.31
08/13/66	NA	NA	868.31
08/14/66	NA	NA	868.31
08/15/66	NA	NA	868.31
08/16/66	NA	NA	868.31
08/17/66	NA	NA	868.31
08/18/66	NA	NA	868.31
08/19/66	NA	NA	868.31
08/20/66	NA	NA	868.27
08/21/66	NA	NA	868.27
08/22/66	NA	NA	868.27
08/23/66	NA	NA	868.27
08/24/66	NA	NA	868.27
08/25/66	NA	NA	868.27
08/26/66	NA	NA	868.27
08/27/66	NA	NA	868.23
08/28/66	NA	NA	868.23
08/29/66	NA	NA	868.23
08/30/66	NA	NA	868.19
08/31/66	NA	NA	868.19
09/01/66	NA	NA	868.14
09/02/66	NA	NA	868.14
09/03/66	NA	NA	868.14
09/04/66	NA	NA	868.14
09/05/66	NA	NA	868.14
09/06/66	NA	NA	868.14
09/07/66	NA	NA	868.10
09/08/66	NA	NA	868.10
09/09/66	NA	NA	868.10
09/10/66	NA	NA	868.06
09/11/66	NA	NA	868.06
09/12/66	NA	NA	868.02
09/13/66	NA	NA	868.02
09/14/66	NA	NA	868.02
09/15/66	NA	NA	868.02
09/16/66	NA	NA	868.02
09/17/66	NA	NA	868.02
09/18/66	NA	NA	867.98
09/19/66	NA	NA	867.98
09/20/66	NA	NA	867.98
09/21/66	NA	NA	867.94
09/22/66	NA	NA	867.94
09/23/66	NA	NA	867.94
09/24/66	NA	NA	867.94
09/25/66	NA	NA	867.94
09/26/66	NA	NA	867.94
09/27/66	NA	NA	867.94
09/28/66	NA	NA	867.94
09/29/66	NA	NA	867.94
09/30/66	NA	NA	867.94
10/01/66	NA	NA	867.89
10/02/66	NA	NA	867.89
10/03/66	NA	NA	867.89
10/04/66	NA	NA	867.89
10/05/66	NA	NA	867.85
10/06/66	NA	NA	867.85
10/07/66	NA	NA	867.85
10/08/66	NA	NA	867.85
10/09/66	NA	NA	867.81
10/10/66	NA	NA	867.81
10/11/66	NA	NA	867.81
10/12/66	NA	NA	867.81
10/13/66	NA	NA	867.81
10/14/66	NA	NA	867.81
10/15/66	NA	NA	867.81
10/16/66	NA	NA	867.81
10/17/66	NA	NA	867.81
10/18/66	NA	NA	867.81
10/19/66	NA	NA	867.81
10/20/66	NA	NA	867.81
10/21/66	NA	NA	867.81
10/22/66	NA	NA	867.81
10/23/66	NA	NA	867.81
10/24/66	NA	NA	867.77
10/25/66	NA	NA	867.77
10/26/66	NA	NA	867.77
10/27/66	NA	NA	867.73
10/28/66	NA	NA	867.73
10/29/66	NA	NA	867.73
10/30/66	NA	NA	867.73
10/31/66	NA	NA	867.73
11/01/66	NA	NA	867.73
11/02/66	NA	NA	867.73
11/03/66	NA	NA	867.73
11/04/66	NA	NA	867.73
11/05/66	NA	NA	867.73
11/06/66	NA	NA	867.73
11/07/66	NA	NA	867.81
11/08/66	NA	NA	867.81
11/09/66	NA	NA	867.88
11/10/66	NA	NA	867.88
11/11/66	NA	NA	868.06
11/12/66	NA	NA	868.06
11/13/66	NA	NA	868.06
11/14/66	NA	NA	868.06
11/15/66	NA	NA	868.06
11/16/66	NA	NA	868.06
11/17/66	NA	NA	868.06

CH = Real Rank
NA = Not Rank
Est = Not Known
NA = Not Available

Date	GDN # Measurement (meters)	Measurement Location	Lake Elevation (feet msl)
05/25/67	NA	NA	870.89
05/26/67	NA	NA	870.89
05/27/67	NA	NA	870.89
05/28/67	NA	NA	870.89
05/29/67	NA	NA	870.85
05/30/67	NA	NA	870.83
05/31/67	NA	NA	870.81
06/01/67	NA	NA	870.81
06/02/67	NA	NA	870.81
06/03/67	NA	NA	870.81
06/04/67	NA	NA	870.77
06/05/67	NA	BR	870.77
06/06/67	NA	NA	870.77
06/07/67	NA	NA	870.73
06/08/67	NA	NA	870.73
06/09/67	NA	NA	870.73
06/10/67	NA	NA	870.68
06/11/67	NA	NA	870.68
06/12/67	NA	NA	870.64
06/13/67	NA	NA	870.61
06/14/67	NA	NA	870.60
06/15/67	NA	BR	870.60
06/16/67	NA	NA	870.66
06/17/67	NA	NA	870.66
06/18/67	NA	NA	870.62
06/19/67	NA	NA	870.62
06/20/67	NA	NA	870.48
06/21/67	NA	NA	870.48
06/22/67	NA	NA	870.48
06/23/67	NA	NA	870.56
06/24/67	NA	BR	870.56
06/25/67	NA	NA	870.52
06/26/67	NA	NA	870.52
06/27/67	NA	NA	870.46
06/28/67	NA	NA	870.46
06/29/67	NA	NA	870.46
06/30/67	NA	NA	870.46
07/01/67	NA	NA	870.48
07/02/67	NA	NA	870.48
07/03/67	NA	NA	870.48
07/04/67	NA	NA	870.48
07/05/67	NA	NA	870.48
07/06/67	NA	NA	870.48
07/07/67	NA	NA	870.46
07/08/67	NA	NA	870.43
07/09/67	NA	NA	870.43
07/10/67	NA	NA	870.39
07/11/67	NA	NA	870.35
07/12/67	NA	NA	870.39
07/13/67	NA	NA	870.31
07/14/67	NA	NA	870.31
07/15/67	NA	NA	870.25
07/16/67	NA	NA	870.25
07/17/67	NA	NA	870.23
07/18/67	NA	NA	870.23
07/19/67	NA	NA	870.23
07/20/67	NA	NA	870.27
07/21/67	NA	NA	870.27
07/22/67	NA	NA	870.27
07/23/67	NA	NA	870.23
07/24/67	NA	NA	870.23
07/25/67	NA	NA	870.19
07/26/67	NA	NA	870.19
07/27/67	NA	NA	870.14
07/28/67	NA	NA	870.14
07/29/67	NA	NA	870.14
07/30/67	NA	NA	870.14
07/31/67	NA	NA	870.18
08/01/67	NA	NA	870.14
08/02/67	NA	NA	870.14
08/03/67	NA	NA	870.14
08/04/67	NA	NA	870.14
08/05/67	NA	NA	870.10
08/06/67	NA	NA	870.10
08/07/67	NA	NA	870.06
08/08/67	NA	NA	870.02
08/09/67	NA	NA	870.02
08/10/67	NA	NA	869.98
08/11/67	NA	NA	869.96
08/12/67	NA	NA	869.94
08/13/67	NA	NA	869.94
08/14/67	NA	NA	869.93
08/15/67	NA	NA	869.89
08/16/67	NA	NA	869.85
08/17/67	NA	NA	869.85
08/18/67	NA	NA	869.81
08/19/67	NA	NA	869.86
08/20/67	NA	NA	869.88
08/21/67	NA	NA	869.89
08/22/67	NA	NA	869.85
08/23/67	NA	NA	869.81
08/24/67	NA	NA	869.81
08/25/67	NA	NA	869.81
08/26/67	NA	NA	869.81
08/27/67	NA	NA	869.81
08/28/67	NA	NA	869.81
08/29/67	NA	NA	868.85
08/30/67	NA	NA	868.89
08/31/67	NA	NA	869.09
09/01/67	NA	NA	869.41
09/02/67	NA	NA	869.81
09/03/67	NA	NA	869.81
09/04/67	NA	NA	869.77
09/05/67	NA	NA	869.73
09/06/67	NA	NA	869.73
09/07/67	NA	NA	869.73
09/08/67	NA	NA	869.69
09/09/67	NA	NA	869.68
09/10/67	NA	NA	869.68
09/11/67	NA	NA	868.64
09/12/67	NA	NA	868.64
09/13/67	NA	NA	868.64
09/14/67	NA	NA	868.69
09/15/67	NA	NA	868.69
09/16/67	NA	NA	868.60
09/17/67	NA	NA	868.60
09/18/67	NA	NA	867.60
09/19/67	NA	NA	867.60
09/20/67	NA	NA	867.60
09/21/67	NA	NA	867.60
09/22/67	NA	NA	867.60
09/23/67	NA	NA	868.60
09/24/67	NA	NA	868.56
09/25/67	NA	NA	868.56
09/26/67	NA	NA	868.52
09/27/67	NA	NA	868.52
09/28/67	NA	NA	868.52
09/29/67	NA	NA	868.52
09/30/67	NA	NA	868.52
10/01/67	NA	NA	868.52
10/02/67	NA	NA	868.52
10/03/67	NA	NA	868.52
10/04/67	NA	NA	868.52
10/05/67	NA	NA	868.52
10/06/67	NA	NA	868.52
10/07/67	NA	NA	868.52
10/08/67	NA	NA	868.48
10/09/67	NA	NA	868.48
10/10/67	NA	NA	868.52
10/11/67	NA	NA	868.52
10/12/67	NA	NA	868.52
10/13/67	NA	NA	868.52
10/14/67	NA	NA	868.52
10/15/67	NA	NA	868.52
10/16/67	NA	NA	868.52
10/17/67	NA	NA	868.52
10/18/67	NA	NA	868.52
10/19/67	NA	NA	868.52
10/20/67	NA	NA	868.52
10/21/67	NA	NA	868.52
10/22/67	NA	NA	868.56
10/23/67	NA	NA	868.56
10/24/67	NA	NA	868.56
10/25/67	NA	NA	868.56
10/26/67	NA	NA	868.56
10/27/67	NA	NA	868.56
10/28/67	NA	NA	868.52
10/29/67	NA	NA	868.52
10/30/67	NA	NA	868.48
10/31/67	NA	NA	867.48
11/01/67	NA	NA	867.48
11/02/67	NA	NA	868.04
11/03/67	NA	NA	868.04
11/04/67	NA	NA	868.04
11/05/67	NA	NA	868.04
11/06/67	NA	NA	868.04
11/07/67	NA	NA	868.04
11/08/67	NA	NA	868.04
11/09/67	NA	NA	868.04
11/10/67	NA	NA	868.04
11/11/67	NA	NA	868.04
11/12/67	NA	NA	868.04
11/13/67	NA	NA	868.04
11/14/67	NA	NA	868.04
11/15/67	NA	NA	868.04
11/16/67	NA	NA	868.04
11/17/67	NA	NA	869.09
11/18/67	NA	NA	869.09
11/19/67	NA	NA	869.09
11/20/67	NA	NA	869.09
11/21/67	NA	NA	869.09
11/22/67	NA	NA	869.09
11/23/67	NA	NA	869.09
11/24/67	NA	NA	869.09
11/25/67	NA	NA	869.09
11/26/67	NA	NA	869.09
11/27/67	NA	NA	869.09
11/28/67	NA	NA	869.09

ER = East Bank
WB = West Bank
BR = Boathouse
NA = Not Available

Date	OOHR Measurement (Inches)	Measurement Location	Lake Elevation (Feet msl)
06/04/58	NA	NA	870.81
06/05/58	NA	NA	870.81
06/06/58	NA	NA	870.81
06/07/58	NA	NA	870.81
06/08/58	NA	NA	870.81
06/09/58	NA	NA	870.77
06/10/58	NA	NA	870.77
06/11/58	NA	NA	870.73
06/12/58	NA	NA	870.73
06/13/58	NA	NA	870.73
06/14/58	NA	NA	870.84
06/15/58	NA	NA	870.80
06/16/58	NA	NA	870.88
06/17/58	NA	NA	870.96
06/18/58	NA	NA	870.98
06/19/58	NA	NA	870.96
06/20/58	NA	NA	870.98
06/21/58	NA	NA	870.98
06/22/58	NA	NA	870.92
06/23/58	NA	NA	870.96
06/24/58	NA	NA	870.48
06/25/58	NA	NA	870.48
06/26/58	NA	NA	870.64
06/27/58	NA	NA	870.64
06/28/58	NA	NA	870.64
06/29/58	NA	NA	870.64
06/30/58	NA	NA	870.88
07/01/58	NA	NA	870.73
07/02/58	NA	NA	870.73
07/03/58	NA	NA	870.73
07/04/58	NA	NA	870.68
07/05/58	NA	NA	870.64
07/06/58	NA	NA	870.64
07/07/58	NA	NA	870.60
07/08/58	NA	NA	870.56
07/09/58	NA	NA	870.56
07/10/58	NA	NA	870.52
07/11/58	NA	NA	870.52
07/12/58	NA	NA	870.52
07/13/58	NA	NA	870.52
07/14/58	NA	NA	870.48
07/15/58	NA	NA	870.48
07/16/58	NA	NA	870.48
07/17/58	NA	NA	870.48
07/18/58	NA	NA	870.48
07/19/58	NA	NA	870.48
07/20/58	NA	NA	870.48
07/21/58	NA	NA	870.48
07/22/58	NA	NA	870.45
07/23/58	NA	NA	870.45
07/24/58	NA	NA	870.45
07/25/58	NA	NA	870.45
07/26/58	NA	NA	870.43
07/27/58	NA	NA	870.43
07/28/58	NA	NA	870.39
07/29/58	NA	NA	870.39
07/30/58	NA	NA	870.39
07/31/58	NA	NA	870.35
08/01/58	NA	NA	870.35
08/02/58	NA	NA	870.35
08/03/58	NA	NA	870.35
08/04/58	NA	NA	870.35
08/05/58	NA	NA	870.35
08/06/58	NA	NA	870.39
08/07/58	NA	NA	870.43
08/08/58	NA	NA	870.48
08/09/58	NA	NA	870.48
08/10/58	NA	NA	870.48
08/11/58	NA	NA	870.48
08/12/58	NA	NA	870.48
08/13/58	NA	NA	870.48
08/14/58	NA	NA	870.14
08/15/58	NA	NA	870.14
08/16/58	NA	NA	870.14
08/17/58	NA	NA	870.18
08/18/58	NA	NA	870.14
08/19/58	NA	NA	873.10
08/20/58	NA	NA	870.18
08/21/58	NA	NA	870.18
08/22/58	NA	NA	870.18
08/23/58	NA	NA	870.14
08/24/58	NA	NA	870.14
08/25/58	NA	NA	870.18
08/26/58	NA	NA	870.14
08/27/58	NA	NA	870.14
08/28/58	NA	NA	870.10
08/29/58	NA	NA	870.10
08/30/58	NA	NA	870.06
08/31/58	NA	NA	870.02
09/01/58	NA	NA	870.02
09/02/58	NA	NA	869.98
09/03/58	NA	NA	869.94
09/04/58	NA	NA	869.94
09/05/58	NA	NA	869.89
09/06/58	NA	NA	869.89
09/07/58	NA	NA	868.84
09/08/58	NA	NA	868.89
09/09/58	NA	NA	868.89
09/10/58	NA	NA	868.89
09/11/58	NA	NA	868.89
09/12/58	NA	NA	869.89
09/13/58	NA	NA	868.97
09/14/58	NA	NA	868.85
09/15/58	NA	NA	869.85
09/16/58	NA	NA	868.85
09/17/58	NA	NA	869.81
09/18/58	NA	NA	869.81
09/19/58	NA	NA	869.81
09/20/58	NA	NA	869.81
09/21/58	NA	NA	869.81
09/22/58	NA	NA	869.81
09/23/58	NA	NA	869.81
09/24/58	NA	NA	869.81
09/25/58	NA	NA	869.81
09/26/58	NA	NA	869.81
09/27/58	NA	NA	869.81
09/28/58	NA	NA	869.77
09/29/58	NA	NA	869.77
09/30/58	NA	NA	869.77
10/01/58	NA	NA	869.73
10/02/58	NA	NA	869.73
10/03/58	NA	NA	868.73
10/04/58	NA	NA	868.69
10/05/58	NA	NA	868.69
10/06/58	NA	NA	868.69
10/07/58	NA	NA	868.69
10/08/58	NA	NA	868.69
10/09/58	NA	NA	868.69
10/10/58	NA	NA	868.69
10/11/58	NA	NA	868.69
10/12/58	NA	NA	868.69
10/13/58	NA	NA	868.69
10/14/58	NA	NA	868.69
10/15/58	NA	NA	868.69
10/16/58	NA	NA	868.69
10/17/58	NA	NA	868.69
10/18/58	NA	NA	868.69
10/19/58	NA	NA	868.69
10/20/58	NA	NA	868.69
10/21/58	NA	NA	868.69
10/22/58	NA	NA	868.69
10/23/58	NA	NA	868.69
10/24/58	NA	NA	868.69
10/25/58	NA	NA	868.69
10/26/58	NA	NA	868.69
10/27/58	NA	NA	868.69
10/28/58	NA	NA	868.69
10/29/58	NA	NA	868.69
10/30/58	NA	NA	868.69
10/31/58	NA	NA	868.69
11/01/58	NA	NA	868.69
11/02/58	NA	NA	868.69
11/03/58	NA	NA	868.69
11/04/58	NA	NA	868.69
11/05/58	NA	NA	868.69
11/06/58	NA	NA	868.69
11/07/58	NA	NA	868.69
11/08/58	NA	NA	868.69
11/09/58	NA	NA	868.69
11/10/58	NA	NA	868.69
11/11/58	NA	NA	868.69
11/12/58	NA	NA	868.69
11/13/58	NA	NA	868.69
11/14/58	NA	NA	868.69
11/15/58	NA	NA	868.69
11/16/58	NA	NA	868.73
11/17/58	NA	NA	868.81
11/18/58	NA	NA	868.89
11/19/58	NA	NA	868.94
11/20/58	NA	NA	868.94
11/21/58	NA	NA	868.94
11/22/58	NA	NA	868.94
11/23/58	NA	NA	868.94
11/24/58	NA	NA	868.98
11/25/58	NA	NA	868.98
11/26/58	NA	NA	868.89
11/27/58	NA	NA	868.85
11/28/58	NA	NA	868.89
11/29/58	NA	NA	868.85
11/30/58	NA	NA	868.89
12/01/58	NA	NA	868.85
12/02/58	NA	NA	868.81
12/03/58	NA	NA	868.81
12/04/58	NA	NA	868.81
12/05/58	NA	NA	868.81
12/06/58	NA	NA	868.85
12/07/58	NA	NA	868.81

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	GOAS Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
06/15/68	NA	NA	870.81
06/16/68	NA	NA	870.85
06/17/68	NA	NA	870.85
06/18/68	NA	NA	870.85
06/19/68	NA	NA	870.85
06/20/68	NA	NA	870.85
06/21/68	NA	NA	870.85
06/21/68	NA	NA	870.85
06/23/68	NA	NA	870.85
06/24/68	NA	NA	870.98
06/25/68	NA	NA	871.06
06/26/68	NA	NA	871.05
06/27/68	NA	NA	871.06
06/28/68	NA	NA	871.06
06/29/68	NA	NA	871.06
06/30/68	NA	NA	871.06
07/01/68	NA	NA	871.02
07/02/68	NA	NA	871.02
07/03/68	NA	NA	871.02
07/04/68	NA	NA	871.06
07/05/68	NA	NA	871.06
07/06/68	NA	NA	871.14
07/07/68	NA	NA	871.23
07/08/68	NA	NA	871.23
07/09/68	NA	NA	871.23
07/10/68	NA	NA	871.21
07/11/68	NA	NA	871.23
07/12/68	NA	NA	871.23
07/13/68	NA	NA	871.23
07/14/68	NA	NA	871.14
07/15/68	NA	NA	871.14
07/16/68	NA	NA	871.10
07/17/68	NA	NA	871.10
07/18/68	NA	NA	871.10
07/19/68	NA	NA	871.06
07/20/68	NA	NA	871.02
07/21/68	NA	NA	871.06
07/22/68	NA	NA	870.98
07/23/68	NA	NA	870.94
07/24/68	NA	NA	870.94
07/25/68	NA	NA	870.89
07/26/68	NA	NA	870.89
07/27/68	NA	NA	870.85
07/28/68	NA	NA	870.85
07/29/68	NA	NA	870.85
07/30/68	NA	NA	870.85
07/31/68	NA	NA	870.77
08/01/68	NA	NA	870.77
08/02/68	NA	NA	870.73
08/03/68	NA	NA	870.69
08/04/68	NA	NA	870.69
08/05/68	NA	NA	870.69
08/06/68	NA	NA	870.64
08/07/68	NA	NA	870.64
08/08/68	NA	NA	870.64
08/09/68	NA	NA	870.60
08/10/68	NA	NA	870.60
08/11/68	NA	NA	870.56
08/12/68	NA	NA	870.56
08/13/68	NA	NA	870.56
08/14/68	NA	NA	870.52
08/15/68	NA	NA	870.52
08/16/68	NA	NA	870.52
08/17/68	NA	NA	870.52
08/18/68	NA	NA	870.52
08/19/68	NA	NA	870.48
08/20/68	NA	NA	870.48
08/21/68	NA	NA	870.43
08/22/68	NA	NA	870.43
08/23/68	NA	NA	870.43
08/24/68	NA	NA	870.35
08/25/68	NA	NA	870.31
08/26/68	NA	NA	870.35
08/27/68	NA	NA	870.35
08/28/68	NA	NA	870.31
08/29/68	NA	NA	870.31
08/30/68	NA	NA	870.31
08/31/68	NA	NA	870.27
09/01/68	NA	NA	870.27
09/02/68	NA	NA	870.27
09/03/68	NA	NA	870.23
09/04/68	NA	NA	870.23
09/05/68	NA	NA	870.23
09/06/68	NA	NA	870.23
09/07/68	NA	NA	870.23
09/08/68	NA	NA	870.23
09/09/68	NA	NA	870.23
09/10/68	NA	NA	870.19
09/11/68	NA	NA	870.19
09/12/68	NA	NA	870.14
09/13/68	NA	NA	870.14
09/14/68	NA	NA	870.14
09/15/68	NA	NA	870.14
09/16/68	NA	NA	870.10
09/17/68	NA	NA	870.14
09/18/68	NA	NA	869.93
09/19/68	NA	NA	870.23
09/20/68	NA	NA	870.23
09/21/68	NA	NA	870.23
09/22/68	NA	NA	870.23
09/23/68	NA	NA	870.23
09/24/68	NA	NA	870.23
09/25/68	NA	NA	870.43
09/26/68	NA	NA	870.43
09/27/68	NA	NA	870.43
09/28/68	NA	NA	870.43
09/29/68	NA	NA	870.43
09/30/68	NA	NA	870.39
10/01/68	NA	NA	870.39
10/02/68	NA	NA	870.39
10/03/68	NA	NA	870.35
10/04/68	NA	NA	870.35
10/05/68	NA	NA	870.31
10/06/68	NA	NA	870.35
10/07/68	NA	NA	870.35
10/08/68	NA	NA	870.35
10/09/68	NA	NA	870.35
10/10/68	NA	NA	870.31
10/11/68	NA	NA	870.31
10/12/68	NA	NA	870.31
10/13/68	NA	NA	870.31
10/14/68	NA	NA	870.31
10/15/68	NA	NA	870.31
10/16/68	NA	NA	870.27
10/17/68	NA	NA	870.27
10/18/68	NA	NA	870.23
10/19/68	NA	NA	870.39
10/20/68	NA	NA	870.19
10/21/68	NA	NA	870.19
10/22/68	NA	NA	870.19
10/23/68	NA	NA	870.14
10/24/68	NA	NA	870.10
10/25/68	NA	NA	870.06
10/26/68	NA	NA	870.06
10/27/68	NA	NA	870.02
10/28/68	NA	NA	869.98
10/29/68	NA	NA	869.94
10/30/68	NA	NA	869.94
10/31/68	NA	NA	869.94
11/01/68	NA	NA	869.94
11/02/68	NA	NA	869.89
11/03/68	NA	NA	869.89
11/04/68	NA	NA	869.89
11/05/68	NA	NA	869.89
11/06/68	NA	NA	869.89
11/07/68	NA	NA	869.89
11/08/68	NA	NA	869.89
11/09/68	NA	NA	869.89
11/10/68	NA	NA	869.89
11/11/68	NA	NA	869.89
11/12/68	NA	NA	869.89
11/13/68	NA	NA	869.89
11/14/68	NA	NA	869.89
11/15/68	NA	NA	869.85
11/16/68	NA	NA	869.89
11/17/68	NA	NA	869.89
11/18/68	NA	NA	869.89
11/19/68	NA	NA	869.89
11/20/68	NA	NA	870.14
11/21/68	NA	NA	870.23
11/22/68	NA	NA	870.23
11/23/68	NA	NA	870.27
11/24/68	NA	NA	870.27
11/25/68	NA	NA	870.31
11/26/68	NA	NA	870.31
11/27/68	NA	NA	870.31
11/28/68	NA	NA	870.31
11/29/68	NA	NA	870.31
12/01/68	NA	NA	870.27
12/02/68	NA	NA	870.23
12/03/68	NA	NA	870.23
12/04/68	NA	NA	870.19
12/05/68	NA	NA	870.14
12/06/68	NA	NA	870.14
12/07/68	NA	NA	870.14
12/08/68	NA	NA	870.14
12/09/68	NA	NA	870.10
12/10/68	NA	NA	870.10
12/11/68	NA	NA	870.10
12/12/68	NA	NA	870.10
12/13/68	NA	NA	870.10
12/14/68	NA	NA	870.06
12/15/68	NA	NA	870.06
12/16/68	NA	NA	870.06
12/17/68	NA	NA	870.02
12/18/68	NA	NA	869.98
12/19/68	NA	NA	869.94

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	OSNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/20/70	NA	NA	870.91
05/21/70	NA	NA	870.91
05/29/70	NA	NA	870.77
06/29/70	NA	NA	870.71
06/30/70	NA	NA	870.73
07/01/70	NA	NA	870.73
07/02/70	NA	NA	870.73
07/03/70	NA	NA	870.73
07/04/70	NA	NA	870.73
07/05/70	NA	NA	870.73
07/06/70	NA	NA	870.73
07/07/70	NA	NA	870.73
07/08/70	NA	NA	870.73
07/09/70	NA	NA	870.73
07/10/70	NA	NA	870.73
07/11/70	NA	NA	870.73
07/12/70	NA	NA	870.73
07/13/70	NA	NA	870.73
07/14/70	NA	NA	870.73
07/15/70	NA	NA	870.73
07/16/70	NA	NA	870.68
07/17/70	NA	NA	870.68
07/18/70	NA	NA	870.64
07/19/70	NA	NA	870.64
07/20/70	NA	NA	870.64
07/21/70	NA	NA	870.64
07/22/70	NA	NA	870.60
07/23/70	NA	NA	870.60
07/24/70	NA	NA	870.56
07/25/70	NA	NA	870.56
07/26/70	NA	NA	870.56
07/27/70	NA	NA	870.56
07/28/70	NA	NA	870.56
07/29/70	NA	NA	870.56
07/30/70	NA	NA	870.56
07/31/70	NA	NA	870.56
08/01/70	NA	NA	870.56
08/02/70	NA	NA	870.56
08/03/70	NA	NA	870.52
08/04/70	NA	NA	870.52
08/05/70	NA	NA	870.48
08/06/70	NA	NA	870.48
08/07/70	NA	NA	870.48
08/08/70	NA	NA	870.48
08/09/70	NA	NA	870.48
08/10/70	NA	NA	870.48
08/11/70	NA	NA	870.48
08/12/70	NA	NA	870.44
08/13/70	NA	NA	870.44
08/14/70	NA	NA	870.44
08/15/70	NA	NA	870.44
08/16/70	NA	NA	870.44
08/17/70	NA	NA	870.44
08/18/70	NA	NA	870.44
08/19/70	NA	NA	870.44
08/20/70	NA	NA	870.39
08/21/70	NA	NA	870.39
08/22/70	NA	NA	870.39
08/23/70	NA	NA	870.39
08/24/70	NA	NA	870.39
08/25/70	NA	NA	870.39
08/26/70	NA	NA	870.39
08/27/70	NA	NA	870.39
08/28/70	NA	NA	870.39
08/29/70	NA	NA	870.39
08/30/70	NA	NA	870.39
08/31/70	NA	NA	870.39
09/01/70	NA	NA	870.39
09/02/70	NA	NA	870.39
09/03/70	NA	NA	870.39
09/04/70	NA	NA	870.39
09/05/70	NA	NA	870.39
09/06/70	NA	NA	870.39
09/07/70	NA	NA	870.39
09/08/70	NA	NA	870.39
09/09/70	NA	NA	870.39
09/10/70	NA	NA	870.39
09/11/70	NA	NA	870.39
09/12/70	NA	NA	870.39
09/13/70	NA	NA	870.39
09/14/70	NA	NA	870.39
09/15/70	NA	NA	870.39
09/16/70	NA	NA	870.39
09/17/70	NA	NA	870.39
09/18/70	NA	NA	870.39
09/19/70	NA	NA	870.39
09/20/70	NA	NA	870.39
09/21/70	NA	NA	870.39
09/22/70	NA	NA	870.39
09/23/70	NA	NA	870.39
09/24/70	NA	NA	870.39
09/25/70	NA	NA	870.39
09/26/70	NA	NA	870.39
09/27/70	NA	NA	870.39
09/28/70	NA	NA	870.39
09/29/70	NA	NA	870.39
09/30/70	NA	NA	870.39
10/01/70	NA	NA	870.39
10/02/70	NA	NA	870.39
10/03/70	NA	NA	870.39
10/04/70	NA	NA	870.39
10/05/70	NA	NA	870.39
10/06/70	NA	NA	870.39
10/07/70	NA	NA	870.39
10/08/70	NA	NA	870.39
10/09/70	NA	NA	870.39
10/10/70	NA	NA	870.39
10/11/70	NA	NA	870.39
10/12/70	NA	NA	870.39
10/13/70	NA	NA	870.39
10/14/70	NA	NA	870.39
10/15/70	NA	NA	870.39
10/16/70	NA	NA	870.39
10/17/70	NA	NA	870.39
10/18/70	NA	NA	870.39
10/19/70	NA	NA	870.39
10/20/70	NA	NA	870.39
10/21/70	NA	NA	870.39
10/22/70	NA	NA	870.39
10/23/70	NA	NA	870.39
10/24/70	NA	NA	870.39
10/25/70	NA	NA	870.39
10/26/70	NA	NA	870.39
10/27/70	NA	NA	870.39
10/28/70	NA	NA	870.39
10/29/70	NA	NA	870.39
10/30/70	NA	NA	870.39
10/31/70	NA	NA	870.39
11/01/70	NA	NA	870.39
11/02/70	NA	NA	870.39
11/03/70	NA	NA	870.39
11/04/70	NA	NA	870.39
11/05/70	NA	NA	870.39
11/06/70	NA	NA	870.39
11/07/70	NA	NA	870.39
11/08/70	NA	NA	870.39
11/09/70	NA	NA	870.39
11/10/70	NA	NA	870.39
11/11/70	NA	NA	870.39
11/12/70	NA	NA	870.39
11/13/70	NA	NA	870.39
11/14/70	NA	NA	870.39
11/15/70	NA	NA	870.39
11/16/70	NA	NA	870.39
11/17/70	NA	NA	870.39
11/18/70	NA	NA	870.39
11/19/70	NA	NA	870.39
11/20/70	NA	NA	870.39
11/21/70	NA	NA	870.39
11/22/70	NA	NA	870.39
11/23/70	NA	NA	870.39
11/24/70	NA	NA	870.39
11/25/70	NA	NA	870.39
11/26/70	NA	NA	870.39
11/27/70	NA	NA	870.39
11/28/70	NA	NA	870.39
11/29/70	NA	NA	870.39
11/30/70	NA	NA	870.39
12/01/70	NA	NA	870.39
12/02/70	NA	NA	870.39
12/03/70	NA	NA	870.39
12/04/70	NA	NA	870.39
12/05/70	NA	NA	870.39
12/06/70	NA	NA	870.39
12/07/70	NA	NA	870.39
12/08/70	NA	NA	870.39
12/09/70	NA	NA	870.39
12/10/70	NA	NA	870.39
12/11/70	NA	NA	870.39
12/12/70	NA	NA	870.39
12/13/70	NA	NA	870.39
12/14/70	NA	NA	870.39
12/15/70	NA	NA	870.39
12/16/70	NA	NA	870.39
12/17/70	NA	NA	870.39
12/18/70	NA	NA	870.39
12/19/70	NA	NA	870.39
12/20/70	NA	NA	870.39
12/21/70	NA	NA	870.39
12/22/70	NA	NA	870.39
12/23/70	NA	NA	870.39
12/24/70	NA	NA	870.39
12/25/70	NA	NA	870.39
12/26/70	NA	NA	870.39
12/27/70	NA	NA	870.39
12/28/70	NA	NA	870.39
12/29/70	NA	NA	870.39
12/30/70	NA	NA	870.39

