Norman, Yolande

From: Mark Jancin [mjancin@chesterengineers.com]
Sent: Thursday, June 02, 2011 2:32 PM
To: Norman, Yolande
Cc: Bush, Larry (GE Aviation, US); Blickwedel, Roy (GE, Corporate); Meyer, Matthew; Guo, Lifeng; Arlt, Hans; tedjohnson22@comcast.net
Subject: RE: informal UNC responses for review
Attachments: Z1 attenuation .pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Yolande, you are correct in that NRC never provided written (formal) approval of either of the statistics reports, though EPA did. As the various emails and conference calls on this developed during 2008, NRC was part of the process and informally concurred with where the process went.

I have attached the Power Point presentation on Zone 1 attenuation from Section 2 into Section 1. This is a presentation I was prepared to give at last week's meeting but there was no obvious time in which to insert this into our full agenda, so I never gave it.

We look forward to continuing to work with NRC toward developing a risk assessment report that meets the guidance of NUREG 1620. If I don't hear back from you within the next, say, two weeks, I'll send a reminder that we should set up a conference call on this topic.

Mark

From: Norman, Yolande [mailto:Yolande.Norman@nrc.gov]
Sent: Thursday, June 02, 2011 1:36 PM
To: Mark Jancin
Cc: Bush, Larry (GE Aviation, US); Blickwedel, Roy (GE, Corporate); Meyer, Matthew; Guo, Lifeng; Arlt, Hans; 'tedjohnson22@comcast.net'; Norman, Yolande
Subject: RE: informal UNC responses for review

Hi Mark,

I noticed that in UNC's informal response , that you indicated that "EPA and NRC approved the background statistics report (N.A. Water Systems, October 2008)", could you provide me with any written NRC correspondence. I have checked the NRC records and have not been able to obtain any NRC's correspondence on the approval of this background statistical work. I also conferred with EPA project manager at that time (Mark Purcell) who indicated that the proUCL process was being driven by the EPA with their statistician. Since the project was being transitioned to me in late November 2008, I might have missed something. So it would be very helpful if you could provide me with this information electronically.

Also,

NRC is interested in seeing the information on attenuation i.e. "short PPt presentation on this topic that we can look at if the group is interested" prior to setting up the teleconference call between the NRC and UNC on the HHRA.

The assumption is made that the stated background concentrations and impacted concentrations have been accepted by the EPA.

Jancin: This is not an assumption on the part of UNC – see the EPA, February 11, 2009 letter of approval of the statistical work by UNC. In addition, oral approval was given at the end of a sequence of conference calls, involving all the stakeholder agencies, regarding the statistical work and reporting.

Yolande: During the sequence of conference call in 2009, the NRC considered at that time that the statistical work by UNC would be a good starting point for the update Human Health Risk Assessment but when we reevaluated the data set again, which is our understanding was prepared to satisfy the SWSFS the NRC identified an issue with the data set could potentially underestimate the risk at the site, hence we are trying to understand the rationale as to why some of the higher concentrations were eliminated. We can explore in further discussion.

I have forwarded the technical response to the team and will be proposing a few dates for the teleconference call.

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From: Mark Jancin [mailto:mjancin@chesterengineers.com]
Sent: Thursday, June 02, 2011 12:05 PM
To: Norman, Yolande
Cc: Bush, Larry (GE Aviation, US); Blickwedel, Roy (GE, Corporate)
Subject: informal UNC responses for review

Hi Yolande – attached are NRC's comments of April 20, 2011, on the UNC updated HHRA, with some preliminary responses from UNC/Jancin added in blue. These are for our joint use in planning future risk assessment work for NRC as per NUREG-1620.

Mark

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Project Manager, Geosciences

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Attenuation within Zone 1 into Section 1

- Attenuation demonstrably occurs in two senses: over time at a given location, and downgradient of the eastern part of the Central Cell.
- As examples, we will look at cobalt, nickel, and chloroform.

