



Table A-1: 2010 Water Quality Monitoring Program Summary (January to April 2010)
(Appendix B of Care and Maintenance Contract - Revised July 2009)



Station Name	Frequency	Total # Samples Collected	January		February		March		April	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Surface Water										
FAROCR	M	0	11-Jan-10	No flow - no sample	23-Feb-10	No flow - no sample	10-Mar-10	Dry - no sample	11-Apr-10	No flow - no sample
NF1	M	3	11-Jan-10	No sample - unsafe	23-Feb-10		10-Mar-10		11-Apr-10	
NF2	M	4	12-Jan-10		23-Feb-10		10-Mar-10		14-Apr-10	
NFRC-SC1	M	4	12-Jan-10		23-Feb-10		10-Mar-10		14-Apr-10	
NFRC-SC2	M	4	12-Jan-10		23-Feb-10		10-Mar-10		14-Apr-10	
NFRC-SC3	M	4	12-Jan-10		23-Feb-10		10-Mar-10		14-Apr-10	
NFRC-SC4	M	4	11-Jan-10		23-Feb-10		10-Mar-10		14-Apr-10	
R7	M	4	11-Jan-10		23-Feb-10		10-Mar-10		11-Apr-10	
R8	M	4	11-Jan-10		23-Feb-10		10-Mar-10		11-Apr-10	
R9	M	4	11-Jan-10		23-Feb-10		10-Mar-10		11-Apr-10	
R10	M	4	11-Jan-10		23-Feb-10		10-Mar-10		11-Apr-10	
W10	M	0	11-Jan-10	No flow - no sample	23-Feb-10	No flow - no sample	10-Mar-10	Dry - no sample	15-Apr-10	No flow - no sample
X2	M	4	11-Jan-10		22-Feb-10		10-Mar-10		14-Apr-10	
X3	M	4	11-Jan-10		22-Feb-10		9-Mar-10		14-Apr-10	
X4	M	4	11-Jan-10		22-Feb-10		9-Mar-10		13-Apr-10	
X5	WD	6	/	Not Discharging	/	Not Discharging	22-Mar & 30-Mar-10		06-Apr, 13-Apr, 20-Apr, & 27-Apr-10	
X5P	M	4	11-Jan-10		22-Feb-10		2-Mar-10		13-Apr-10	
X5P (Bioassay)	QL	1	/	Not scheduled	/	Not scheduled	2-Mar-10		/	Not scheduled
X7	SF	0	/	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
X10	M	4	11-Jan-10		22-Feb-10		10-Mar-10		13-Apr-10	
X14	WD/M	9	11-Jan-10		22-Feb-10		10-Mar, 22-Mar, & 30-Mar-10		06-Apr, 13-Apr, 20-Apr, & 27-Apr-10	
X22b	M	4	11-Jan-10		22-Feb-10		10-Mar-10		13-Apr-10	
New (NWID)	M	3	11-Jan-10	No flow - no sample	22-Feb-10		10-Mar-10		15-Apr-10	
Rose Creek Drainage - Seepage										
A30	2M	6	07-Jan & 21-Jan-10	No samples - unsafe	04-Feb & 24-Feb-10		02-Mar & 28-Mar-10		10-Apr & 19-Apr-10	
Weir 3	WS	1	/	Not scheduled	/	Not scheduled	4-Mar-10		/	Not scheduled
X11	WS	1	/	Not scheduled	/	Not scheduled	4-Mar-10		/	Not scheduled
X12	WS	1	/	Not scheduled	/	Not scheduled	4-Mar-10		/	Not scheduled
X13	M	4	11-Jan-10		17-Feb-10		2-Mar-10		15-Apr-10	
X13 (Bioassay)	QL	1	/	Not scheduled	/	Not scheduled	2-Mar-10		/	Not scheduled
X23	M	2	12-Jan-10		17-Feb-10	No flow - no sample	25-Mar-10	No flow - no sample	27-Apr-10	
Rose Creek Drainage - Groundwater										
SRK08-SPW1	M	4	13-Jul-09		10-Aug-09		1-Sep-09		5-Oct-09	
SRK08-SPW2	M	4	13-Jul-09		10-Aug-09		1-Sep-09		5-Oct-09	
SRK08-SPW3	M	4	13-Jul-09	Changed to Monthly	10-Aug-09		1-Sep-09		5-Oct-09	