EB = East Bank
WB = West Bank
DN = Dominguez
NA = Not Available

Date	DDR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
07/07/71	NA	NA	870.56
07/08/71	NA	NA	870.56
07/09/71	NA	NA	870.56
07/10/71	NA	NA	870.56
07/11/71	NA	NA	870.56
07/12/71	NA	NA	870.56
07/13/71	NA	NA	870.55
07/14/71	NA	NA	870.52
07/15/71	NA	NA	870.52
07/16/71	NA	NA	870.52
07/17/71	NA	NA	870.52
07/18/71	NA	NA	870.52
07/19/71	NA	NA	870.52
07/20/71	NA	NA	870.43
07/21/71	NA	NA	870.39
07/22/71	NA	NA	870.39
07/23/71	NA	NA	870.39
07/24/71	NA	NA	870.52
07/25/71	NA	NA	870.51
07/26/71	NA	NA	870.51
07/27/71	NA	NA	870.52
07/28/71	NA	NA	870.52
07/29/71	NA	NA	870.52
07/30/71	NA	NA	870.52
07/31/71	NA	NA	870.52
08/01/71	NA	NA	870.52
08/02/71	NA	NA	870.52
08/03/71	NA	NA	870.52
08/04/71	NA	NA	870.52
08/05/71	NA	NA	870.52
08/06/71	NA	NA	870.52
08/07/71	NA	NA	870.51
08/08/71	NA	NA	870.51
08/09/71	NA	NA	870.51
08/10/71	NA	NA	870.51
08/11/71	NA	NA	870.51
08/12/71	NA	NA	870.51
08/13/71	NA	NA	870.51
08/14/71	NA	NA	870.51
08/15/71	NA	NA	870.27
08/16/71	NA	NA	870.27
08/17/71	NA	NA	870.23
08/18/71	NA	NA	870.18
08/19/71	NA	NA	870.14
08/20/71	NA	NA	870.14
08/21/71	NA	NA	870.14
08/22/71	NA	NA	870.14
08/23/71	NA	NA	870.14
08/24/71	NA	NA	870.14
08/25/71	NA	NA	870.14
08/26/71	NA	NA	870.14
08/27/71	NA	NA	870.10
08/28/71	NA	NA	870.10
08/29/71	NA	NA	870.06
08/30/71	NA	NA	870.06
08/31/71	NA	NA	870.06
09/01/71	-4	NA	869.98
09/02/71	-4	NA	869.98
09/03/71	-4	NA	869.95
09/04/71	-4	NA	869.98
09/05/71	-3	NA	869.98
09/06/71	-3	NA	870.05
09/07/71	-3	NA	870.06
09/08/71	-3	NA	870.06
09/09/71	-2	NA	870.14
09/10/71	-2	NA	870.14
09/11/71	-2	NA	870.14
09/12/71	-2	NA	870.14
09/13/71	-2	NA	870.14
09/14/71	-2	NA	870.06
09/15/71	-2	NA	870.06
09/16/71	-2	NA	870.06
09/17/71	-2	NA	870.06
09/18/71	-3	NA	870.05
09/19/71	-3	NA	870.06
09/20/71	-2	NA	870.14
09/21/71	-2	NA	870.14
09/22/71	-2	NA	870.14
09/23/71	-2	NA	870.14
09/24/71	-2	NA	870.14
09/25/71	-2	NA	870.14
09/26/71	-1	NA	870.23
09/27/71	-1	NA	870.23
09/28/71	0	NA	870.31
09/29/71	0	NA	870.31
09/30/71	0	NA	870.31
10/01/71	NA	NA	870.31
10/02/71	NA	NA	870.31
10/03/71	NA	NA	870.31
10/04/71	NA	NA	870.31
10/05/71	NA	NA	870.31
10/06/71	NA	NA	870.31
10/07/71	NA	NA	870.31
10/08/71	NA	NA	870.23
10/09/71	NA	NA	870.19
10/10/71	NA	NA	870.14
10/11/71	NA	NA	870.14
10/12/71	NA	NA	870.14
10/13/71	NA	NA	870.14
10/14/71	NA	NA	870.14
10/15/71	NA	NA	870.14
10/16/71	NA	NA	870.14
10/17/71	NA	NA	870.14
10/18/71	NA	NA	870.14
10/19/71	NA	NA	870.10
10/20/71	NA	NA	870.10
10/21/71	NA	NA	870.10
10/22/71	NA	NA	870.10
10/23/71	NA	NA	870.14
10/24/71	NA	NA	870.14
10/25/71	NA	NA	870.14
10/26/71	NA	NA	870.14
10/27/71	NA	NA	870.14
10/28/71	NA	NA	870.14
10/29/71	NA	NA	870.14
10/30/71	NA	NA	870.14
10/31/71	NA	NA	870.06
11/01/71	NA	NA	870.06
11/02/71	NA	NA	870.06
11/03/71	NA	NA	870.06
11/04/71	NA	NA	870.06
11/05/71	NA	NA	870.02
11/06/71	NA	NA	870.02
11/07/71	NA	NA	870.02
11/08/71	NA	NA	869.95
11/09/71	NA	NA	869.95
11/10/71	NA	NA	869.95
11/11/71	NA	NA	869.95
11/12/71	NA	NA	869.95
11/13/71	NA	NA	869.95
11/14/71	NA	NA	869.95
11/15/71	NA	NA	869.95
11/16/71	NA	NA	869.94
11/17/71	NA	NA	869.94
11/18/71	NA	NA	869.94
11/19/71	NA	NA	869.94
11/20/71	NA	NA	869.94
11/21/71	NA	NA	869.94
11/22/71	NA	NA	869.94
11/23/71	NA	NA	869.89
11/24/71	NA	NA	869.89
11/25/71	NA	NA	869.89
11/26/71	NA	NA	869.89
11/27/71	NA	NA	869.89
11/28/71	NA	NA	869.89
11/29/71	NA	NA	869.89
11/30/71	NA	NA	869.89
12/01/71	-5	EB	869.85
12/02/71	-5	EB	869.85
12/03/71	-5	EB	869.83
12/04/71	-5	EB	869.88
12/05/71	-5	EB	869.88
12/06/71	-5	EB	869.87
12/07/71	-5	EB	869.83
12/08/71	-4.5	EB	869.84
12/09/71	-4	EB	869.88
12/10/71	-4	EB	869.90
12/11/71	-4	EB	869.90
12/12/71	-4	EB	869.90
12/13/71	-4	EB	869.98
12/14/71	-3	EB	870.06
12/15/71	-2	EB	870.14
12/16/71	-3	EB	870.23
12/17/71	-1	EB	870.23
12/18/71	0	EB	870.31
12/19/71	0	EB	870.31
12/20/71	0	EB	870.31
12/21/71	0	EB	870.31
12/22/71	0	EB	870.31
12/23/71	0	EB	870.31
12/24/71	0	EB	870.31
12/25/71	0	EB	870.31
12/26/71	0	EB	870.31
12/27/71	0	EB	870.31
12/28/71	0	EB	870.31
12/29/71	0	EB	870.31
12/30/71	1	EB	870.39
12/31/71	-7	EB	870.48
01/01/72	-5	EB	870.48
01/02/72	-5	EB	870.48
01/03/72	-5	EB	870.48
01/04/72	-5	EB	870.48
01/05/72	-5	EB	870.48
01/06/72	-5	EB	870.48
01/07/72	-4	EB	870.48
01/08/72	-4.5	EB	870.48
01/09/72	-4	EB	870.48
01/10/72	-4	EB	870.48

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	GOAR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
07/17/72	5.5	EB	870.77
07/18/72	5.5	EB	870.77
07/19/72	6	EB	870.81
07/20/72	6	EB	870.81
07/21/72	5.5	EB	870.77
07/22/72	5.5	EB	870.77
07/23/72	5	EB	870.73
07/24/72	5	EB	870.73
07/25/72	5	EB	870.73
07/26/72	4.5	EB	870.68
07/27/72	4.5	EB	870.68
07/28/72	4.5	EB	870.68
07/29/72	4.5	EB	870.68
07/30/72	4	EB	870.64
07/31/72	4	EB	870.64
08/01/72	4	EB	870.64
08/02/72	3.5	EB	870.60
08/03/72	3.5	EB	870.60
08/04/72	3	EB	870.56
08/05/72	3	EB	870.56
08/06/72	2.5	EB	870.52
08/07/72	2.5	EB	870.52
08/08/72	2	EB	870.48
08/09/72	2	EB	870.48
08/10/72	2	EB	870.48
08/11/72	2	EB	870.48
08/12/72	1.5	EB	870.43
08/13/72	1.5	EB	870.43
08/14/72	1.5	EB	870.43
08/15/72	2	EB	870.48
08/16/72	2	EB	870.48
08/17/72	1.5	EB	870.43
08/18/72	1.5	EB	870.43
08/19/72	1.5	EB	870.43
08/20/72	2	EB	870.48
08/21/72	2	EB	870.48
08/22/72	2	EB	870.48
08/23/72	1.5	EB	870.43
08/24/72	1.5	EB	870.43
08/25/72	1	EB	870.39
08/26/72	1	EB	870.39
08/27/72	1	WB	870.39
08/28/72	1	EB	870.39
08/29/72	0	EB	870.34
08/30/72	0	EB	870.34
08/31/72	0	EB	870.34
09/01/72	-1	EB	870.23
09/02/72	-1	EB	870.23
09/03/72	-1	EB	870.23
09/04/72	-1	EB	870.23
09/05/72	-1	EB	870.23
09/06/72	-1	EB	870.23
09/07/72	-1	EB	870.23
09/08/72	-1	EB	870.23
09/09/72	-1	EB	870.23
09/10/72	-1	EB	870.23
09/11/72	-1	EB	870.23
09/12/72	0.5	EB	870.29
09/13/72	1	EB	870.39
09/14/72	2	EB	870.48
09/15/72	2	EB	870.56
09/16/72	3	EB	870.66
09/17/72	3	EB	870.66
09/18/72	3	EB	870.66
09/19/72	3	EB	870.66
09/20/72	3	EB	870.66
09/21/72	3	EB	870.66
09/22/72	3	EB	870.66
09/23/72	3	EB	870.66
09/24/72	4	EB	870.64
09/25/72	4.5	EB	870.69
09/26/72	6.5	EB	870.85
09/27/72	7	EB	870.89
09/28/72	7.5	EB	870.94
09/29/72	8	EB	873.98
09/30/72	8.5	EB	871.02
10/01/72	9	EB	871.09
10/02/72	9	EB	871.06
10/03/72	8	EB	870.98
10/04/72	8	EB	870.98
10/05/72	8	EB	870.98
10/06/72	8	EB	870.98
10/07/72	8	EB	870.98
10/08/72	8	EB	870.98
10/09/72	7	EB	870.89
10/10/72	6	EB	870.81
10/11/72	6	EB	870.81
10/12/72	6.5	EB	870.85
10/13/72	7	EB	870.89
10/14/72	6.5	EB	870.85
10/15/72	6	EB	870.81
10/16/72	6	EB	870.81
10/17/72	6.5	EB	870.77
10/18/72	5	EB	870.73
10/19/72	4.5	EB	870.69
10/20/72	4	EB	870.64
10/21/72	4	EB	870.64
10/22/72	4	EB	870.64
10/23/72	4	EB	870.64
10/24/72	3.5	EB	870.60
10/25/72	3.5	EB	870.60
10/26/72	3	EB	870.56
10/27/72	3	EB	870.56
10/28/72	2.5	EB	870.52
10/29/72	2.5	EB	870.52
10/30/72	2	EB	870.48
10/31/72	2	EB	870.48
11/01/72	1.5	EB	870.43
11/02/72	5	EB	872.73
11/03/72	5	EB	872.73
11/04/72	9	EB	870.98
11/05/72	9	EB	870.98
11/06/72	9	EB	870.98
11/07/72	9	EB	871.06
11/08/72	10	EB	871.14
11/09/72	11.5	EB	871.27
11/10/72	11.5	EB	871.27
11/11/72	11.5	EB	871.27
11/12/72	11.5	EB	871.27
11/13/72	11.5	EB	871.23
11/14/72	10.5	EB	871.18
11/15/72	10.5	EB	871.18
11/16/72	10.5	EB	871.18
11/17/72	12	EB	871.32
11/18/72	12	EB	871.32
11/19/72	11.5	EB	871.27
11/20/72	11.5	EB	871.27
11/21/72	11.5	EB	871.27
11/22/72	11.5	EB	871.27
11/23/72	11.5	EB	871.27
11/24/72	11.5	EB	871.27
11/25/72	11	EB	871.23
11/26/72	11	EB	871.23
11/27/72	10.5	EB	871.18
11/28/72	10.5	EB	871.18
11/29/72	10	EB	871.14
11/30/72	10	EB	871.14
12/01/72	10	EB	871.14
12/02/72	10	EB	871.14
12/03/72	10	EB	871.14
12/04/72	10	EB	871.14
12/05/72	10	EB	871.14
12/06/72	10	EB	871.14
12/07/72	10	EB	871.14
12/08/72	10	EB	871.14
12/09/72	10	EB	871.14
12/10/72	10	EB	871.14
12/11/72	10	EB	871.14
12/12/72	10	EB	871.14
12/13/72	10	EB	871.14
12/14/72	10	EB	871.14
12/15/72	10	EB	871.14
12/16/72	10	EB	871.14
12/17/72	10	EB	871.14
12/18/72	10	EB	871.14
12/19/72	10	EB	871.14
12/20/72	10	EB	871.14
12/21/72	10	EB	871.14
12/22/72	10	EB	871.14
12/23/72	10	EB	871.14
12/24/72	10	EB	871.14
12/25/72	10	EB	871.14
12/26/72	10	EB	871.14
12/27/72	10	EB	871.14
12/28/72	10	EB	871.14
12/29/72	10	EB	871.14
12/30/72	10	EB	871.14
12/31/72	10	EB	871.14
01/01/73	10	EB	871.14
01/02/73	8.5	EB	871.02
01/03/73	7	EB	870.89
01/04/73	7	EB	870.89
01/05/73	7	EB	870.89
01/06/73	7	EB	870.89
01/07/73	7	EB	870.89
01/08/73	7	EB	870.89
01/09/73	6.5	EB	870.85
01/10/73	6	EB	870.81
01/11/73	5.5	EB	870.77
01/12/73	5	EB	870.73
01/13/73	5	EB	870.73
01/14/73	4	EB	870.64
01/15/73	3	EB	870.56
01/16/73	2.5	EB	870.52
01/17/73	2.5	EB	870.52
01/18/73	2.5	EB	870.52
01/19/73	3.5	EB	870.60
01/20/73	3.5	EB	870.60

EB = East Bank
WB = West Bank
BH = Boathouse
NA = not Available

Date	Gage Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
07/29/73	7.5	EB	870.84
07/29/73	7	EB	870.59
07/30/73	6.5	EB	870.33
07/31/73	6.5	EB	870.33
08/01/73	6.5	EB	870.33
08/02/73	6	EB	870.08
08/03/73	6	EB	870.08
08/04/73	6	EB	870.08
08/05/73	6	EB	870.08
08/06/73	6.5	EB	870.33
08/07/73	5	EB	869.73
08/08/73	5	EB	869.73
08/09/73	5	EB	869.73
08/10/73	4.5	EB	869.59
08/11/73	4	EB	869.64
08/12/73	3	EB	869.69
08/13/73	2	EB	869.59
08/14/73	8.5	EB	871.09
08/15/73	10	EB	871.14
08/16/73	10	EB	871.14
08/17/73	10	EB	871.14
08/18/73	10	EB	871.14
08/19/73	9.5	EB	871.09
08/20/73	11	EB	871.23
08/21/73	10.5	EB	871.18
08/22/73	9.5	EB	871.19
08/23/73	10	EB	871.14
08/24/73	10	EB	871.14
08/25/73	9.5	EB	871.09
08/26/73	9.5	EB	871.09
08/27/73	9	EB	871.06
08/28/73	8.5	EB	871.02
08/29/73	8	EB	870.96
08/30/73	7.5	EB	870.94
08/31/73	7	EB	870.89
09/01/73	7	EB	870.89
09/02/73	6	EB	870.81
09/03/73	6	EB	870.81
09/04/73	5	EB	870.75
09/05/73	4.5	EB	870.69
09/06/73	4	EB	870.64
09/07/73	3.5	EB	870.59
09/08/73	2.5	EB	870.52
09/09/73	2	EB	870.46
09/10/73	1.5	EB	870.43
09/11/73	1.5	EB	870.43
09/12/73	1	EB	870.39
09/13/73	0.5	EB	870.33
09/14/73	0	EB	870.31
09/15/73	0	EB	870.31
09/16/73	-0.5	EB	870.27
09/17/73	-1.5	EB	870.19
09/18/73	-1	EB	870.23
09/19/73	-1	EB	870.23
09/20/73	-1	EB	870.23
09/21/73	-2	EB	870.14
09/22/73	-2	EB	870.14
09/23/73	-2	EB	870.14
09/24/73	-2	EB	870.14
09/25/73	-2	EB	870.14
09/26/73	-2	EB	870.14
09/27/73	-2.5	EB	870.10
09/28/73	-3	EB	870.06
09/29/73	-2.5	EB	870.10
09/30/73	-2.5	EB	870.10
10/01/73	-2.5	EB	870.10
10/02/73	-2.5	EB	870.10
10/03/73	-2.5	EB	870.10
10/04/73	-2	EB	870.14
10/05/73	-2	EB	870.14
10/06/73	-3.5	EB	870.10
10/07/73	-2.5	EB	870.10
10/08/73	-3	EB	870.06
10/09/73	-3	EB	870.06
10/10/73	+1.5	EB	870.02
10/11/73	-4	EB	869.98
10/12/73	-3	EB	870.06
10/13/73	-3.5	EB	870.10
10/14/73	-3.5	EB	870.10
10/15/73	-4	EB	869.98
10/16/73	-4	EB	869.98
10/17/73	-4	EB	869.98
10/18/73	-4	EB	869.98
10/19/73	-4	EB	869.98
10/20/73	-4	EB	869.98
10/21/73	-4.5	EB	869.94
10/22/73	-4.5	EB	869.94
10/23/73	-5	EB	869.89
10/24/73	-5	EB	869.89
10/25/73	-5.5	EB	869.85
10/26/73	-5.5	EB	869.85
10/27/73	-6	EB	869.81
10/28/73	-6	EB	869.81
10/29/73	-6	EB	869.81
10/30/73	-5.5	EB	869.85
10/31/73	-5.5	EB	869.85
11/01/73	-5	EB	869.89
11/02/73	-4.5	EB	869.94
11/03/73	-4.5	EB	869.94
11/04/73	-4.5	EB	869.94
11/05/73	-5	EB	869.89
11/06/73	-5	EB	869.89
11/07/73	-5	EB	869.89
11/08/73	-5.5	EB	869.85
11/09/73	-5.5	EB	869.85
11/10/73	-5.5	EB	869.85
11/11/73	-5.5	EB	869.85
11/12/73	-6	EB	869.81
11/13/73	-6	EB	869.81
11/14/73	-6	EB	869.81
11/15/73	-6	EB	869.81
11/16/73	-6	EB	869.81
11/17/73	-6	EB	869.81
11/18/73	-5.5	EB	869.85
11/19/73	-5.5	EB	869.85
11/20/73	-5.5	EB	869.85
11/21/73	-5.5	EB	869.85
11/22/73	-5.5	EB	869.85
11/23/73	-5.5	EB	869.85
11/24/73	-5.5	EB	869.85
11/25/73	-5.5	EB	869.85
11/26/73	-4.5	EB	869.94
11/27/73	-5	EB	870.00
11/28/73	-2	EB	870.14
11/29/73	-1.5	EB	870.19
11/30/73	-1.5	EB	870.19
12/01/73	-2	EB	870.14
12/02/73	-2	EB	870.14
12/03/73	-1.5	EB	870.19
12/04/73	-1.5	EB	870.19
12/05/73	-1.5	EB	870.19
12/06/73	-1.5	EB	870.19
12/07/73	-1.5	EB	870.19
12/08/73	-1	EB	870.23
12/09/73	-1	EB	870.23
12/10/73	-1	EB	870.23
12/11/73	-1	EB	870.23
12/12/73	-1	EB	870.23
12/13/73	-1	EB	870.23
12/14/73	-1	EB	870.23
12/15/73	-1	EB	870.23
12/16/73	-1	EB	870.23
12/17/73	-1	EB	870.23
12/18/73	-1	EB	870.23
12/19/73	-1	EB	870.23
12/20/73	-1	EB	870.23
12/21/73	-1	EB	870.23
12/22/73	-1	EB	870.23
12/23/73	-1	EB	870.23
12/24/73	-1	EB	870.23
12/25/73	-1	EB	870.23
12/26/73	-1	EB	870.23
12/27/73	-1	EB	870.23
12/28/73	-1	EB	870.23
12/29/73	-1	EB	870.23
12/30/73	-1	EB	870.23
12/31/73	-1	EB	870.23
01/01/74	-1	EB	870.23
01/02/74	-1	EB	870.23
01/03/74	-1	EB	870.23
01/04/74	-1.5	EB	870.19
01/05/74	+1.5	EB	870.19
01/06/74	+1.5	EB	870.19
01/07/74	+2	EB	870.14
01/08/74	+2	EB	870.14
01/09/74	+2	EB	870.14
01/10/74	+2.5	EB	870.10
01/11/74	+3	EB	870.06
01/12/74	+3	EB	870.06
01/13/74	+3.5	EB	870.02
01/14/74	+3.5	EB	870.02
01/15/74	-4	EB	869.98
01/16/74	-4	EB	869.98
01/17/74	-4	EB	870.00
01/18/74	-4	EB	870.23
01/19/74	-4	EB	870.23
01/20/74	-4	EB	870.56
01/21/74	-3	EB	870.55
01/22/74	-4	EB	870.54
01/23/74	+4.5	EB	870.69
01/24/74	5.5	EB	870.77
01/25/74	6.5	EB	870.85
01/26/74	7	EB	870.89
01/27/74	7.5	EB	870.94
01/28/74	8	EB	871.00
01/29/74	9	EB	871.06
01/30/74	9	EB	871.06
01/31/74	9	EB	871.06