Albuquerque Technical Meeting, May 24, 2011

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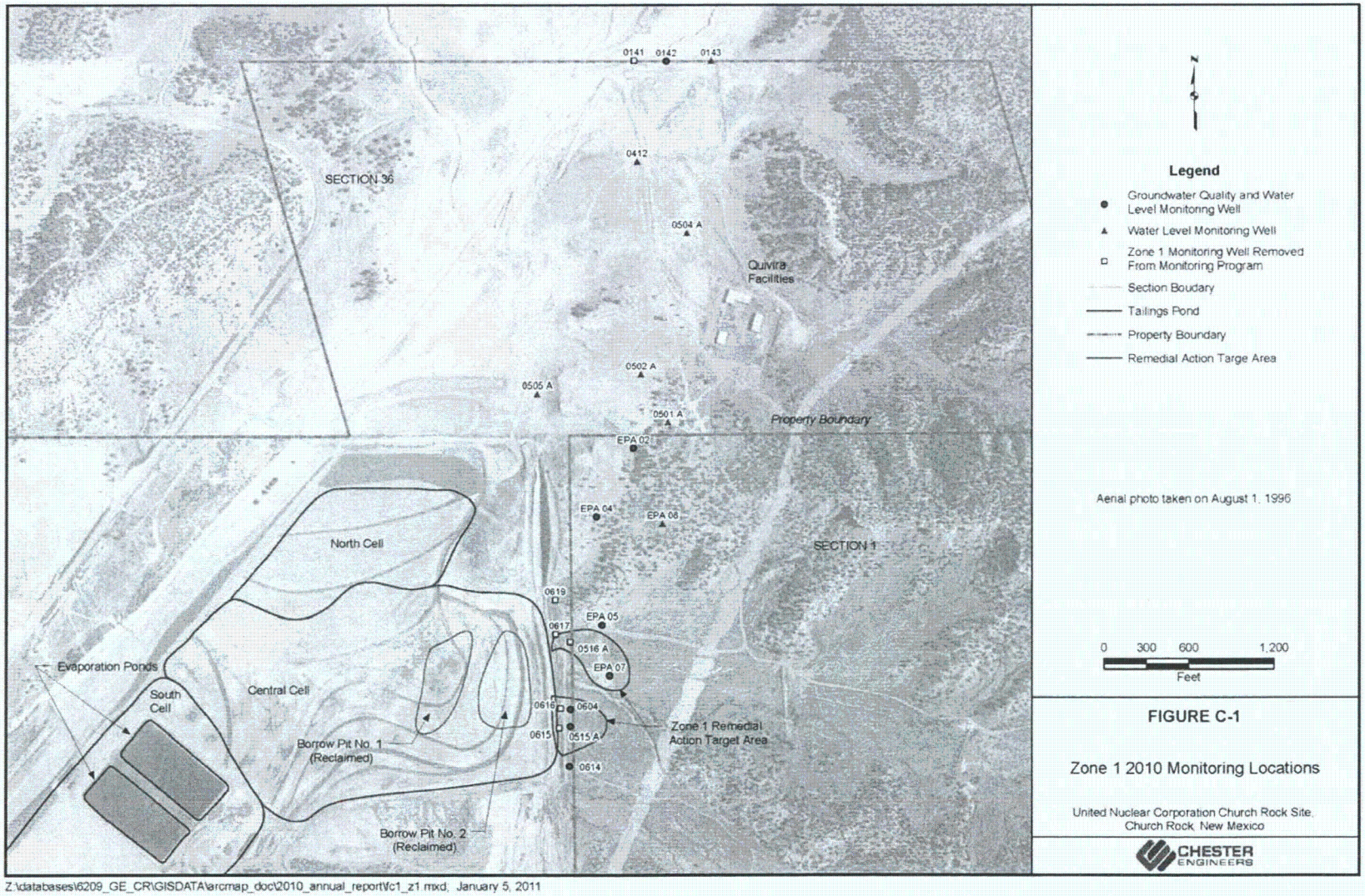
POCs = 604, 614 (Inside Section 2); EPA-4, EPA-5, EPA-7 (Inside Section 1)



Z:\databases\6209_GE_CR\GISDATA\arcmap_doc\2010_annual_report\fc1_z1.mxd, January 5, 2011

