Water use data for The Links

	2000	2001	2009	2010
March	0	5,778,647	0	0
April	1,789,998	9,070,528	0	0
May	7,636,848	14,436,388	4,485,346	221,382
June	13,421,440	14,467,338	12,591,612	1,883,934
July	19,190,084	15,081,027	16,164,243	11,265,334
August	18,286,033	13,204,778	7,668,868	9,638,894
September	7,586,757	8,809,130	3,568,938	2,715,397
October	1,681,051	1,856,588	1,804,791	0
TOTAL Gals	**69,592,211**	**82,704,424**	**46,283,798**	**25,724,941**
Acre-feet	**213.57**	**253.81**	**142.04**	**78.95**

*Based on pump service records dating from original install of 6/18/98 to 3/30/2001, the total gallons pumped was 186,162,719. This is an average of 62,054,239 gallons. This covers irrigation use for 1998, 1999 and 2000. (170 AF)

OKI Golf

TRANSMITTAL

RECEIVED (13)
MAR 07 2011
WA State Department of Ecology (SWRO)

RE	Water Monitoring Report for G2-28621	Date	March 4, 2011
To	Department of Ecology Southwest Regional Office Water Resources PO Box 47775 Olympia, WA 98504-7775	From	Glenn Hirai 1416 - 112TH Avenue NE Bellevue, WA 98004
Phone #		Phone #	425.646.6919
Fax #		Fax #	425.455.3828

WE ARE SENDING YOU:

- [ ] Fax — PAGE(S) including cover sheet _____
- [x] Attached
- [ ] Under separate cover via _____ the following items:

- [ ] Shop drawings
- [ ] Copy of letter
- [ ] Prints
- [ ] Change order
- [ ] Plans
- [ ] Contract
- [ ] Samples
- [ ] Specifications

COPIES	DATE	# Pgs	DESCRIPTION
1	2/14/2011		Hawks Prairie Golf Course Monitoring Results - Links Course

THESE ARE TRANSMITTED as checked below:

- [ ] For approval
- [ ] For your use
- [x] As requested
- [ ] For review and comment
- [ ] Approved as submitted
- [ ] Approved as noted
- [ ] Returned for corrections
- [ ] Resubmit_____ copies for approval
- [ ] Submit_____copies for distribution
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Remarks

Please find attached, the water montoring report for G2-28621. Wells are located at the Golf Club at Hawks Prairie, 9051 46th Avenue NE, Lacey, WA 98516. Should you have any questions, please let me know.

Thank you

Copy to:

Signed _____

1416 - 112th Avenue NE Bellevue, WA 98004 Phone: (425) 454 - 2800 Fax: (425) 455 - 3828

ESA Adolfson

5309 Shilshole Avenue NW
Suite 200
Seattle, WA 98107
206.789.9658 phone
206.789.9684 fax

www.adolfson.com

RECEIVED
MAR 07 2011
WA State Department
of Ecology (SWRO)

February 14, 2011

Mr. Glenn Hirai
Oki Golf
1416 – 112th Avenue NE
Bellevue, WA 98004

RE: Golf Club at Hawks Prairie Well Monitoring Results – The Links

Dear Glenn:

As requested, ESA Adolfson (Adolfson) has continued to conduct monthly ground water level monitoring and quarterly chloride monitoring throughout 2010 from the well located at The Links course of the Golf Club at Hawks Prairie in Lacey, Washington.

Per our agreement, we began collecting monthly water levels in August 2007. Data for The Links monitoring well was last reported in a letter dated February 25, 2010.

Water levels were collected using an electronic water level indicator, measured to the nearest 0.1 foot. Water levels are presented both as the raw number measured in the field, and the calculation of the depth below ground surface. For the well at The Links course, the top of the well casing (located within a utility vault) is located 3.2 feet below grade.

Also per our agreement, we collected chloride samples from the monitoring well quarterly – in February, April, August, and December of 2010. The chloride samples were collected in the field and analyzed by Aquatic Research in Seattle. Copies of the laboratory results are attached for your reference.

The attached table provides a summary of the water levels and chloride monitoring results collected from the well for 2010. The chloride results are well below the action level of 100 mg/L, and the measurements of water levels have remained consistent throughout. Per your permit requirements, a copy of these results should be submitted to the Washington State Department of Ecology by the end of February.

Please don't hesitate to call if you have any questions or require additional information. I will be contacting you regarding an amendment to our contract to continue monitoring water levels on a monthly basis, and collect chloride samples quarterly throughout 2011.