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	OSWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
05/06/74	-5	EB	868.84
05/07/74	8.5	EB	869.60
05/10/74	9	EB	869.36
05/11/74	9	EB	869.36
05/11/74	9	EB	869.36
05/13/74	9	EB	869.36
05/14/74	9	EB	869.36
05/15/74	8.5	EB	869.50
05/16/74	8.5	EB	869.50
05/17/74	8.5	EB	869.50
05/17/74	8.5	EB	869.50
05/18/74	9	EB	869.36
05/20/74	9	EB	869.36
05/21/74	9	EB	869.36
05/22/74	9	EB	869.36
05/23/74	9	EB	869.36
05/24/74	9	EB	869.36
05/25/74	9	EB	869.36
05/26/74	9	EB	869.36
05/27/74	9	EB	869.36
05/27/74	9	EB	869.36
05/28/74	8.5	EB	869.50
05/29/74	8	EB	869.64
05/29/74	8	EB	869.64
05/31/74	8	EB	869.64
06/01/74	-8	EB	869.64
06/02/74	-7.5	EB	869.68
06/03/74	-7.5	EB	869.68
06/04/74	-7.5	EB	869.68
06/05/74	-7.5	EB	869.68
06/06/74	-8	EB	869.64
06/07/74	-8	EB	869.64
06/08/74	-8	EB	869.64
06/08/74	-8	EB	869.64
06/09/74	-8	EB	869.64
06/10/74	-8	EB	869.64
06/11/74	-8	EB	869.64
06/12/74	-7	EB	869.73
06/13/74	-7	EB	869.73
06/14/74	-7	EB	869.73
06/15/74	-7	EB	869.73
06/16/74	-7	EB	869.73
06/17/74	-7	EB	869.73
06/18/74	-7	EB	869.73
06/19/74	-7	EB	869.73
06/20/74	-7	EB	869.73
06/21/74	-7	EB	869.73
06/22/74	-7	EB	869.73
06/23/74	-7	EB	869.73
06/24/74	-7	EB	869.73
06/25/74	-7	EB	869.73
06/26/74	-7	EB	869.73
06/27/74	-7	EB	869.73
06/28/74	-7	EB	869.73
06/29/74	-7	EB	869.73
06/30/74	-7.5	EB	869.68
07/01/74	-7.5	EB	869.68
07/02/74	-8	EB	869.64
07/03/74	-8	EB	869.64
07/04/74	-8	EB	869.64
07/05/74	-8.5	EB	869.60
07/06/74	-8.5	EB	869.60
07/07/74	-8.5	EB	869.60
07/08/74	-9	EB	869.56
07/09/74	-9	EB	869.56
07/10/74	-9	EB	869.56
07/11/74	-9	EB	869.56
07/12/74	-9	EB	869.56
07/13/74	-9	EB	869.56
07/14/74	-9	EB	869.56
07/15/74	-9	EB	869.56
07/16/74	-9	EB	869.56
07/17/74	-9	EB	869.56
07/18/74	-9	EB	869.56
07/19/74	-9	EB	869.56
07/20/74	-9.5	EB	869.52
07/21/74	-9.5	EB	869.52
07/22/74	-9.5	EB	869.52
07/23/74	-9.5	EB	869.52
07/24/74	-9.5	EB	869.52
07/25/74	-9.5	EB	869.52
07/26/74	-9.5	EB	869.52
07/27/74	-9.5	EB	869.52
07/28/74	-9.5	EB	869.52
07/29/74	-9.5	EB	869.52
07/30/74	-9.5	EB	869.52
07/31/74	-9.5	EB	869.52
08/01/74	-9.5	EB	869.52
08/02/74	-9.5	EB	869.52
08/03/74	-9	EB	869.56
08/04/74	-9	EB	869.56
08/05/74	-8.5	EB	869.60
08/06/74	-8.5	EB	869.60
08/07/74	-8	EB	869.64
08/08/74	-8	EB	869.64
08/09/74	-8	EB	869.64
08/10/74	-8	EB	869.64
08/11/74	-7.5	EB	869.68
08/12/74	-7.5	EB	869.68
08/13/74	-7.5	EB	869.68
08/14/74	-7.5	EB	869.68
08/15/74	-7.5	EB	869.68
08/16/74	-7.5	EB	869.68
08/17/74	-7.5	EB	869.68
08/18/74	-7.5	EB	869.68
08/19/74	-7	EB	869.73
08/20/74	-7	EB	869.73
08/21/74	-7	EB	869.73
08/22/74	-7	EB	869.73
08/23/74	-7	EB	869.73
08/24/74	-7	EB	869.73
08/25/74	-7	EB	869.73
08/26/74	-7	EB	869.73
08/27/74	-7	EB	869.73
08/28/74	-7	EB	869.73
08/29/74	-7	EB	869.73
08/30/74	-7	EB	869.73
08/31/74	-7	EB	869.73
09/01/74	-7	EB	869.73
09/02/74	-7	EB	869.73
09/03/74	-7	EB	869.73
09/04/74	-7	EB	869.73
09/05/74	-7	EB	869.73
09/06/74	-7	EB	869.73
09/07/74	-7	EB	869.73
09/08/74	-7	EB	869.73
09/09/74	-7	EB	869.73
09/10/74	-7	EB	869.73
09/11/74	-7	EB	869.73
09/12/74	-7	EB	869.73
09/13/74	-7	EB	869.73
09/14/74	-7	EB	869.73
09/15/74	-7	EB	869.73
09/16/74	-7	EB	869.73
09/17/74	-7	EB	869.73
09/18/74	-7	EB	869.73
09/19/74	-7	EB	869.73
09/20/74	-7	EB	869.73
09/21/74	-7	EB	869.73
09/22/74	-7	EB	869.73
09/23/74	-7	EB	869.73
09/24/74	-7	EB	869.73
09/25/74	-7	EB	869.73
09/26/74	-7	EB	869.73
09/27/74	-7	EB	869.73
09/28/74	-7	EB	869.73
09/29/74	-7	EB	869.73
09/30/74	-7	EB	869.73
10/01/74	-7.5	EB	869.68
10/02/74	-7.5	EB	869.68
10/03/74	-8	EB	869.64
10/04/74	-8	EB	869.64
10/05/74	-8.5	EB	869.60
10/06/74	-8.5	EB	869.60
10/07/74	-8.5	EB	869.60
10/08/74	-9	EB	869.56
10/09/74	-9	EB	869.56
10/10/74	-9	EB	869.56
10/11/74	-9	EB	869.56
10/12/74	-9	EB	869.56
10/13/74	-9	EB	869.56
10/14/74	-9	EB	869.56
10/15/74	-9	EB	869.56
10/16/74	-9	EB	869.56
10/17/74	-9	EB	869.56
10/18/74	-9	EB	869.56
10/19/74	-9	EB	869.56
10/20/74	-9.5	EB	869.52
10/21/74	-9.5	EB	869.52
10/22/74	-9.5	EB	869.52
10/23/74	-9.5	EB	869.52
10/24/74	-9.5	EB	869.52
10/25/74	-9.5	EB	869.52
10/26/74	-9.5	EB	869.52
10/27/74	-9.5	EB	869.52
10/28/74	-9.5	EB	869.52
10/29/74	-9.5	EB	869.52
10/30/74	-9.5	EB	869.52
10/31/74	-9.5	EB	869.52
11/01/74	-9.5	EB	869.52
11/02/74	-9.5	EB	869.52
11/03/74	-9	EB	869.56
11/04/74	-9	EB	869.56
11/05/74	-8.5	EB	869.60
11/06/74	-8.5	EB	869.60
11/07/74	-8	EB	869.64
11/08/74	-8	EB	869.64
11/09/74	-8	EB	869.64
11/10/74	-8	EB	869.64
11/11/74	-7.5	EB	869.68
11/12/74	-7.5	EB	869.68
11/13/74	-7.5	EB	869.68
11/14/74	-7.5	EB	869.68
11/15/74	-7.5	EB	869.68
11/16/74	-8	EB	869.64
11/17/74	-8	EB	869.64
11/18/74	-8	EB	869.64
11/19/74	-8	EB	869.64
11/20/74	-8	EB	869.64
11/21/74	-8	EB	869.64
11/22/74	-8	EB	869.64
11/23/74	-8	EB	869.64
11/24/74	-8	EB	869.64
11/25/74	-8	EB	869.64
11/26/74	-8	EB	869.64
11/27/74	-8	EB	869.64
11/28/74	-8	EB	869.64
11/29/74	-7.5	EB	869.68
11/30/74	-7.5	EB	869.68
12/01/74	-7.5	EB	869.68
12/02/74	-7	EB	869.73
12/03/74	-7	EB	869.73
12/04/74	-6.5	EB	869.77
12/05/74	-6.5	EB	869.77
12/06/74	-6	EB	869.81
12/07/74	-5.5	EB	869.85
12/08/74	-5	EB	869.89
12/09/74	-4.5	EB	869.94
12/10/74	-4.5	EB	869.94
12/11/74	-5	EB	869.89
12/12/74	-5	EB	869.89
12/13/74	-5	EB	869.89
12/14/74	-4.5	EB	869.94
12/15/74	-3.5	EB	870.02
12/16/74	-3	EB	870.06
12/17/74	-3	EB	870.06
12/18/74	-2.5	EB	870.10
12/19/74	-2.5	EB	870.10
12/20/74	-2.5	EB	870.10
12/21/74	-2.5	EB	870.10
12/22/74	-2	EB	870.14
12/23/74	-2	EB	870.14
12/24/74	-2	EB	870.14
12/25/74	-2	EB	870.14
12/26/74	-2	EB	870.14
12/27/74	-1	EB	870.23
12/28/74	-1	EB	870.23
12/29/74	1	EB	870.31
12/30/74	1	EB	870.31
12/31/74	1.5	EB	870.43
01/01/75	1.5	EB	870.43
01/02/75	2	EB	870.43
01/03/75	2	EB	870.43
01/04/75	2	EB	870.43
01/05/75	2	EB	870.43
01/06/75	2	EB	870.43
01/07/75	2	EB	870.43
01/08/75	2	EB	870.43
01/09/75	1.5	EB	870.43
01/10/75	1.5	EB	870.43
01/11/75	1.5	EB	870.43
01/12/75	1.5	EB	870.43
01/13/75	1	EB	870.34
01/14/75	1	EB	870.34
01/15/75	1	EB	870.34
01/16/75	0.5	EB	870.26
01/17/75	0.5	EB	870.26
01/18/75	0	EB	870.31
01/19/75	0	EB	870.31
01/20/75	1	EB	870.34
01/21/75	1.5	EB	870.43
01/22/75	2	EB	870.43
01/23/75	2	EB	870.43
01/24/75	1.5	EB	870.43
01/25/75	1.5	EB	870.43
01/26/75	1.5	EB	870.43
01/27/75	1	EB	870.34
01/28/75	1	EB	870.34
01/29/75	1	EB	870.34
01/30/75	0.5	EB	870.26
01/31/75	0.5	EB	870.26
02/01/75	0	EB	870.31

EB = East Bank
WB = West Bank
BK = Backwater
NA = Not Available

Date	CBWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
08/19/75	0	EB	870.31
08/20/75	0	EB	870.31
08/21/75	0	EB	870.31
08/22/75	-0.5	EB	870.27
08/23/75	0	EB	870.31
08/24/75	0	EB	870.31
08/25/75	-0.5	EB	870.27
08/26/75	0	EB	870.31
08/27/75	0	EB	870.31
08/28/75	0.5	EB	870.35
08/29/75	0	EB	870.31
08/30/75	-1	EB	870.23
08/31/75	-1	EB	870.23
09/01/75	-1	EB	870.23
09/02/75	-1	EB	870.23
09/03/75	-1	EB	870.23
09/04/75	-2	EB	870.14
09/05/75	-2	EB	870.14
09/06/75	-2.5	EB	870.27
09/07/75	-2.5	EB	870.27
09/08/75	-1	EB	870.23
09/09/75	-1	EB	870.23
09/10/75	-1	EB	870.23
09/11/75	-1	EB	870.23
09/12/75	-1.5	EB	870.19
09/13/75	-1.5	EB	870.19
09/14/75	-1.5	EB	870.19
09/15/75	-2	EB	870.14
09/16/75	-2	EB	870.14
09/17/75	-2	EB	870.14
09/18/75	-2	EB	870.14
09/19/75	-2	EB	870.14
09/20/75	-1.5	EB	870.19
09/21/75	-1.5	EB	870.19
09/22/75	-1	EB	870.23
09/23/75	-1	EB	870.23
09/24/75	-1	EB	870.23
09/25/75	-1.5	EB	870.19
09/26/75	-1.5	EB	870.19
09/27/75	-2	EB	870.14
09/28/75	-2	EB	870.14
09/29/75	-2.5	EB	870.08
09/30/75	-2.5	EB	870.08
10/01/75	-2.5	EB	870.16
10/02/75	-2.5	EB	870.10
10/03/75	-2.5	EB	870.10
10/04/75	-3	EB	870.06
10/05/75	-3	EB	870.06
10/06/75	-3	EB	870.06
10/07/75	-3	EB	870.06
10/08/75	-3.5	EB	870.02
10/09/75	-3.5	EB	870.02
10/10/75	-3.5	EB	870.02
10/11/75	-4	EB	869.98
10/12/75	-4	EB	869.98
10/13/75	-4	EB	869.98
10/14/75	-4	EB	869.98
10/15/75	-4	EB	869.98
10/16/75	-4	EB	869.98
10/17/75	-4	EB	869.98
10/18/75	-4	EB	869.98
10/19/75	-4	EB	869.98
10/20/75	-4	EB	869.98
10/21/75	-4	EB	869.98
10/22/75	-4	EB	869.98
10/23/75	-4	EB	869.98
10/24/75	-4	EB	869.98
10/25/75	-4	EB	869.98
10/26/75	-4.5	EB	869.94
10/27/75	-4.5	EB	869.94
10/28/75	-4	EB	869.98
10/29/75	-4	EB	869.98
10/30/75	-4	EB	869.98
10/31/75	-4	EB	869.98
11/01/75	-4.5	EB	869.94
11/02/75	-5	EB	869.89
11/03/75	-5	EB	869.89
11/04/75	-5	EB	869.89
11/05/75	-5	EB	869.89
11/06/75	-5	EB	869.89
11/07/75	-5	EB	869.89
11/08/75	-5	EB	869.89
11/09/75	-5	EB	869.89
11/10/75	-5	EB	869.89
11/11/75	-5	EB	869.89
11/12/75	-5.5	EB	869.85
11/13/75	-5.5	EB	869.85
11/14/75	-5.5	EB	869.85
11/15/75	-6	EB	869.81
11/16/75	-6	EB	869.81
11/17/75	-6	EB	869.81
11/18/75	-6	EB	869.81
11/19/75	-6.5	EB	869.77
11/20/75	-6.5	EB	869.77
11/21/75	-6.5	EB	869.77
11/22/75	-6.5	EB	869.77
11/23/75	-7	EB	869.73
11/24/75	-7	EB	869.73
11/25/75	-7	EB	869.73
11/26/75	-7	EB	869.73
11/27/75	-7	EB	869.73
11/28/75	-7	EB	869.73
11/29/75	-7	EB	869.73
11/30/75	-7	EB	869.73
12/01/75	-7	EB	869.73
12/02/75	-7	EB	869.73
12/03/75	-7	EB	869.73
12/04/75	-7	EB	869.73
12/05/75	-7	EB	869.73
12/06/75	-7	EB	869.73
12/07/75	-7	EB	869.73
12/08/75	-7	EB	869.73
12/09/75	-7	EB	869.73
12/10/75	-7	EB	869.73
12/11/75	-7	EB	869.73
12/12/75	-7.5	EB	869.69
12/13/75	-7.5	EB	869.69
12/14/75	-7.5	EB	869.69
12/15/75	-7.5	EB	869.69
12/16/75	-7.5	EB	869.69
12/17/75	-7.5	EB	869.69
12/18/75	-7.5	EB	869.69
12/19/75	-7.5	EB	869.69
12/20/75	-7.5	EB	869.69
12/21/75	-7.5	EB	869.69
12/22/75	-8	EB	869.64
12/23/75	-8	EB	869.64
12/24/75	-8	EB	869.64
12/25/75	-8	EB	869.64
12/26/75	-8	EB	869.64
12/27/75	-8	EB	869.64
12/28/75	-8	EB	869.64
12/29/75	-8	EB	869.64
12/30/75	-8	EB	869.64
12/31/75	-8	EB	869.64
01/01/76	-8	EB	869.64
01/02/76	-8	EB	869.64
01/03/76	-8	EB	869.64
01/04/76	-8	EB	869.64
01/05/76	-8	EB	869.64
01/06/76	-8	EB	869.64
01/07/76	-8	EB	869.64
01/08/76	-8	EB	869.64
01/09/76	-8	EB	869.64
01/10/76	-7.5	EB	869.69
01/11/76	-7.5	EB	869.69
01/12/76	-7.5	EB	869.69
01/13/76	-7.5	EB	869.69
01/14/76	-7.5	EB	869.69
01/15/76	-8	EB	869.64
01/16/76	-8	EB	869.64
01/17/76	-8	EB	869.64
01/18/76	-8	EB	869.64
01/19/76	-8	EB	869.64
01/20/76	-8	EB	869.64
01/21/76	-8	EB	869.64
01/22/76	-8	EB	869.64
01/23/76	-8	EB	869.64
01/24/76	-8	EB	869.64
01/25/76	-8	EB	869.64
01/26/76	-7.5	EB	869.69
01/27/76	-7.5	EB	869.69
01/28/76	-7.5	EB	869.69
01/29/76	-7.5	EB	869.69
01/30/76	-7.5	EB	869.69
01/31/76	-7.5	EB	869.69
02/01/76	-7.5	EB	869.69
02/02/76	-7.5	EB	869.69
02/03/76	-7.5	EB	869.69
02/04/76	-7.5	EB	869.69
02/05/76	-6	EB	869.81
02/06/76	-6.5	EB	869.85
02/07/76	-5	EB	869.99
02/08/76	-6	EB	869.89
02/09/76	-6	EB	869.89
02/10/76	-5	EB	869.99
02/11/76	-4	EB	869.94
02/12/76	-3	EB	870.06
02/13/76	-2.5	EB	870.10
02/14/76	-2.5	EB	870.10
02/15/76	-2.5	EB	870.10
02/16/76	1	EB	870.39
02/17/76	2	EB	870.48
02/18/76	4	EB	870.64
02/19/76	4	EB	870.64
02/20/76	5	EB	870.73
02/21/76	5	EB	870.73
02/22/76	5	EB	870.73

EB = East Basin
WB = West Basin
Bot = Bottom
NA = Not Available

Date	ODNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
08/29/76	-8.5	EB	869.33
08/30/76	-9.5	EB	869.32
08/31/76	-10	EB	869.44
09/01/76	-10	EB	869.44
09/02/76	-10.5	EB	869.44
09/03/76	-10.5	EB	869.44
09/04/76	-11	EB	869.39
09/05/76	-11	EB	869.39
09/06/76	-11.5	EB	869.35
09/07/76	-11.5	EB	869.35
09/08/76	-12	EB	869.31
09/09/76	-12	EB	869.31
09/10/76	-12.5	EB	869.27
09/11/76	-12.5	EB	869.27
09/12/76	-12.5	EB	869.27
09/13/76	-12.5	EB	869.27
09/14/76	-13	EB	869.23
09/15/76	-13	EB	869.23
09/16/76	-13	EB	869.23
09/17/76	-13	EB	869.23
09/18/76	-13	EB	869.23
09/19/76	-13	EB	869.23
09/20/76	-13	EB	869.23
09/21/76	-13	EB	869.23
09/22/76	-13	EB	869.23
09/23/76	-13	EB	869.23
09/24/76	-13	EB	869.23
09/25/76	-13	EB	869.23
09/26/76	-13	EB	869.23
09/27/76	-13.5	EB	869.19
09/28/76	-13.5	EB	869.19
09/29/76	-13.5	EB	869.19
09/30/76	-14	EB	869.14
10/01/76	-14	EB	869.14
10/02/76	-14	EB	869.14
10/03/76	-14	EB	869.14
10/04/76	-14.5	EB	869.10
10/05/76	-14.5	EB	869.10
10/06/76	-15	EB	869.06
10/07/76	-15	EB	869.06
10/08/76	-15.5	EB	869.02
10/09/76	-15.5	EB	869.02
10/10/76	-15.5	EB	869.02
10/11/76	-15.5	EB	869.02
10/12/76	-15.5	EB	869.02
10/13/76	-15.5	EB	869.02
10/14/76	-15.5	EB	869.02
10/15/76	-15.5	EB	869.02
10/16/76	-15.5	EB	869.02
10/17/76	-15.5	EB	869.02
10/18/76	-16	EB	868.98
10/19/76	-16	EB	868.98
10/20/76	-16.5	EB	868.94
10/21/76	-16.5	EB	868.94
10/22/76	-16.5	EB	868.94
10/23/76	-16.5	EB	868.94
10/24/76	-16.5	EB	868.94
10/25/76	-16.5	EB	868.94
10/26/76	-16.5	EB	868.94
10/27/76	-16.5	EB	868.94
10/28/76	-16.5	EB	868.94
10/29/76	-16.5	EB	868.94
10/30/76	-16.5	EB	868.94
10/31/76	-16.5	EB	868.94
11/01/76	-17	EB	868.90
11/02/76	-17	EB	868.90
11/03/76	-17	EB	868.90
11/04/76	-17	EB	868.90
11/05/76	-17	EB	868.90
11/06/76	-17	EB	868.90
11/07/76	-17	EB	868.90
11/08/76	-17	EB	868.90
11/09/76	-17	EB	868.90
11/10/76	-17	EB	868.90
11/11/76	-17	EB	868.90
11/12/76	-17	EB	868.90
11/13/76	-17	EB	868.90
11/14/76	-17	EB	868.90
11/15/76	-17	EB	868.90
11/16/76	-17	EB	868.90
11/17/76	-17.5	EB	868.86
11/18/76	-17.5	EB	868.86
11/19/76	-17.5	EB	868.86
11/20/76	-17.5	EB	868.86
11/21/76	-17.5	EB	868.86
11/22/76	-17.5	EB	868.86
11/23/76	-17.5	EB	868.86
11/24/76	-17.5	EB	868.86
11/25/76	-17.5	EB	868.86
11/26/76	-17.5	EB	868.86
11/27/76	-17.5	EB	868.86
11/28/76	-17.5	EB	868.86
11/29/76	-17.5	EB	868.86
11/30/76	-17.5	EB	868.86
12/01/76	-17.5	EB	868.86
12/02/76	-17	EB	868.90
12/03/76	-17	EB	868.90
12/04/76	-17	EB	868.90
12/05/76	-17	EB	868.90
12/06/76	-17	EB	868.90
12/07/76	-17	EB	868.90
12/08/76	-17	EB	868.90
12/09/76	-17	EB	868.90
12/10/76	-17	EB	868.90
12/11/76	-17	EB	868.90
12/12/76	-17	EB	868.90
12/13/76	-17	EB	868.90
12/14/76	-17	EB	868.90
12/15/76	-17.5	EB	868.86
12/16/76	-17.5	EB	868.86
12/17/76	-17.5	EB	868.86
12/18/76	-17.5	EB	868.86
12/19/76	-17.5	EB	868.86
12/20/76	-17.5	EB	868.86
12/21/76	-17.5	EB	868.86
12/22/76	-17.5	EB	868.86
12/23/76	-17.5	EB	868.86
12/24/76	-17.5	EB	868.86
12/25/76	-17.5	EB	868.86
12/26/76	-17.5	EB	868.86
12/27/76	-17.5	EB	868.86
12/28/76	-17.5	EB	868.86
12/29/76	-17.5	EB	868.86
12/30/76	-17.5	EB	868.86
12/31/76	-17.5	EB	868.86
01/01/77	-17.5	EB	868.86
01/02/77	-17.5	EB	868.86
01/03/77	-17.5	EB	868.86
01/04/77	-17.5	EB	868.86
01/05/77	-17.5	EB	868.86
01/06/77	-17.5	EB	868.86
01/07/77	-17.5	EB	868.86
01/08/77	-17.5	EB	868.86
01/09/77	-17.5	EB	868.86
01/10/77	-17.5	EB	868.86
01/11/77	-17.5	EB	868.86
01/12/77	-17.5	EB	868.86
01/13/77	-17.5	EB	868.86
01/14/77	-17.5	EB	868.86
01/15/77	-17.5	EB	868.86
01/16/77	-17.5	EB	868.86
01/17/77	-17.5	EB	868.86
01/18/77	-18	EB	868.91
01/19/77	-18	EB	868.91
01/20/77	-18	EB	868.91
01/21/77	-18	EB	868.91
01/22/77	-18	EB	868.91
01/23/77	-18	EB	868.91
01/24/77	-18	EB	868.91
01/25/77	-18	EB	868.91
01/26/77	-18	EB	868.91
01/27/77	-18	EB	868.91
01/28/77	-18	EB	868.91
01/29/77	-18	EB	868.91
01/30/77	-18	EB	868.91
01/31/77	-18	EB	868.91
02/01/77	-18	EB	868.91
02/02/77	-18	EB	868.91
02/03/77	-18	EB	868.91
02/04/77	-18	EB	868.91
02/05/77	-18	EB	868.91
02/06/77	-18	EB	868.91
02/07/77	-18	EB	868.91
02/08/77	-18	EB	868.91
02/09/77	-18	EB	868.91
02/10/77	-18	EB	868.91
02/11/77	-18	EB	868.91
02/12/77	-18	EB	868.91
02/13/77	-18	EB	868.91
02/14/77	-18	EB	868.91
02/15/77	-17.5	EB	868.95
02/16/77	-17.5	EB	868.95
02/17/77	-17.5	EB	868.95
02/18/77	-17	EB	868.99
02/19/77	-17	EB	868.99
02/20/77	-17	EB	868.99
02/21/77	-17	EB	868.99
02/22/77	-17	EB	868.99
02/23/77	-17	EB	868.99
02/24/77	-16	EB	869.08
02/25/77	-16	EB	869.08
02/26/77	-14	EB	869.16
02/27/77	-11.5	EB	869.26
02/28/77	-11.5	EB	869.33
03/01/77	-12	EB	869.31
03/02/77	-11.5	EB	869.35
03/03/77	-11	EB	869.39
03/04/77	-10.5	EB	869.44

EB = East Basin
WB = West Basin
ER = Everflows
NA = Not Available

Date	DEM Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
09/04/77	-19	EB	868.73
09/10/77	-19.5	EB	868.69
09/11/77	-19.5	EB	868.69
09/12/77	-20	EB	868.64
09/13/77	-20	EB	868.64
09/14/77	-18	EB	868.81
09/15/77	-17	EB	868.89
09/16/77	-16.5	EB	868.94
09/17/77	-16	EB	868.96
09/18/77	-16	EB	868.96
09/19/77	-16	EB	868.96
09/20/77	-16	EB	868.96
09/21/77	-16	EB	868.96
09/22/77	-16	EB	868.96
09/23/77	-16	EB	868.96
09/24/77	-16.5	EB	868.94
09/25/77	-16.5	EB	868.94
09/26/77	-16.5	EB	868.94
09/27/77	-16.5	EB	868.94
09/28/77	-16.5	EB	868.94
09/29/77	-17	EB	868.89
09/30/77	-17	EB	868.89
10/01/77	-17	EB	868.89
10/02/77	-17	EB	868.89
10/03/77	-17	EB	868.89
10/04/77	-17	EB	868.89
10/05/77	-17	EB	868.89
10/06/77	-17	EB	868.89
10/07/77	-17.5	EB	868.85
10/08/77	-17.5	EB	868.85
10/09/77	-17.5	EB	868.85
10/10/77	-17.5	EB	868.85
10/11/77	-17.5	EB	868.85
10/12/77	-18	EB	868.81
10/13/77	-18	EB	868.81
10/14/77	-18	EB	868.81
10/15/77	-18	EB	868.81
10/16/77	-18.5	EB	868.77
10/17/77	-18.5	EB	868.77
10/18/77	-18.5	EB	868.77
10/19/77	-18.5	EB	868.77
10/20/77	-18.5	EB	868.77
10/21/77	-18.5	EB	868.77
10/22/77	-18.5	EB	868.77
10/23/77	-18.5	EB	868.77
10/24/77	-18.5	EB	868.77
10/25/77	-18.5	EB	868.77
10/26/77	-18	EB	868.73
10/27/77	-18	EB	868.73
10/28/77	-18	EB	868.73
10/29/77	-18	EB	868.73
10/30/77	-18	EB	868.73
10/31/77	-18	EB	868.73
11/01/77	-18	EB	868.73
11/02/77	-18	EB	868.73
11/03/77	-18	EB	868.73
11/04/77	-18	EB	868.73
11/05/77	-18	EB	868.73
11/06/77	-18	EB	868.73
11/07/77	-18	EB	868.73
11/08/77	-18.5	EB	868.77
11/09/77	-18.5	EB	868.77
11/10/77	-18	EB	868.73
11/11/77	-18.5	EB	868.77
11/12/77	-18.5	EB	868.77
11/13/77	-18.5	EB	868.77
11/14/77	-18.5	EB	868.77
11/15/77	-18.5	EB	868.77
11/16/77	-18.5	EB	868.77
11/17/77	-18.5	EB	868.77
11/18/77	-18.5	EB	868.77
11/19/77	-18	EB	868.73
11/20/77	-18	EB	868.73
11/21/77	-18	EB	868.73
11/22/77	-18	EB	868.73
11/23/77	-18	EB	868.73
11/24/77	-18	EB	868.73
11/25/77	-18	EB	868.73
11/26/77	-18	EB	868.73
11/27/77	-18	EB	868.73
11/28/77	-18	EB	868.73
11/29/77	-18	EB	868.73
11/30/77	-18	EB	868.73
12/01/77	-18	EB	868.73
12/02/77	-18.5	EB	868.77
12/03/77	-18.5	EB	868.77
12/04/77	-18	EB	868.81
12/05/77	-17.5	EB	868.85
12/06/77	-17.5	EB	868.85
12/07/77	-17.5	EB	868.85
12/08/77	-17	EB	868.89
12/09/77	-16.5	EB	868.94
12/10/77	-16.5	EB	868.94
12/11/77	-16.5	EB	868.94
12/12/77	-16.5	EB	868.94
12/13/77	-16	EB	868.98
12/14/77	-16.5	EB	869.19
12/15/77	-16.5	EB	869.44
12/16/77	-6	EB	869.56
12/17/77	-5	EB	869.64
12/18/77	-3	EB	870.06
12/19/77	0.5	EB	870.35
12/20/77	1	EB	870.39
12/21/77	1	EB	870.39
12/22/77	1	EB	870.39
12/23/77	1	EB	870.39
12/24/77	0.5	EB	870.35
12/25/77	0.5	EB	870.35
12/26/77	0.5	EB	870.35
12/27/77	0.5	EB	870.35
12/28/77	0	EB	870.31
12/29/77	0	EB	870.31
12/30/77	0	EB	870.31
12/31/77	0	EB	870.31
01/01/78	0	EB	870.31
01/02/78	0	EB	870.31
01/03/78	0	EB	870.31
01/04/78	-0.5	EB	870.27
01/05/78	-1	EB	870.23
01/06/78	-1	EB	870.23
01/07/78	-1	EB	870.23
01/08/78	-1	EB	870.23
01/09/78	-1	EB	870.23
01/10/78	-1	EB	870.23
01/11/78	-1	EB	870.23
01/12/78	-1	EB	870.23
01/13/78	-1	EB	870.23
01/14/78	-1	EB	870.23
01/15/78	-1	EB	870.23
01/16/78	-1	EB	870.23
01/17/78	-1.5	EB	870.19
01/18/78	-1.5	EB	870.19
01/19/78	-1.5	EB	870.19
01/20/78	-2	EB	870.14
01/21/78	-2	EB	870.14
01/22/78	-2.5	EB	870.10
01/23/78	-3	EB	870.06
01/24/78	-3.5	EB	870.02
01/25/78	-3.5	EB	870.02
01/26/78	-3.5	EB	870.02
01/27/78	-3.5	EB	870.02
01/28/78	-4	EB	869.98
01/29/78	-4	EB	869.98
01/30/78	-4	EB	869.98
01/31/78	-4	EB	869.98
02/01/78	-4.5	EB	869.94
02/02/78	-4.5	EB	869.94
02/03/78	-5	EB	869.89
02/04/78	-5	EB	869.89
02/05/78	-5.5	EB	869.85
02/06/78	-5.5	EB	869.85
02/07/78	-5	EB	869.81
02/08/78	-5.5	EB	869.77
02/09/78	-7	EB	869.73
02/10/78	-7	EB	869.73
02/11/78	-7.5	EB	869.69
02/12/78	-8	EB	869.64
02/13/78	-8	EB	869.64
02/14/78	-8	EB	869.64
02/15/78	-8	EB	869.64
02/16/78	-8	EB	869.64
02/17/78	-8	EB	869.64
02/18/78	-8	EB	869.64
02/19/78	-8	EB	869.64
02/20/78	-8	EB	869.64
02/21/78	-8	EB	869.64
02/22/78	-8	EB	869.64
02/23/78	-8	EB	869.64
02/24/78	-8	EB	869.64
02/25/78	-8	EB	869.64
02/26/78	-8	EB	869.64
02/27/78	-8	EB	869.64
02/28/78	-8	EB	869.64
03/01/78	-8	EB	869.64
03/02/78	-8	EB	869.64
03/03/78	-8	EB	869.64
03/04/78	-8	EB	869.64
03/05/78	-8	EB	869.64
03/06/78	-8	EB	869.64
03/07/78	-8	EB	869.64
03/08/78	-8	EB	869.64
03/09/78	-8	EB	869.64
03/10/78	-8	EB	869.64
03/11/78	-8	EB	869.64
03/12/78	-8	EB	869.64
03/13/78	-8	EB	869.64
03/14/78	-7	EB	869.73
03/15/78	-3	EB	870.06