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(Appendix B of Care and Maintenance Contract - Revised July 2009)



Station Name	Frequency	Total # Samples Collected	January		February		March		April	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Vangorda Creek Drainage - Surface Water										
LCD	MO	0	7-Jan-10	Not open water season	18-Feb-10	Not open water season	29-Mar-10	Not open water season	12-Apr-10	Not open water season
V1	M	4	7-Jan-10		18-Feb-10		29-Mar-10		20-Apr-10	
V2	BW/M	4	7-Jan-10		3-Feb-10		2-Mar-10		7-Apr-10	
V2 (Bioassay)	QL	1	/	Not scheduled	/	Not scheduled	2-Mar-10		/	Not scheduled
V2A	BW/M	3	7-Jan-10	No flow - no sample	3-Feb-10		2-Mar-10		7-Apr-10	
V4	M	4	18-Jan-10		24-Feb-10		29-Mar-10		20-Apr-10	
V5	M	4	6-Jan-10		18-Feb-10		30-Mar-10		20-Apr-10	
V8	M	4	6-Jan-10		18-Jan-10		30-Mar-10		20-Apr-10	
V17A	QL	1	/	Not scheduled	/	Not scheduled	4-Mar-10	No flow - no sample	/	Not scheduled
V22	QS	1	/	Not scheduled	/	Not scheduled	4-Mar-10		/	Not scheduled
V23	QS	1	/	Not scheduled	/	Not scheduled	4-Mar-10		/	Not scheduled
V24	WD	0	/	Not Discharging	/	Not Discharging	/	Not Discharging	/	Not Discharging
V25	WD	0	/	Not Discharging	/	Not Discharging	/	Not Discharging	/	Not Discharging
V25BSP	WD/M	1	7-Jan-10	No flow - no sample	18-Feb-10	No flow - no sample	02-Mar & 29-Mar-10	No flow - no sample;	27-Apr-10	
V25BSP (Bioassay)	QL	1	/	Not scheduled	/	Not scheduled	/	No flow -Bio-assay sample deferred to April	27-Apr-10	
V27	M	4	18-Jan-10		24-Jan-10		29-Mar-10		20-Apr-10	
Vangorda Creek Drainage - Seepage										
Moose Seep	BW/M	4	7-Jan-10		3-Feb-10		2-Mar-10		7-Apr-10	
V15	BW	8	07-Jan & 21-Jan-10		03-Feb & 18-Feb-10		02-Mar & 23-Mar-10		07-Apr & 19-Apr-10	
Vangorda Creek Drainage - Groundwater*										
SRK05-9	BW	8	07-Jan & 21-Jan-10		04-Feb & 18-Feb-10		02-Mar & 23-Mar-10		07-Apr & 19-Apr-10	
Total:		163								

**Table A-2 2010 Water Quality Monitoring Program Summary (May to August 2010)
(Appendix B of Care and Maintenance Contract - Groundwater Revised May 2010)**