ESA Adolfson

Very truly yours,

Lisa Adolfson
Senior Project Manager
ESA Adolfson

Attachments: Summary table
Laboratory data

Golf Club at Hawks Prairie
The Links Course Well*

Date	Water Level Measurement (feet)**	Calculated depth below ground surface (+3.2 ft)	Pump Status	Chloride concentration (mg/L)
1/20/2010	206.5	209.7	not running	
2/25/2010	214.3	217.5	not running	
3/18/2010	212.1	215.3	not running	2.05
4/23/2010	211.9	215.1	not running	
5/13/2010	216.4	219.6	not running	
6/23/2010	227.7	230.9	not running	1.76
7/20/2010	222	225.2	not running	
8/17/2010	260	263.2	running	1.66
9/29/2010	207	210.2	not running	
10/28/2010	206.8	210	not running	
11/30/2010	210	213.2	not running	
12/29/2010	205.2	208.4	not running	1.66
1/26/2011	205.2	208.4	not running	

*The well at the Links course is not specified by a unique identification number on the Ecology Permit (# G2-28621) and no unique identification number is posted on the well. The well is located within the NW 1/4 of Section 23, Township 29 N., Range 1 W.

**Water levels are measured from the top of the well casing within the utility vault. This location is 3.2 feet below ground surface.

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	ADL001-69	PAGE 1	
REPORT DATE:	04/02/10		
DATE SAMPLED:	03/18/10	DATE RECEIVED:	03/18/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

CASE NARRATIVE

Three water samples were delivered to the laboratory in good condition. The samples were analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	CHLORIDE (mg/L)
LINKS COURSE	2.05
WOODLAND 2	3.52
WOODLAND 3	15.6

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PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	ADL001-69	PAGE 2	
REPORT DATE:	04/02/10		
DATE SAMPLED:	03/18/10	DATE RECEIVED:	03/18/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

QA/QC DATA

QC PARAMETER	CHLORIDE (mg/L)
METHOD	SM18 4500CLC
DATE ANALYZED	04/01/10
DETECTION LIMIT	0.50
DUPLICATE	
SAMPLE ID	BATCH
ORIGINAL	2.44
DUPLICATE	2.35
RPD	4.08%
SPIKE SAMPLE	
SAMPLE ID	BATCH
ORIGINAL	2.44
SPIKED SAMPLE	12.1
SPIKE ADDED	10.0
% RECOVERY	96.78%
QC CHECK	
FOUND	28.6
TRUE	30.0
% RECOVERY	95.47%
BLANK	<0.50

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff

Laboratory Director

Aquatic Research Incorporated

3927 Aurora Ave. N / Seattle, WA 98103 / (206) 632-2715

ADL001.69

CHAIN-OF-CUSTODY RECORD

CLIENT: ESA Adolfson - Lisa Adolfson

SAMPLING DATE: 3/18/2010

SAMPLERS: A. Booy

SHEET _____ OF _____

PROJECT ID:

CASE FILE NO.:

DATA RECORDED BY:

SAMPLE INFORMATION

PARAMETERS

SAMPLE ID	DATE/TIME COLLECTED	chloride																				BOTT #	NOTES
Links Course	3/18/10 1:15	+																					
Woodland #2	3/18/10 1:30	+																					
Woodland #3	3/18/10 1:25	+																					

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name	AARON BOOY	3/18/10	S. NIELSON	3/18/10
Signature	[signature]	3:45	[signature]	1545
Affiliation	ESA Adolfson		ARS	

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name				
Signature				
Affiliation				

Miscellaneous Notes (Hazardous Materials, Quick turn-around time, etc.):

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	ADL001-71	PAGE 1	
REPORT DATE:	07/12/10		
DATE SAMPLED:	06/23/10	DATE RECEIVED:	06/23/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

CASE NARRATIVE

One water sample was delivered to the laboratory in good condition. The sample was analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of this sample. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	CHLORIDE (mg/L)
LINKS WELL SAMPLE	1.76

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

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PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	ADL001-71	PAGE 2	
REPORT DATE:	07/12/10		
DATE SAMPLED:	06/23/10	DATE RECEIVED:	06/23/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

QA/QC DATA

QC PARAMETER	CHLORIDE (mg/L)
METHOD	SM18 4500CLC
DATE ANALYZED	07/12/10
DETECTION LIMIT	0.50
DUPLICATE	
SAMPLE ID	LINKS WELL SAMPLE
ORIGINAL	1.76
DUPLICATE	1.86
RPD	5.41%
SPIKE SAMPLE	
SAMPLE ID	LINKS WELL SAMPLE
ORIGINAL	1.76
SPIKED SAMPLE	11.6
SPIKE ADDED	10.0
% RECOVERY	98.73%
QC CHECK	
FOUND	28.9
TRUE	30.0
% RECOVERY	96.45%
BLANK	<0.50

RPD = RELATIVE PERCENT DIFFERENCE.
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OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff

Laboratory Director

Aquatic Research Incorporated

3927 Aurora Ave. N / Seattle, WA 98103 / (206) 632-2715

ADL001-71

CHAIN-OF-CUSTODY RECORD

CLIENT: ESA Adolfson

SAMPLING DATE: 6/23/10

SAMPLERS: Rosemary Baker

SHEET ____ OF ____

PROJECT ID:

CASE FILE NO.:

DATA RECORDED BY:

SAMPLE INFORMATION

PARAMETERS

SAMPLE ID	DATE/TIME COLLECTED	CHLORIDE	BOTT #	NOTES
Links well sample	11 AM			

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name	Rosemary Baker	6/23/10 4:30pm	SHIRIN ALLESON	6/23/10
Signature	Rosemary Baker		[signature]	1630
Affiliation	ESA Adolfson		ARI	

