

## **APPENDIX B**

### **Analytical Data Quality Review**

## Analytical Laboratory

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Analysis for surface water samples was performed by North Creek Analytical (NCA) in Beaverton, Oregon. This laboratory is accredited by Ecology for analysis of all parameters included in this project. They also appear to be the closest commercial lab to the study area that is Ecology-accredited for the analytes required for this project. Proximity is an important consideration because the fecal coliform analysis had only a 24-hour holding time between sample collection and sample analysis. To meet this holding time, the samples were collected prior to mid-afternoon and immediately be transported to NCA to arrive by 4 pm each day of sampling.

Nitrate + nitrite as nitrogen (N) was analyzed using EPA Method 353.2. Fecal coliform count was conducted using Standard Methods for the Examination of Water and Wastewater (SM) 9222 D.

## Analytical Data Quality Assurance Review for November 2004 Sampling

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A quality assurance review of the laboratory's analytical data packages was performed to ensure that the data were of suitable quality for their intended use. The samples were delivered to the lab in two sample delivery groups - one including seven samples collected on November 17 2004, and one including three samples collected on November 18, 2004. The laboratory certificates of analysis are included at the end of this appendix.

The quality assurance review included evaluation of sample custody, holding times, method blank analysis, laboratory control sample (blank spike), and matrix spike/matrix spike duplicate recoveries and precision. The results of the quality assurance review are as follow:

1. Sample custody and holding times were acceptable except for one sample (RC-09-111704) which was analyzed outside the EPA recommended holding time of 24 hours for Fecal Coliforms. The result for Fecal Coliforms from this sample was qualified as estimated.
2. The reporting limits for each analysis were at or below those specified in the QAPP (Aspect Consulting, 2004b).
3. No method blank contamination was detected.
4. Laboratory control sample (LCS) recoveries were within control limits.
5. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were within control limits.
6. The relative percent differences (RPDs) for MS/MSD sample pairs were within control limits.

Based on the quality assurance review, the analytical data are determined to be of acceptable quality for their intended use. No data were rejected; therefore the data set is 100% complete.

## Analytical Data Quality Assurance Review for March 2005 Sampling

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A quality assurance review of the laboratory's analytical data packages was performed to ensure that the data were of suitable quality for their intended use. The samples were delivered to the lab in two sample delivery groups - one including seven samples collected on March 1, 2005, and one including four samples collected on March 2, 2005. The laboratory certificates of analysis are included at the end of this appendix.

The quality assurance review included evaluation of sample custody, holding times, method blank analysis, laboratory control sample (blank spike) and matrix spike/matrix spike duplicate recoveries and precision. The results of the quality assurance review are as follow:

1. All sample custody and holding times were acceptable .
2. The reporting limits for each analysis were at or below those specified in the QAPP (Aspect Consulting, 2004b).
3. No method blank contamination was detected.
4. Laboratory control sample (LCS) recoveries were within control limits.
5. Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were within control limits.
6. The relative percent differences (RPDs) for MS/MSD sample pairs were within control limits.

Based on the quality assurance review, the analytical data are determined to be of acceptable quality for their intended use. No data were rejected; therefore the data set is 100% complete.



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December 06, 2004

Steve Germiot  
Aspect Consulting LLC  
811 First Ave., Suite 480  
Seattle, WA 98104

RE: WRIA 31 Water Quality

Enclosed are the results of analyses for samples received by the laboratory on 11/17/04 16:45.  
The following list is a summary of the NCA Work Orders contained in this report.  
If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>
P4K0742	WRIA 31 Water Quality	030009-003/Rock Creek

Thank You,

Mary A. Fritzmann Smith, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name: <b>WRIA 31 Water Quality</b>	<u>Report Created:</u> 12/06/04 16:59
	Project Number: 030009-003/Rock Creek	
	Project Manager: Steve Germiot	

