

**From:** "Cofman, John" <john.cofman@ngc.com>  
**To:** sxscharf@gw.dec.state.ny.us  
**CC:** David.Stern@arcadis-us.com; bill.trillo@ngc.com; kent.smith@ngc.com  
**Date:** 9/4/2008 9:31 AM  
**Subject:** OU2 Well No. 18 Failure  
**Attachments:** Well 17.TCE.pdf; Well 18.TCE.pdf; Well 19.TCE.pdf

Steve,

The pump has been pulled by Delta Well and we are awaiting a proposal for a replacement. The pump itself is being inspected to determine the cause of the failure. It appears, at first look, to be due to corrosion due to aggressive water. We are having the water analyzed for a determination regarding the use of an epoxy coating or other protective measures.

While the pump is down, we have increased the flow rates of the adjacent extraction wells, with well no. 17 increased to approximately 1400 GPM and well no. 19 increased to approximately 1000 GPM, for a total flow of 2400 GPM being extracted, treated and recharged. Normal flow with all wells working is 2300 GPM.

This shows the good fortune of having had the extraction wells sized to be able to handle increased flow over what is needed under normal operations.

I do not yet have a schedule for the replacement of the pump, but will keep you apprised of further developments.

By the way, attached are plots of the weekly lab results of samples taken at extraction wells 17, 18 and 19 for TCE which we do in order to monitor the status of our treatment operations. As you can see, we have come a long way!

John

-----Original Message-----

From: Steven Scharf [mailto:sxscharf@gw.dec.state.ny.us]  
Sent: Tuesday, August 26, 2008 11:27 AM  
To: Cofman, John  
Subject: Re: OU2

John,

Thanks for the update. Please keep me posted on the progress of making the repairs.

Also, I asked Dave Stern last week about SPDES equivalent limits for the ONCT system. I don't seem to find the paperwork to Division of Water requesting limits. When was that last done and what are the limits established for the ONCT system?

Thanks,

Steven M. Scharf, P.E.  
Project Engineer  
New York State Department of  
Environmental Conservation  
Division of Environmental Remediation  
Remedial Action, Bureau A  
625 Broadway  
Albany, NY 12233-7015  
(518)402-9620  
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>>> "Cofman, John" <john.cofman@ngc.com> 8/26/2008 11:22:16 AM >>>

Steve,

I have just been informed that we have shut down well no. 18, as of yesterday. The motor was exhibiting vibrations which led our operators to turn off the well for fear that the vibrations would lead to additional damage to the pump, shaft, impellers, casings and bearings.