EB = East Bank
WB = West Bank
GH = Greenhouse
NA = Not Available

Date	Gage Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
09/20/78	-5	EB	858.88
09/21/78	-5.5	EB	858.85
09/22/78	-5.5	EB	858.85
09/23/78	-5.5	EB	858.85
09/24/78	-5	EB	858.91
09/25/78	-5	EB	858.91
09/26/78	-5.5	EB	858.77
09/27/78	-5.5	EB	858.77
09/28/78	-7	EB	858.72
09/29/78	-7	EB	858.72
09/30/78	-7	EB	858.72
10/01/78	-7	EB	858.72
10/02/78	-7	EB	858.72
10/03/78	-7	EB	858.72
10/04/78	-7	EB	858.72
10/05/78	-7	EB	858.72
10/06/78	-7.5	EB	858.68
10/07/78	-7.5	EB	858.68
10/08/78	-7.5	EB	858.68
10/09/78	-8	EB	858.64
10/10/78	-8	EB	858.64
10/11/78	-8	EB	858.64
10/12/78	-8.5	EB	858.60
10/13/78	-8.5	EB	858.60
10/14/78	-9	EB	858.64
10/15/78	-11	EB	858.68
10/16/78	-12.5	EB	858.58
10/17/78	-12.5	EB	858.69
10/18/78	-13	EB	858.69
10/19/78	-12.5	EB	858.69
10/20/78	-12.5	EB	858.69
10/21/78	-9	EB	858.64
10/22/78	-8	EB	858.64
10/23/78	-8	EB	858.64
10/24/78	-8	EB	858.64
10/25/78	-8	EB	858.64
10/26/78	-8	EB	858.64
10/27/78	-8	EB	858.64
10/28/78	-8	EB	858.64
10/29/78	-8	EB	858.64
10/30/78	-8	EB	858.64
10/31/78	-8	EB	858.64
11/01/78	-8	EB	858.64
11/02/78	-8	EB	858.64
11/03/78	-8	EB	858.64
11/04/78	-8	EB	858.64
11/05/78	-8	EB	858.64
11/06/78	-8	EB	858.64
11/07/78	-9	EB	858.60
11/08/78	-8.5	EB	858.60
11/09/78	-8.5	EB	858.60
11/10/78	-8.5	EB	858.60
11/11/78	-8.5	EB	858.60
11/12/78	-9	EB	858.56
11/13/78	-9	EB	858.56
11/14/78	-9	EB	858.56
11/15/78	-9	EB	858.56
11/16/78	-9	EB	858.56
11/17/78	-9	EB	858.56
11/18/78	-8.5	EB	858.60
11/19/78	-8	EB	858.64
11/20/78	-8	EB	858.64
11/21/78	-8	EB	858.64
11/22/78	-8	EB	858.64
11/23/78	-8	EB	858.64
11/24/78	-8	EB	858.64
11/25/78	-8	EB	858.64
11/26/78	-8	EB	858.64
11/27/78	-8	EB	858.64
11/28/78	-8	EB	858.64
11/29/78	-8	EB	858.64
11/30/78	-8	EB	858.64
12/01/78	-8	EB	858.64
12/02/78	-8	EB	858.64
12/03/78	-7.5	EB	858.68
12/04/78	-7	EB	858.73
12/05/78	-7	EB	858.73
12/06/78	-7	EB	858.73
12/07/78	-7	EB	858.73
12/08/78	-6.5	EB	858.77
12/09/78	-6.5	EB	858.77
12/10/78	-6	EB	858.81
12/11/78	-6	EB	858.81
12/12/78	-6	EB	858.81
12/13/78	-6	EB	858.81
12/14/78	-6.5	EB	858.77
12/15/78	-6.5	EB	858.77
12/16/78	-7	EB	858.73
12/17/78	-7	EB	858.73
12/18/78	-7.5	EB	858.69
12/19/78	-7.5	EB	858.69
12/20/78	-7.5	EB	858.69
12/21/78	-7.5	EB	858.69
12/22/78	-7.5	EB	858.69
12/23/78	-7.5	EB	858.69
12/24/78	-8	EB	858.64
12/25/78	-8	EB	858.64
12/26/78	-8	EB	858.64
12/27/78	-8	EB	858.64
12/28/78	-8	EB	858.64
12/29/78	-8.5	EB	858.60
12/30/78	-8.5	EB	858.60
12/31/78	-8	EB	858.64
01/01/79	-7	EB	858.72
01/02/79	-6	EB	858.80
01/03/79	-5	EB	858.89
01/04/79	-5	EB	858.89
01/05/79	-5.5	EB	858.85
01/06/79	-5.5	EB	858.85
01/07/79	-5.5	EB	858.85
01/08/79	-5.5	EB	858.85
01/09/79	-6	EB	858.81
01/10/79	-6	EB	858.81
01/11/79	-6	EB	858.81
01/12/79	-6.5	EB	858.77
01/13/79	-6.5	EB	858.77
01/14/79	-6.5	EB	858.77
01/15/79	-7	EB	858.72
01/16/79	-7	EB	858.72
01/17/79	-7	EB	858.72
01/18/79	-7	EB	858.72
01/19/79	-7	EB	858.72
01/20/79	-7	EB	858.72
01/21/79	-7.5	EB	858.68
01/22/79	-7.5	EB	858.68
01/23/79	-7.5	EB	858.68
01/24/79	-11.5	EB	858.58
01/25/79	-11.5	EB	858.58
01/26/79	-11.5	EB	858.58
01/27/79	-11.5	EB	858.58
01/28/79	-11.5	EB	858.58
01/29/79	-11.5	EB	858.58
01/30/79	-11.5	EB	858.58
01/31/79	-11.5	EB	858.58
02/01/79	-8	EB	858.64
02/02/79	-8	EB	858.64
02/03/79	-8	EB	858.64
02/04/79	-8.5	EB	858.60
02/05/79	-8.5	EB	858.60
02/06/79	-8.5	EB	858.57
02/07/79	-8.5	EB	858.60
02/08/79	-8	EB	858.56
02/09/79	-8	EB	858.56
02/10/79	-8	EB	858.56
02/11/79	-9	EB	858.56
02/12/79	-9	EB	858.56
02/13/79	-9	EB	858.56
02/14/79	-9	EB	858.56
02/15/79	-9	EB	858.56
02/16/79	-9	EB	858.56
02/17/79	-9	EB	858.56
02/18/79	-9	EB	858.56
02/19/79	-8	EB	858.56
02/20/79	-8	EB	858.56
02/21/79	-8	EB	858.56
02/22/79	-8.5	EB	858.60
02/23/79	-8	EB	858.64
02/24/79	-8	EB	858.64
02/25/79	-7	EB	858.72
02/26/79	-6	EB	858.80
02/27/79	-5	EB	858.89
02/28/79	-4	EB	858.97
03/01/79	-3	EB	859.05
03/02/79	-2	EB	859.14
03/03/79	-1	EB	859.22
03/04/79	0	EB	859.31
03/05/79	0	EB	859.31
03/06/79	0	EB	859.31
03/07/79	1	EB	859.39
03/08/79	1	EB	859.47
03/09/79	2	EB	859.72
03/10/79	3	EB	859.97
03/11/79	3.5	EB	860.02
03/12/79	4	EB	860.06
03/13/79	4	EB	860.06
03/14/79	4	EB	860.06
03/15/79	4	EB	860.06
03/16/79	4	EB	860.06
03/17/79	4	EB	860.06
03/18/79	4	EB	860.06
03/19/79	4	EB	860.06
03/20/79	4	EB	860.06
03/21/79	4	EB	860.06
03/22/79	4	EB	860.06
03/23/79	4	EB	860.06
03/24/79	4	EB	860.06
03/25/79	3.5	EB	860.02
03/26/79	3.5	EB	860.02

EB = East Bank
WB = West Bank
FH = Boat House
NA = Not Available

Date	DDNR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
10/03/78	5	EB	870.72
10/28/78	6	EB	870.81
10/30/78	5.5	EB	870.77
10/04/78	5.5	EB	870.77
10/05/78	5	EB	870.72
10/06/78	5	EB	870.72
10/07/78	5	EB	870.72
10/08/78	4.5	EB	870.68
10/09/78	4.5	EB	870.68
10/10/78	4.5	EB	870.68
10/11/78	4	EB	870.64
10/12/78	4	EB	870.64
10/13/78	3.5	EB	870.60
10/14/78	3.5	EB	870.60
10/15/78	3	EB	870.56
10/16/78	2.5	EB	870.53
10/17/78	3	EB	870.56
10/18/78	2.5	EB	870.53
10/19/78	2.5	EB	870.53
10/20/78	2	EB	870.47
10/21/78	2	EB	870.47
10/22/78	1.5	EB	870.45
10/23/78	1	EB	870.39
10/24/78	1	EB	870.39
10/25/78			870.31
10/26/78	-0.5	EB	870.27
10/27/78	-0.5	EB	870.27
10/28/78	-1	EB	870.22
10/29/78	-1	EB	870.22
10/29/78	-1	EB	870.22
10/30/78	-1	EB	870.22
11/01/78	-1	EB	870.22
11/02/78	-1	EB	870.22
11/03/78	-1	EB	870.22
11/04/78	-1	EB	870.22
11/05/78	-1	EB	870.22
11/06/78	-1.5	EB	870.18
11/07/78	-1.5	EB	870.18
11/08/78	-2	EB	870.14
11/09/78	-2	EB	870.14
11/10/78	-1.5	EB	870.18
11/11/78	-1.5	EB	870.18
11/12/78	-1.5	EB	870.18
11/13/78	-2	EB	870.14
11/14/78	-2	EB	870.14
11/15/78	-2	EB	870.14
11/16/78	-2.5	EB	870.10
11/17/78	-2.5	EB	870.10
11/18/78	-2.5	EB	870.10
11/19/78	-2.5	EB	870.10
11/20/78	-3	EB	870.06
11/21/78	-3	EB	870.06
11/22/78	-3	EB	870.06
11/23/78	3	EB	870.06
11/24/78	4	EB	870.64
11/25/78	4	EB	870.64
11/26/78	5	EB	870.72
11/27/78	5	EB	870.72
11/28/78	5	EB	870.72
12/05/78	6.5	EB	870.85
12/04/78	6.5	EB	870.85
12/05/78	6.5	EB	870.85
12/02/78	6	EB	870.81
12/03/78	6	EB	870.81
12/04/78	6	EB	870.81
12/05/78	6	EB	870.81
12/06/78	6	EB	870.81
12/07/78	6	EB	870.81
12/08/78	5	EB	870.72
12/09/78	5	EB	870.72
12/10/78	5	EB	870.72
12/11/78	4.5	EB	870.68
12/12/78	4.5	EB	870.68
12/13/78	4	EB	870.64
12/14/78	4	EB	870.64
12/15/78	4	EB	870.64
12/16/78	3.5	EB	870.60
12/17/78	3.5	EB	870.60
12/18/78	3.5	EB	870.60
12/19/78	3	EB	870.56
12/20/78	2.5	EB	870.52
12/21/78	3	EB	870.47
12/22/78	3	EB	870.56
12/23/78	4	EB	870.64
12/24/78	4.5	EB	870.68
12/25/78	5	EB	870.81
12/26/78	7	EB	870.89
12/27/78	7.5	EB	870.93
12/28/78	7	EB	870.89
12/29/78	7	EB	870.89
12/30/78	6.5	EB	870.85
12/31/78	6	EB	870.81
01/01/79	-1.5	EB	870.18
01/02/79	-2	EB	870.14
01/03/79	-2.5	EB	870.10
01/04/79	-3	EB	870.06
01/05/79	-3.5	EB	870.02
01/06/79	-4	EB	869.97
01/07/79	-4	EB	869.97
01/08/79	-4.5	EB	869.93
01/09/79	-5	EB	869.88
01/10/79	-5	EB	869.88
01/11/79	-5.5	EB	869.85
01/12/79	-6	EB	869.81
01/13/79	-6	EB	869.81
01/14/79	-6.5	EB	869.77
01/15/79	-7	EB	869.72
01/16/79	-7	EB	869.72
01/17/79	-7.5	EB	869.68
01/18/79	-7.5	EB	869.68
01/19/79	-8	EB	869.64
01/20/79	-8.5	EB	869.60
01/21/79	-8.5	EB	869.60
01/22/79	-8.5	EB	869.77
01/23/79	-8	EB	869.81
01/24/79	-8	EB	869.81
01/25/79	-8.5	EB	869.85
01/26/79	-8	EB	869.89
01/27/79	-8	EB	869.89
01/28/79	-8	EB	869.89
01/29/79	-8	EB	869.89
01/30/79	-8	EB	869.89
01/31/79	-8	EB	869.89
02/01/79	12	EB	871.31
02/02/79	12	EB	871.31
02/03/79	12	EB	871.31
02/04/79	12	EB	871.31
02/05/79	15.5	EB	871.60
02/06/79	15	EB	871.56
02/07/79	15	EB	871.56
02/08/79	16.5	EB	871.69
02/09/79	16	EB	871.65
02/10/79	15	EB	871.56
02/11/79	16	EB	871.65
02/12/79	16	EB	871.65
02/13/79	15.5	EB	871.60
02/14/79	15	EB	871.56
02/15/79	15	EB	871.56
02/16/79	14.5	EB	871.52
02/17/79	14	EB	871.47
02/18/79	14	EB	871.47
02/19/79	14	EB	871.47
02/20/79	13.5	EB	871.43
02/21/79	13.5	EB	871.43
02/22/79	13	EB	871.39
02/23/79	12.5	EB	871.35
02/24/79	12	EB	871.31
02/25/79	12	EB	871.31
02/26/79	11.5	EB	871.27
02/27/79	11.5	EB	871.27
02/28/79	11	EB	871.23
03/01/79	11	EB	871.23
03/02/79	11	EB	871.23
03/03/79	11	EB	871.23
03/04/79	11	EB	871.23
03/05/79	10.5	EB	871.19
03/06/79	10	EB	871.14
03/07/79	10	EB	871.14
03/08/79	9.5	EB	871.10
03/09/79	9.5	EB	871.10

EB = East Bank
WB = West Bank
BB = Boathouse
NA = Not Available

Date	Quick Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
12/13/80	-1	EB	869.72
12/13/80	-1	EB	869.72
12/14/80	-7	EB	869.72
12/15/80	-7	EB	869.72
12/16/80	-7	EB	869.72
12/17/80	-1	EB	869.72
12/18/80	-1	EB	869.72
12/19/80	-1	EB	869.72
12/20/80	-7	EB	869.72
12/21/80	-7	EB	869.72
12/22/80	-1	EB	869.72
12/23/80	-1	EB	869.72
12/24/80	-7	EB	869.72
12/25/80	-7	EB	869.72
12/26/80	-7	EB	869.72
12/27/80	-1	EB	869.72
12/28/80	-7	EB	869.72
12/29/80	-7	EB	869.72
12/30/80	-7	EB	869.72
12/31/80	-7	EB	869.72
01/01/81	-7	EB	869.72
01/02/81	-7	EB	869.72
01/03/81	-7	EB	869.72
01/04/81	-7	EB	869.72
01/05/81	-7	EB	869.72
01/06/81	-1	EB	869.72
01/07/81	-6.5	EB	869.77
01/08/81	-6.5	EB	869.77
01/09/81	-6.5	EB	869.77
01/10/81	-6.5	EB	869.77
01/11/81	-6.5	EB	869.77
01/12/81	-6.5	EB	869.77
01/13/81	-7	EB	869.72
01/14/81	-7	EB	869.72
01/15/81	-7	EB	869.72
01/16/81	-7	EB	869.72
01/17/81	-7	EB	869.72
01/18/81	-7	EB	869.72
01/19/81	-7	EB	869.72
01/20/81	-7	EB	869.72
01/21/81	-7	EB	869.72
01/22/81	-7	EB	869.72
01/23/81	-7	EB	869.72
01/24/81	-7	EB	869.72
01/25/81	-7	EB	869.72
01/26/81	-7	EB	869.72
01/27/81	-7	EB	869.72
01/28/81	-7	EB	869.72
01/29/81	-7	EB	869.72
01/30/81	-7	EB	869.72
01/31/81	-7	EB	869.72
02/01/81	-7	EB	869.72
02/02/81	-7	EB	869.72
02/03/81	-7	EB	869.72
02/04/81	-7	EB	869.72
02/05/81	-7	EB	869.72
02/06/81	-7	EB	869.72
02/07/81	-7	EB	869.72
02/08/81	-7	EB	869.72
02/09/81	-7	EB	869.72
02/10/81	-7	EB	869.72
02/11/81	-6	EB	869.81
02/12/81	-6	EB	869.89
02/13/81	-5	EB	869.89
02/14/81	-4.5	EB	869.93
02/15/81	-4.5	EB	869.93
02/16/81	-4	EB	869.97
02/17/81	-4	EB	869.97
02/18/81	-3.5	EB	870.00
02/19/81	-3	EB	870.06
02/20/81	-2.5	EB	870.10
02/21/81	-2	EB	870.14
02/22/81	-3	EB	870.14
02/23/81	-1.5	EB	870.18
02/24/81	-1	EB	870.22
02/25/81	-1	EB	870.22
02/26/81	-1	EB	870.22
02/27/81	-1	EB	870.22
02/28/81	-1	EB	870.22
03/01/81	-1	EB	870.22
03/02/81	-1	EB	870.22
03/03/81	-1	EB	870.22
03/04/81	-1	EB	870.22
03/05/81	-1	EB	870.22
03/06/81	-1	EB	870.22
03/07/81	-1	EB	870.22
03/08/81	-1	EB	870.22
03/09/81	-1	EB	870.22
03/10/81	-1	EB	870.22
03/11/81	-1	EB	870.22
03/12/81	-1	EB	870.22
03/13/81	-1	EB	870.22
03/14/81	-1	EB	870.22
03/15/81	-1.5	EB	870.18
03/16/81	-1.5	EB	870.18
03/17/81	-1.5	EB	870.18
03/18/81	-1.5	EB	870.18
03/19/81	-1.5	EB	870.18
03/20/81	-1.5	EB	870.18
03/21/81	-2	EB	870.14
03/22/81	-2	EB	870.14
03/23/81	-2	EB	870.14
03/24/81	-2	EB	870.14
03/25/81	-2	EB	870.14
03/26/81	-2	EB	870.14
03/27/81	-2	EB	870.14
03/28/81	-2	EB	870.14
03/29/81	-2	EB	870.14
03/30/81	-2	EB	870.14
03/31/81	-2	EB	870.14
04/01/81	-2	EB	870.14
04/02/81	-2	EB	870.14
04/03/81	-2	EB	870.14
04/04/81	-2.5	EB	870.10
04/05/81	-2.5	EB	870.10
04/06/81	-2.5	EB	870.10
04/07/81	-2.5	EB	870.10
04/08/81	-3	EB	870.06
04/09/81	-3	EB	870.06
04/10/81	-3	EB	870.06
04/11/81	-3	EB	870.06
04/12/81	-1	EB	870.22
04/13/81	-1	EB	870.21
04/14/81	0.5	EB	870.35
04/15/81	0.5	EB	870.35
04/16/81	0.5	EB	870.35
04/17/81	0.1	EB	870.32
04/18/81	0.1	EB	870.32
04/19/81	1.5	EB	870.43
04/20/81	1.5	EB	870.43
04/21/81	1	EB	870.39
04/22/81	1	EB	870.39
04/23/81	1	EB	870.39
04/24/81	1	EB	870.39
04/25/81	1	EB	870.39
04/26/81	1	EB	870.39
04/27/81	1	EB	870.39
04/28/81	1	EB	870.39
04/29/81	1	EB	870.39
04/30/81	1	EB	870.39
05/01/81	0	EB	870.72
05/02/81	0	EB	870.72
05/03/81	0	EB	870.51
05/04/81	0	EB	870.51
05/05/81	0	EB	870.51
05/06/81	0	EB	870.51
05/07/81	0	EB	870.51
05/08/81	0	EB	870.51
05/09/81	0	EB	870.51
05/10/81	0	EB	870.51
05/11/81	0	EB	870.51
05/12/81	0	EB	870.51
05/13/81	0	EB	870.51
05/14/81	0	EB	870.51
05/15/81	0	EB	870.51
05/16/81	0	EB	870.51
05/17/81	0	EB	870.51
05/18/81	0	EB	870.51
05/19/81	0	EB	870.51
05/20/81	0	EB	870.51
05/21/81	0	EB	870.51
05/22/81	0	EB	870.51
05/23/81	0	EB	870.51
05/24/81	0	EB	870.51
05/25/81	0	EB	870.51
05/26/81	0	EB	870.51
05/27/81	0	EB	870.51
05/28/81	0	EB	870.51
05/29/81	0	EB	870.51
05/30/81	0	EB	870.51
05/31/81	0	EB	870.51
06/01/81	0	EB	870.51
06/02/81	0	EB	870.51
06/03/81	0	EB	870.51
06/04/81	0	EB	870.51
06/05/81	0	EB	870.51
06/06/81	0	EB	870.51
06/07/81	0	EB	870.51
06/08/81	0	EB	870.51
06/09/81	14.5	EB	871.02
06/10/81	15	EB	871.06
06/11/81	15	EB	871.06
06/12/81	15	EB	871.06
06/13/81	13.5	EB	871.00
06/14/81	20	EB	871.07
06/15/81	24	EB	872.21
06/16/81	23	EB	872.22
06/17/81	22.3	EB	872.18

EB = East Bank
WB = West Bank
SH = Boathouse
N/A = Not Available

Date	OOKR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
12/21/91	-5	EB	869.69
12/22/91	-4.5	EB	869.93
12/23/91	-4.5	EB	869.93
12/25/91	-5	EB	869.69
12/27/91	-5	EB	869.69
12/28/91	-5	EB	869.69
12/29/91	-5	EB	869.69
12/30/91	-5	EB	869.69
12/31/91	-5	EB	869.69
01/01/92	-4	EB	869.97
01/02/92	-4	EB	869.97
01/03/92	-3	EB	870.06
01/04/92	-2	EB	870.14
01/05/92	-1	EB	870.22
01/06/92	-1	EB	870.22
01/07/92	-1	EB	870.22
01/08/92	-1	EB	870.22
01/09/92	-2	EB	870.14
01/10/92	-2	EB	870.14
01/11/92	-3	EB	870.06
01/12/92	-3	EB	870.06
01/13/92	-3	EB	870.06
01/14/92	-3.5	EB	870.02
01/15/92	-3.5	EB	870.02
01/16/92	-3.5	EB	870.02
01/17/92	-4	EB	869.97
01/18/92	-4	EB	869.97
01/19/92	-4.5	EB	869.93
01/20/92	-4.5	EB	869.93
01/21/92	-5	EB	869.89
01/22/92	-4	EB	869.97
01/23/92	-4	EB	869.97
01/24/92	-3	EB	870.06
01/25/92	-3	EB	870.06
01/26/92	-3	EB	870.06
01/27/92	-3.5	EB	870.02
01/28/92	-3.5	EB	870.02
01/29/92	-3.5	EB	870.02
01/30/92	-3	EB	870.06
01/31/92	-1	EB	870.22
02/01/92	0	EB	870.31
02/02/92	0	EB	870.31
02/03/92	1	EB	870.39
02/04/92	1	EB	870.39
02/05/92	1	EB	870.39
02/06/92	1	EB	870.39
02/07/92	0.5	EB	870.35
02/08/92	0.5	EB	870.35
02/09/92	0	EB	870.31
02/10/92	-0.5	EB	870.27
02/11/92	-0.5	EB	870.30
02/12/92	-0.1	EB	870.30
02/13/92	-0.1	EB	870.30
02/14/92	-0.2	EB	870.29
02/15/92	-0.3	EB	870.28
02/16/92	-3	EB	870.06
02/17/92	-5	EB	869.89
02/18/92	1	EB	870.39
02/19/92	0	EB	870.31
02/20/92	4	EB	870.64
02/21/92	7.5	EB	870.95
02/22/92	7	EB	870.89
02/23/92	7	EB	870.89
02/24/92	6	EB	870.81
02/25/92	5	EB	870.72
02/26/92	5	EB	870.72
02/27/92	4.5	EB	870.68
02/28/92	4	EB	870.64
02/29/92	4.5	EB	870.68
03/01/92	5	EB	870.72
03/02/92	6	EB	870.81
03/03/92	7	EB	870.89
03/04/92	8	EB	870.97
03/05/92	8.5	EB	871.06
03/06/92	9	EB	871.14
03/07/92	9.5	EB	871.18
03/08/92	10	EB	871.14
03/09/92	11	EB	871.22
03/10/92	12.5	EB	871.35
03/11/92	13.5	EB	871.43
03/12/92	14	EB	871.47
03/13/92	15.5	EB	871.60
03/14/92	15.5	EB	871.60
03/15/92	16.5	EB	871.68
03/16/92	16.5	EB	871.68
03/17/92	16.5	EB	871.68
03/18/92	16.5	EB	871.68
03/19/92	16.5	EB	871.68
03/20/92	18	EB	871.81
03/21/92	18	EB	871.85
03/22/92	19	EB	871.89
03/23/92	18.5	EB	871.85
03/24/92	18.5	EB	871.85
03/25/92	18	EB	871.81
03/26/92	18	EB	871.81
03/27/92	17.5	EB	871.77
03/28/92	17	EB	871.72
03/29/92	17	EB	871.72
03/30/92	17	EB	871.72
03/31/92	17.5	EB	871.77
04/01/92	18	EB	871.81
04/02/92	17.5	EB	871.77
04/03/92	17	EB	871.72
04/04/92	17	EB	871.72
04/05/92	17	EB	871.72
04/06/92	17	EB	871.72
04/07/92	16.5	EB	871.68
04/08/92	16	EB	871.64
04/09/92	16	EB	871.64
04/10/92	16	EB	871.64
04/11/92	16	EB	871.64
04/12/92	15	EB	871.64
04/13/92	15	EB	871.64
04/14/92	15	EB	871.64
04/15/92	15.5	EB	871.60
04/16/92	15.5	EB	871.60
04/17/92	15	EB	871.56
04/18/92	15	EB	871.56
04/19/92	15	EB	871.56
04/20/92	14	EB	871.47
04/21/92	14	EB	871.47
04/22/92	13	EB	871.39
04/23/92	12	EB	871.31
04/24/92	12	EB	871.31
04/25/92	11.5	EB	871.27
04/26/92	11.5	EB	871.27
04/27/92	10	EB	871.14
04/28/92	9.5	EB	871.06
04/29/92	8	EB	870.97
04/30/92	8	EB	870.97
05/01/92	8	EB	870.97
05/02/92	7.5	EB	870.93
05/03/92	7	EB	870.89
05/04/92	6	EB	870.81
05/05/92	7	EB	870.89
05/06/92	7	EB	870.89
05/07/92	6.5	EB	870.85
05/08/92	7	EB	870.89
05/09/92	8	EB	870.97
05/10/92	8	EB	870.97
05/11/92	8	EB	870.97
05/12/92	8	EB	870.97
05/13/92	7.5	EB	870.93
05/14/92	7	EB	870.89
05/15/92	7	EB	870.89
05/16/92	7	EB	870.89
05/17/92	7	EB	870.89
05/18/92	7	EB	870.89
05/19/92	6	EB	870.81
05/20/92	5.5	EB	870.77
05/21/92	5	EB	870.72
05/22/92	4.5	EB	870.68
05/23/92	4.5	EB	870.68
05/24/92	4.5	EB	870.68
05/25/92	5	EB	870.72
05/26/92	5.5	EB	870.77
05/27/92	5.5	EB	870.77
05/28/92	6	EB	870.81
05/29/92	8	EB	870.97
05/30/92	8	EB	870.97
05/31/92	8.5	EB	871.02
06/01/92	9.5	EB	871.06
06/02/92	9	EB	871.06
06/03/92	8.5	EB	871.02
06/04/92	8	EB	870.97
06/05/92	8	EB	870.97
06/06/92	7.5	EB	870.93
06/07/92	8	EB	870.97
06/08/92	7.5	EB	870.93
06/09/92	7.5	EB	870.93
06/10/92	7.5	EB	870.93
06/11/92	8	EB	870.97
06/12/92	8	EB	870.97
06/13/92	7.5	EB	870.93
06/14/92	7	EB	870.89
06/15/92	7	EB	870.89
06/16/92	6.5	EB	870.85
06/17/92	7	EB	870.89
06/18/92	7	EB	870.89
06/19/92	6.5	EB	870.85
06/20/92	6.5	EB	870.85
06/21/92	6	EB	870.81
06/22/92	5	EB	870.72
06/23/92	5	EB	870.72
06/24/92	5	EB	870.72
06/25/92	4.5	EB	870.68
06/26/92	4	EB	870.64
06/27/92	4	EB	870.64
06/28/92	4	EB	870.64
06/29/92	3.5	EB	870.60
06/30/92	3.5	EB	870.60
07/01/92	3.5	EB	870.60
07/02/92	3	EB	870.56