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RC-09-111704	P4K0742-01	Water	11/17/04 08:00	11/17/04 16:45
RC-10-111704	P4K0742-02	Water	11/17/04 08:40	11/17/04 16:45
RC-08-111704	P4K0742-03	Water	11/17/04 09:10	11/17/04 16:45
RC-07-111704	P4K0742-04	Water	11/17/04 09:29	11/17/04 16:45
RC-06-111704	P4K0742-05	Water	11/17/04 10:10	11/17/04 16:45
RC-01-111704	P4K0742-06	Water	11/17/04 10:50	11/17/04 16:45
LG-01-111704	P4K0742-07	Water	11/17/04 11:40	11/17/04 16:45

North Creek Analytical - Portland

Mary A. Fritzmann Smith, Project Manager

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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name: <b>WRIA 31 Water Quality</b> Project Number: 030009-003/Rock Creek Project Manager: Steve Germiot	<b>Report Created:</b> 12/06/04 16:59
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**Conventional Chemistry Parameters per APHA/EPA Methods**  
 North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P4K0742-01</b>	<b>Water</b>	<b>RC-09-111704</b>	<b>Sampled: 11/17/04 08:00</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.165	-----	0.0500	mg/l	10x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-02</b>	<b>Water</b>	<b>RC-10-111704</b>	<b>Sampled: 11/17/04 08:40</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.176	-----	0.0500	mg/l	10x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-03</b>	<b>Water</b>	<b>RC-08-111704</b>	<b>Sampled: 11/17/04 09:10</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.143	-----	0.0500	mg/l	10x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-04</b>	<b>Water</b>	<b>RC-07-111704</b>	<b>Sampled: 11/17/04 09:29</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.00617	-----	0.00500	mg/l	1x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-05</b>	<b>Water</b>	<b>RC-06-111704</b>	<b>Sampled: 11/17/04 10:10</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.00570	-----	0.00500	mg/l	1x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-06</b>	<b>Water</b>	<b>RC-01-111704</b>	<b>Sampled: 11/17/04 10:50</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.0175	-----	0.00500	mg/l	1x	4110924	11/19/04	11/19/04 10:29	
<b>P4K0742-07</b>	<b>Water</b>	<b>LG-01-111704</b>	<b>Sampled: 11/17/04 11:40</b>							
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.590	-----	0.0500	mg/l	10x	4110924	11/19/04	11/19/04 10:29	

North Creek Analytical - Portland

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*Mary A. Fritzmann Smith*

Mary A. Fritzmann Smith, Project Manager

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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name:	<b>WRIA 31 Water Quality</b>	<u>Report Created:</u> 12/06/04 16:59
	Project Number:	030009-003/Rock Creek	
	Project Manager:	Steve Germiot	

**Microbiological Parameters per APHA Standard Methods**  
 North Creek Analytical - Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>P4K0742-01</b>	<b>Water</b>	<b>RC-09-111704</b>	<b>Sampled: 11/17/04 08:00</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>8.00</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	<b>O-04</b>
<b>P4K0742-02</b>	<b>Water</b>	<b>RC-10-111704</b>	<b>Sampled: 11/17/04 08:40</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>2.00</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	
<b>P4K0742-03</b>	<b>Water</b>	<b>RC-08-111704</b>	<b>Sampled: 11/17/04 09:10</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>80.0</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	
<b>P4K0742-04</b>	<b>Water</b>	<b>RC-07-111704</b>	<b>Sampled: 11/17/04 09:29</b>							
<b>Fecal Coliforms</b>	SM 9221	ND	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	
<b>P4K0742-05</b>	<b>Water</b>	<b>RC-06-111704</b>	<b>Sampled: 11/17/04 10:10</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>2.00</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	
<b>P4K0742-06</b>	<b>Water</b>	<b>RC-01-111704</b>	<b>Sampled: 11/17/04 10:50</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>30.0</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	
<b>P4K0742-07</b>	<b>Water</b>	<b>LG-01-111704</b>	<b>Sampled: 11/17/04 11:40</b>							
<b>Fecal Coliforms</b>	SM 9221	<b>17.0</b>	-----	2.00	MPN/100 ml	1x	4110861	11/18/04	11/19/04 08:50	