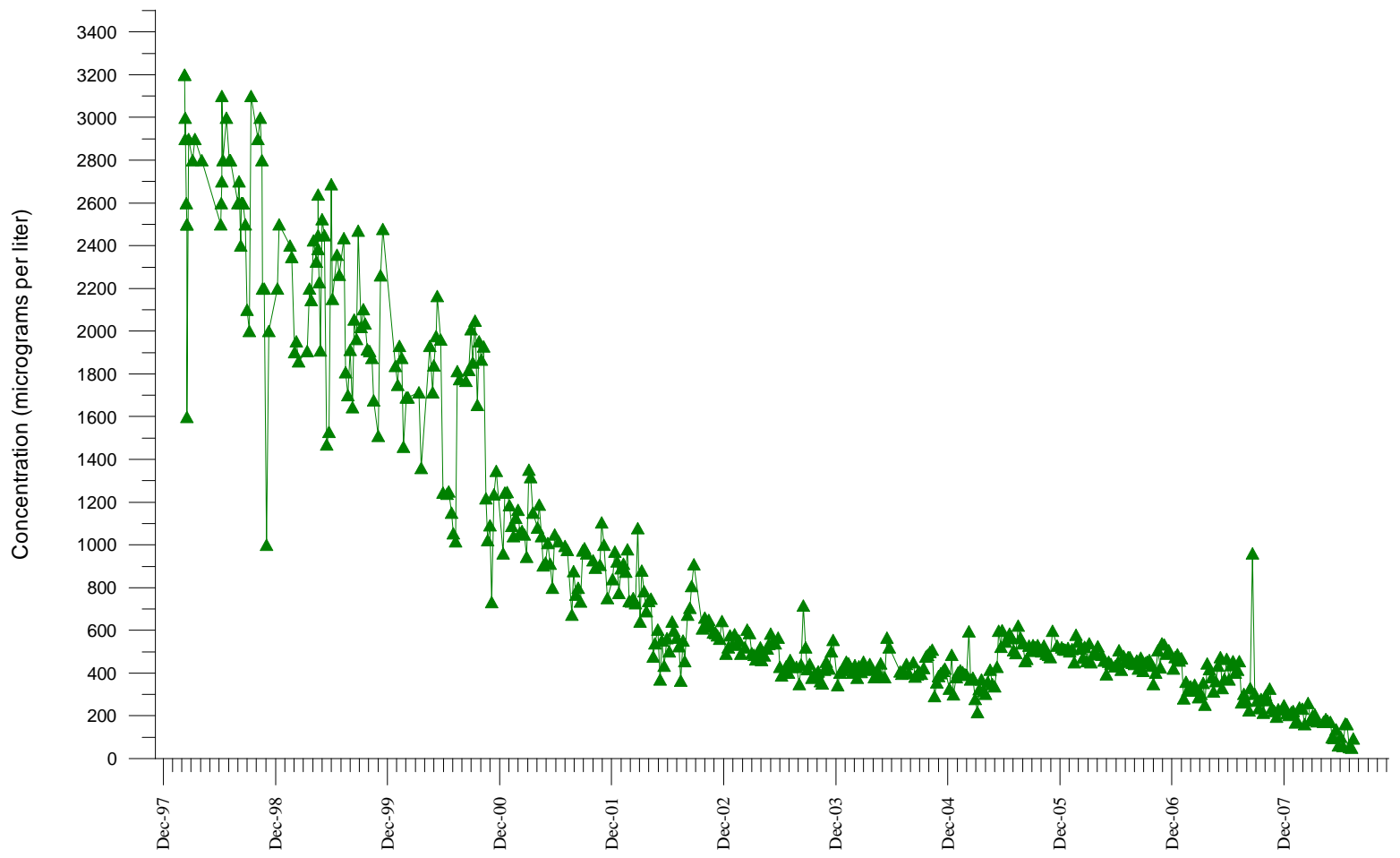
New upper bearings were replaced on the motor last week when some vibrations were first noticed, on the assumption that the problem was a failed upper bearing. While this seemed to reduce the vibrations, the problem worsened over the weekend, leading to the decision yesterday to shut the well.

Our well contractor, Delta Well, has been called in to visit the site and formulate a repair. It is anticipated that the well will be shut down for at least a week for Delta to conduct an evaluation and then propose recommendations to resolve the problem.

In the meantime, we are evaluating, with Arcadis, whether it would be advisable to increase the rates of flow from the two adjacent extraction wells, Nos. 17 and 19.

I'll keep you informed.