EB = East Bank
WB = West Bank
BH = Beachhouse
NA = Not Available

Date	Gage Measurement (inches)	Measurement Location	Lake Elevation (Feet msl)
01/07/83	-3.5	EB	870.02
01/08/83	-4	EB	869.97
01/09/83	-4	EB	869.97
01/10/83	-4.5	EB	869.93
01/11/83	-4.5	EA	869.93
01/12/83	-4.5	EB	869.93
01/13/83	-4.5	EB	869.93
01/14/83	-4.5	EA	869.93
01/15/83	-4	EB	869.89
01/16/83	-4	EB	869.89
01/17/83	-4	EB	869.89
01/18/83	-4	EB	869.89
01/19/83	-3.5	EB	869.86
01/20/83	-3.5	EB	869.85
01/21/83	-3.5	EB	869.85
01/22/83	-3.5	EB	869.85
01/23/83	-3.5	EB	869.85
01/24/83	-3.5	EB	869.85
01/25/83	-4	EB	869.81
01/26/83	-4	EB	869.81
01/27/83	-4	EB	869.81
01/28/83	-4.5	EB	869.77
01/29/83	-4.5	EB	869.77
01/30/83	-4.5	EB	869.77
01/31/83	-4.5	EB	869.77
02/01/83	-4.5	EB	869.77
02/02/83	-4.5	EB	869.77
02/03/83	-5	EB	869.72
02/04/83	-5	EB	869.72
02/05/83	-5	EB	869.72
02/06/83	-5.5	EB	869.68
02/07/83	-6	EB	869.64
02/08/83	-6	EB	869.64
02/09/83	-6	EB	869.64
02/10/83	-6	EB	869.64
02/11/83	-6	EB	869.64
02/12/83	-6.5	EB	869.60
02/13/83	-7	EB	869.72
02/14/83	-7	EB	869.72
02/15/83	-7	EB	869.72
02/16/83	-7.5	EB	869.68
02/17/83	-7.5	EB	869.68
02/18/83	-7.5	EB	869.68
02/19/83	-7.5	EB	869.68
02/20/83	-8	EB	869.64
02/21/83	-8	EB	869.64
02/22/83	-8.5	EB	869.60
02/23/83	-8.5	EB	869.60
02/24/83	-8.5	EB	869.60
02/25/83	-8.5	EB	869.60
02/26/83	-8.5	EB	869.60
02/27/83	-8.5	EB	869.60
02/28/83	-8.5	EB	869.60
03/01/83	-8.5	EB	869.60
03/02/83	-8.5	EB	869.60
03/03/83	-8.5	EB	869.60
03/04/83	-8.5	EB	869.60
03/05/83	-8	EB	869.64
03/06/83	-8	EB	869.64
03/07/83	-8	EB	869.64
03/08/83	-8	EB	869.64
03/09/83	-8	EB	869.64
03/10/83	-8	EB	869.64
03/11/83	-8	EB	869.64
03/12/83	-8	EB	869.64
03/13/83	-8	EB	869.64
03/14/83	-8	EB	869.64
03/15/83	-8	EB	869.64
03/16/83	-8	EB	869.64
03/17/83	-8	EB	869.64
03/18/83	-8	EB	869.64
03/19/83	-8	EB	869.64
03/20/83	-8	EB	869.64
03/21/83	-8	EB	869.64
03/22/83	-8	EB	869.64
03/23/83	-7.5	EB	869.68
03/24/83	-7.5	EB	869.68
03/25/83	-7.5	EB	869.68
03/26/83	-7.5	EB	869.68
03/27/83	-7.5	EB	869.68
03/28/83	-7.5	EB	869.68
03/29/83	-7.5	EB	869.68
03/30/83	-7.5	EB	869.68
03/31/83	-7	EB	869.72
04/01/83	-7	EB	869.72
04/02/83	-6	EB	869.81
04/03/83	-6	EB	869.81
04/04/83	-5	EB	869.81
04/05/83	-5	EB	869.89
04/06/83	-4.5	EB	869.93
04/07/83	-3	EB	870.05
04/08/83	-2	EB	870.14
04/09/83	-1	EB	870.22
04/10/83	-1	EB	870.22
04/11/83	0	EB	870.31
04/12/83	0	EB	870.31
04/13/83	1	EB	870.39
04/14/83	2	EB	870.47
04/15/83	2	EB	870.56
04/16/83	3.5	EB	870.68
04/17/83	4	EB	870.64
04/18/83	4	EB	870.64
04/19/83	4	EB	870.64
04/20/83	4	EB	870.64
04/21/83	4	EB	870.64
04/22/83	4	EB	870.64
04/23/83	4	EB	870.64
04/24/83	4	EB	870.64
04/25/83	3.5	EB	870.60
04/26/83	3.5	EB	870.60
04/27/83	3.5	EB	870.60
04/28/83	3.5	EB	870.60
04/29/83	4	EB	870.64
04/30/83	5	EB	870.72
05/01/83	6	EB	870.81
05/02/83	12	EB	871.31
05/03/83	13	EB	871.39
05/04/83	13	EB	871.39
05/05/83	13.5	EB	871.43
05/06/83	13.5	EB	871.43
05/07/83	13.5	EB	871.43
05/08/83	13.5	EB	871.43
05/09/83	13.5	EB	871.43
05/10/83	12	EB	871.31
05/11/83	11	EB	871.22
05/12/83	11	EB	871.22
05/13/83	11	EB	871.22
05/14/83	10.5	EB	871.18
05/15/83	10.5	EB	871.18
05/16/83	10.5	EB	871.18
05/17/83	10	EB	871.14
05/18/83	10	EB	871.14
05/19/83	10	EB	871.14
05/20/83	10	EB	871.14
05/21/83	10	EB	871.14
05/22/83	10	EB	871.14
05/23/83	10	EB	871.14
05/24/83	10	EB	871.14
05/25/83	10	EB	871.14
05/26/83	9.5	EB	871.10
05/27/83	9.5	EB	871.10
05/28/83	9	EB	871.06
05/29/83	9	EB	871.06
05/30/83	9	EB	871.06
05/31/83	8.5	EB	871.02
06/01/83	8.5	EB	871.02
06/02/83	8	EB	870.97
06/03/83	8	EB	870.97
06/04/83	7.5	EB	870.93
06/05/83	7.5	EB	870.93
06/06/83	7.5	EB	870.93
06/07/83	7.5	EB	870.93
06/08/83	7.5	EB	870.93
06/09/83	7	EB	870.89
06/10/83	7	EB	870.89
06/11/83	6.5	EB	870.85
06/12/83	6.5	EB	870.85
06/13/83	6.5	EB	870.85
06/14/83	6	EB	870.81
06/15/83	6	EB	870.81
06/16/83	6	EB	870.81
06/17/83	6	EB	870.81
06/18/83	6	EB	870.81
06/19/83	5	EB	870.81
06/20/83	6	EB	870.81
06/21/83	6	EB	870.81
06/22/83	5.5	EB	870.77
06/23/83	5.5	EB	870.77
06/24/83	5	EB	870.72
06/25/83	5	EB	870.72
06/26/83	4.5	EB	870.68
06/27/83	4.5	EB	870.68
06/28/83	4.5	EB	870.68
06/29/83	4.5	EB	870.68
06/30/83	4	EB	870.64
07/01/83	4	EB	870.64
07/02/83	4	EB	870.64
07/03/83	4	EB	870.64
07/04/83	4	EB	870.64
07/05/83	4.5	EB	870.68
07/06/83	4.5	EB	870.68
07/07/83	4	EB	870.64
07/08/83	4	EB	870.64
07/09/83	4	EB	870.64
07/10/83	3.5	EB	870.60
07/11/83	3.5	EB	870.60
07/12/83	3.5	EB	870.60
07/13/83	3	EB	870.56
07/14/83	3	EB	870.56
07/15/83	2.5	EB	870.52
07/16/83	2.5	EB	870.52

EB = East Basin
WB = West Basin
BH = Boathouse
NA = Not Available

Date	OOHR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
01/21/84	-9	EB	869.58
01/22/84	-9.5	EB	869.53
01/23/84	-10	EB	869.47
01/24/84	-10	EB	869.47
01/25/84	-10	EB	869.47
01/26/84	-9.5	EB	869.53
01/27/84	9.5	EB	869.53
01/28/84	-9	EB	869.58
01/29/84	-9	EB	869.58
01/30/84	-9	EB	869.58
01/31/84	-9	EB	869.58
02/01/84	-9	EB	869.58
02/02/84	-9	EB	869.58
02/03/84	-9	EB	869.58
02/04/84	-7.5	EB	869.68
02/05/84	-7	EB	869.72
02/06/84	-7	EB	869.72
02/07/84	-7	EB	869.72
02/08/84	-7	EB	869.72
02/09/84	-7	EB	869.72
02/10/84	-7	EB	869.72
02/11/84	-6	EB	869.81
02/12/84	-6	EB	869.81
02/13/84	-6.5	EB	869.93
02/14/84	-5.5	EB	870.02
02/15/84	-5.5	EB	870.02
02/16/84	-4	EB	870.08
02/17/84	-4	EB	870.08
02/18/84	-2.5	EB	870.19
02/19/84	-2.5	EB	870.19
02/20/84	-2	EB	870.14
02/21/84	-2	EB	870.14
02/22/84	-2	EB	870.14
02/23/84	-2	EB	870.14
02/24/84	-2	EB	870.14
02/25/84	-2	EB	870.14
02/26/84	-2	EB	870.14
02/27/84	-2	EB	870.14
02/28/84	-2	EB	870.14
02/29/84	0	EB	870.31
03/01/84	0	EB	870.31
03/02/84	0	EB	870.31
03/03/84	0	EB	870.31
03/04/84	0	EB	870.31
03/05/84	0	EB	870.31
03/06/84	-1	EB	870.22
03/07/84	-1	EB	870.22
03/08/84	-1	EB	870.22
03/09/84	-1	EB	870.22
03/10/84	-1	EB	870.22
03/11/84	-1	EB	870.22
03/12/84	-1.5	EB	870.18
03/13/84	-1.5	EB	870.18
03/14/84	-1.5	EB	870.18
03/15/84	1	EB	870.38
03/16/84	1	EB	870.38
03/17/84	2	EB	870.47
03/18/84	2	EB	870.47
03/19/84	3	EB	870.56
03/20/84	4	EB	870.64
03/21/84	6.5	EB	870.85
03/22/84	7	EB	870.89
03/23/84	8	EB	870.97
03/24/84	8	EB	870.97
03/25/84	9	EB	871.06
03/26/84	9.5	EB	871.10
03/27/84	10	EB	871.14
03/28/84	10	EB	871.14
03/29/84	10	EB	871.14
03/30/84	9.5	EB	871.10
03/31/84	9.5	EB	871.10
04/01/84	10	EB	871.14
04/02/84	10	EB	871.14
04/03/84	10	EB	871.14
04/04/84	11	EB	871.22
04/05/84	12.5	EB	871.43
04/06/84	12.5	EB	871.43
04/07/84	12	EB	871.35
04/08/84	12	EB	871.31
04/09/84	12	EB	871.31
04/10/84	11.5	EB	871.27
04/11/84	11.5	EB	871.27
04/12/84	11	EB	871.22
04/13/84	11	EB	871.22
04/14/84	10.5	EB	871.18
04/15/84	10.5	EB	871.18
04/16/84	10	EB	871.14
04/17/84	10	EB	871.14
04/18/84	9.5	EB	871.10
04/19/84	9	EB	871.06
04/20/84	9	EB	871.06
04/21/84	9	EB	871.06
04/22/84	10	EB	871.14
04/23/84	11	EB	871.22
04/24/84	12	EB	871.31
04/25/84	12	EB	871.31
04/26/84	12	EB	871.31
04/27/84	11	EB	871.22
04/28/84	11	EB	871.22
04/29/84	11	EB	871.22
04/30/84	11	EB	871.22
05/01/84	1	EB	870.39
05/02/84	10.5	EB	871.18
05/03/84	10.5	EB	871.18
05/04/84	10	EB	871.14
05/05/84	10	EB	871.14
05/06/84	10	EB	871.14
05/07/84	9.5	EB	871.10
05/08/84	9.5	EB	871.10
05/09/84	9	EB	871.06
05/10/84	8	EB	870.97
05/11/84	8	EB	870.97
05/12/84	8	EB	870.97
05/13/84	7.5	EB	870.93
05/14/84	7.5	EB	870.93
05/15/84	7	EB	870.89
05/16/84	7	EB	870.89
05/17/84	6.5	EB	870.85
05/18/84	6.5	EB	870.85
05/19/84	6	EB	870.81
05/20/84	6	EB	870.81
05/21/84	5.5	EB	870.77
05/22/84	5	EB	870.72
05/23/84	5	EB	870.72
05/24/84	5	EB	870.81
05/25/84	6	EB	870.81
05/26/84	6	EB	870.81
05/27/84	5.5	EB	870.77
05/28/84	5	EB	870.72
05/29/84	5	EB	870.72
05/30/84	5	EB	870.72
05/31/84	4.5	EB	870.68
06/01/84	4	EB	870.64
06/02/84	4	EB	870.64
06/03/84	4	EB	870.64
06/04/84	4	EB	870.64
06/05/84	3.5	EB	870.60
06/06/84	3.5	EB	870.60
06/07/84	3	EB	870.56
06/08/84	3	EB	870.56
06/09/84	3	EB	870.56
06/10/84	3	EB	870.56
06/11/84	2	EB	870.47
06/12/84	2	EB	870.47
06/13/84	1.5	EB	870.43
06/14/84	1.5	EB	870.43
06/15/84	1.5	EB	870.43
06/16/84	1	EB	870.47
06/17/84	2	EB	870.47
06/18/84	2	EB	870.47
06/19/84	2	EB	870.47
06/20/84	2	EB	870.47
06/21/84	1.5	EB	870.43
06/22/84	1.5	EB	870.43
06/23/84	1.5	EB	870.43
06/24/84	1.5	EB	870.43
06/25/84	1.5	EB	870.43
06/26/84	1.5	EB	870.43
06/27/84	1.5	EB	870.43
06/28/84	1.5	EB	870.43
06/29/84	1.5	EB	870.43
06/30/84	4	EB	870.64
07/01/84	3.5	EB	870.60
07/02/84	3	EB	870.56
07/03/84	2.5	EB	870.52
07/04/84	2	EB	870.47
07/05/84	2	EB	870.47
07/06/84	1.5	EB	870.43
07/07/84	1	EB	870.39
07/08/84	1	EB	870.39
07/09/84	0.5	EB	870.35
07/10/84	0.5	EB	870.35
07/11/84	0.5	EB	870.35
07/12/84	1	EB	870.39
07/13/84	0	EB	870.31
07/14/84	0	EB	870.31
07/15/84	0	EB	870.31

EB = East Bank
WB = West Bank
BH = Blow-Hole
NA = Not Available

Date	CCHR Measurement (feet/cm)	Measurement Location	Lake Elevation (feet msl)
03/15/85	9	EB	871.06
03/19/85	8.5	EB	871.02
03/21/85	8.5	EB	871.02
03/25/85	8	EB	870.97
03/27/85	8	EB	870.97
03/31/85	7.5	EB	870.93
04/05/85	7.5	EB	870.93
04/09/85	7	EB	870.89
04/27/85	6.5	EB	870.85
04/29/85	6	EB	870.81
04/29/85	6	EB	870.81
05/30/85	6	EB	870.81
05/31/85	6	EB	870.81
04/01/85	8	SB	871.06
04/02/85	8	EB	871.06
04/03/85	9.5	EB	871.10
04/04/85	9.5	EB	871.10
04/05/85	9.5	EB	871.10
04/06/85	10	EB	871.14
04/08/85	9.5	EB	871.10
04/09/85	9.5	EB	871.10
04/10/85	8	EB	871.06
04/11/85	8.5	EB	871.02
04/12/85	8.5	EB	871.02
04/13/85	8	EB	870.97
04/14/85	8	EB	870.97
04/15/85	7.5	EB	870.93
04/16/85	7.5	EB	870.93
04/17/85	7	EB	870.89
04/18/85	7	EB	870.89
04/19/85	6.5	EB	870.85
04/20/85	6	EB	870.81
04/21/85	5.5	EB	870.77
04/22/85	5	EB	870.72
04/23/85	5	EB	870.72
04/24/85	4.5	EB	870.68
04/25/85	4.5	EB	870.68
04/26/85	4.5	EB	870.68
04/27/85	4	EB	870.64
04/28/85	4	EB	870.64
04/29/85	3.5	EB	870.60
04/30/85	3.5	EB	870.60
05/01/85	3	EB	870.56
05/02/85	4	EB	870.64
05/03/85	4	EB	870.64
05/04/85	4	EB	870.64
05/05/85	3.5	EB	870.60
05/06/85	3.5	EB	870.60
05/07/85	3	EB	870.56
05/08/85	3	EA	870.65
05/09/85	2.5	EA	870.62
05/10/85	2.5	EB	870.52
05/11/85	2.5	EB	870.52
05/12/85	3	EB	870.47
05/13/85	3	EB	870.47
05/14/85	2	EB	870.41
05/15/85	2	EB	870.41
05/16/85	2	EB	870.41
05/17/85	2.5	EB	870.52
05/18/85	2.5	EB	870.52
05/19/85	2.5	EB	870.52
05/20/85	2.5	EB	870.52
05/21/85	2	EB	870.47
05/22/85	1.5	EB	870.43
05/23/85	1	EB	870.39
05/24/85	1	EB	870.39
05/25/85	1	EB	870.36
05/26/85	0.5	EB	870.35
05/27/85	0	EB	870.31
05/28/85	0	EB	870.31
05/29/85	1	EB	870.39
05/30/85	1	EB	870.39
05/31/85	1	EB	870.39
06/01/85	0.5	EB	870.35
06/02/85	0.5	EB	870.36
06/03/85	0	EB	870.31
06/04/85	0	EB	870.31
06/05/85	0	EB	870.31
06/06/85	0	EB	870.31
06/07/85	-0.5	EB	870.27
06/08/85	-0.5	EB	870.27
06/09/85	-0.5	EB	870.27
06/10/85	-0.5	EB	870.27
06/11/85	-0.5	EB	870.27
06/12/85	1	EB	870.47
06/13/85	2	EB	870.47
06/14/85	2	EB	870.47
06/15/85	2	EB	870.47
06/16/85	2	EB	870.47
06/17/85	2	EB	870.47
06/18/85	2	EB	870.47
06/19/85	2	EB	870.47
06/20/85	2	EB	870.47
06/21/85	2	EB	870.47
06/22/85	1.5	EB	870.43
06/23/85	1	EB	870.39
06/24/85	1	EB	870.39
06/25/85	0.5	EB	870.36
06/26/85	0.5	EB	870.36
06/27/85	0	EB	870.31
06/28/85	0	EB	870.31
06/29/85	0	EB	870.31
06/30/85	0	EB	870.31
07/01/85	-1	EB	870.22
07/02/85	-1	EB	870.22
07/03/85	-1	EB	870.22
07/04/85	-1	EB	870.22
07/05/85	-1	EB	870.22
07/06/85	-1	EB	870.22
07/07/85	-1.5	EB	870.18
07/08/85	-1.5	EB	870.18
07/09/85	-1.5	EB	870.18
07/10/85	-1.5	EB	870.18
07/11/85	-2	EB	870.14
07/12/85	-2	EB	870.14
07/13/85	-2	EB	870.14
07/14/85	-2.5	EB	870.10
07/15/85	-2.5	EB	870.10
07/16/85	-2.5	EB	870.10
07/17/85	-2.5	EB	870.10
07/18/85	-2.5	EB	870.10
07/19/85	-3	EB	869.81
07/20/85	-3	EB	870.06
07/21/85	-3.5	EB	870.03
07/22/85	-3.5	EB	870.02
07/23/85	-4	EB	869.97
07/24/85	-4	EB	869.97
07/25/85	-4	EB	869.97
07/26/85	-4.5	EB	869.93
07/27/85	-5	EB	869.89
07/28/85	-5	EB	869.89
07/29/85	-5.5	EB	869.85
07/30/85	-5.5	EB	869.85
07/31/85	-5.5	EB	869.85
08/01/85	-6	EB	869.81
08/02/85	-6	EB	869.77
08/03/85	-7	EB	869.72
08/04/85	-7	EB	869.72
08/05/85	-7.5	EB	869.69
08/06/85	-7.5	EB	869.68
08/07/85	-7.5	EB	869.68
08/08/85	-7	EB	869.72
08/09/85	-7	EB	869.72
08/10/85	-7	EB	869.72
08/11/85	-7.5	EB	869.68
08/12/85	-7.5	EB	869.68
08/13/85	-7.5	EB	869.68
08/14/85	-7.5	EB	869.68
08/15/85	-8	EB	869.64
08/16/85	-8	EB	869.64
08/17/85	-8	EB	869.64
08/18/85	-8	EB	869.64
08/19/85	-8.5	EB	869.60
08/20/85	-8.5	EB	869.60
08/21/85	-9	EB	869.56
08/22/85	-9	EB	869.56
08/23/85	-9	EB	869.56
08/24/85	-9	EB	869.56
08/25/85	-9	EB	869.56
08/26/85	-9	EB	869.64
08/27/85	-9	EB	869.64
08/28/85	-9	EB	869.64
08/29/85	-9	EB	869.64
08/30/85	-9	EB	869.64
08/31/85	-9.5	EB	869.60
09/01/85	-9.5	EB	869.60
09/02/85	-9.5	EB	869.60
09/03/85	-9	EB	869.56
09/04/85	-9	EB	869.56
09/05/85	-9.5	EB	869.52
09/06/85	-9.5	EB	869.52
09/07/85	-9.5	EB	869.52
09/08/85	-9.5	EB	869.52
09/09/85	-9.5	EB	869.52
09/10/85	-9.5	EB	869.52
09/11/85	-9.5	EB	869.52
09/12/85	-9.5	EB	869.52
09/13/85	-10	EB	869.47
09/14/85	-10	EB	869.47
09/15/85	-10	EB	869.47
09/16/85	-10	EB	869.47
09/17/85	-10	EB	869.47
09/18/85	-10.5	EB	869.43
09/19/85	-11	EB	869.39
09/20/85	-11	EB	869.39
09/21/85	-11.5	EB	869.35
09/22/85	-11.5	EB	869.35

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	DOWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
03/30/95	10.5	EB	871.18
04/13/95	10	EB	871.14
04/19/95	10	EB	871.14
04/03/95	10	EB	871.14
04/03/95	10	EB	871.14
04/04/95	9.5	EB	871.18
04/05/95	9.5	EB	871.18
04/06/95	10	EB	871.14
04/07/95	10	EB	871.14
04/08/95	10	EB	871.14
04/09/95	9	EB	871.06
04/10/95	9	EB	871.06
04/11/95	9	EB	871.06
04/12/95	8	EB	870.97
04/14/95	8	EB	870.97
04/15/95	8	EB	870.97
04/16/95	8	EB	870.97
04/17/95	8	EB	870.97
04/18/95	7.5	EB	870.93
04/20/95	8	EB	870.97
04/21/95	12	EB	871.31
04/22/95	12.5	EB	871.35
04/23/95	12.5	EB	871.35
04/24/95	12	EB	871.31
04/25/95	12	EB	871.31
04/26/95	12	EB	871.31
04/27/95	12	EB	871.31
04/28/95	13	EB	871.39
04/29/95	11.5	EB	871.27
04/30/95	11.5	EB	871.27
05/01/95	11.5	EB	871.27
05/02/95	12	EB	871.31
05/03/95	12	EB	871.39
05/04/95	11.5	EB	871.27
05/05/95	11.5	EB	871.27
05/06/95	11.5	EB	871.27
05/07/95	11.5	EB	871.27
05/08/95	11	EB	871.22
05/09/95	10.5	EB	871.18
05/10/95	10	EB	871.14
05/11/95	9.5	EB	871.10
05/12/95	9.5	EB	871.10
05/13/95	9.5	EB	871.10
05/14/95	9.5	EB	871.10
05/15/95	9.5	EB	871.10
05/16/95	9.5	EB	871.10
05/17/95	9.5	EB	871.10
05/18/95	9.5	EB	871.10
05/19/95	9	EB	871.06
05/20/95	9	EB	871.06
05/21/95	8.5	EB	871.02
05/22/95	8	EB	870.97
05/23/95	8	EB	870.97
05/24/95	8	EB	870.97
05/25/95	7.5	EB	870.93
05/26/95	7.5	EB	870.93
05/27/95	8	EB	870.97
05/28/95	9	EB	871.06
05/29/95	9	EB	871.06
05/30/95	9	EB	871.06
05/31/95	8.5	EB	871.02
06/01/95	8.5	EB	871.02
06/02/95	8	EB	870.97
06/03/95	8	EB	870.97
06/04/95	8	EB	870.97
06/05/95	8	EB	870.97
06/06/95	8	EB	870.97
06/07/95	8	EB	870.97
06/08/95	8	EB	870.97
06/09/95	8	EB	870.97
06/10/95	8	EB	870.97
06/11/95	8	EB	870.97
06/12/95	8	EB	870.97
06/13/95	8	EB	870.97
06/14/95	8	EB	870.97
06/15/95	8	EB	870.97
06/16/95	8	EB	870.97
06/17/95	8	EB	870.97
06/18/95	8	EB	870.97
06/19/95	8	EB	870.97
06/20/95	8	EB	870.97
06/21/95	8	EB	870.97
06/22/95	8	EB	870.97
06/23/95	8	EB	870.97
06/24/95	8	EB	870.97
06/25/95	8	EB	870.97
06/26/95	8	EB	870.97
06/27/95	8	EB	870.97
06/28/95	8	EB	870.97
06/29/95	8	EB	870.97
06/30/95	8	EB	870.97
07/01/95	8	EB	870.97
07/02/95	8	EB	870.97
07/03/95	8	EB	870.97
07/04/95	8	EB	870.97
07/05/95	8	EB	870.97
07/06/95	8	EB	870.97
07/07/95	8	EB	870.97
07/08/95	8	EB	870.97
07/09/95	8	EB	870.97
07/10/95	8	EB	870.97
07/11/95	8	EB	870.97
07/12/95	8	EB	870.97
07/13/95	8	EB	870.97
07/14/95	8	EB	870.97
07/15/95	8	EB	870.97
07/16/95	8	EB	870.97
07/17/95	8	EB	870.97
07/18/95	8	EB	870.97
07/19/95	8	EB	870.97
07/20/95	8	EB	870.97
07/21/95	8	EB	870.97
07/22/95	8	EB	870.97
07/23/95	8	EB	870.97
07/24/95	8	EB	870.97
07/25/95	8	EB	870.97
07/26/95	8	EB	870.97
07/27/95	8	EB	870.97
07/28/95	8	EB	870.97
07/29/95	8	EB	870.97
07/30/95	8	EB	870.97
07/31/95	8	EB	870.97
08/01/95	7.5	EB	870.93
08/02/95	7.5	EB	870.93
08/03/95	7	EB	870.89
08/04/95	7	EB	870.89
08/05/95	7	EB	870.89
08/06/95	7	EB	870.89
08/07/95	7	EB	870.89
08/08/95	7	EB	870.89
08/09/95	7	EB	870.89
08/10/95	7	EB	870.89
08/11/95	7	EB	870.89
08/12/95	6.5	EB	870.85
08/13/95	6.5	EB	870.85
08/14/95	6.5	EB	870.85
08/15/95	6.5	EB	870.85
08/16/95	6.5	EB	870.85
08/17/95	6	EB	870.81
08/18/95	6	EB	870.81
08/19/95	6	EB	870.81
08/20/95	6	EB	870.81
08/21/95	6	EB	870.81
08/22/95	6	EB	870.81
08/23/95	6	EB	870.81
08/24/95	6.5	EB	870.85
08/25/95	7	EB	870.89
08/26/95	7.5	EB	870.93
08/27/95	8	EB	870.97
08/28/95	8	EB	870.97
08/29/95	8	EB	870.97
08/30/95	8	EB	870.97
08/31/95	8	EB	870.97
09/01/95	10	EB	871.14

EB = East Bank
WB = West Bank
BH = Bell Harbor
NA = Not Available

Date	ODNR Measurement (feet/inch)	Measurement Location	Lake Elevation (feet, msl)
04/10/87	+1.5	EB	570.18
04/11/87	-1	EB	570.22
04/12/87	-1	EB	570.22
04/13/87	-1	EB	570.22
04/14/87	-1	EB	570.22
04/15/87	-1	EB	570.22
04/16/87	0	EB	570.31
04/17/87	0	EB	570.34
04/18/87	0.5	EB	570.35
04/19/87	0.5	EB	570.36
04/20/87	1	EB	570.38
04/21/87	1	EB	570.38
04/22/87	1	EB	570.38
04/23/87	1	EB	570.38
04/24/87	1	EB	570.38
04/25/87	1	EB	570.38
04/26/87	0.5	EB	570.36
04/27/87	0.5	EB	570.36
04/28/87	0.5	EB	570.35
04/29/87	0	EB	570.31
04/30/87	0	EB	570.31
05/01/87	0	EB	570.31
05/02/87	0	EB	570.34
05/03/87	-0.5	EB	570.27
05/04/87	-0.5	EB	570.27
05/05/87	-1	EB	570.22
05/06/87	-1	EB	570.22
05/07/87	+1.5	EB	570.18
05/08/87	+1.5	EB	570.18
05/09/87	-2	EB	570.14
05/10/87	-2	EB	570.14
05/11/87	-2.5	EB	570.10
05/12/87	-3	EB	570.06
05/13/87	-3	EB	570.06
05/14/87	-3	EB	570.06
05/15/87	-3	EB	570.06
05/16/87	-3.5	EB	570.02
05/17/87	-3.5	EB	570.02
05/18/87	-3.5	EB	570.02
05/19/87	-3	EB	570.06
05/20/87	-3	EB	570.06
05/21/87	-3	EB	570.06
05/22/87	-3	EB	570.06
05/23/87	-3	EB	570.06
05/24/87	-3	EB	570.06
05/25/87	-3	EB	570.06
05/26/87	-2.5	EB	570.10
05/27/87	-2.5	EB	570.10
05/28/87	-2	EB	570.14
05/29/87	-2	EB	570.14
05/30/87	-2	EB	570.14
05/31/87	-1.5	EB	570.18
06/01/87	+1.5	EB	570.18
06/02/87	-1	EB	570.22
06/03/87	0	EB	570.31
06/04/87	0	EB	570.31
06/05/87	0.5	EB	570.35
06/06/87	0.5	EB	570.35
06/07/87	0.5	EB	570.35
06/08/87	0	EB	570.31
06/09/87	0	EB	570.31
06/10/87	0	EB	570.31
06/11/87	0	EB	570.31
06/12/87	0	EB	570.31
06/13/87	0	EB	570.31
06/14/87	0	EB	570.31
06/15/87	0	EB	570.31
06/16/87	0	EB	570.31
06/17/87	-0.5	EB	570.27
06/18/87	-0.5	EB	570.27
06/19/87	-1	EB	570.22
06/20/87	-1	EB	570.22
06/21/87	-1	EB	570.22
06/22/87	-0.5	EB	570.27
06/23/87	-0.5	EB	570.27
06/24/87	-0.5	EB	570.27
06/25/87	-0.5	EB	570.27
06/26/87	-0.5	EB	570.27
06/27/87	-1	EB	570.22
06/28/87	-1	EB	570.22
06/29/87	-1	EB	570.22
06/30/87	-1	EB	570.22
07/01/87	0	EB	570.31
07/02/87	1.5	EB	570.50
07/03/87	4	EB	570.94
07/04/87	4.5	EB	570.98
07/05/87	4	EB	570.72
07/06/87	4	EB	570.72
07/07/87	4	EB	570.72
07/08/87	4	EB	570.72
07/09/87	4	EB	570.72
07/10/87	4	EB	570.72
07/11/87	4.5	EB	570.77
07/12/87	5	EB	570.81
07/13/87	3.5	EB	570.72
07/14/87	3.5	EB	570.62
07/15/87	5	EB	570.68
07/16/87	5.5	EB	571.09
07/17/87	10	EB	571.14
07/18/87	10	EB	571.14
07/19/87	10	EB	571.14
07/20/87	9.5	EB	571.10
07/21/87	9	EB	571.06
07/22/87	9	EB	571.06
07/23/87	8.5	EB	571.02
07/24/87	4	EB	570.81
07/25/87	4	EB	570.81
07/26/87	4	EB	570.81
07/27/87	7.5	EB	570.93
07/28/87	7.5	EB	570.93
07/29/87	7.5	EB	570.93
07/30/87	7	EB	570.88
07/31/87	7	EB	570.88
08/01/87	7	EB	570.88
08/02/87	7	EB	570.89
08/03/87	7	EB	570.89
08/04/87	6.5	EB	570.85
08/05/87	6.5	EB	570.85
08/06/87	6	EB	570.81
08/07/87	6	EB	570.81
08/08/87	6	EB	570.81
08/09/87	5.5	EB	570.77
08/10/87	5.5	EB	570.77
08/11/87	5	EB	570.72
08/12/87	5	EB	570.72
08/13/87	4.5	EB	570.68
08/14/87	4.5	EB	570.68
08/15/87	5	EB	570.72
08/16/87	3.5	EB	570.60
08/17/87	3.5	EB	570.63
08/18/87	3	EB	570.56
08/19/87	3	EB	570.56
08/20/87	2	EB	570.47
08/21/87	2	EB	570.47
08/22/87	2	EB	570.47
08/23/87	1.5	EB	570.43
08/24/87	1	EB	570.39
08/25/87	1	EB	570.39
08/26/87	1	EB	570.39
08/27/87	4	EB	570.64
08/28/87	4	EB	570.64
08/29/87	4	EB	570.64
08/30/87	4	EB	570.64
08/31/87	4	EB	570.64
09/01/87	3.5	EB	570.60
09/02/87	3.5	EB	570.60
09/03/87	3	EB	570.56
09/04/87	3	EB	570.56
09/05/87	2.5	EB	570.53
09/06/87	2.5	EB	570.53
09/07/87	2	EB	570.47
09/08/87	2	EB	570.47
09/09/87	2	EB	570.47
09/10/87	1.5	EB	570.43
09/11/87	1.5	EB	570.43
09/12/87	1.5	EB	570.43
09/13/87	1	EB	570.39
09/14/87	1	EB	570.39
09/15/87	1	EB	570.39
09/16/87	1	EB	570.39
09/17/87	1	EB	570.39
09/18/87	1	EB	570.39
09/19/87	1	EB	570.39
09/20/87	0.5	EB	570.35
09/21/87	0.5	EB	570.35
09/22/87	0.5	EB	570.35
09/23/87	0.5	EB	570.35
09/24/87	0	EB	570.31
09/25/87	0	EB	570.31
09/26/87	0	EB	570.31
09/27/87	-0.5	EB	570.27
09/28/87	-1	EB	570.22
09/29/87	0	EB	570.31
09/30/87	0	EB	570.31
10/01/87	-1	EB	570.22
10/02/87	-1	EB	570.22
10/03/87	-1	EB	570.22
10/04/87	-1	EB	570.22
10/05/87	-1.5	EB	570.18
10/06/87	-1.5	EB	570.18
10/07/87	-1.5	EB	570.18
10/08/87	-2	EB	570.14
10/09/87	-2	EB	570.14
10/10/87	-2	EB	570.14
10/11/87	-1.5	EB	570.18
10/12/87	-2.5	EB	570.10
10/13/87	-2.5	EB	570.10
10/14/87	-3	EB	570.06