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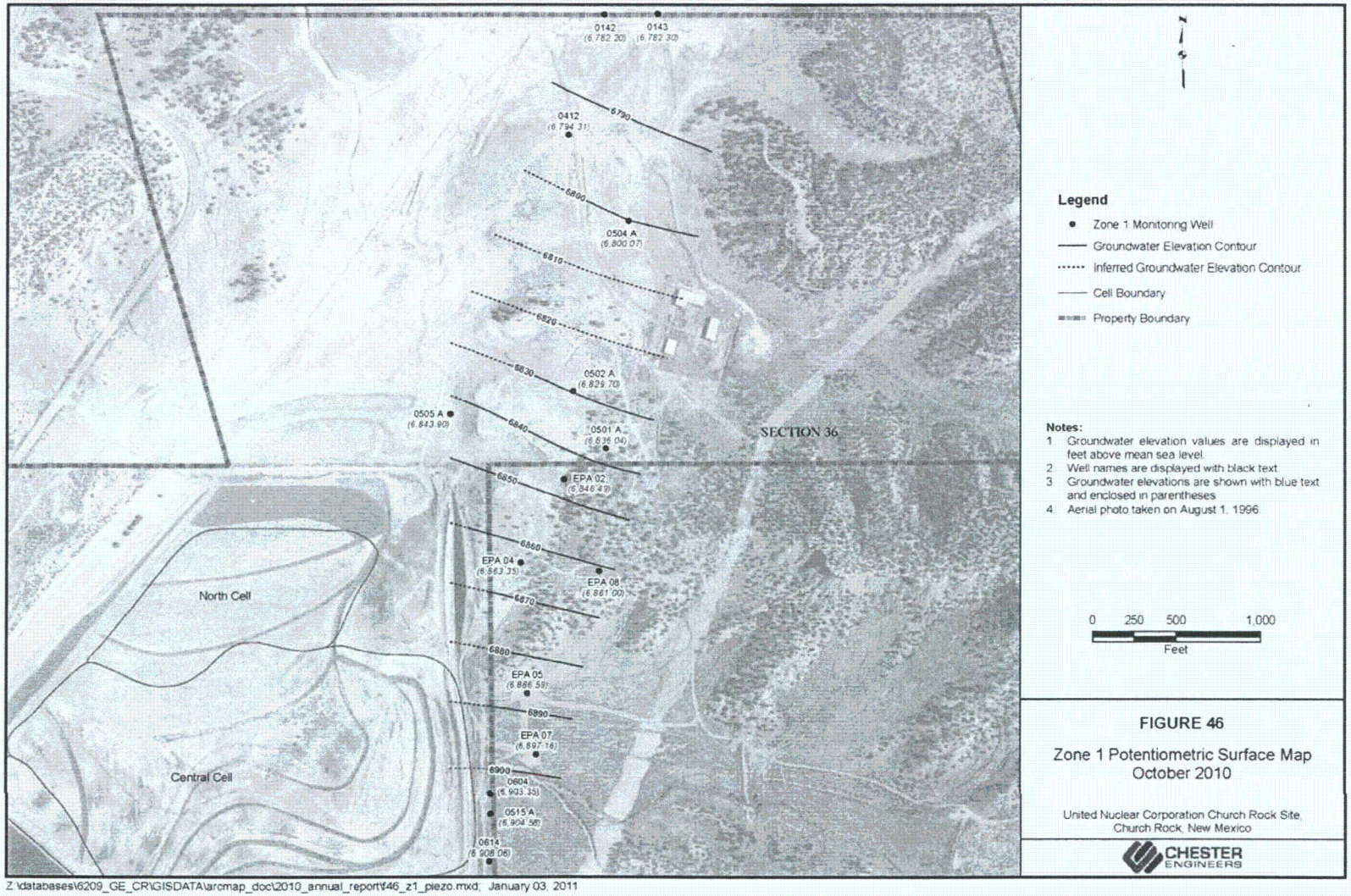