John



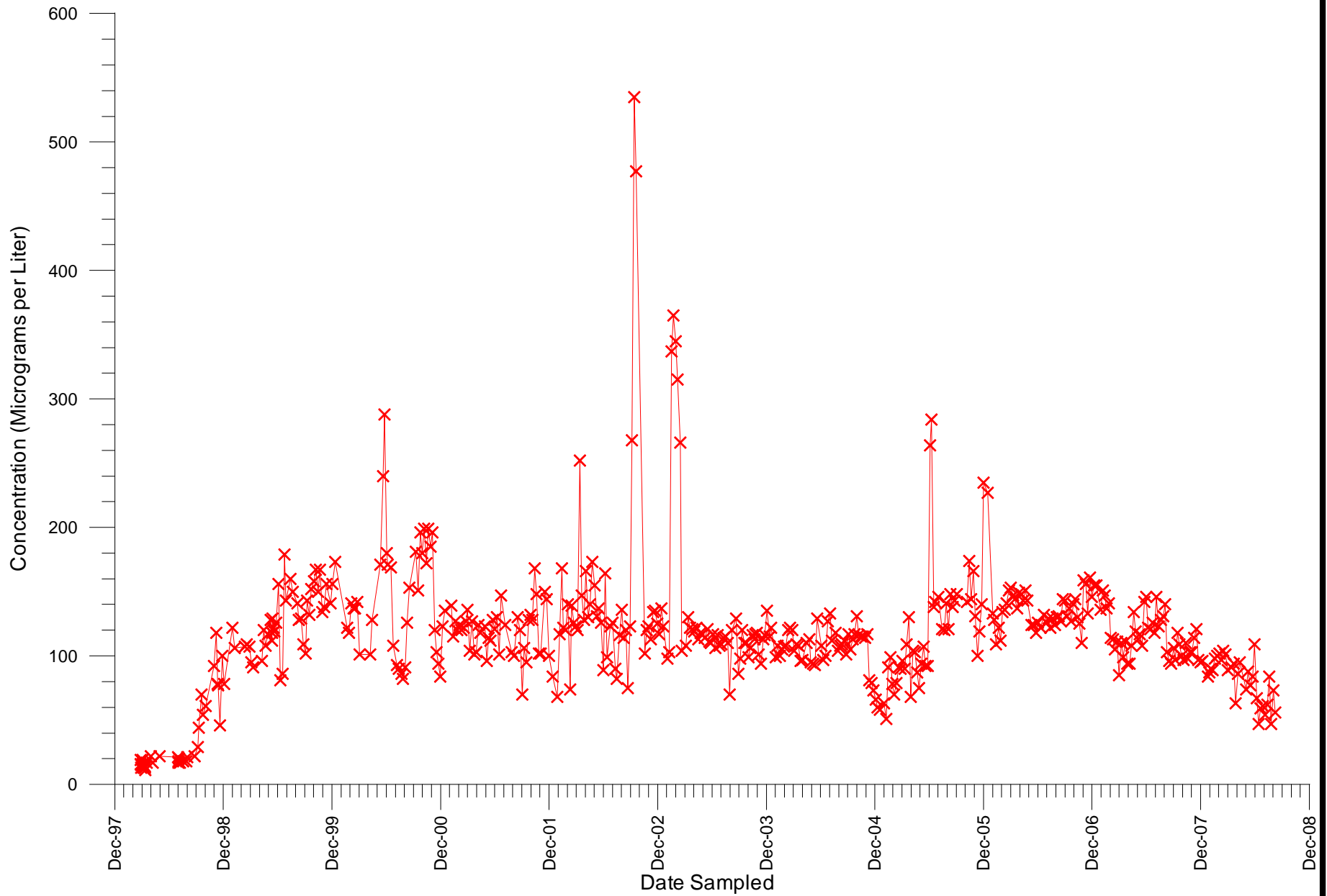
Data Not Shown on Graph:  
 Well ONCT-1 TCE concentrations on January 7, 1998 (5500 ug/L),  
 January 14, 1998 (7200 ug/L), and January 21, 1998 (4600 ug/L).

G:\PROJECT\Northrop Grumman\Superfund\2008\OU2\NY001464.0408 OM&M\Data\Well 17.TCE.grf



Trichloroethene Concentration in OU2 Remedial Well Well 17  
 Northrop Grumman Systems Corporation, Bethpage, New York

