Groundwater Sampling Log

~~23 Oct 08~~

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: ~~PB 10/6/08~~ 10/7/08

Well ID: OU4-LEP-01-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						25,175				6.47							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: ~~OU4~~ ~~PB 10/6/08~~ 10/7/08

Sampler: Penny Bassett

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate		
		MS/MSD		
		Level IV		
		Field Blank		
		EQ Rinsate Blank		

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y / N / (NA)

- Bladder pump: DC / gasoline / nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

Comments: _____

$$\%RPD = 200 \times \frac{\text{Read 1 - Read 2}}{\text{Read 1+ Read 2}}$$

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-6-08

Well ID: OU4-LEP-02-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						8849				6.74							
Criteria	60 max	100-500 ml/min		± 3%		± 3%		± 10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		± 10% or Δ10mV		< 10 NTU or ± 10%		<0.3 ft or 2% of aquifier	

Sample Date and Time: 10-6-08

Sampler: Penny Rassett

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:				
		Duplicate		
		MS/MSD		
		Level IV		
		Field Blank		
		EQ Rinsate Blank		

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N (NA)

- Bladder pump: DC gasoline nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

Comments: _____

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-7-08

Well ID: OU4-LEP-04-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						8700				6.86							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10-7-08

Sampler: Penny Bassett

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate
		MS/MSD
		Level IV
		Field Blank
		EQ Rinsate Blank

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y / N / NA

- Bladder pump: DC / gasoline / nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

Comments: _____

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-7-08

Well ID: OU4-LEP-05-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						19103				4.23							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10-7-08

Sampler: Penny Bassett

		Analysis Requested:	Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate			
	MS/MSD			
	Level IV			
	Field Blank			
	EQ Rinsate Blank			

Pump Information:

Dedicated | Non-Dedicated | Pump deconned before use: Y | N | NA

		Bladder pump: DC gasoline nitrogen gas
		Geosquirt
		Production Pump
		Redi-Flo
		Other: Bailer

Comments: _____

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-14-08

Well ID: OU4-UEP-06-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
1600						~~361~~ 27820				3.81							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifier	

Sample Date and Time: 10-14-08 1602

Sampler: clt Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate	
	MS/MSD	
	Level IV	
	Field Blank	
	EQ Rinsate Blank	

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y N NA

- Bladder pump: DC gasoline nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Comments: _____

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-8-08

Well ID: OU4-UEP-07-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						2221				4.30							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifier	

Sample Date and Time: 10/8/08

Sampler: Penny Bassett

		Analysis Requested:	Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate	
	MS/MSD	
	Level IV	
	Field Blank	
	EQ Rinsate Blank	

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y N NA

- Bladder pump: DC gasoline nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

Comments: _____

$$\%RPD = 200 \times \frac{\text{Read 1 - Read 2}}{\text{Read 1+ Read 2}}$$

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-8-08

Well ID: OU4-UEP-08-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
						18869				3.68							
Criteria	60 max	100-500 ml/min		±3%		±3%		± 10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		± 10% or Δ10mV		< 10 NTU or ± 10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/8/08

Sampler: Penny Bassett

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity	500 ml	N	NONE
		Sulfate, Nitrate/Nitrite			
	X	TOC	250 ml	N	HCl

QC Sample ID:				
		Duplicate		
		MS/MSD		
		Level IV		
		Field Blank		
		EQ Rinsate Blank		

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N NA

Bladder pump: DC gasoline nitrogen gas
Geosquirt
Production Pump
Redi-Flo
Other: Bailer + Peristaltic Pump

Comments: _____

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-14-08

Well ID: OU4-VEP-09-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
1205						9872				4.67							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10-14-08 1288

Sampler: NHD Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate
		MS/MSD
		Level IV
		Field Blank
		EQ Rinsate Blank

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N NA

- Bladder pump: DC gasoline nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Peristaltic Pump

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Comments: _____

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10/12/08

Well ID: OU4-UEP-10-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
16:10		—	—	15.92	—	9866	—	—	—	6.60	—	—	—	—	—		
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/12/08 12:00

Sampler: P Bassett

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate			
	MS/MSD			
	Level IV			
	Field Blank			
	EQ Rinsate Blank		X	

Pump Information:
Dedicated Non-Dedicated Pump deconned before use: (Y) N NA

Bladder pump: DC gasoline nitrogen gas
Geosquirt
Production Pump
Redi-Flo
Other: bailer

Comments: calibrate cond to 15,000

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: ~~10/9/08~~ 10/14/08

Well ID: OU4-UEP-01-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
0850						8716				4.95							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10-14-08 0850

Sampler: C CHAD HALEY

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity	500 ml	N	NONE
		Sulfate, Nitrate/Nitrite			
	X	TOC	250 ml	N	HCl

QC Sample ID:		
		Duplicate
		MS/MSD
		Level IV
		Field Blank
		EQ Rinsate Blank

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N NA

Bladder pump: DC gasoline nitrogen gas
Geosquirt
Production Pump
Redi-Flo
Other: Bailer