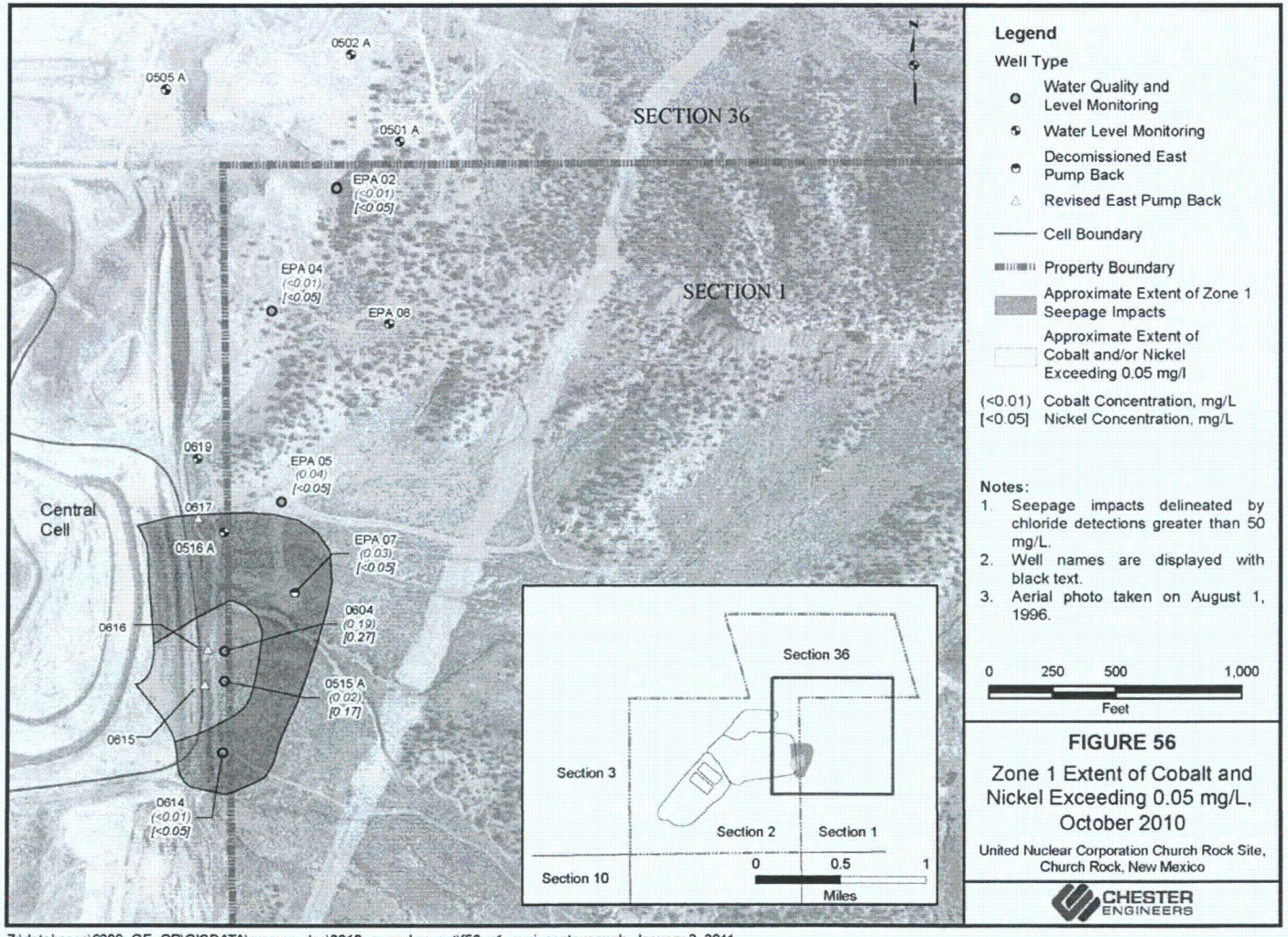
Wells are Located Along Groundwater Flow Field Toward the NNE and NE