FIGURE  
 3

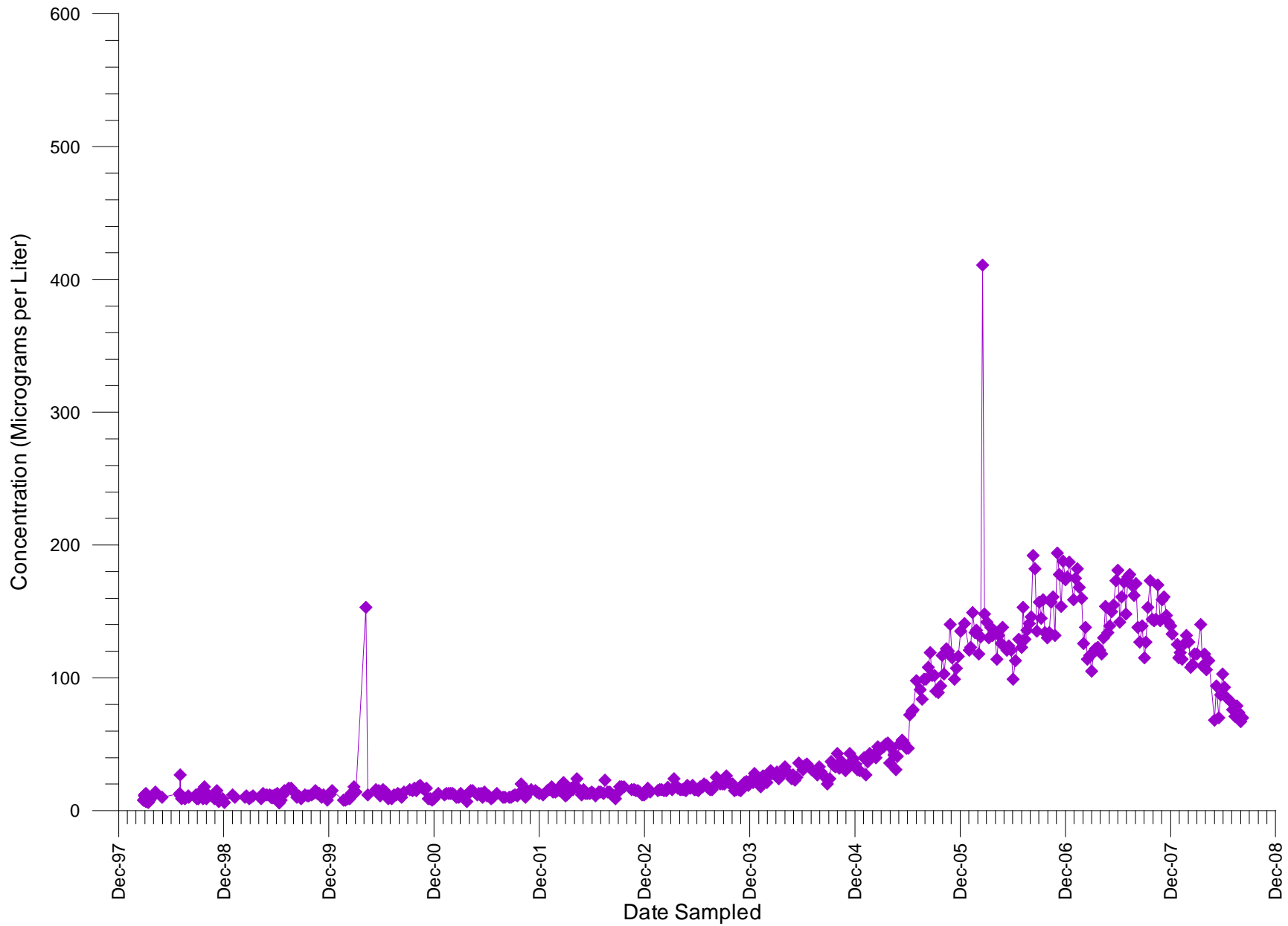


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Trichloroethene Concentration in Remedial Well Well 18  
Northrop Grumman Systems Corporation, Bethpage, New York

FIGURE  
4



G:\APROJECT\Northrop Grumman\Superfund\2005\NY001348.0405 OM&M\2004 Trend Graphs\ONCT3.TCE