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	Project Number:	030009-003/Rock Creek	
	Project Manager:	Steve Germiot	

**Conventional Chemistry Parameters per APHA/EPA Methods - Laboratory Quality Control Results**  
 North Creek Analytical - Portland

**QC Batch: 4110924**      **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC (Limits)	% RPD (Limits)	Analyzed	Notes
<b>Blank (4110924-BLK1)</b>								Extracted: 11/19/04 08:36				
Nitrate/Nitrite-Nitrogen	EPA 353.2	ND	---	0.00500	mg/l	1x	--	--	--	--	11/19/04 10:29	
<b>LCS (4110924-BS1)</b>								Extracted: 11/19/04 08:36				
Nitrate/Nitrite-Nitrogen	EPA 353.2	0.0875	---	0.00500	mg/l	1x	--	0.100	87.5% (85-115)	--	11/19/04 10:29	
<b>Duplicate (4110924-DUP1)</b>				QC Source: P4K0627-02				Extracted: 11/19/04 08:36				
Nitrate/Nitrite-Nitrogen	EPA 353.2	3.20	---	0.500	mg/l	100x	2.96	--	--	7.79% (20)	11/19/04 10:29	
<b>Matrix Spike (4110924-MS1)</b>				QC Source: P4K0627-02				Extracted: 11/19/04 08:36				
Nitrate/Nitrite-Nitrogen	EPA 353.2	6.84	---	0.500	mg/l	100x	2.96	5.00	77.6% (75-125)	--	11/19/04 10:29	
<b>Matrix Spike Dup (4110924-MSD1)</b>				QC Source: P4K0627-02				Extracted: 11/19/04 08:36				
Nitrate/Nitrite-Nitrogen	EPA 353.2	7.32	---	0.500	mg/l	100x	2.96	5.00	87.2% (75-125)	6.78% (20)	11/19/04 10:29	

North Creek Analytical - Portland

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Mary A. Fritzmann Smith, Project Manager

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<b>Aspect Consulting LLC</b> 811 First Ave., Suite 480 Seattle, WA 98104	Project Name: <b>WRIA 31 Water Quality</b>	<u>Report Created:</u> 12/06/04 16:59
	Project Number: 030009-003/Rock Creek	
	Project Manager: Steve Germiot	

**Microbiological Parameters per APHA Standard Methods - Laboratory Quality Control Results**  
**North Creek Analytical - Portland**

**QC Batch: 4110861**      **Water Preparation Method: Aqueous Micro**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC (Limits)	% RPD (Limits)	Analyzed	Notes
<b>Blank (4110861-BLK1)</b>									Extracted: 11/18/04 08:08			
Fecal Coliforms	SM 9221	ND	---	2.00	MPN/100 ml	1x	--	--	--	--	11/19/04 08:50	

North Creek Analytical - Portland

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	Project Number: 030009-003/Rock Creek	
	Project Manager: Steve Germiot	

**Notes and Definitions**

Report Specific Notes:

O-04 - This sample was analyzed outside the EPA recommended holding time.

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR / NA - Not Reported / Not Available

dry - Sample results reported on a dry weight basis. Reporting Limits are corrected for %Solids when %Solids are <50%.

wet - Sample results and reporting limits reported on a wet weight basis (as received).

RPD - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.