Attenuation of Co and Ni Downgradient of Wells 515A and 604



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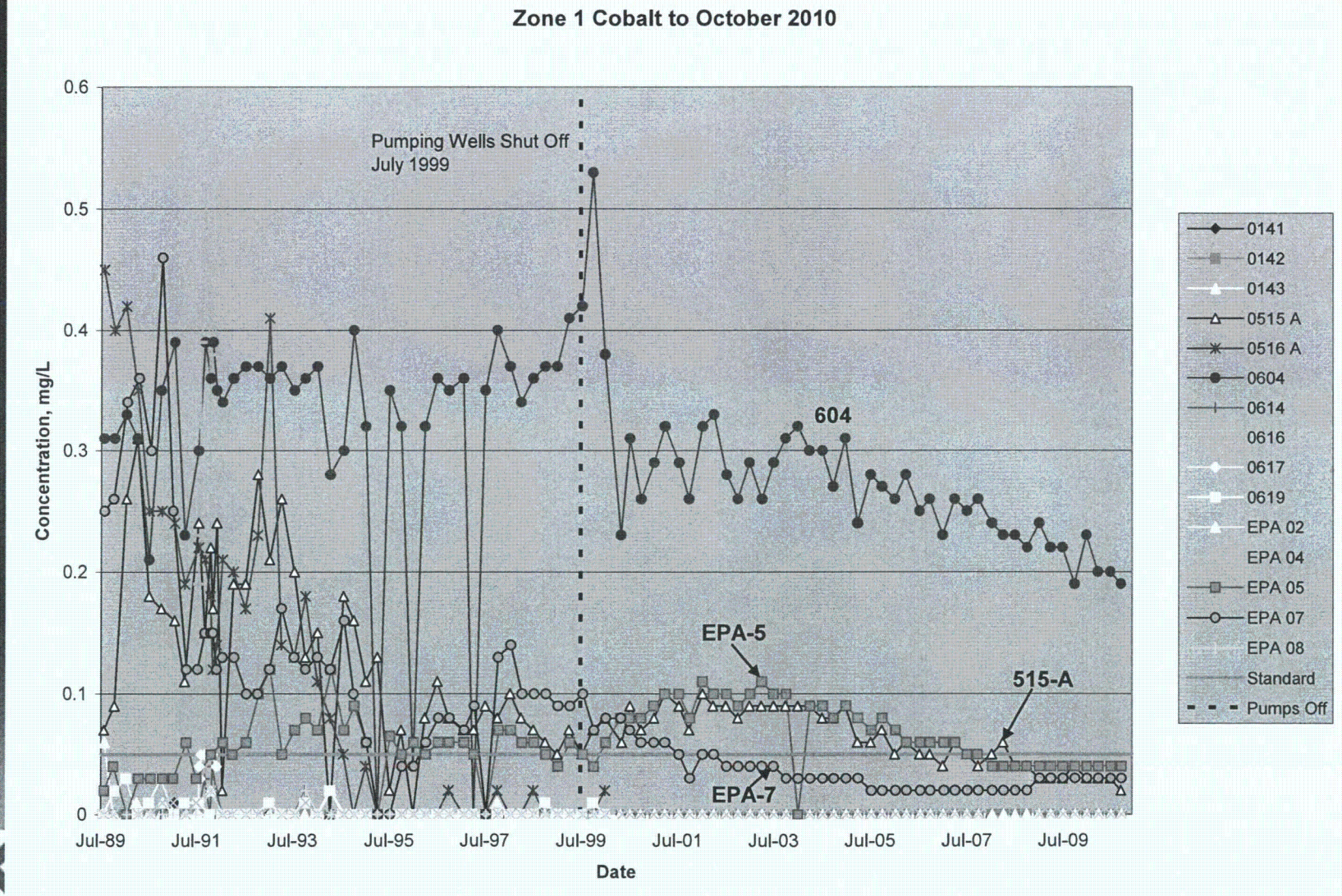
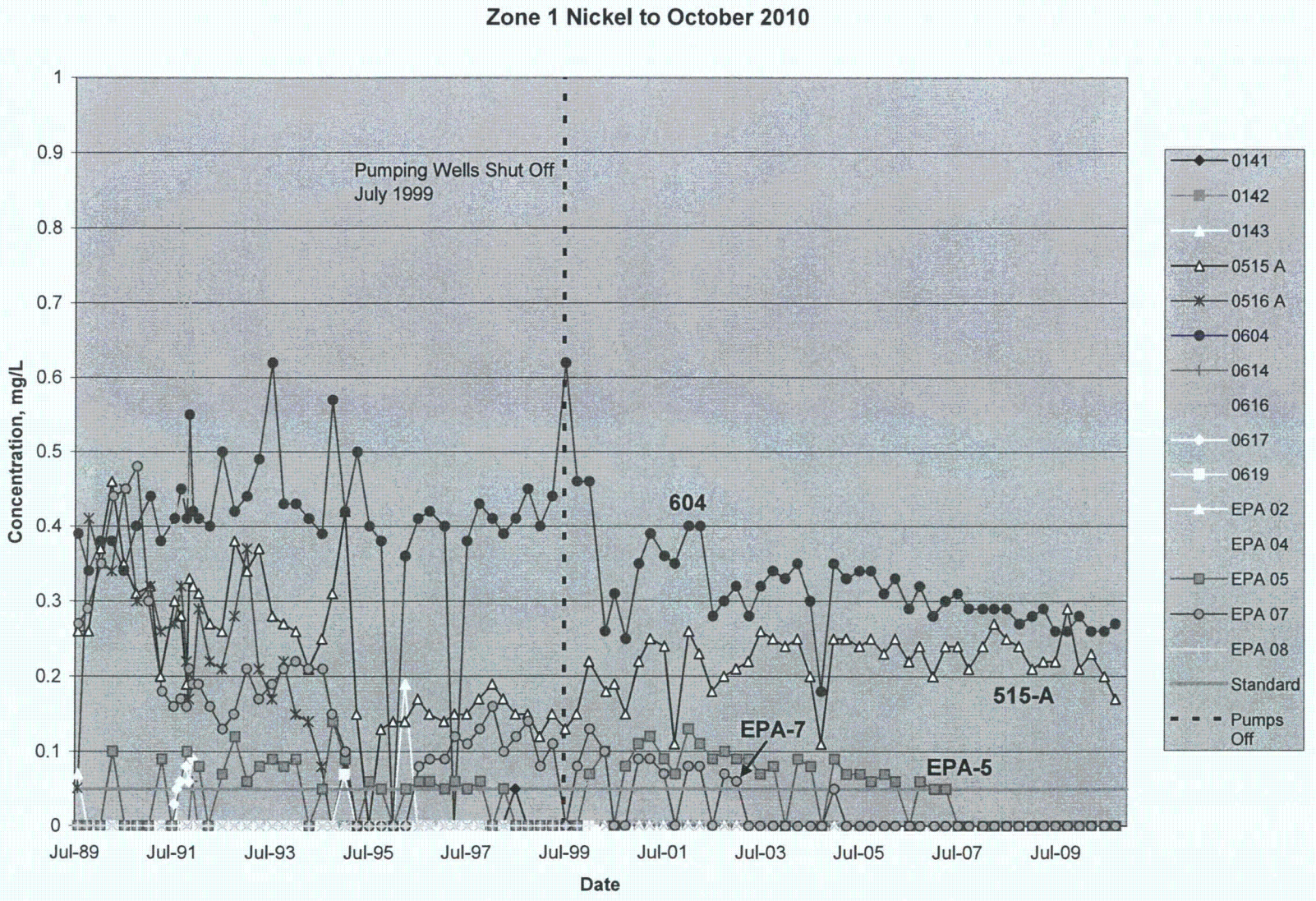
Cobalt Attenuates Both over Time and Downgradient