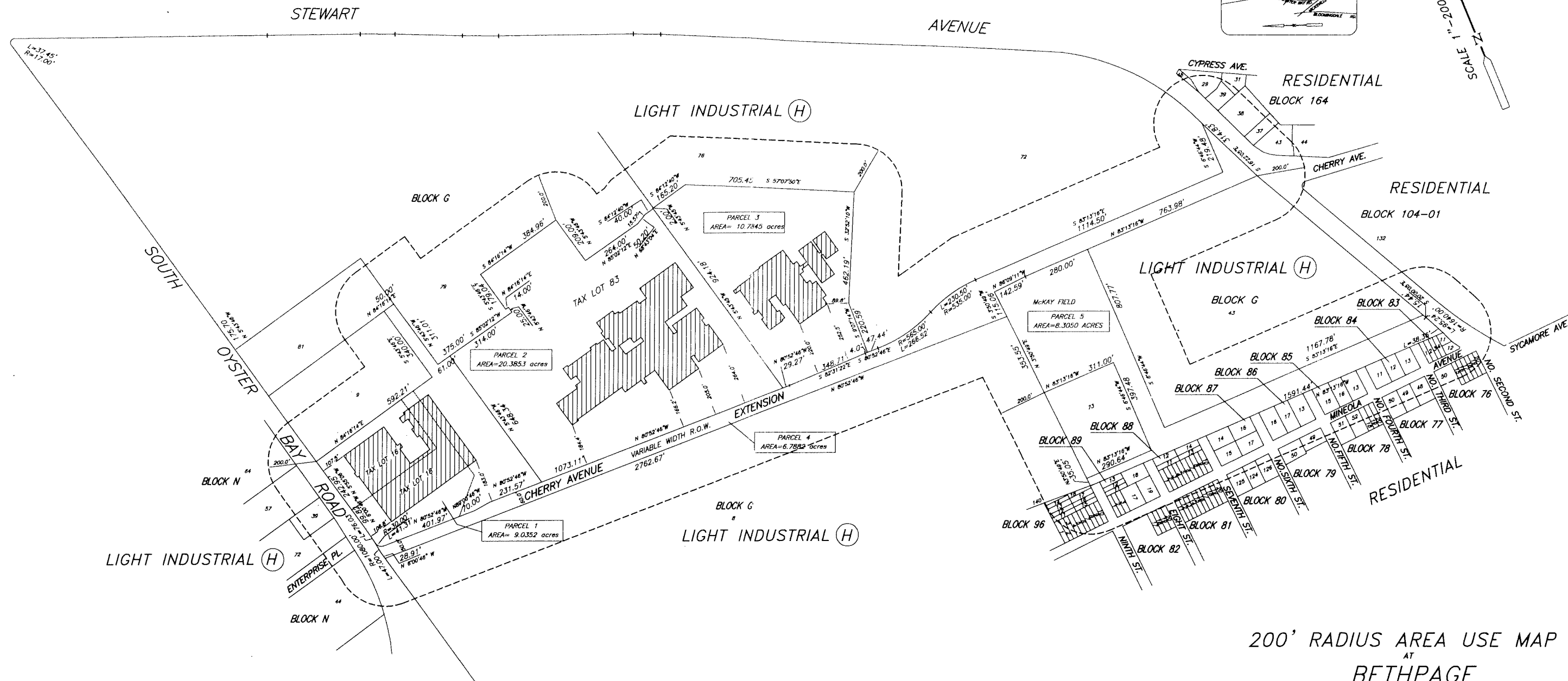
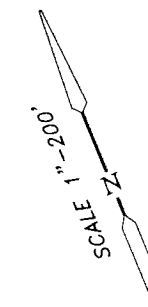
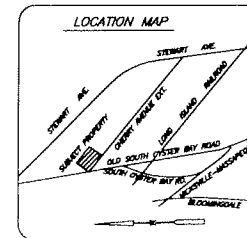


Trichloroethene Concentration in Remedial Well ONCT-3  
Northrop Grumman Corporation, Bethpage, New York

**FIGURE**  
**5**

Ref. No. N46-G-N-REAP

SECTION: 46  
BLOCK: G  
LOTS: 16, 18, 83



200' RADIUS AREA USE MAP  
AT  
BETHPAGE

NASSAU COUNTY NEW YORK

PREPARED FOR

NORTHROP GRUMMAN CORP.

BY

**ALBERT A. BIANCO**

Professional Land Surveyor - City Surveyor  
BROOKLYN QUEENS BRONX MANHATTAN STATEN ISLAND HUNTSVILLE  
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I DO HEREBY CERTIFY THAT THIS MAP  
ACCURATELY DESCRIBES THE USES OF  
THE PROPERTY SURROUNDING THE  
SUBJECT PREMISES AS OF MARCH 15, 2003

ALBERT A. BIANCO

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PREPARED MARCH 15, 2003