Comments: _____

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-13-05

Well ID: OU4-FEP-12-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
1030						15407				4.00							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/13/05 10:30

Sampler: Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate
		MS/MSD
		Level IV
		Field Blank
		EQ Rinsate Blank

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N NA

		Bladder pump: DC gasoline nitrogen gas
		Geosquirt
		Production Pump
		Redi-Flo
		Other:
		ERAS Bailer

Comments: SC calibrated to 8974 #1
YSI

%RPD = 200 X (Read 1 - Read 2) / (Read 1 + Read 2)

3 consecutive stable readings before sampling

Field Review: _____

QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10-13-08

Well ID: OU4-FEP-13-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
1515						11243				4.35							
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/13/08 1515

Sampler: Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate		
		MS/MSD		
		Level IV		
		Field Blank		
		EQ Rinsate Blank		

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y / N / NA

- Bladder pump: DC / gasoline / nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: GRAB Bailer

Comments: YSI #1 calibrated to 6914

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____

QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10/29/08

Well ID: OU4-FEP-14-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
@ 1710																	
↳ Time field parameters were measured						7797				6.53					—	PB	
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/29/08

Sampler: Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

		Duplicate
		MS/MSD
		Level IV
		Field Blank
		EQ Rinsate Blank

Pump Information:

Dedicated / Non-Dedicated — Pump deconned before use: Y / N / NA

- Bladder pump: DC / gasoline / nitrogen gas
- Geosquirt
- Production Pump
- Redi-Flo
- Other: Bailer

Comments: Calibrate YSI #1 to pH 4, 7, 10 Cond 1413

$$\%RPD = 200 \times \frac{\text{Read 1 - Read 2}}{\text{Read 1+ Read 2}}$$

3 consecutive stable readings before sampling

Field Review: _____

QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds
Date: 10/30/08

Borehole ~~Well~~ ID: OU4-FEP-15-GW
Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
10:30				17.03	-	8048	—	—	—	4.84	—	—	—	—	—		
Time Parameters measured																	
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifer	

Sample Date and Time: 10/30/08 **Sampler:** Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate	
	MS/MSD	
	Level IV	
	Field Blank	
	EQ Rinsate Blank	

Pump Information:
Dedicated Non-Dedicated Pump deconned before use: Y N NA

Bladder pump:	DC gasoline nitrogen gas
Geosquirt	
Production Pump	
Redi-Flo	
Other:	Bailer

Comments: Calibrate YSI #1 to pH 4, 7, 10 Cond 8974

%RPD = 200 X (Read 1 - Read 2) / (Read 1 + Read 2)

3 consecutive stable readings before sampling

Field Review: _____ QAQC Review: _____

Groundwater Sampling Log

Project: Yerington Mine site, NV
Client: Atlantic Richfield
Project #: 136259

Event: OU4 Phase 1 Evap Ponds

Date: 10/28/08

Bore hole
~~Well~~ ID: OU4 - FEP - 16 - GW

Static Water Level: _____

BROWN AND CALDWELL

Time		Pump Rate	Vol removed	Temperature		SC		DO		PH		ORP		Turbidity		Depth to Water	
	min	ml/min	Liters	Deg C	%RPD	uS/cm	%RPD	mg/L	%RPD or Δ	SU	Δ	mV	%RPD or Δ	NTU	%RPD	Ft	Drawdown
Previous event field parameters:																	
1545																	
↳ time measurements read		—	—	24.38	—	3241	—	—	—	7.43	—	—	—	—	—	—	—
Criteria	60 max	100-500 ml/min		±3%		±3%		±10% or Δ0.1 mg/L if <2.0		Δ 0.1 pH		±10% or Δ10mV		< 10 NTU or ±10%		<0.3 ft or 2% of aquifier	

Sample Date and Time: 10/28/08

Sampler: Chad Haley

Analysis Requested:			Volume:	Filtered	Preservative:
	X	Dissolved Metals	500 ml	Y	HNO3
	X	Radionuclides	7L	Y	HNO3
	X	TDS, ph, Alkalinity Sulfate, Nitrate/Nitrite	500 ml	N	NONE
	X	TOC	250 ml	N	HCl

QC Sample ID:

	Duplicate			
	MS/MSD			
	Level IV			
	Field Blank			
	EQ Rinsate Blank			

Pump Information:

Dedicated Non-Dedicated Pump deconned before use: Y N NA

Bladder pump: DC gasoline nitrogen gas
Geosquirt
Production Pump
Redi-Flo
Other: Bailer

Comments: 14:45 Calibrate YSI Unit #1 to pH 4, 7, 10, Cond 1413 uS

%RPD = 200 X (Read 1 - Read 2) / (Read 1+ Read 2)

3 consecutive stable readings before sampling

Field Review: _____

QAQC Review: _____