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	Gage Reading (inches)	Measurement Location	Lake Elevation (feet msl)
04/20/84	6	EB	870.81
04/21/84	5.5	EB	870.77
04/22/84	5.5	EB	870.77
04/23/84	5	EB	870.72
04/24/84	5	EB	870.72
04/25/84	4.5	EB	870.68
04/26/84	4.5	EB	870.68
04/27/84	4.5	EB	870.68
04/28/84	4.5	EB	870.68
04/29/84	4.5	EB	870.68
04/30/84	4.5	EB	870.68
05/01/84	4	EB	870.64
05/02/84	4	EB	870.64
05/03/84	4	EB	870.64
05/04/84	3.5	EB	870.60
05/05/84	3.5	EB	870.60
05/06/84	3	EB	870.56
05/07/84	3	EB	870.56
05/08/84	3	EB	870.56
05/09/84	2.5	EB	870.52
05/10/84	2.5	EB	870.52
05/11/84	2	EB	870.47
05/12/84	2	EB	870.47
05/13/84	1.5	EB	870.43
05/14/84	1.5	EB	870.43
05/15/84	1	EB	870.38
05/16/84	1	EB	870.38
05/17/84	0.5	EB	870.33
05/18/84	0.5	EB	870.33
05/19/84	0	EB	870.29
05/20/84	0	EB	870.29
05/21/84	0	EB	870.29
05/22/84	0	EB	870.29
05/23/84	0	EB	870.29
05/24/84	0	EB	870.29
05/25/84	0	EB	870.29
05/26/84	0	EB	870.29
05/27/84	0	EB	870.29
05/28/84	0	EB	870.29
05/29/84	0	EB	870.29
05/30/84	-0.5	EB	870.18
05/31/84	-0.5	EB	870.18
06/01/84	-2	EB	870.14
06/02/84	-2	EB	870.14
06/03/84	-2	EB	870.14
06/04/84	-2.5	EB	870.10
06/05/84	-2.5	EB	870.10
06/06/84	-2.5	EB	870.10
06/07/84	-3	EB	870.09
06/08/84	-4	EB	869.97
06/09/84	-4.5	EB	869.93
06/10/84	-4.5	EB	869.93
06/11/84	-4.5	EB	869.93
06/12/84	-5	EB	869.89
06/13/84	-5	EB	869.89
06/14/84	-5	EB	869.89
06/15/84	-5	EB	869.89
06/16/84	-5	EB	869.89
06/17/84	-5.5	EB	869.85
06/18/84	-5.5	EB	869.85
06/19/84	-6	EB	869.81
06/20/84	-6	EB	869.81
06/21/84	-7	EB	869.72
06/22/84	-7	EB	869.72
06/23/84	-7.5	EB	869.68
06/24/84	-8	EB	869.64
06/25/84	-8.5	EB	869.60
06/26/84	-9	EB	869.56
06/27/84	-9	EB	869.56
06/28/84	-9.5	EB	869.52
06/29/84	-9.5	EB	869.52
06/30/84	-10	EB	869.47
07/01/84	-10	EB	869.47
07/02/84	-10.5	EB	869.43
07/03/84	-10.5	EB	869.43
07/04/84	-11	EB	869.39
07/05/84	-11.2	EB	869.35
07/06/84	-12	EB	869.31
07/07/84	-12	EB	869.31
07/08/84	-12.5	EB	869.27
07/09/84	-12.5	EB	869.27
07/10/84	-12.5	EB	869.27
07/11/84	-12.5	EB	869.27
07/12/84	-12.5	EB	869.27
07/13/84	-12.5	EB	869.27
07/14/84	-13	EB	869.22
07/15/84	-13	EB	869.22
07/16/84	-12	EB	869.18
07/17/84	-13.5	EB	869.14
07/18/84	-14	EB	869.14
07/19/84	-13	EB	869.22
07/20/84	-12.5	EB	869.27
07/21/84	-12	EB	869.31
07/22/84	-12	EB	869.31
07/23/84	-12	EB	869.31
07/24/84	-12	EB	869.31
07/25/84	-12	EB	869.31
07/26/84	-12	EB	869.31
07/27/84	-12	EB	869.31
07/28/84	-12	EB	869.31
07/29/84	-12	EB	869.31
07/30/84	-12.5	EB	869.27
07/31/84	-12.5	EB	869.27
08/01/84	-12.5	EB	869.27
08/02/84	-13	EB	869.22
08/03/84	-13	EB	869.22
08/04/84	-13.5	EB	869.18
08/05/84	-13.5	EB	869.18
08/06/84	-14	EB	869.14
08/07/84	-14	EB	869.14
08/08/84	-14	EB	869.14
08/09/84	-14.7	EB	869.08
08/10/84	-14.5	EB	869.10
08/11/84	-14.5	EB	869.10
08/12/84	-15	EB	869.06
08/13/84	-15	EB	869.06
08/14/84	-15.5	EB	869.02
08/15/84	-15.5	EB	869.02
08/16/84	-15.5	EB	869.02
08/17/84	-15.5	EB	869.02
08/18/84	-15.6	EB	869.02
08/19/84	-14.5	EB	869.10
08/20/84	-16	EB	869.06
08/21/84	-15	EB	869.06
08/22/84	-15	EB	869.06
08/23/84	-15	EB	869.06
08/24/84	-15	EB	869.06
08/25/84	-15	EB	869.06
08/26/84	-15	EB	869.06
08/27/84	-15	EB	869.06
08/28/84	-15	EB	869.06
08/29/84	-15	EB	869.06
08/30/84	-15	EB	869.06
08/31/84	-15	EB	869.06
09/01/84	-15	EB	869.06
09/02/84	-16	EB	868.97
09/03/84	-16	EB	868.97
09/04/84	-16	EB	868.97
09/05/84	-16	EB	868.97
09/06/84	-16	EB	868.97
09/07/84	-16	EB	868.97
09/08/84	-16	EB	868.97
09/09/84	-16.5	EB	868.93
09/10/84	-16.5	EB	868.93
09/11/84	-17	EB	868.89
09/12/84	-17	EB	868.89
09/13/84	-17	EB	868.89
09/14/84	-15	EB	868.91
09/15/84	-16	EB	868.97
09/16/84	-16	EB	868.97
09/17/84	-15	EB	868.97
09/18/84	-15	EB	868.97
09/19/84	-16.5	EB	869.02
09/20/84	-16.5	EB	869.02
09/21/84	-16.5	EB	869.02
09/22/84	-16.5	EB	869.02
09/23/84	-16.6	EB	869.02
09/24/84	-16.5	EB	869.02
09/25/84	-16.5	EB	869.02
09/26/84	-16.5	EB	869.02
09/27/84	-16.5	EB	869.02
09/28/84	-16.5	EB	869.02
09/29/84	-16.5	EB	869.02
09/30/84	-16.5	EB	869.02
10/01/84	-16	EB	868.97
10/02/84	-16	EB	868.97
10/03/84	-16.5	EB	868.93
10/04/84	-16.5	EB	868.93
10/05/84	-17	EB	868.89
10/06/84	-17.5	EB	868.85
10/07/84	-17.5	EB	868.85
10/08/84	-17.5	EB	868.85
10/09/84	-17.5	EB	868.85
10/10/84	-17.6	EB	868.85
10/11/84	-18	EB	868.81
10/12/84	-18	EB	868.81
10/13/84	-18	EB	868.81
10/14/84	-18	EB	868.81
10/15/84	-18	EB	868.81
10/16/84	-18	EB	868.81
10/17/84	-18	EB	868.81
10/18/84	-18	EB	868.81
10/19/84	-18	EB	868.81
10/20/84	-18	EB	868.81
10/21/84	-18	EB	868.81
10/22/84	-18	EB	868.81
10/23/84	-18	EB	868.81
10/24/84	-18	EB	868.81

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	OOHR Measurement - (feet)	Measurement Location	Lake Elevation (feet msl)
05/02/89	13	EB	871.34
05/03/89	13	EB	871.35
05/04/89	13	EB	871.36
05/05/89	13	EB	871.33
05/06/89	12.5	EB	871.36
05/07/89	12.5	EB	871.35
05/08/89	12	EA	871.31
05/09/89	12	EB	871.31
05/10/89	12.5	EB	871.35
05/11/89	13	EB	871.38
05/12/89	13	EB	871.38
05/13/89	13	EB	871.39
05/14/89	12.5	EB	871.35
05/15/89	12.5	EB	871.35
05/16/89	12	EB	871.31
05/17/89	12	EB	871.31
05/18/89	12	EB	871.31
05/19/89	12	EB	871.31
05/20/89	12	EB	871.31
05/21/89	12	EB	871.31
05/22/89	12	EB	871.31
05/23/89	12	EB	871.31
05/24/89	12	EB	871.31
05/25/89	12	EB	871.31
05/26/89	12	EB	871.31
05/27/89	12	EB	871.31
05/28/89	12	EB	871.31
05/29/89	12	EB	871.31
05/30/89	12	EB	871.31
05/31/89	12	EB	871.31
06/01/89	12	EB	871.31
06/02/89	12	EB	871.31
06/03/89	12	EB	871.31
06/04/89	12	EB	871.31
06/05/89	12	EB	871.31
06/06/89	12	EB	871.31
06/07/89	12	EB	871.31
06/08/89	12	EB	871.31
06/09/89	12	EB	871.31
06/10/89	12	EB	871.31
06/11/89	12.5	EB	871.37
06/12/89	13	EB	871.72
06/13/89	13	EB	871.64
06/14/89	13	EB	871.56
06/15/89	14	EB	871.47
06/16/89	13.5	EB	871.43
06/17/89	13	EB	871.29
06/18/89	12.5	EB	871.35
06/19/89	12	EB	871.31
06/20/89	11.5	EB	871.27
06/21/89	11	EB	871.22
06/22/89	11	EB	871.22
06/23/89	11	EB	871.22
06/24/89	11	EB	871.22
06/25/89	11	EB	871.22
06/26/89	11	EB	871.22
06/27/89	11	EB	871.22
06/28/89	11	EB	871.22
06/29/89	11.5	EB	871.27
06/30/89	11.5	EB	871.27
07/01/89	11	EB	871.22
07/02/89	11	EB	871.22
07/03/89	10.5	EB	871.18
07/04/89	10.5	EB	871.18
07/05/89	10	EB	871.14
07/06/89	10	EB	871.14
07/07/89	10	EB	871.14
07/08/89	10	EB	871.14
07/09/89	10	EB	871.14
07/10/89	10	EB	871.14
07/11/89	10	EB	871.14
07/12/89	9.5	EB	871.10
07/13/89	9.5	EB	871.10
07/14/89	9.5	EB	871.10
07/15/89	9	EB	871.06
07/16/89	9	EB	871.06
07/17/89	14	EB	871.47
07/18/89	16.5	EB	871.68
07/19/89	17	EB	871.72
07/20/89	17	EB	871.72
07/21/89	16.5	EB	871.68
07/22/89	17	EB	871.72
07/23/89	17	EB	871.72
07/24/89	16.5	EB	871.68
07/25/89	16	EB	871.64
07/26/89	16	EB	871.64
07/27/89	16	EB	871.64
07/28/89	15.5	EB	871.59
07/29/89	15.5	EB	871.59
07/30/89	15	EB	871.55
07/31/89	14	EB	871.47
08/01/89	13.5	EB	871.43
08/02/89	13	EB	871.39
08/03/89	13	EB	871.39
08/04/89	12.5	EB	871.35
08/05/89	12.5	EB	871.35
08/06/89	12	EB	871.31
08/07/89	12	EB	871.31
08/08/89	11	EB	871.22
08/09/89	10.5	EB	871.18
08/10/89	10	EB	871.14
08/11/89	9.5	EB	871.10
08/12/89	9	EB	871.06
08/13/89	8.5	EB	871.02
08/14/89	8	EB	870.97
08/15/89	8	EB	870.97
08/16/89	8	EB	870.97
08/17/89	7.5	EB	870.93
08/18/89	7.5	EB	870.93
08/19/89	7	EB	870.88
08/20/89	6.5	EB	870.85
08/21/89	6	EB	870.81
08/22/89	5.5	EB	870.77
08/23/89	5.5	EB	870.77
08/24/89	5.5	EB	870.77
08/25/89	5	EB	870.72
08/26/89	5	EB	870.72
08/27/89	4	EB	870.64
08/28/89	4	EB	870.64
08/29/89	4	EB	870.64
08/30/89	4	EB	870.64
08/31/89	4	EB	870.64
09/01/89	3.5	EB	870.60
09/02/89	3.5	EB	870.60
09/03/89	3.5	EB	870.60
09/04/89	3	EB	870.56
09/05/89	3	EB	870.56
09/06/89	2.5	EB	870.52
09/07/89	2	EB	870.47
09/08/89	2	EB	870.47
09/09/89	2	EB	870.47
09/10/89	2	EB	870.47
09/11/89	2	EB	870.47
09/12/89	2	EB	870.47
09/13/89	2	EB	870.47
09/14/89	2	EB	870.47
09/15/89	3	EB	870.56
09/16/89	3.5	EB	870.60
09/17/89	3.5	EB	870.60
09/18/89	4	EB	870.64
09/19/89	4	EB	870.64
09/20/89	4	EB	870.64
09/21/89	4	EB	870.64
09/22/89	4	EB	870.64
09/23/89	4	EB	870.64
09/24/89	4	EB	870.64
09/25/89	4	EB	870.64
09/26/89	4	EB	870.64
09/27/89	4	EB	870.64
09/28/89	4	EB	870.64
09/29/89	3	EB	870.56
09/30/89	3	EB	870.56
10/01/89	3.5	EB	870.60
10/02/89	3.5	EB	870.60
10/03/89	3	EB	870.56
10/04/89	3	EB	870.56
10/05/89	2.5	EB	870.52
10/06/89	2	EB	870.47
10/07/89	2	EB	870.47
10/08/89	1.5	EB	870.43
10/09/89	1.5	EB	870.43
10/10/89	1	EB	870.39
10/11/89	1	EB	870.39
10/12/89	0	EB	870.34
10/13/89	0	EB	870.34
10/14/89	0	EB	870.34
10/15/89	0	EB	870.34
10/16/89	0	EB	870.34
10/17/89	0	EB	870.34
10/18/89	0	EB	870.34
10/19/89	0	EB	870.34
10/20/89	0	EB	870.34
10/21/89	0	EB	870.34
10/22/89	0	EB	870.34
10/23/89	0	EB	870.34
10/24/89	0.5	EB	870.38
10/25/89	0.5	EB	870.38
10/26/89	0.5	EB	870.38
10/27/89	0.5	EB	870.38
10/28/89	0.5	EB	870.38
10/29/89	0.5	EB	870.38
10/30/89	0.5	EB	870.38
10/31/89	0.5	EB	870.38
11/01/89	0.5	EB	870.38
11/02/89	0.5	EB	870.38
11/03/89	0.5	EB	870.38
11/04/89	0.5	EB	870.38
11/05/89	0.5	EB	870.38

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	Observed Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
03/26/91	10	EB	871.14
03/29/91	10	EB	871.14
03/30/91	10	EB	871.14
03/31/91	10	EB	871.14
04/02/91	10	EB	871.14
04/11/91	7	EB	870.83
04/15/91	10	EB	871.14
04/19/91	9.5	EB	871.10
05/31/91	7.5	EB	870.93
06/03/91	11.5	EB	871.31
06/14/91	8	EB	870.97
06/25/91	8	EB	870.72
07/05/91	5	EB	870.72
07/15/91	3	EB	870.56
07/26/91	2	EB	870.47
08/01/91	0	EB	870.31
08/07/91	-2	EB	870.14
08/12/91	-3	EB	870.06
08/23/91	3.5	EB	870.02
08/30/91	-4	EB	868.97
09/18/91	-6	EB	869.81
09/30/91	-6	EB	869.64
10/30/91	-10	EB	868.47
11/30/91	-8	EB	869.56
11/1/91	-10	EB	868.47
11/21/91	-8.5	EB	869.02
12/09/91	-9	EB	868.56
12/23/91	-9	EB	868.56
12/30/91	-8	EB	869.06
01/24/92	-8	EB	869.64
02/03/92	-7	EB	869.72
02/15/92	-7	EB	869.72
03/04/92	-6	EB	869.89
03/18/92	-4	EB	869.97
03/23/92	-2	EB	870.14
04/08/92	-1	EB	870.22
04/20/92	2	EB	870.47
04/27/92	6.5	EB	870.83
04/28/92	6	EB	870.81
05/15/92	9.5	EB	870.77
05/26/92	7	EB	870.64
06/09/92	5	EB	870.72
06/16/92	4	EB	870.64
06/23/92	4	EB	870.61
07/13/92	12	EB	871.31
07/16/92	10.5	EB	871.05
07/19/92	21.5	EB	872.35
07/21/92	23.5	EB	872.27
07/22/92	23	EB	872.14
07/14/92	25	EB	872.30
07/25/92	25	EB	872.30
07/26/92	25	EB	872.30
07/27/92	24.5	EB	872.35
07/28/92	24	EB	872.31
07/30/92	21	EB	872.14
07/31/92	24	EB	872.31
08/01/92	23	EB	872.22
08/03/92	21	EB	872.06
08/04/92	20	EB	871.97
08/06/92	18	EB	871.89
08/07/92	18.5	EB	871.85
08/10/92	16	EB	871.64
08/11/92	16	EB	871.64
08/13/92	14	EB	871.47
08/17/92	14	EB	871.47
08/20/92	17.5	EB	871.39
08/23/92	10	EB	871.14
08/29/92	15.5	EB	871.60
09/01/92	14	EB	871.43
09/04/92	13	EB	871.39
09/07/92	12	EB	871.31
09/13/92	12	EB	871.31
09/14/92	11.5	EB	871.27
09/23/92	11	EB	871.22
09/29/92	10	EB	871.14
10/01/92	9	EB	870.97
10/06/92	7	EB	870.89
10/07/92	6	EB	870.81
10/10/92	3.5	EB	870.68
10/21/92	3	EB	870.56
10/28/92	1	EB	870.39
11/16/92	11.5	EB	871.27
11/24/92	13.5	EB	871.43
11/27/92	13	EB	871.39
12/05/92	13	EB	871.39
12/12/92	11	EB	871.22
12/15/92	9	EB	871.06
12/28/92	6	EB	870.81
01/04/93	7	EB	870.89
01/07/93	10	EB	871.14
01/19/93	8	EB	870.97
01/22/93	10	EB	871.14
01/25/93	11	EB	871.22
02/01/93	11	EB	871.22
02/08/93	11	EB	871.22
02/09/93	11	EB	871.22
02/16/93	11	EB	871.22
02/22/93	11	EB	871.22
02/23/93	11	EB	871.22
02/24/93	11	EB	871.22
02/25/93	11	EB	871.22
02/26/93	11	EB	871.22
02/27/93	11	EB	871.22
02/28/93	11	EB	871.22
03/01/93	11	EB	871.22
03/02/93	11	EB	871.22
03/03/93	11	EB	871.22
03/04/93	11	EB	871.22
03/05/93	11	EB	871.22
03/06/93	11	EB	871.22
03/07/93	11	EB	871.22
03/08/93	11	EB	871.22
03/09/93	11	EB	871.22
03/10/93	11	EB	871.22
03/11/93	11	EB	871.22
03/12/93	11	EB	871.22
03/13/93	11	EB	871.22
03/14/93	11	EB	871.22
03/15/93	11	EB	871.22
03/16/93	11	EB	871.22
03/17/93	11	EB	871.22
03/18/93	11	EB	871.22
03/19/93	11	EB	871.22
03/20/93	11	EB	871.22
03/21/93	11	EB	871.22
03/22/93	11	EB	871.22
03/23/93	11	EB	871.22
03/24/93	11	EB	871.22
03/25/93	11	EB	871.22
03/26/93	11	EB	871.22
03/27/93	11	EB	871.22
03/28/93	11	EB	871.22
03/29/93	11	EB	871.22
03/30/93	11	EB	871.22
03/31/93	11	EB	871.22
04/01/93	11	EB	871.22
04/02/93	11	EB	871.22
04/03/93	11	EB	871.22
04/04/93	11	EB	871.22
04/05/93	11	EB	871.22
04/06/93	11	EB	871.22
04/07/93	11	EB	871.22
04/08/93	11	EB	871.22
04/09/93	11	EB	871.22
04/10/93	11	EB	871.22
04/11/93	11	EB	871.22
04/12/93	11	EB	871.22
04/13/93	11	EB	871.22
04/14/93	11	EB	871.22
04/15/93	11	EB	871.22
04/16/93	11	EB	871.22
04/17/93	11	EB	871.22
04/18/93	11	EB	871.22
04/19/93	11	EB	871.22
04/20/93	11	EB	871.22
04/21/93	11	EB	871.22
04/22/93	11	EB	871.22
04/23/93	11	EB	871.22
04/24/93	11	EB	871.22
04/25/93	11	EB	871.22
04/26/93	11	EB	871.22
04/27/93	11	EB	871.22
04/28/93	11	EB	871.22
04/29/93	11	EB	871.22
04/30/93	11	EB	871.22
05/01/93	11	EB	871.22
05/02/93	11	EB	871.22
05/03/93	11	EB	871.22
05/04/93	11	EB	871.22
05/05/93	11	EB	871.22
05/06/93	11	EB	871.22
05/07/93	11	EB	871.22
05/08/93	11	EB	871.22
05/09/93	11	EB	871.22
05/10/93	11	EB	871.22
05/11/93	11	EB	871.22
05/12/93	11	EB	871.22
05/13/93	11	EB	871.22
05/14/93	11	EB	871.22
05/15/93	11	EB	871.22
05/16/93	11	EB	871.22
05/17/93	11	EB	871.22
05/18/93	11	EB	871.22
05/19/93	11	EB	871.22
05/20/93	11	EB	871.22
05/21/93	11	EB	871.22
05/22/93	11	EB	871.22
05/23/93	11	EB	871.22
05/24/93	11	EB	871.22
05/25/93	11	EB	871.22
05/26/93	11	EB	871.22
05/27/93	11	EB	871.22
05/28/93	11	EB	871.22
05/29/93	11	EB	871.22
05/30/93	11	EB	871.22
05/31/93	11	EB	871.22
06/01/93	11	EB	871.22
06/02/93	11	EB	871.22
06/03/93	11	EB	871.22
06/04/93	11	EB	871.22
06/05/93	11	EB	871.22
06/06/93	11	EB	871.22
06/07/93	11	EB	871.22
06/08/93	11	EB	871.22
06/09/93	11	EB	871.22
06/10/93	11	EB	871.22
06/11/93	11	EB	871.22
06/12/93	11	EB	871.22
06/13/93	11	EB	871.22
06/14/93	11	EB	871.22
06/15/93	11	EB	871.22
06/16/93	11	EB	871.22
06/17/93	11	EB	871.22
06/18/93	11	EB	871.22
06/19/93	11	EB	871.22
06/20/93	11	EB	871.22
06/21/93	11	EB	871.22
06/22/93	11	EB	871.22
06/23/93	11	EB	871.22
06/24/93	11	EB	871.22
06/25/93	11	EB	871.22
06/26/93	11	EB	871.22
06/27/93	11	EB	871.22
06/28/93	11	EB	871.22
06/29/93	11	EB	871.22
06/30/93	11	EB	871.22
07/01/93	11	EB	871.22
07/02/93	11	EB	871.22
07/03/93	11	EB	871.22
07/04/93	11	EB	871.22
07/05/93	11	EB	871.22
07/06/93	11	EB	871.22
07/07/93	11	EB	871.22
07/08/93	11	EB	871.22
07/09/93	11	EB	871.22
07/10/93	11	EB	871.22
07/11/93	11	EB	871.22
07/12/93	11	EB	871.22
07/13/93	11	EB	871.22
07/14/93	11	EB	871.22
07/15/93	11	EB	871.22
07/16/93	11	EB	871.22
07/17/93	11	EB	871.22
07/18/93	11	EB	871.22
07/19/93	11	EB	871.22
07/20/93	11	EB	871.22
07/21/93	11	EB	871.22
07/22/93	11	EB	871.22
07/23/93	11	EB	871.22
07/24/93	11	EB	871.22
07/25/93	11	EB	871.22
07/26/93	11	EB	871.22
07/27/93	11	EB	871.22
07/28/93	11	EB	871.22
07/29/93	11	EB	871.22
07/30/93	11	EB	871.22
07/31/93	11	EB	871.22
08/01/93	11	EB	871.22
08/02/93	11	EB	871.22
08/03/93	11	EB	871.22
08/04/93	11	EB	871.22
08/05/93	11	EB	871.22
08/06/93	11	EB	871.22
08/07/93	11	EB	871.22
08/08/93	11	EB	871.22
08/09/93	11	EB	871.22
08/10/93	11	EB	871.22
08/11/93	11	EB	871.22
08/12/93	11	EB	871.22
08/13/93	10.5	EB	871.18
08/14/93	10	EB	871.14
08/17/93	9	EB	871.06
08/25/93	4	EB	870.64
09/04/93	3	EB	870.72
09/07/93	4	EB	870.64
09/09/93	2	EB	870.47
09/22/93	0	EB	870.31
09/29/93	0	EB	870.31
09/30/93	1	EB	870.39
10/05/93	0	EB	870.31
10/14/93	-2	EB	870.14
10/19/93	-2	EB	870.14
11/09/93	-4	EB	869.97
11/15/93	3	EB	870.72
11/19/93	6.5	EB	870.85
11/15/93	10	EB	871.39
11/22/93	10	EB	871.39
11/30/93	12	EB	871.31
12/14/93	12	EB	871.31
12/20/93	10	EB	871.14
12/23/93	10	EB	871.14
12/28/93	8	EB	870.97
01/05/94	6	EB	870.81
01/09/94	4	EB	870.64
01/14/94	1	EB	870.39
01/27/94	4	EB	870.64
01/28/94	6	EB	870.81
01/31/94	9	EB	871.06

EB = East Bank.
WB = West Bank.
BH = Boathouse.
NA = Not Available.