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### CHAIN OF CUSTODY REPORT

Work Order #: **PK0742**

CLIENT: <b>Aspect Consulting</b>			INVOICE TO: <b>Aspect Consulting</b>			<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>					
REPORT TO: <b>Steve Germaat</b>			ADDRESS: <b>811 First Avenue Suite 400 Seattle, WA 98101</b>								
PHONE: <b>206-832-5830</b> FAX: <b>206-832-5253</b>			P.O. NUMBER:								
PROJECT NAME: <b>WP1A31 Rock Creek WA</b>			PRESERVATIVE								
PROJECT NUMBER: <b>030009-003</b>			REQUESTED ANALYSES								
SAMPLED BY: <b>Jay Chennault</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Feas (5Mg 220)	Nitrate (35.5.2)					MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1 RC-09-111704	11/17/04 8:00	X	X					W	2	surface water	
2 RC-10-111704	11/17/04 8:40	X	X					W	2	"	
3 RC-08-111704	11/17/04 9:10	X	X					W	2	"	
4 RC-07-111704	11/17/04 9:29	X	X					W	2	"	
5 RC-06-111704	11/17/04 10:10	X	X					W	2	"	
6 RC-01-111704	11/17/04 10:50	X	X					W	2	"	
7 LG-01-111704	11/17/04 11:40	X	X					W	2	"	
8											
9											
10											
RELEASED BY: <b>Jay Chennault</b>			DATE: <b>11/17/04</b>			RECEIVED BY: <b>Doug McKenzie</b>			DATE: <b>11/17/04</b>		
PRINT NAME: <b>Jay Chennault</b> FIRM: <b>Aspect</b>			TIME: <b>14:00</b>			PRINT NAME: <b>Doug McKenzie</b> FIRM: <b>NCA</b>			TIME: <b>1645</b>		
RELEASED BY:			DATE:			RECEIVED BY:			DATE:		
PRINT NAME: FIRM:			TIME:			PRINT NAME: FIRM:			TIME:		
ADDITIONAL REMARKS:											
COC REV 1/03 * Contact Steve Germaat with questions re: COC											
										TEMP: <b>3.6°C</b>	PAGE 1 OF 1

cc: client

**NORTH CREEK ANALYTICAL COOLER RECEIPT FORM**

(Army Corp. compliant)

Client: Aspect Consulting

1. Please sign for receipt and opening of 1 cooler or          other         

By (print) Doug McKenzie (sign) [Signature]

2. Date samples received 11/17/04 Date opened: Same  or 1 1

3. Delivered by:          NCA courier          FedEx          UPS          Courier  Client          Other           
Airbill # if applicable          (Put copy of shipping papers in file)

4. There were 1 custody seals present, signed by Jay Chennault date 11/17/04.

5. Were the custody seals unbroken and intact at the date and time of arrival?  Yes          No

6. Was ice used?  yes          no Type of ice:          blue ice  gel ice  real ice  
Temperature (degrees C) 3 Raytek thermometer 3.6 Digi-Therm (probe temperature blank)

7. Are custody papers sealed in a plastic bag and taped inside to lid?  Yes          No

8. Were custody papers filled out properly (ink, signed, etc.)?  Yes          No  
If "no" please specify:         

9. Was project identifiable from custody papers?  Yes          No  
Name of project WR1A31 Rock Creek WQ (if applicable)

10. Initial and date for unpacking: EF (initials) date 11/17/04

11. Packing material: N/A bubble wrap/bag          styrofoam          cardboard          other         

12. Were samples in bags?  Yes          No

13. Did all containers indicated on the COC arrive?  Yes          No  
If "no" please indicate which containers were absent         

14. Were all containers unbroken and labels in good condition?  Yes          No  
If "no" please indicate which containers         

15. Were all bottle labels complete (ID, date, time, signature, etc.)?  Yes          No  
Do the IDs, times, etc. agree with the COC?  Yes          No  
If "no" please indicate which containers         

16. Are containers properly preserved for indicated analysis?  Yes          No

17. Is there adequate volume for the test(s) requested?  Yes          No

18. If voa vials were submitted, are they free of bubbles? N/A Yes          No

19. Log-in phase: Date samples were logged in: 11/17/04 Elm Project # P 4K0712

20. Logged in by (print) Vannessa Bray (sign) [Signature]

21. Was the project manager notified of status? (Use back of form as a record)          Yes  No