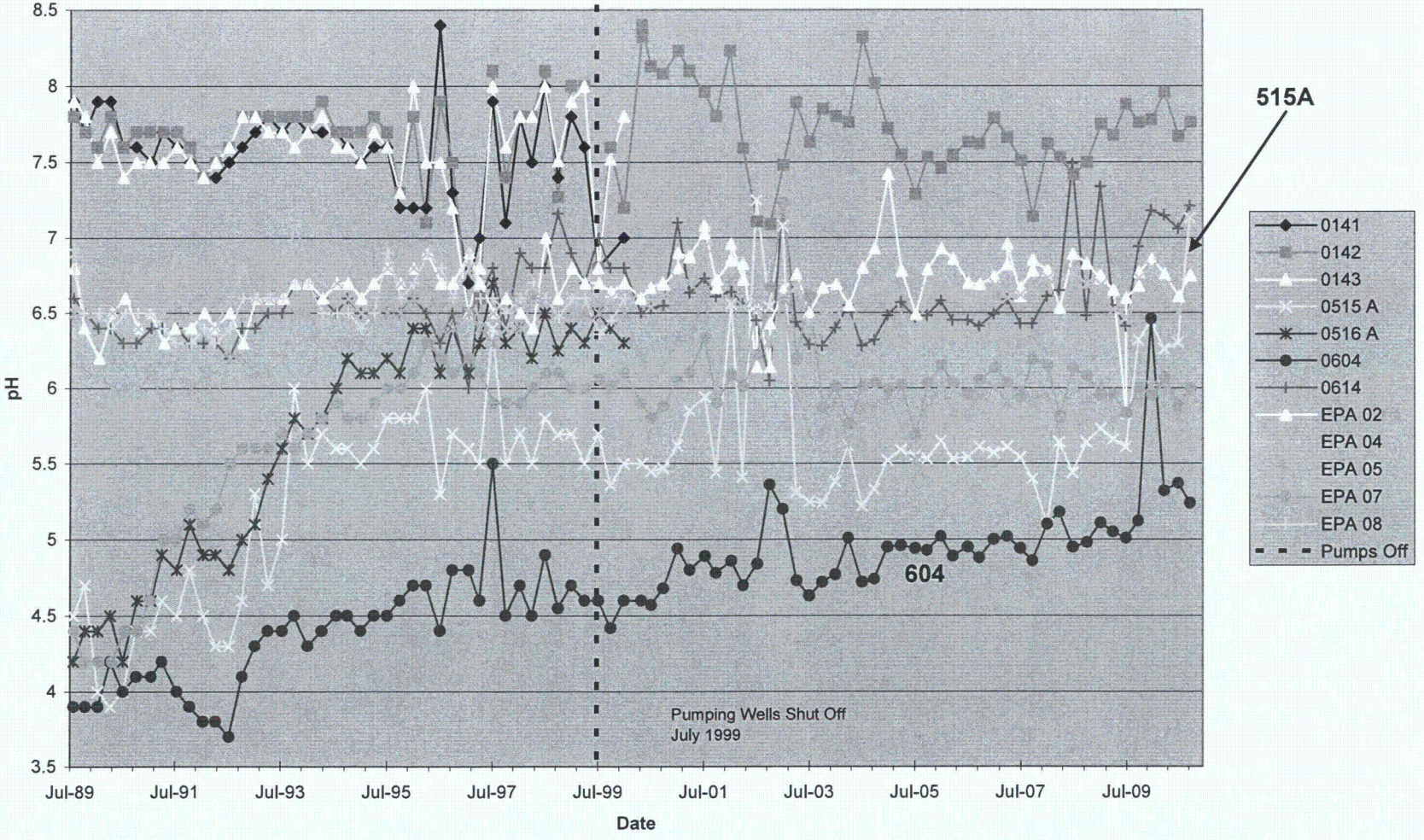


Nickel Attenuates Both over Time and Dowgradient but POC Well 604 Included in ACL Application for Revision of Ni Standard to 0.4 mg/L