Date	GOWA Measurement (inches)	Measurement Location	Lake Elevation (feet GLD)
09/15/97	11	EB	671.23
07/11/97	10	EB	671.14
07/14/97	9	EB	671.06
07/17/97	9	EB	671.97
07/10/97	8	EB	670.81
07/24/97	6	EB	670.97
07/31/97	6	EB	670.81
08/03/97	6	EB	670.81
08/12/97	3	EB	670.56
08/14/97	4	EB	670.64
08/20/97	5	EB	670.81
08/26/97	4	EB	670.64
09/02/97	3	EB	670.56
10/02/97	0	EB	670.31
10/24/97	-2	EB	670.14
11/16/97	-2	EB	670.14
12/02/97	-1	EB	670.22
12/29/97	-2	EB	670.14
10/28/97	0	EB	670.31
01/07/98	0	EB	670.06
01/12/98	0	EB	670.06
02/06/98	0	CB	670.06
02/20/98	0	EB	670.31
03/20/98	13	EB	670.39
03/25/98	12	EB	671.31
04/14/98	12	CB	671.31
03/24/98	17	EB	671.73
04/04/98	15	EB	671.56
04/08/98	16	EB	671.64
04/15/98	17	EB	671.72
04/28/98	16	EB	671.64
04/21/98	16	EB	671.47
05/04/98	14	EB	671.47
05/29/98	11.5	EB	671.27
05/22/98	11	EB	671.22
06/12/98	15	EB	671.81
05/22/98	17	CB	672.72
06/29/98	15	EB	671.64
07/06/98	14	EB	671.47
07/20/98	12	EB	671.31
07/26/98	12	EB	671.31
07/23/98	21	EB	672.06
07/27/98	16	EB	671.81
08/04/98	13	EB	671.39
08/05/98	15	EB	671.64
08/06/98	16	EB	671.81
08/07/98	21	EB	672.06
08/10/98	18	CB	671.81
08/17/98	14	CB	671.47
08/19/98	12	EB	671.31
08/25/98	13	EB	671.14
08/31/98	8	EB	670.81
09/10/98	5	EB	670.81
09/21/98	3	EB	670.72
09/28/98	3	EB	670.56
10/16/98	2	EB	670.47
10/26/98	1	EB	670.39
10/29/98	1	EB	670.39
11/04/98	4.5	EB	670.68
11/09/98	0	EB	670.31
11/20/98	0	EB	670.31
12/06/98	-0.5	CB	670.27
12/16/98	-1	EB	670.22
12/23/98	-1	EB	670.22
01/12/99	0	EB	670.31
01/18/99	3	EB	670.56
01/23/99	14	EB	671.47
01/25/99	15	EB	671.64
02/03/99	14	EB	671.47
02/08/99	16	EB	671.64
02/16/99	15	EB	671.64
02/22/99	14	EB	671.47
03/26/99	14	EB	671.47
03/02/99	18	EA	671.81
03/05/99	17	EB	671.72
03/13/99	16	EB	671.64
03/15/99	16	EB	671.64
03/23/99	13	EB	671.39
03/30/99	11	EB	671.22
04/07/99	12	EB	671.31
04/13/99	11	EB	671.22
04/19/99	12	CB	671.31
04/26/99	12	EB	671.31
04/30/99	15	EB	671.56
05/03/99	13	EB	671.39
05/10/99	11	EA	671.22
05/13/99	11	EB	671.22
05/18/99	11	EB	671.22
05/26/99	10	EB	671.14
05/28/99	9	EB	671.05
06/06/99	8	EB	670.97
06/09/99	7	EB	670.89
06/21/99	5	EB	670.72
06/28/99	5	EB	670.72
07/06/99	3	EB	670.55
07/13/99	0	EB	670.31
07/19/99	0	EB	670.31
07/22/99	2	EB	670.14
07/30/99	2	EB	670.14
08/09/99	-5	EB	669.89
08/13/99	-6	EB	669.81
08/24/99	-8	EB	669.64
09/01/99	-10	EB	669.47
09/07/99	-12	EB	669.31
09/10/99	-12	EB	669.31
09/16/99	-13	EB	669.22
09/23/99	-14	EB	669.14
09/27/99	-16	EB	668.97
10/14/99	-16	EB	668.97
10/16/99	-15	EB	668.97
11/02/99	-18	EB	668.81
11/09/99	-18	EB	668.81
11/17/99	-18	EB	668.72
11/23/99	-19	EB	668.72
12/01/99	-19.5	EB	668.68
12/07/99	-19	EB	668.72
12/10/99	-17	EB	668.89
12/13/99	-18	EB	668.81
12/28/99	-19	EB	668.97
01/03/00	-16	EB	668.97
01/12/00	-17	EB	668.89
01/31/00	-17	EB	668.89
02/14/00	-15	EB	669.06
02/16/00	-14	EB	669.14
02/25/00	-12.5	EB	669.27
03/03/00	-12	EB	669.31
03/04/00	-12	EB	669.31
04/01/00	-10	EB	669.39
04/08/00	11	EB	669.32
04/09/00	-7	EB	669.72
04/17/00	-12	EB	669.31
04/19/00	-9	EB	669.81
04/24/00	-6	EB	669.97
05/01/00	-11	EB	669.39
05/12/00	-10	EB	669.47
05/19/00	-10.5	EB	669.14
05/27/00	-11	EB	669.31
05/30/00	-13	EB	669.15
06/06/00	-11.5	WB	669.64
06/09/00	-4	EB	669.97
06/17/00	-11.5	WB	669.64
06/19/00	-3	EB	670.06
06/22/00	-4	WB	669.93
06/30/00	-3	EB	670.12
06/27/00	-7	BH	670.18
07/10/00	-3	EB	670.14
07/21/00	-6	EB	669.81
07/28/00	-12.5	WB	669.55
07/31/00	-6	EB	669.81
08/07/00	-6	EB	669.81
08/10/00	-5	EB	669.81
08/21/00	-4.5	EB	669.68
08/29/00	-7	EB	669.72
09/01/00	-14	BH	668.68
09/07/00	-9	EB	669.36
09/14/00	-7.5	EB	669.68
09/20/00	-1	EB	669.72
10/03/00	-5	EB	669.64
10/05/00	13.5	WB	671.73
10/07/00	13	WB	671.64
10/17/00	-11	WB	669.47
10/23/00	-10	WB	669.47
10/31/00	-5	EB	669.93
11/13/00	-5	EB	669.93
11/21/00	-12	WB	669.60
01/16/01	-11.5	WB	669.64
01/29/01	-4.5	EB	669.93
02/05/01	-2	EB	670.14
02/13/01	1	EB	670.39
02/15/01	3.5	EB	670.60
02/16/01	-3.5	EB	670.02
02/17/01	-2	EB	670.14
02/20/01	4	EB	670.64
03/14/01	4	EB	670.64
04/15/01	3	WB	670.85
04/25/01	2.5	WB	670.85
05/05/01	8	EB	671.97
05/15/01	0.5	BH	670.81
05/16/01	2	BH	670.93
05/17/01	3.5	BH	671.06
05/19/01	5	BH	671.15
05/27/01	14	EB	671.47
06/04/01	14	EB	671.47
06/05/01	9	WB	671.15
06/14/01	13	EB	671.56
06/19/01	4.5	BH	671.14

EB = East Bank
WB = West Bank
BH = Boathouse
NA = Not Available

Date	GWR Measurement (inches)	Measurement Location	Lake Elevation (feet msl)
06/23/04	15	EB	871.56
06/30/04	13	FB	871.38
07/07/04	16	EB	871.54
07/11/04	8	EB	870.87
07/16/04	4	EB	870.67
07/19/04	8	EB	870.87
07/26/04	4	AE	870.67
08/02/04	4	EB	870.67
08/14/04	4	EB	870.61
08/15/04	5	EB	870.61
08/16/04	4	EB	870.61
08/31/04	4	EB	870.61
09/22/04	6	EB	870.51
09/23/04	6	EB	870.51
09/30/04	4	EB	870.61
10/13/04	4	EB	870.64
10/21/04	2	EB	870.47
10/27/04	0	EB	870.31
10/31/04	0	EB	870.31
11/09/04	1	EB	870.64
12/06/04	3	EB	870.97
12/20/04	5	EB	870.87
12/26/04	9	EB	871.06
01/02/05	14	EB	871.47
01/07/05	24	EB	872.31
01/08/05	21	EB	872.06
01/09/05	21	EB	872.06
01/10/05	21	EB	872.06
01/12/05	27	EB	872.56
01/15/05	20	EB	871.97
01/22/05	17	EB	871.72
01/23/05	17	EB	871.72
01/24/05	17	EB	871.72
01/28/05	16	EB	871.64
01/31/05	16	EB	871.64
02/04/05	14	EB	871.47
02/08/05	17	EB	871.72
02/11/05	18	EB	871.81
02/14/05	18	EB	871.81
02/18/05	18	EB	871.81
02/23/05	16	EB	871.64
02/28/05	15	EB	871.56
03/03/05	13	EB	871.39
03/14/05	14	EB	871.47
03/18/05	13	EB	871.39
03/25/04	12	EB	871.31
04/04/05	14	EB	871.47
04/27/05	12	EB	871.31
04/26/04	13	EB	871.81
04/28/05	18	EB	871.81
05/06/05	15	EB	871.56
05/11/05	14	EB	871.47
05/16/05	15	EB	871.64
05/17/05	12	EB	871.31
05/20/05	12	EB	871.31
05/23/05	10	EB	871.14
06/07/05	10	EB	871.14
06/21/05	7	EB	870.83
06/28/05	5	EB	870.72
06/30/05	5	EB	870.97
07/06/05	5	EB	870.81
07/15/05	4	EB	870.64
07/22/05	4	EB	870.64
08/03/05	2	EB	870.47
08/17/05	1	EB	870.39
08/25/05	-1	EB	870.22
09/29/05	-2	FB	870.14
09/01/05	0	FB	870.31
09/13/05	-1	EB	870.22
09/21/05	0	EB	870.31
09/27/05	3	EB	870.47
09/30/05	4	EB	870.97
10/05/05	7	EB	870.89
10/13/05	6	EB	870.81
10/27/05	7	EB	870.89
11/03/05	6	EB	870.97
11/12/05	5	FB	870.97
11/13/05	6	FA	870.97
11/14/05	5	EB	870.97
11/19/05	12	EB	871.31
11/20/05	12	EB	871.31
11/21/05	12	EB	871.31
12/01/05	14	EB	871.47
12/03/05	14	EB	871.47
12/04/05	14	EB	871.47
12/05/05	14	EB	871.47
12/17/05	12	EB	871.31
12/18/05	12	FB	871.31
12/19/05	12	EB	871.31
12/21/05	12	EB	871.31
12/26/05	12	EB	871.31
12/31/05	12	EB	871.31
12/23/05	17	EB	871.72
01/04/06	17	EB	871.72
01/26/06	15	EB	871.56
02/02/06	15	EB	871.56
02/09/06	17	EB	871.72
02/22/06	15	EB	871.56
03/04/06	13	EB	871.39
03/05/06	13	EB	871.39
03/06/06	13	EB	871.39
03/13/06	13	EB	871.39
03/16/06	17	EB	871.72
03/24/06	16	EB	871.56
03/25/06	14	EB	871.47
04/15/06	16	EB	871.64
04/20/06	15	EB	871.56
05/03/06	13	EB	871.31
05/04/06	13	EB	871.31
05/07/06	13	EB	871.31
05/08/06	13	EB	871.31
05/15/06	16	EB	871.64
05/17/06	16	EB	871.64
05/31/06	16	EB	871.64
06/23/06	15	EB	871.56
06/30/06	20	EB	872.06
07/04/06	21	EB	872.06
08/08/06	21	EB	872.06
08/09/06	20	EB	871.97
08/10/06	18	EB	871.81
08/11/06	18	EB	871.81
08/13/06	16	EB	871.81
08/14/06	17	EB	871.72
08/28/06	14	EB	871.47
09/03/06	15	EB	871.56
09/28/06	14	EB	871.47
07/07/06	13	FB	871.14
07/13/06	13	EB	871.14
07/19/06	13	FB	871.14
07/22/06	9	EB	871.06
07/23/06	9	EB	871.06
07/24/06	9	EB	871.06
08/03/06	14	EB	871.47
08/14/06	11	EB	871.22
08/17/06	8	EB	870.97
08/19/06	8	EB	870.97
08/20/06	8	EB	870.97
08/21/06	8	EB	870.97

EB = East Bank
WB = West Bank
Bnt = Boathouse
NA = Not Available

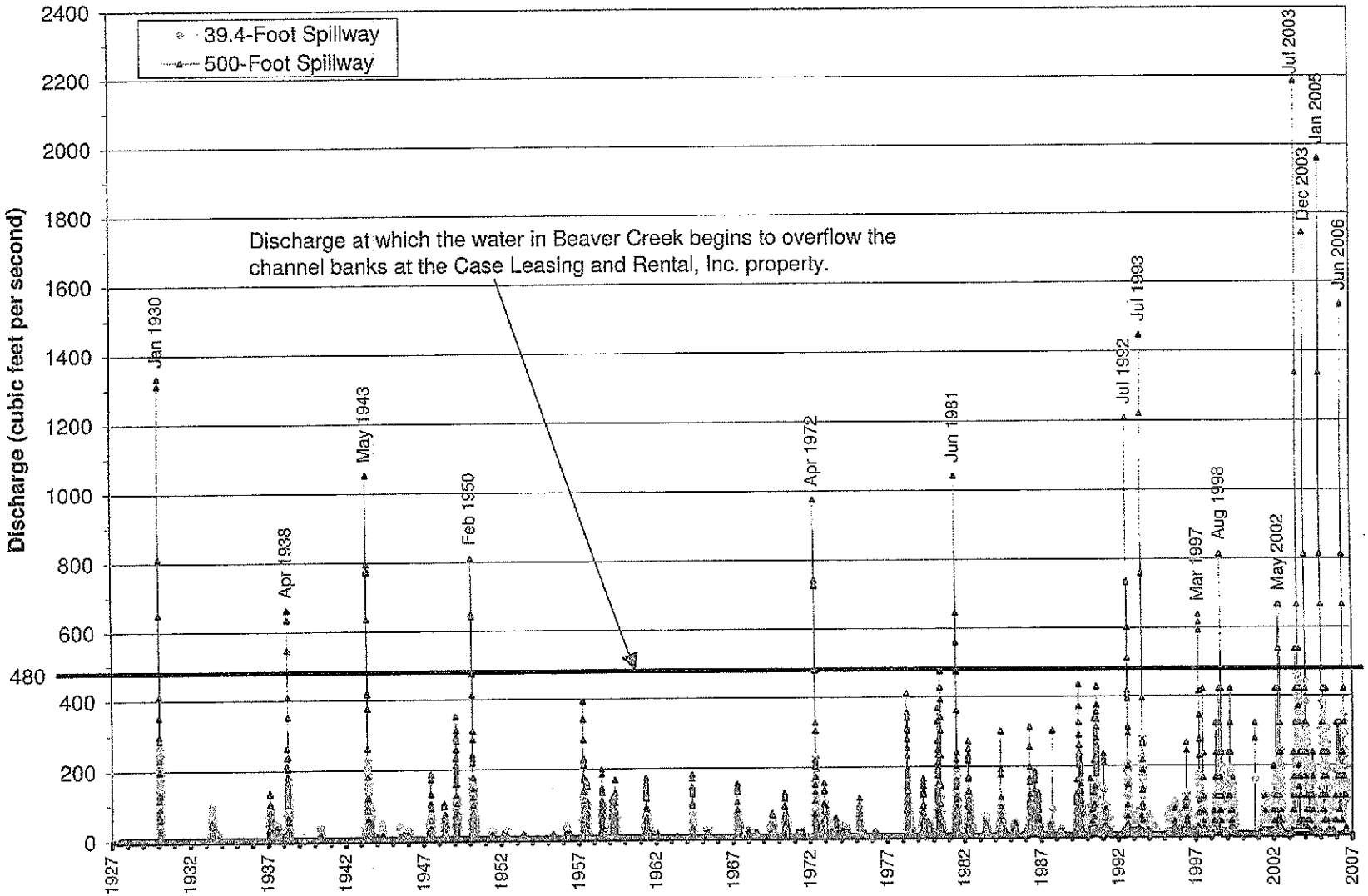

C

APPENDIX C

REVISED FIGURE 3 FROM THE CRA MAY 2006 REPORT

(Referenced in the text on page 3)

Revised Figure 3
Grand Lake St. Marys
Calculated Discharges into Beaver Creek[1]

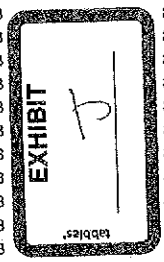


(1) Discharge values (rate of flow) were calculated based on reservoir elevations as measured at Grand Lake St. Marys and the stage-discharge relationships obtained from ODNR.

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
7	7/1/1988	-10	EB	869.47
7	7/2/1988	-10.5	EB	869.43
7	7/3/1988	-10.5	EB	869.43
7	7/4/1988	-11	EB	869.39
7	7/5/1988	-11.5	EB	869.35
7	7/6/1988	-12	EB	869.31
7	7/7/1988	-12	EB	869.31
7	7/8/1988	-12.5	EB	869.27
7	7/9/1988	-12.5	EB	869.27
7	7/10/1988	-12.5	EB	869.27
7	7/11/1988	-12.5	EB	869.27
7	7/12/1988	-12.5	EB	869.27
7	7/13/1988	-12.5	EB	869.27
7	7/14/1988	-13	EB	869.22
7	7/15/1988	-13	EB	869.22
7	7/16/1988	-13	EB	869.22
7	7/17/1988	-13.5	EB	869.18
7	7/18/1988	-14	EB	869.14
7	7/19/1988	-13	EB	869.22
7	7/20/1988	-12.5	EB	869.27
7	7/21/1988	-12	EB	869.31
7	7/22/1988	-12	EB	869.31
7	7/23/1988	-12	EB	869.31
7	7/24/1988	-12	EB	869.31
7	7/25/1988	-12	EB	869.31
7	7/26/1988	-12	EB	869.31
7	7/27/1988	-12	EB	869.31
7	7/28/1988	-12	EB	869.31
7	7/29/1988	-12	EB	869.31
7	7/30/1988	-12.5	EB	869.27
7	7/31/1988	-12.5	EB	869.27
8	8/1/1988	-12.5	EB	869.27
8	8/2/1988	-13	EB	869.22
8	8/3/1988	-13	EB	869.22
8	8/4/1988	-13.5	EB	869.18
8	8/5/1988	-13.5	EB	869.18
8	8/6/1988	-14	EB	869.14
8	8/7/1988	-14	EB	869.14
8	8/8/1988	-14	EB	869.14
8	8/9/1988	-14.7	EB	869.08
8	8/10/1988	-14.5	EB	869.1
8	8/11/1988	-14.5	EB	869.1
8	8/12/1988	-15	EB	869.06
8	8/13/1988	-15	EB	869.06
8	8/14/1988	-15.5	EB	869.02
8	8/15/1988	-15.5	EB	869.02
8	8/16/1988	-15.5	EB	869.02
8	8/17/1988	-15.5	EB	869.02
8	8/18/1988	-15.5	EB	869.02
8	8/19/1988	-14.5	EB	869.1
8	8/20/1988	-14.5	EB	869.1
8	8/21/1988	-15	EB	869.06
8	8/22/1988	-15	EB	869.06
8	8/23/1988	-15	EB	869.06
8	8/24/1988	-15	EB	869.06
8	8/25/1988	-15	EB	869.06
8	8/26/1988	-15	EB	869.06
8	8/27/1988	-15	EB	869.06
8	8/28/1988	-15	EB	869.06
8	8/29/1988	-15	EB	869.06
8	8/30/1988	-15	EB	869.06
8	8/31/1988	-15	EB	869.06
9	9/1/1988	-16	EB	868.97
9	9/2/1988	-16	EB	868.97
9	9/3/1988	-16	EB	868.97
9	9/4/1988	-16	EB	868.97
9	9/5/1988	-16	EB	868.97
9	9/6/1988	-16	EB	868.97
9	9/7/1988	-16	EB	868.97
9	9/8/1988	-16	EB	868.97
9	9/9/1988	-16.5	EB	868.93
9	9/10/1988	-16.5	EB	868.93



Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
4	4/4/1998	15	EB	871.56
4	4/6/1998	16	EB	871.64
4	4/15/1998	17	EB	871.72
4	4/20/1998	16	EB	871.64
4	4/21/1998	14	EB	871.47
5	5/4/1998	14	EB	871.47
5	5/20/1998	11.5	EB	871.27
5	5/29/1998	11	EB	871.22
6	6/15/1998	18	EB	871.81
6	6/22/1998	17	EB	871.72
6	6/29/1998	16	EB	871.64
7	7/6/1998	14	EB	871.47
7	7/9/1998	15	EB	871.56
7	7/14/1998	13	EB	871.39
7	7/16/1998	12	EB	871.31
7	7/20/1998	12	EB	871.31
7	7/23/1998	21	EB	872.06
7	7/27/1998	18	EB	871.81
8	8/4/1998	13	EB	871.39
8	8/5/1998	16	EB	871.64
8	8/6/1998	18	EB	871.81
8	8/7/1998	21	EB	872.06
8	8/10/1998	18	EB	871.81
8	8/17/1998	14	EB	871.47
8	8/19/1998	12	EB	871.31
8	8/25/1998	10	EB	871.14
8	8/31/1998	8	EB	870.97
9	9/10/1998	6	EB	870.81
9	9/21/1998	5	EB	870.72
9	9/29/1998	3	EB	870.56
10	10/16/1998	2	EB	870.47
10	10/26/1998	1	EB	870.39
10	10/30/1998	1	EB	870.39
4	4/7/1999	12	EB	871.31
4	4/13/1999	11	EB	871.22
4	4/19/1999	12	EB	871.31
4	4/26/1999	12	EB	871.31
4	4/30/1999	15	EB	871.56
5	5/3/1999	13	EB	871.39
5	5/10/1999	11	EB	871.22
5	5/12/1999	11	EB	871.22
5	5/18/1999	11	EB	871.22
5	5/26/1999	10	EB	871.14
5	5/28/1999	9	EB	871.06
6	6/8/1999	8	EB	870.97
6	6/9/1999	7	EB	870.89
6	6/21/1999	5	EB	870.72
6	6/28/1999	5	EB	870.72
7	7/6/1999	3	EB	870.56
7	7/13/1999	0	EB	870.31
7	7/19/1999	0	EB	870.31
7	7/23/1999	-2	EB	870.14
7	7/30/1999	-2	EB	870.14
8	8/9/1999	-5	EB	869.89
8	8/12/1999	-6	EB	869.81
8	8/24/1999	-8	EB	869.64
9	9/1/1999	-10	EB	869.47
9	9/3/1999	-12	EB	869.31
9	9/10/1999	-12	EB	869.31
9	9/16/1999	-13	EB	869.22
9	9/22/1999	-14	EB	869.14
9	9/27/1999	-16	EB	868.97
10	10/14/1999	-16	EB	868.97
10	10/19/1999	-16	EB	868.97
4	4/1/2000	-18	BH	869.26
4	4/3/2000	-11	EB	869.39
4	4/9/2000	-7	EB	869.72
4	4/17/2000	-12	BH	869.76
4	4/19/2000	-6	EB	869.81
4	4/24/2000	-4	EB	869.97
5	5/1/2000	-11	EB	869.39
5	5/2/2000	-10	EB	869.47

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
9	9/11/1988	-17	EB	868.89
9	9/12/1988	-17	EB	868.89
9	9/13/1988	-17	EB	868.89
9	9/14/1988	-16	EB	868.97
9	9/15/1988	-16	EB	868.97
9	9/16/1988	-16	EB	868.97
9	9/17/1988	-16	EB	868.97
9	9/18/1988	-16	EB	868.97
9	9/19/1988	-15.5	EB	869.02
9	9/20/1988	-15.5	EB	869.02
9	9/21/1988	-15.5	EB	869.02
9	9/22/1988	-15.5	EB	869.02
9	9/23/1988	-15.5	EB	869.02
9	9/24/1988	-15.5	EB	869.02
9	9/25/1988	-15.5	EB	869.02
9	9/26/1988	-15.5	EB	869.02
9	9/27/1988	-15.5	EB	869.02
9	9/28/1988	-15.5	EB	869.02
9	9/29/1988	-15.5	EB	869.02
9	9/30/1988	-15.5	EB	869.02
10	10/1/1988	-15.5	EB	869.02
10	10/2/1988	-16	EB	868.97
10	10/3/1988	-16	EB	868.97
10	10/4/1988	-16.5	EB	868.93
10	10/5/1988	-16.5	EB	868.93
10	10/6/1988	-17	EB	868.89
10	10/7/1988	-17.5	EB	868.85
10	10/8/1988	-17.5	EB	868.85
10	10/9/1988	-17.5	EB	868.85
10	10/10/1988	-17.5	EB	868.85
10	10/11/1988	-18	EB	868.81
10	10/12/1988	-18	EB	868.81
10	10/13/1988	-18	EB	868.81
10	10/14/1988	-18	EB	868.81
10	10/15/1988	-18	EB	868.81
10	10/16/1988	-18	EB	868.81
10	10/17/1988	-18	EB	868.81
10	10/18/1988	-18	EB	868.81
10	10/19/1988	-18	EB	868.81
10	10/20/1988	-18	EB	868.81
10	10/21/1988	-18	EB	868.81
10	10/22/1988	-18	EB	868.81
10	10/23/1988	-18	EB	868.81
10	10/24/1988	-18	EB	868.81
10	10/25/1988	-18	EB	868.81
10	10/26/1988	-18	EB	868.81
10	10/27/1988	-18	EB	868.81
10	10/28/1988	-18	EB	868.81
10	10/29/1988	-18	EB	868.81
10	10/30/1988	-18	EB	868.81
10	10/31/1988	-20	EB	868.64
4	4/1/1989	7	EB	870.89
4	4/2/1989	8	EB	870.97
4	4/3/1989	9	EB	871.06
4	4/4/1989	10	EB	871.14
4	4/5/1989	11	EB	871.22
4	4/6/1989	13	EB	871.39
4	4/7/1989	13	EB	871.39
4	4/8/1989	13	EB	871.39
4	4/9/1989	13	EB	871.39
4	4/10/1989	13	EB	871.39
4	4/11/1989	13.5	EB	871.43
4	4/12/1989	13.5	EB	871.43
4	4/13/1989	13.5	EB	871.43
4	4/14/1989	13.5	EB	871.43
4	4/15/1989	13.5	EB	871.43
4	4/16/1989	13	EB	871.39
4	4/17/1989	13	EB	871.39
4	4/18/1989	13	EB	871.39
4	4/19/1989	13.5	EB	871.43
4	4/20/1989	13.5	EB	871.43
4	4/21/1989	13	EB	871.39

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similiar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
5	5/19/2000	-19.5	BH	869.14
5	5/22/2000	-11	EB	869.39
5	5/30/2000	-11	EB	869.39
6	6/6/2000	-11.5	WB	869.64
6	6/8/2000	-4	EB	869.97
6	6/17/2000	-11.5	WB	869.64
6	6/19/2000	-3	EB	870.06
6	6/22/2000	-8	WB	869.93
6	6/23/2000	-2	EB	870.14
6	6/27/2000	-7	BH	870.18
7	7/10/2000	-2	EB	870.14
7	7/24/2000	-6	EB	869.81
7	7/26/2000	-12.5	WB	869.56
7	7/31/2000	-6	EB	869.81
8	8/3/2000	-6	EB	869.81
8	8/10/2000	-6	EB	869.81
8	8/21/2000	-7.5	EB	869.68
8	8/29/2000	-7	EB	869.72
9	9/1/2000	-14	BH	869.6
9	9/7/2000	-9	EB	869.56
9	9/14/2000	-7.5	EB	869.68
9	9/26/2000	-7	EB	869.72
10	10/3/2000	-8	EB	869.64
10	10/5/2000	13.5	WB	871.73
10	10/6/2000	13	WB	871.68
10	10/17/2000	-14	WB	869.43
4	4/19/2001	3	WB	870.85
4	4/25/2001	3.5	WB	870.89
5	5/8/2001	8	EB	870.97
5	5/15/2001	0.5	BH	870.81
5	5/16/2001	2	BH	870.93
5	5/17/2001	3.5	BH	871.06
5	5/19/2001	5	BH	871.18
5	5/27/2001	14	EB	871.47
6	6/4/2001	14	EB	871.47
6	6/5/2001	7	WB	871.18
6	6/14/2001	13	EB	871.39
6	6/19/2001	4.5	BH	871.14
6	6/25/2001	10	EB	871.14
6	6/27/2001	3	WB	870.85
7	7/6/2001	1.5	WB	870.73
7	7/15/2001	-0.5	WB	870.56
7	7/17/2001	6	WB	871.1
7	7/19/2001	-1	WB	870.52
7	7/21/2001	0	WB	870.6
7	7/22/2001	1	WB	870.68
7	7/31/2001	8	EB	870.97
8	8/4/2001	1	WB	870.68
8	8/8/2001	-0.5	EB	870.27
8	8/13/2001	5.5	EB	870.77
8	8/23/2001	5	EB	870.72
8	8/27/2001	5	EB	870.72
8	8/29/2001	-2	WB	870.43
9	9/11/2001	3	EB	870.56
9	9/17/2001	2	EB	870.47
10	10/1/2001	3	EB	870.56
10	10/22/2001	7	EB	870.89
4	4/8/2002	17	EB	871.72
4	4/10/2002	19	EB	871.89
4	4/13/2002	20	EB	871.97
4	4/17/2002	20	EB	871.97
4	4/19/2002	19	EB	871.89
4	4/27/2002	16	EB	871.64
5	5/1/2002	9	WB	871.35
5	5/4/2002	16	EB	871.64
5	5/8/2002	8	WB	871.27
5	5/15/2002	20	EB	871.97
5	5/21/2002	17	EB	871.72
5	5/28/2002	14	EB	871.47
5	5/29/2002	16	EB	871.64
6	6/7/2002	13	EB	871.39
6	6/10/2002	13	EB	871.39