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name				
Signature				
Affiliation				

Miscellaneous Notes (Hazardous Materials, Quick turn-around time, etc.):

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PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	**ADL001-72**	**PAGE 1**	
REPORT DATE:	**09/07/10**		
DATE SAMPLED:	**08/17/10**	**DATE RECEIVED:**	**08/17/10**

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

CASE NARRATIVE

Three water samples were delivered to the laboratory in good condition. The samples were analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	CHLORIDE (mg/L)
LINKS	1.66
WELL 211	21.3
WELL 327	18.3

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

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CASE FILE NUMBER:	**ADL001-72**	**PAGE 2**	
REPORT DATE:	**09/07/10**		
DATE SAMPLED:	**08/17/10**	**DATE RECEIVED:**	**08/17/10**

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

QA/QC DATA

QC PARAMETER	CHLORIDE (mg/L)
METHOD	SM18 4500CLC
DATE ANALYZED	09/03/10
DETECTION LIMIT	0.50
DUPLICATE	
SAMPLE ID	WELL 327
ORIGINAL	18.3
DUPLICATE	18.2
RPD	0.54%
SPIKE SAMPLE	
SAMPLE ID	WELL 327
ORIGINAL	18.3
SPIKED SAMPLE	28.0
SPIKE ADDED	10.0
% RECOVERY	96.78%
QC CHECK	
FOUND	28.9
TRUE	30.0
% RECOVERY	96.45%
BLANK	<0.50

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff

Laboratory Director

Aquatic Research Incorporated

3927 Aurora Ave. N / Seattle, WA 98103 / (206) 632-2715

ADL001-72

CHAIN-OF-CUSTODY RECORD

CLIENT: ESA - Adolfson Aaron Booy

SAMPLING DATE: 8/17/10

SAMPLERS: Rosemary Baker

SHEET _____ OF _____

PROJECT ID:

CASE FILE NO.:

DATA RECORDED BY:

SAMPLE INFORMATION

PARAMETERS

SAMPLE ID	DATE/TIME COLLECTED	Chloride																			BOTT #	NOTES
Links	8/17/10	X																				
well 211	8/17/10	X																				
well 327	8/17/10	X																				

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name	Rosemary Baker	8/17/10	SNIELSON	8/17/10
Signature	Rosemary Baker	4:50 pm		1650
Affiliation	ESA Adolfson			

	Relinquished By	Date/Time	Received By	Date/Time
Printed Name				
Signature				
Affiliation				

Miscellaneous Notes (Hazardous Materials, Quick turn-around time, etc.):

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	MIS021-83	PAGE 1	
REPORT DATE:	01/05/11		
DATE SAMPLED:	12/29/10	DATE RECEIVED:	12/29/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

CASE NARRATIVE

One water sample was delivered to the laboratory in good condition. The sample was analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of this sample. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	CHLORIDE (mg/L)
LINKS WELL	*1.66*

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

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PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	MIS021-83	PAGE 2	
REPORT DATE:	01/05/11		
DATE SAMPLED:	12/29/10	DATE RECEIVED:	12/29/10

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ADOLFSON ASSOCIATES

QA/QC DATA

QC PARAMETER	CHLORIDE (mg/L)
METHOD	SM18 4500CLC
DATE ANALYZED	01/04/11
DETECTION LIMIT	0.50
DUPLICATE	
SAMPLE ID	BATCH
ORIGINAL	1.37
DUPLICATE	1.37
RPD	0.00%
SPIKE SAMPLE	
SAMPLE ID	BATCH
ORIGINAL	1.37
SPIKED SAMPLE	11.0
SPIKE ADDED	10.0
% RECOVERY	96.78%
QC CHECK	
FOUND	28.4
TRUE	30.0
% RECOVERY	94.82%
BLANK	<0.50

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff

Laboratory Director

M1S021-83

Aquatic Research Incorporated

3927 Aurora Ave. N / Seattle, WA 98103 / (206) 632-2715

CHAIN-OF-CUSTODY RECORD

CLIENT: ESA Adolfson Aaron Booy

SAMPLING DATE: 12/29

SAMPLERS:

SHEET _____ OF _____

PROJECT ID:

CASE FILE NO.:

DATA RECORDED BY:

SAMPLE INFORMATION

Abooy@esassoc.com

PARAMETERS

SAMPLE ID	DATE/TIME COLLECTED	Chlorides	BOTT #	NOTES
Links well	12/29 11:30 AM			

	Relinquished By	Date/Time	Received By	Date/Time
inted Name	Rosemary Baker		Karen Gibson	12/29/10
gnature	Rosemary Baker		[illegible]	1:55
iliation	ESA Adolfson		ARI	

	Relinquished By	Date/Time	Received By	Date/Time
inted Name				
gnature				
iliation				

scellaneous Notes (Hazardous Materials, Quick turn-around time, etc.).