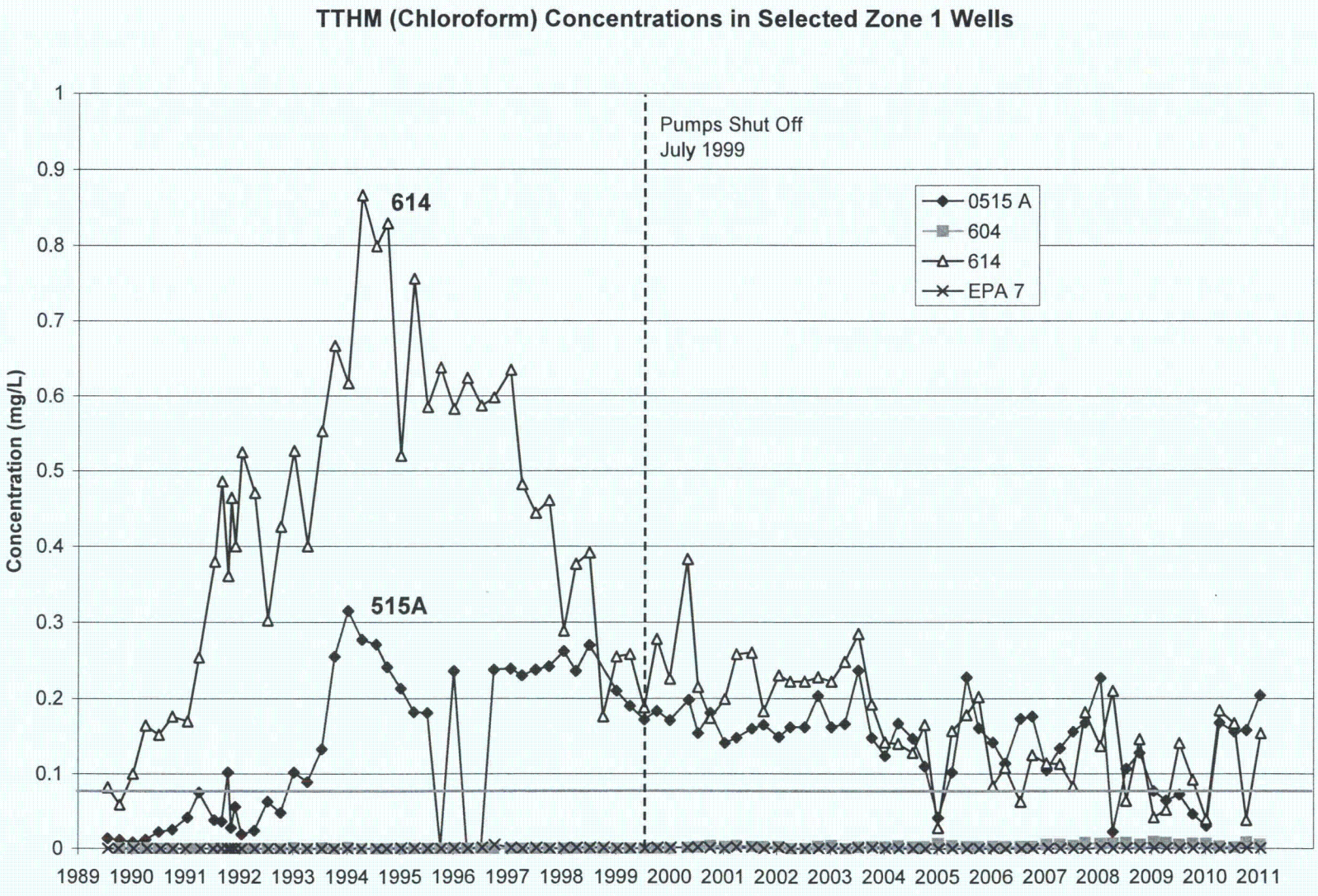


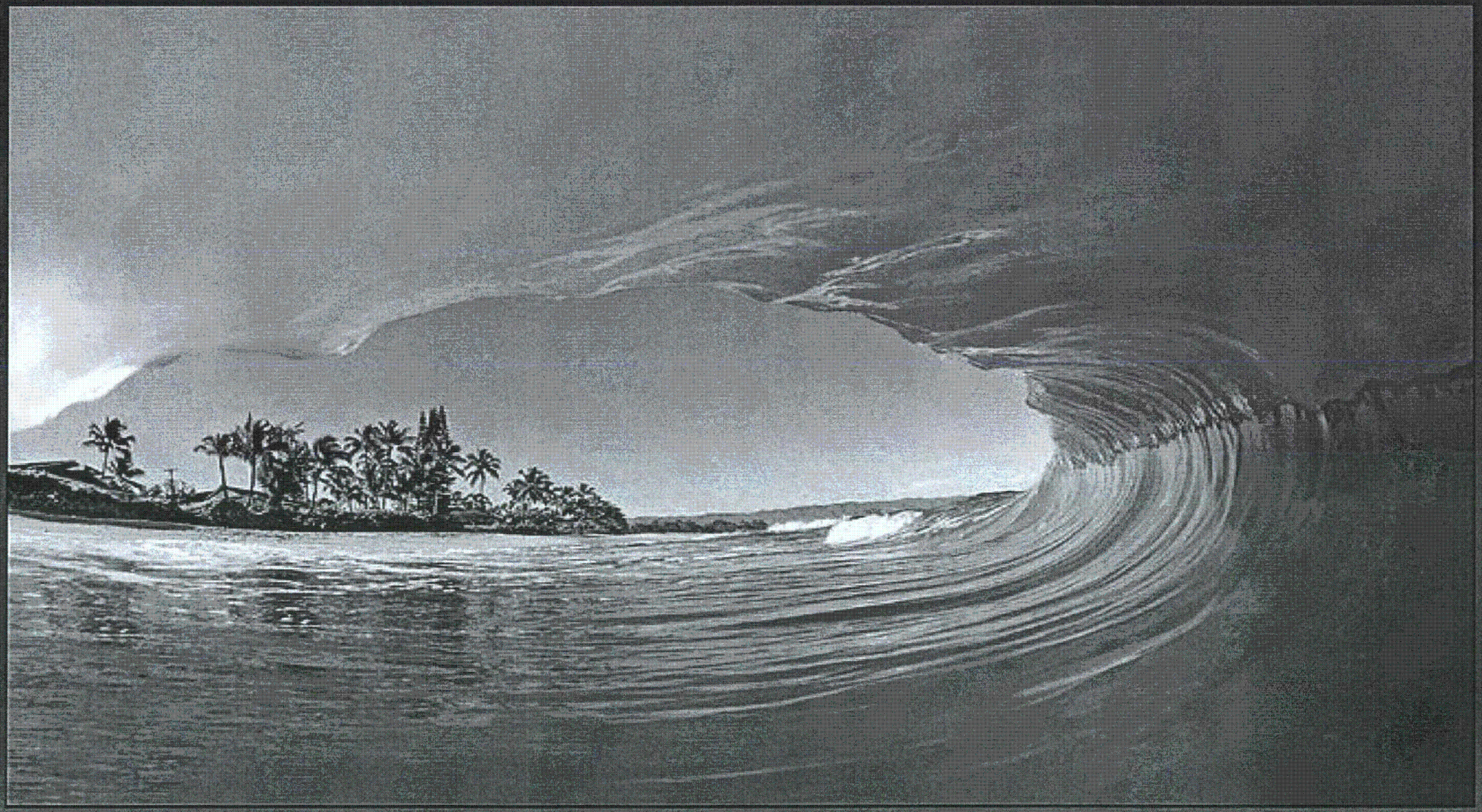
pH is Stable or Increasing

FIGURE 49
Zone 1 pH Over Time
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico



Four Wells with TTHM/Chloroform Historic Detections – Attenuates Over Time and Downgradient





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