Bio::Neos, Inc.
2500 Crosspark Road
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December 9th, 2011

Dr. Anne Kwitek
3111-B MERF
Iowa City, IA 52242

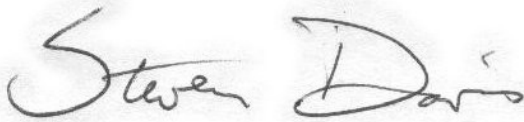Re: Progress Report – VCMap Project Phase 3

Dr. Kwitek,

I would like to provide you with a detailed progress report for the current development work on the implementation of VCMap 3.0. Since our last report we have finalized the changes to the backend of the system and the accompanying updates to the client application to support these changes. The finalization of these changes leave the codebase in a much improved state – with good documentation and some clearly noted areas for improvement. This process was much more involved than we had expected, resulting in a delay in providing you with this last status report.

The software has been officially transferred to Iowa State University hosting, and further maintenance and support will be provided by ISU. Going forward, we will try to offer our opinion and support as our time permits, but will play a much smaller role in this project. Over the next six (6) months, Bio::Neos will diagnose and repair any identified issues with the software free of charge. This courtesy cannot be extended to any requests qualifying as "new feature" requests, however. In the next few days I will be compiling a final package to send you complete with all documentation and a copy of our source code repository, so that you can access the entire history of our development on this project.

It has been wonderful working with you on this project and I truly hope we can find a way to continue to be involved with this project, or to collaborate with you on another development project. Keep us in mind for any future software needs!

Sincerely,

Steven Davis

This report is not a bill, it is simply a letter for your own personal information. I am sending you this letter prior to submitting an invoice to the Purchasing Department so that you are aware of all upcoming expenses for this project. This next invoice will close out the PO for this project. Don't hesitate to contact me with any questions or concerns.

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Progress Report
VCMap3 Project

Name	Current Progress	Total Cost	Previous Invoices	Expected Invoice
VCMap 3.0 planning meeting • Travel and discussion at Iowa State University	**100%**	$1,000	$1000 5/31/11	N / A
Specifications and Design • Functional Specifications Document	**100%**	$2,500	$2500 5/31/11	N / A
Publication Quality Image Output Completed: • Add improved resolution output • Allow watermark resizing • Add crop and resizing • Allow limiting output to selected features	**100%**	$2,500	$2000 5/31/11 $500 7/01/11	N / A
Autoload on Launch Completed: • Add parameters for loading data automatically • Write a dynamic JNLP generator • Work with IA State to create links on animalgenome.org and elsewhere • Transfer database from B::N to ISU servers	**80%**	$5,000	$4000 7/01/11	*$1000* *12/9/11*
Back-end Improvements In progress: • Add Horse data (Equus Callabus) • ~~Load GO terms for all features~~ • Restructure Database • General Improvements	**100%**	$7,500	$750 7/01/11 $3750 8/01/11 $3000 9/05/11	N / A
Feature Filter To be completed at a later time: • Dialog to filter features based on GO terms	**N / A**	~~$2,000~~		N / A
Load Custom Data Future tasks: • Loading custom data in VCF format • Improve performance to handle large datasets including next-gen sequencing and SNPs	**100%**	$1,500	$1500 8/01/11	N / A

Total to expect on next invoice:

Transfer system to ISU:	**$1,000**
Total	**$1,000**

Project Overview:

Amount invoiced to date:	**$23,000**
Current Invoices:	**$1,000**
Remainder of project budget:	**$0**
Total	**$24,000**
Buffer for unexpected costs (allocated)	$0
Total PO	**$24,000**