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
4	4/22/1989	13	EB	871.39
4	4/23/1989	13	EB	871.39
4	4/24/1989	12.5	EB	871.35
4	4/25/1989	12.5	EB	871.35
4	4/26/1989	14	EB	871.47
4	4/27/1989	15	EB	871.56
4	4/28/1989	0	EB	870.31
4	4/29/1989	0	EB	870.31
4	4/30/1989	0	EB	870.31
5	5/1/1989	13.5	EB	871.43
5	5/2/1989	13	EB	871.39
5	5/3/1989	13	EB	871.39
5	5/4/1989	13	EB	871.39
5	5/5/1989	13	EB	871.39
5	5/6/1989	12.5	EB	871.35
5	5/7/1989	12.5	EB	871.35
5	5/8/1989	12	EB	871.31
5	5/9/1989	12	EB	871.31
5	5/10/1989	12.5	EB	871.35
5	5/11/1989	13	EB	871.39
5	5/12/1989	13	EB	871.39
5	5/13/1989	13	EB	871.39
5	5/14/1989	12.5	EB	871.35
5	5/15/1989	12.5	EB	871.35
5	5/16/1989	12	EB	871.31
5	5/17/1989	12	EB	871.31
5	5/18/1989	12	EB	871.31
5	5/19/1989	12	EB	871.31
5	5/20/1989	12	EB	871.31
5	5/21/1989	12	EB	871.31
5	5/22/1989	12	EB	871.31
5	5/23/1989	12	EB	871.31
5	5/24/1989	12	EB	871.31
5	5/25/1989	12	EB	871.31
5	5/26/1989	18	EB	871.81
5	5/27/1989	18	EB	871.81
5	5/28/1989	18	EB	871.81
5	5/29/1989	18	EB	871.81
5	5/30/1989	18	EB	871.81
5	5/31/1989	18	EB	871.81
6	6/1/1989	18	EB	871.81
6	6/2/1989	18	EB	871.81
6	6/3/1989	18.5	EB	871.85
6	6/4/1989	18.5	EB	871.85
6	6/5/1989	19	EB	871.89
6	6/6/1989	19.5	EB	871.93
6	6/7/1989	19	EB	871.89
6	6/8/1989	18	EB	871.81
6	6/9/1989	18	EB	871.81
6	6/10/1989	18	EB	871.81
6	6/11/1989	17.5	EB	871.77
6	6/12/1989	17	EB	871.72
6	6/13/1989	16	EB	871.64
6	6/14/1989	15	EB	871.56
6	6/15/1989	14	EB	871.47
6	6/16/1989	13.5	EB	871.43
6	6/17/1989	13	EB	871.39
6	6/18/1989	12.5	EB	871.35
6	6/19/1989	12	EB	871.31
6	6/20/1989	11.5	EB	871.27
6	6/21/1989	11	EB	871.22
6	6/22/1989	11	EB	871.22
6	6/23/1989	11	EB	871.22
6	6/24/1989	11	EB	871.22
6	6/25/1989	11	EB	871.22
6	6/26/1989	11	EB	871.22
6	6/27/1989	11	EB	871.22
6	6/28/1989	11	EB	871.22
6	6/29/1989	11.5	EB	871.27
6	6/30/1989	11.5	EB	871.27
7	7/1/1989	11	EB	871.22
7	7/2/1989	11	EB	871.22

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
6	6/13/2002	12	EB	871.31
6	6/17/2002	11	EB	871.22
6	6/20/2002	10	EB	871.14
6	6/21/2002	10	EB	871.14
6	6/28/2002	9	EB	871.06
7	7/1/2002	8	EB	870.97
7	7/15/2002	4	EB	870.64
7	7/23/2002	3	EB	870.56
8	8/1/2002	1	EB	870.39
8	8/5/2002	0	EB	870.31
8	8/6/2002	-6.5	WB	870.06
8	8/14/2002	-8.5	EB	869.6
8	8/26/2002	-3	EB	870.06
9	9/9/2002	-6	EB	869.81
9	9/16/2002	-7	EB	869.72
9	9/23/2002	-7.5	EB	869.68
10	10/8/2002	-8	EB	869.64
10	10/15/2002	-8	EB	869.64
10	10/22/2002	-8.5	EB	869.6
4	4/13/2003	15	EB	871.56
4	4/20/2003	13	EB	871.39
5	5/6/2003	14	EB	871.47
5	5/9/2003	17	EB	871.72
5	5/13/2003	19	EB	871.89
5	5/16/2003	18	EB	871.81
7	7/2/2003	11	EB	871.22
7	7/8/2003	24	EB	872.31
7	7/9/2003	28	EB	872.64
7	7/10/2003	28	EB	872.64
7	7/12/2003	20	EB	871.97
7	7/13/2003	20	EB	871.97
7	7/14/2003	20	EB	871.97
7	7/17/2003	17.5	EB	871.77
7	7/22/2003	17	EB	871.72
7	7/24/2003	18	EB	871.81
7	7/25/2003	17	EB	871.72
7	7/29/2003	15.5	EB	871.6
7	7/31/2003	14.5	EB	871.52
8	8/3/2003	19	EB	871.89
8	8/4/2003	19	EB	871.89
8	8/6/2003	18	EB	871.81
8	8/8/2003	17	EB	871.72
8	8/9/2003	16	EB	871.64
8	8/10/2003	16	EB	871.64
8	8/11/2003	16	EB	871.64
8	8/14/2003	15	EB	871.56
8	8/22/2003	12	EB	871.31
8	8/27/2003	11	EB	871.22
8	8/30/2003	16	EB	871.64
8	8/31/2003	16	EB	871.64
9	9/1/2003	16	EB	871.64
9	9/3/2003	18	EB	871.81
9	9/6/2003	15	EB	871.56
9	9/7/2003	15	EB	871.56
9	9/8/2003	15	EB	871.56
9	9/10/2003	14	EB	871.47
9	9/12/2003	14	EB	871.47
9	9/17/2003	12	EB	871.31
9	9/26/2003	11	EB	871.22
10	10/2/2003	12	EB	871.31
10	10/4/2003	12	EB	871.31
10	10/5/2003	12	EB	871.31
10	10/6/2003	12	EB	871.31
10	10/8/2003	12	EB	871.31
10	10/11/2003	12	EB	871.31
10	10/12/2003	12	EB	871.31
10	10/13/2003	12	EB	871.31
10	10/14/2003	12	EB	871.31
10	10/27/2003	12	EB	871.31
4	4/7/2004	13	EB	871.39
4	4/15/2004	12	EB	871.31
5	5/11/2004	10	EB	871.14

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
7	7/3/1989	10.5	EB	871.18
7	7/4/1989	10.5	EB	871.18
7	7/5/1989	10	EB	871.14
7	7/6/1989	10	EB	871.14
7	7/7/1989	10	EB	871.14
7	7/8/1989	10	EB	871.14
7	7/9/1989	10	EB	871.14
7	7/10/1989	10	EB	871.14
7	7/11/1989	10	EB	871.14
7	7/12/1989	9.5	EB	871.1
7	7/13/1989	9.5	EB	871.1
7	7/14/1989	9.5	EB	871.1
7	7/15/1989	9	EB	871.06
7	7/16/1989	9	EB	871.06
7	7/17/1989	14	EB	871.47
7	7/18/1989	16.5	EB	871.68
7	7/19/1989	17	EB	871.72
7	7/20/1989	17	EB	871.72
7	7/21/1989	16.5	EB	871.68
7	7/22/1989	17	EB	871.72
7	7/23/1989	17	EB	871.72
7	7/24/1989	16.5	EB	871.68
7	7/25/1989	16	EB	871.64
7	7/26/1989	16	EB	871.64
7	7/27/1989	16	EB	871.64
7	7/28/1989	15.5	EB	871.6
7	7/29/1989	15.5	EB	871.6
7	7/30/1989	15	EB	871.56
7	7/31/1989	14	EB	871.47
8	8/1/1989	13.5	EB	871.43
8	8/2/1989	13	EB	871.39
8	8/3/1989	13	EB	871.39
8	8/4/1989	12.5	EB	871.35
8	8/5/1989	12.5	EB	871.35
8	8/6/1989	12	EB	871.31
8	8/7/1989	12	EB	871.31
8	8/8/1989	11	EB	871.22
8	8/9/1989	10.5	EB	871.18
8	8/10/1989	10	EB	871.14
8	8/11/1989	9.5	EB	871.1
8	8/12/1989	9	EB	871.06
8	8/13/1989	8.5	EB	871.02
8	8/14/1989	8	EB	870.97
8	8/15/1989	8	EB	870.97
8	8/16/1989	8	EB	870.97
8	8/17/1989	7.5	EB	870.93
8	8/18/1989	7.5	EB	870.93
8	8/19/1989	7	EB	870.89
8	8/20/1989	6.5	EB	870.85
8	8/21/1989	6	EB	870.81
8	8/22/1989	5.5	EB	870.77
8	8/23/1989	5.5	EB	870.77
8	8/24/1989	5.5	EB	870.77
8	8/25/1989	5	EB	870.72
8	8/26/1989	5	EB	870.72
8	8/27/1989	4	EB	870.64
8	8/28/1989	4	EB	870.64
8	8/29/1989	4	EB	870.64
8	8/30/1989	4	EB	870.64
8	8/31/1989	4	EB	870.64
9	9/1/1989	3.5	EB	870.6
9	9/2/1989	3.5	EB	870.6
9	9/3/1989	3.5	EB	870.6
9	9/4/1989	3	EB	870.56
9	9/5/1989	3	EB	870.56
9	9/6/1989	2.5	EB	870.52
9	9/7/1989	2	EB	870.47
9	9/8/1989	2	EB	870.47
9	9/9/1989	2	EB	870.47
9	9/10/1989	2	EB	870.47
9	9/11/1989	2	EB	870.47
9	9/12/1989	2	EB	870.47

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
6	6/3/2004	10	EB	871.14
6	6/13/2004	14	EB	871.47
6	6/16/2004	16	EB	871.64
6	6/23/2004	15	EB	871.56
6	6/30/2004	13	EB	871.39
7	7/9/2004	10	EB	871.14
7	7/17/2004	8	EB	870.97
7	7/18/2004	8	EB	870.97
7	7/19/2004	8	EB	870.97
7	7/28/2004	8	EB	870.97
8	8/3/2004	8	EB	870.97
8	8/14/2004	6	EB	870.81
8	8/15/2004	6	EB	870.81
8	8/16/2004	6	EB	870.81
8	8/21/2004	6	EB	870.81
8	8/22/2004	6	EB	870.81
8	8/23/2004	6	EB	870.81
8	8/31/2004	6	EB	870.81
9	9/10/2004	4	EB	870.64
9	9/21/2004	2	EB	870.47
10	10/7/2004	0	EB	870.31
10	10/21/2004	0	EB	870.31
4	4/4/2005	14	EB	871.47
4	4/22/2005	12	EB	871.31
4	4/26/2005	18	EB	871.81
4	4/28/2005	18	EB	871.81
5	5/8/2005	15	EB	871.56
5	5/11/2005	14	EB	871.47
5	5/16/2005	16	EB	871.64
5	5/17/2005	12	EB	871.31
5	5/26/2005	12	EB	871.31
5	5/31/2005	10	EB	871.14
6	6/7/2005	10	EB	871.14
6	6/21/2005	7	EB	870.89
6	6/28/2005	5	EB	870.72
6	6/30/2005	8	EB	870.97
7	7/8/2005	6	EB	870.81
7	7/15/2005	4	EB	870.64
7	7/28/2005	4	EB	870.64
8	8/2/2005	2	EB	870.47
8	8/17/2005	1	EB	870.39
8	8/26/2005	-1	EB	870.22
8	8/29/2005	-2	EB	870.14
9	9/1/2005	0	EB	870.31
9	9/13/2005	-1	EB	870.22
9	9/21/2005	0	EB	870.31
9	9/24/2005	2	EB	870.47
9	9/30/2005	8	EB	870.97
10	10/4/2005	7	EB	870.89
10	10/13/2005	6	EB	870.81
10	10/27/2005	7	EB	870.89
4	4/15/2006	16	EB	871.64
4	4/20/2006	15	EB	871.56
5	5/3/2006	12	EB	871.31
5	5/6/2006	12	EB	871.31
5	5/7/2006	12	EB	871.31
5	5/8/2006	12	EB	871.31
5	5/13/2006	16	EB	871.64
5	5/14/2006	16	EB	871.64
5	5/15/2006	16	EB	871.64
5	5/23/2006	15	EB	871.56
6	6/3/2006	25	EB	872.39
6	6/4/2006	21	EB	872.06
6	6/5/2006	21	EB	872.06
6	6/8/2006	20	EB	871.97
6	6/10/2006	18	EB	871.81
6	6/11/2006	18	EB	871.81
6	6/12/2006	18	EB	871.81
6	6/14/2006	17	EB	871.72
6	6/20/2006	14	EB	871.47
6	6/23/2006	15	EB	871.56
6	6/26/2006	14	EB	871.47

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
9	9/13/1989	2	EB	870.47
9	9/14/1989	2	EB	870.47
9	9/15/1989	3	EB	870.56
9	9/16/1989	3.5	EB	870.6
9	9/17/1989	3.5	EB	870.6
9	9/18/1989	4	EB	870.64
9	9/19/1989	4	EB	870.64
9	9/20/1989	4	EB	870.64
9	9/21/1989	4	EB	870.64
9	9/22/1989	4	EB	870.64
9	9/23/1989	4	EB	870.64
9	9/24/1989	4	EB	870.64
9	9/25/1989	4	EB	870.64
9	9/26/1989	4	EB	870.64
9	9/27/1989	4	EB	870.64
9	9/28/1989	4	EB	870.64
9	9/29/1989	3	EB	870.56
9	9/30/1989	3	EB	870.56
10	10/1/1989	3.5	EB	870.6
10	10/2/1989	3.5	EB	870.6
10	10/3/1989	3	EB	870.56
10	10/4/1989	3	EB	870.56
10	10/5/1989	2.5	EB	870.52
10	10/6/1989	2.5	EB	870.52
10	10/7/1989	2	EB	870.47
10	10/8/1989	1.5	EB	870.43
10	10/9/1989	1.5	EB	870.43
10	10/10/1989	0	EB	870.31
10	10/11/1989	0	EB	870.31
10	10/12/1989	0	EB	870.31
10	10/13/1989	0	EB	870.31
10	10/14/1989	0	EB	870.31
10	10/15/1989	0	EB	870.31
10	10/16/1989	0	EB	870.31
10	10/17/1989	0	EB	870.31
10	10/18/1989	0	EB	870.31
10	10/19/1989	0	EB	870.31
10	10/20/1989	0	EB	870.31
10	10/21/1989	0	EB	870.31
10	10/22/1989	0	EB	870.31
10	10/23/1989	0	EB	870.31
10	10/24/1989	0.5	EB	870.35
10	10/25/1989	0.5	EB	870.35
10	10/26/1989	0.5	EB	870.35
10	10/27/1989	0.5	EB	870.35
10	10/28/1989	0.5	EB	870.35
10	10/29/1989	0.5	EB	870.35
10	10/30/1989	0.5	EB	870.35
10	10/31/1989	0.5	EB	870.35
4	4/13/1990	13	EB	871.39
4	4/16/1990	14	EB	871.47
4	4/19/1990	13	EB	871.39
4	4/23/1990	12	EB	871.31
4	4/30/1990	11	EB	871.22
5	5/13/1990	14	EB	871.47
5	5/14/1990	15	EB	871.56
5	5/21/1990	18	EB	871.81
5	5/23/1990	17	EB	871.72
5	5/30/1990	15	EB	871.56
6	6/4/1990	14	EB	871.47
6	6/7/1990	12	EB	871.31
6	6/11/1990	16	EB	871.64
6	6/25/1990	12	EB	871.31
7	7/1/1990	12	EB	871.31
7	7/2/1990	12	EB	871.31
7	7/3/1990	12	EB	871.31
7	7/4/1990	12	EB	871.31
7	7/5/1990	12	EB	871.31
7	7/6/1990	12	EB	871.31
7	7/7/1990	12	EB	871.31
7	7/8/1990	12	EB	871.31
7	7/9/1990	12	EB	871.31

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
7	7/7/2006	10	EB	871.14
7	7/13/2006	10	EB	871.14
7	7/19/2006	10	EB	871.14
7	7/22/2006	9	EB	871.06
7	7/23/2006	9	EB	871.06
7	7/24/2006	9	EB	871.06
8	8/3/2006	14	EB	871.47
8	8/10/2006	11	EB	871.22
8	8/17/2006	8	EB	870.97
8	8/19/2006	8	EB	870.97
8	8/20/2006	8	EB	870.97
8	8/21/2006	8	EB	870.97
	Average	**7.42**		**870.96**

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
7	7/10/1990	9	EB	871.06
7	7/11/1990	9	EB	871.06
7	7/12/1990	9	EB	871.06
7	7/13/1990	9	EB	871.06
7	7/14/1990	18	EB	871.81
7	7/15/1990	18	EB	871.81
7	7/16/1990	18	EB	871.81
7	7/17/1990	18	EB	871.81
7	7/18/1990	18	EB	871.81
7	7/19/1990	18	EB	871.81
7	7/20/1990	18	EB	871.81
7	7/21/1990	18	EB	871.81
7	7/22/1990	18	EB	871.81
7	7/23/1990	21	EB	872.06
7	7/24/1990	21	EB	872.06
7	7/25/1990	21	EB	872.06
7	7/26/1990	20.5	EB	872.02
7	7/27/1990	20.5	EB	872.02
7	7/28/1990	20.5	EB	872.02
7	7/29/1990	20.5	EB	872.02
7	7/30/1990	20.5	EB	872.02
7	7/31/1990	20.5	EB	872.02
8	8/7/1990	13	EB	871.39
8	8/8/1990	13	EB	871.39
8	8/10/1990	12	EB	871.31
8	8/17/1990	11	EB	871.22
8	8/20/1990	12	EB	871.31
8	8/23/1990	14	EB	871 47
8	8/27/1990	13.5	EB	871.43
9	9/11/1990	12	EB	871.31
9	9/20/1990	11	EB	871.22
9	9/27/1990	9.5	EB	871.1
10	10/1/1990	8	EB	870.97
10	10/12/1990	10	EB	871.14
10	10/16/1990	10	EB	871.14
10	10/22/1990	10	EB	871.14
10	10/29/1990	9	EB	871.06
4	4/2/1991	10	EB	871.14
4	4/11/1991	7	EB	870.89
4	4/25/1991	10	EB	871.14
5	5/3/1991	9.5	EB	871.1
5	5/22/1991	7.5	EB	870.93
6	6/3/1991	11.5	EB	871.27
6	6/16/1991	8	EB	870.97
6	6/26/1991	5	EB	870.72
7	7/8/1991	5	EB	870.72
7	7/19/1991	3	EB	870.56
7	7/26/1991	2	EB	870.47
8	8/1/1991	0	EB	870.31
8	8/7/1991	-2	EB	870.14
8	8/12/1991	-3	EB	870.06
8	8/23/1991	-3.5	EB	870.02
8	8/26/1991	-4	EB	869.97
9	9/19/1991	-6	EB	869.81
9	9/30/1991	-8	EB	869.64
10	10/16/1991	-10	EB	869.47
10	10/30/1991	-9	EB	869.56
4	4/6/1992	-1	EB	870.22
4	4/20/1992	2	EB	870.47
4	4/22/1992	6.5	EB	870.85
4	4/28/1992	6	EB	870.81
5	5/18/1992	5.5	EB	870.77
5	5/28/1992	4	EB	870.64
6	6/8/1992	5	EB	870.72
6	6/16/1992	4	EB	870.64
6	6/22/1992	6	EB	870.81
7	7/13/1992	12	EB	871.31
7	7/15/1992	18.5	EB	871.85
7	7/19/1992	24.5	EB	872.35
7	7/21/1992	23.5	EB	872.27
7	7/22/1992	22	EB	872.14
7	7/24/1992	25	EB	872.39

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similiar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
7	7/25/1992	25	EB	872.39
7	7/26/1992	25	EB	872.39
7	7/27/1992	24.5	EB	872.35
7	7/29/1992	24	EB	872.31
7	7/30/1992	22	EB	872.14
7	7/31/1992	24	EB	872.31
8	8/1/1992	23	EB	872.22
8	8/3/1992	21	EB	872.06
8	8/5/1992	20	EB	871.97
8	8/6/1992	19	EB	871.89
8	8/7/1992	18.5	EB	871.85
8	8/10/1992	16	EB	871.64
8	8/11/1992	16	EB	871.64
8	8/15/1992	14	EB	871.47
8	8/17/1992	14	EB	871.47
8	8/20/1992	12.5	EB	871.35
8	8/22/1992	10	EB	871.14
8	8/29/1992	15.5	EB	871.6
9	9/1/1992	14	EB	871.47
9	9/4/1992	13	EB	871.39
9	9/7/1992	12	EB	871.31
9	9/12/1992	12	EB	871.31
9	9/14/1992	11.5	EB	871.27
9	9/22/1992	11	EB	871.22
9	9/28/1992	10	EB	871.14
10	10/1/1992	8	EB	870.97
10	10/6/1992	7	EB	870.89
10	10/7/1992	6	EB	870.81
10	10/19/1992	3.5	EB	870.6
10	10/21/1992	3	EB	870.56
10	10/28/1992	1	EB	870.39
4	4/12/1993	14	EB	871.47
4	4/15/1993	13	EB	871.39
4	4/19/1993	14	EB	871.47
4	4/22/1993	14	EB	871.47
4	4/27/1993	12	EB	871.31
5	5/1/1993	11	EB	871.22
5	5/10/1993	8	EB	870.97
5	5/26/1993	6	EB	870.81
6	6/11/1993	8	EB	870.97
6	6/28/1993	10	EB	871.14
6	6/29/1993	13	EB	871.39
6	6/30/1993	15	EB	871.56
7	7/2/1993	23	EB	872.22
7	7/3/1993	28	EB	872.64
7	7/4/1993	29	EB	872.72
7	7/5/1993	28	EB	872.64
7	7/8/1993	26	EB	872.47
7	7/10/1993	25	EB	872.39
7	7/11/1993	24	EB	872.31
7	7/12/1993	25	EB	872.39
7	7/13/1993	24.5	EB	872.35
7	7/17/1993	22	EB	872.14
7	7/19/1993	23	EB	872.22
7	7/20/1993	23	EB	872.22
7	7/21/1993	22	EB	872.14
7	7/23/1993	20.5	EB	872.02
7	7/27/1993	18	EB	871.81
7	7/31/1993	15	EB	871.56
8	8/3/1993	14	EB	871.47
8	8/5/1993	14	EB	871.47
8	8/7/1993	12	EB	871.31
8	8/8/1993	12	EB	871.31
8	8/11/1993	11	EB	871.22
8	8/13/1993	10.5	EB	871.18
8	8/14/1993	10	EB	871.14
8	8/17/1993	9	EB	871.06
8	8/23/1993	4	EB	870.64
8	8/24/1993	5	EB	870.72
9	9/1/1993	4	EB	870.64
9	9/8/1993	2	EB	870.47
9	9/22/1993	0	EB	870.31

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
9	9/29/1993	0	EB	870.31
9	9/30/1993	1	EB	870.39
10	10/5/1993	0	EB	870.31
10	10/14/1993	-2	EB	870.14
10	10/19/1993	-2	EB	870.14
4	4/4/1994	-1	EB	870.22
4	4/10/1994	3	EB	870.56
4	4/11/1994	3.5	EB	870.6
4	4/12/1994	5	EB	870.72
4	4/13/1994	8	EB	870.97
4	4/18/1994	8	EB	870.97
5	5/12/1994	7	EB	870.89
5	5/18/1994	6	EB	870.81
5	5/23/1994	4	EB	870.64
5	5/27/1994	4	EB	870.64
6	6/2/1994	2	EB	870.47
6	6/9/1994	0	EB	870.31
6	6/21/1994	-1	EB	870.22
6	6/23/1994	-2	EB	870.14
6	6/27/1994	2	EB	870.47
6	6/30/1994	3	EB	870.56
7	7/1/1994	2	EB	870.47
7	7/5/1994	5	EB	870.72
7	7/6/1994	4	EB	870.64
7	7/11/1994	4	EB	870.64
7	7/20/1994	2	EB	870.47
7	7/25/1994	3	EB	870.56
7	7/26/1994	2	EB	870.47
8	8/1/1994	3.5	EB	870.6
8	8/8/1994	2	EB	870.47
8	8/17/1994	3	EB	870.56
8	8/23/1994	2	EB	870.47
8	8/30/1994	2	EB	870.47
9	9/20/1994	-2	EB	870.14
9	9/30/1994	-2	EB	870.14
10	10/11/1994	-4	EB	869.97
10	10/17/1994	-5	EB	869.89
4	4/1/1995	9	EB	871.06
4	4/10/1995	11	EB	871.22
4	4/11/1995	12	EB	871.31
4	4/17/1995	12.5	EB	871.35
4	4/21/1995	14	EB	871.47
4	4/23/1995	15	EB	871.56
5	5/1/1995	13	EB	871.39
5	5/8/1995	10	EB	871.14
5	5/22/1995	14	EB	871.47
6	6/1/1995	10	EB	871.14
6	6/5/1995	9	EB	871.06
6	6/12/1995	13	EB	871.39
6	6/15/1995	12	EB	871.31
6	6/19/1995	12	EB	871.31
6	6/19/1995	12	EB	871.31
6	6/23/1995	10	EB	871.14
7	7/3/1995	11	EB	871.22
7	7/11/1995	9.5	EB	871.1
7	7/19/1995	7	EB	870.89
7	7/31/1995	10	EB	871.14
8	8/7/1995	12	EB	871.31
8	8/8/1995	14	EB	871.47
8	8/9/1995	16	EB	871.64
8	8/10/1995	16	EB	871.64
8	8/11/1995	17	EB	871.72
8	8/14/1995	15	EB	871.56
8	8/17/1995	14	EB	871.47
8	8/21/1995	13	EB	871.39
8	8/24/1995	10	EB	871.14
8	8/31/1995	9	EB	871.06
9	9/5/1995	7	EB	870.89
9	9/11/1995	6	EB	870.81
9	9/15/1995	6	EB	870.81
9	9/25/1995	4	EB	870.64
10	10/2/1995	3	EB	870.56

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level

Recorded Pool Levels durring non managed months - pre spillway modification

Average Gage Measurement is 5.00 in.
Average Pool Level is 870.72 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level
10	10/6/1995	8	EB	870.97
10	10/10/1995	8	EB	870.97
10	10/17/1995	6	EB	870.81
10	10/30/1995	5.5	EB	870.77
4	4/2/1996	7	EB	870.89
4	4/6/1996	7.5	EB	870.93
4	4/18/1996	7	EB	870.89
4	4/22/1996	7	EB	870.89
4	4/28/1996	12	EB	871.31
5	5/3/1996	16	EB	871.64
5	5/4/1996	16	EB	871.64
5	5/9/1996	19	EB	871.89
5	5/13/1996	19	EB	871.89
5	5/16/1996	17	EB	871.72
5	5/22/1996	14	EB	871.47
5	5/26/1996	14	EB	871.47
5	5/27/1996	15	EB	871.56
5	5/28/1996	14	EB	871.47
5	5/31/1996	14	EB	871.47
6	6/4/1996	12	EB	871.31
6	6/9/1996	14	EB	871.47
6	6/10/1996	15	EB	871.56
6	6/17/1996	14	EB	871.47
6	6/20/1996	12	EB	871.31
6	6/24/1996	12	EB	871.31
6	6/30/1996	10	EB	871.14
7	7/8/1996	8	EB	870.97
7	7/11/1996	6	EB	870.81
7	7/15/1996	7	EB	870.89
7	7/22/1996	9.5	EB	871.1
7	7/23/1996	10	EB	871.14
7	7/31/1996	8	EB	870.97
8	8/7/1996	8	EB	870.97
8	8/12/1996	6	EB	870.81
8	8/19/1996	4	EB	870.64
9	9/3/1996	2	EB	870.47
9	9/11/1996	2	EB	870.47
9	9/18/1996	0	EB	870.31
10	10/10/1996	0	EB	870.31
10	10/16/1996	-3	EB	870.06
	Average	**5.00**		**870.72**

Recorded Pool Levels durring non managed months* - post spillway modification

*note that while the pool was not actively managed during this period, data from the previously managed months was removed in order to compare similiar times of the year

Average Gage Measurement is 7.42 in.
Average Pool Level is 870.96 NGVD

Month	Date	Gage Measurement	Gage Location	Pool Level

Analysis of Rainfall Data from Celina Gage

Sum of Light Rainfall Days	
YEAR	Total
1985	122
1986	115
1987	117
1988	99
1989	111
1990	90
1991	110
1992	111
1993	114
1994	93
1995	98
1996	114
1998	82
1999	87
2000	97
2001	91
2002	98
2003	93
2005	95
2006	106
2007	83

Sum of Medium Rainfall Days	
YEAR	Total
1985	22
1986	18
1987	13
1988	14
1989	21
1990	24
1991	11
1992	16
1993	17
1994	17
1995	17
1996	22
1998	15
1999	16
2000	18
2001	22
2002	12
2003	24
2005	11
2006	17
2007	21

Sum of Severe Rainfall Days	
YEAR	Total
1985	3
1986	11
1987	5
1988	5
1989	10
1990	13
1991	9
1992	11
1993	5
1994	3
1995	8
1996	5
1998	10
1999	3
2000	6
2001	10
2002	7
2003	16
2005	13
2006	9
2007	9

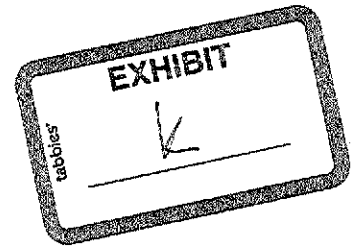
Sum of TOTAL (IN)	
YEAR	Total
1985	35.12
1986	39.84
1987	32.39
1988	29.29
1989	43.16
1990	51.12
1991	34.71
1992	47.68
1993	37.77
1994	30.39
1995	37.18
1996	39.17
1998	37.71
1999	29.55
2000	36.5
2001	39.48
2002	33.35
2003	60.33
2005	38.93
2006	45.62
2007	39.96

		Percent Change
Average Annual Precipitation (in), 1985-1996	38.15	
Average Annual Precipitation (in), 1998-2007*	40.16	5.3%
Average Number of Light Rainfall Days, 1985-1996	108	
Average Number of Light Rainfall Days, 1998-2007*	92	-14.3%
Average Number of Medium Rainfall Days, 1985-1996	18	
Average Number of Medium Rainfall Days, 1998-2007*	17	-1.9%
Average Number of Severe Rainfall Days, 1985-1996	7	
Average Number of Severe Rainfall Days, 1998-2007*	9	25.8%

*(2004 excluded since gage data incomplete)

Light Rainfall Day is 0.01 - 0.49 inch precipitation in 24 hours
Medium Rainfall Day is 0.50 - 0.99 inch precipitation in 24 hours
Severe Rainfall Day is >= 1.00 inch precipitation in 24 hours

Source: Gage data from National Climatic Data Center (NCDC), Daily Surface Data for Celina 3 NE, Ohio Gage (Cooperative Station Number 33-1390)



Attachment not scanned