Station Name	Frequency	Total # Samples Collected	May		June		July		August	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Surface Water										
FAROCR	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
FCO	QL	1	/	Not scheduled	16-Jun-10		/	Not scheduled	/	Not scheduled
GDHSECK	QL	1	/	Not scheduled	16-Jun-10		/	Not scheduled	/	Not scheduled
NF1	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
NF2	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
NFRC-SC1	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
NFRC-SC2	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
NFRC-SC3	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
NFRC-SC4	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
R7	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
R8	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
R9	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
R10	M	4	3-May-10		5-Jun-10		8-Jul-10		3-Aug-10	
W8	QL	1	/	Not scheduled	17-Jun-10		/	Not scheduled	/	Not scheduled
W10	M	3	3-May-10		5-Jun-10		10-Jul-10		3-Aug-10	Site dry - no sample taken
X2	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
X3	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
X4	M	4	3-May-10		4-Jun-10		10-Jul-10		3-Aug-10	
X5	WD	17	04-May, 11-May, 18-May, & 25-May-10		01-Jun, 08-Jun, 15-Jun, 22-Jun, 29-Jun-10		06-Jul, 13-Jul, 20-Jul, & 27-Jul-10		10-Aug, 17-Aug, 24-Aug, & 31-Aug-10	
X5 (Bioassay)	QL	1	/	Not scheduled	15-Jun-10		/	Not scheduled	/	Not scheduled
X5P	M	4	3-May-10		4-Jun-10		10-Jul-10		3-Aug-10	
X7	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
X10	M	4	3-May-10		4-Jun-10		8-Jul-10		3-Aug-10	
X14	WD/M	18	04-May, 11-May, 18-May, & 25-May-10		01-Jun, 08-Jun, 15-Jun, 22-Jun, 29-Jun-10		06-Jul, 13-Jul, 20-Jul, & 27-Jul-10		03-Aug, 10-Aug, 17-Aug, 24-Aug, & 31-Aug-10	
X22b	M	4	3-May-10		4-Jun-10		10-Jul-10		3-Aug-10	
NWID	M	4	3-May-10		4-Jun-10		10-Jul-10		3-Aug-10	
Rose Creek Drainage - Seepage										
A25	SF	1	31-May-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
A30	2M	8	01-May & 18-May-10		02-Jun & 15-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
NE1	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
NE2	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
NE3	SF	0	/	Not scheduled	1-Jun-10	Unable to locate site	/	Not scheduled	/	Not scheduled
SP5-6	SF	3	/	Not scheduled	1-Jun-10	Zone II Pit Source Study	10-Jul-10	Zone II Pit Source Study	5-Aug-10	Zone II Pit Source Study
W5	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
Weir 3	WS	1	/	Not scheduled	/	Not scheduled	/	Not scheduled	5-Aug-10	
X11	WS	1	/	Not scheduled	/	Not scheduled	/	Not scheduled	5-Aug-10	
X12	WS	1	/	Not scheduled	/	Not scheduled	/	Not scheduled	5-Aug-10	
X13	M	4	6-May-10		10-Jun-10		11-Jul-10		5-Aug-10	
X13 (Bioassay)	QL	1	/	Not scheduled	13-Jun-10		/	Not scheduled	/	Not scheduled
X23	M	4	6-May-10		10-Jun-10		10-Jul-10		5-Aug-10	

Table A-2 2010 Water Quality Monitoring Program Summary (May to August 2010)
(Appendix B of Care and Maintenance Contract - Groundwater Revised May 2010)



Station Name	Frequency	Total # Samples Collected	May		June		July		August	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Groundwater										
BH13B	SF	0	/	Not scheduled	11-Jun-10	Frozen at 4.400m	/	Not scheduled	/	Not scheduled
BH14A	SF	1	/	Not scheduled	11-Jun-10		/	Not scheduled	/	Not scheduled
BH14B	SF	1	/	Not scheduled	11-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-1	SF	1	/	Not scheduled	14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-2	SF	1	/	Not scheduled	14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-3	SF	1	/	Not scheduled	14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-4	SF	1	/	Not scheduled	14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-5	SF	1	/	Not scheduled	14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-6	SF	0	/	Not scheduled	14-Jun-10	Dry at 13.625m	/	Not scheduled	/	Not scheduled
P03-06-7	SF	0	/	Not scheduled	14-Jun-10	Dry at 11.822m	/	Not scheduled	/	Not scheduled
P96-6	SF	1	/	Not scheduled	15-Jun-10		/	Not scheduled	/	Not scheduled
P96-7	SF	1	/	Not scheduled	11-Jun-10		/	Not scheduled	/	Not scheduled
P96-8A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
P96-8B	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
SRK08-P9	SF	0	/	Not scheduled	10-Jun-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled
SRK08-P10A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
SRK08-P11A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
SRK08-P11B	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
X16A	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X16B	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X17A	SF	1	/	Not scheduled	8-Jun-10		/	Not scheduled	/	Not scheduled
X17B	SF	1	/	Not scheduled	8-Jun-10		/	Not scheduled	/	Not scheduled
X18A	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X18B	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
P01-01A	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P01-01B	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P01-02A	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P01-02B	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P01-11	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P09-C1	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
P09-C2	SF	1	/	Not scheduled	8-Jun-10		/	Not scheduled	/	Not scheduled
P09-C3	SF	1	/	Not scheduled	8-Jun-10		/	Not scheduled	/	Not scheduled
P09-ETA2		0	/	Not scheduled		Discrepancy between 2010 GW Program Draft and Appendix in May 2010; Well listed as A (Fall) only	/	Not scheduled	/	Not scheduled
X21-96A	SF	1	/	Not scheduled	11-Jun-10		/	Not scheduled	/	Not scheduled
X21-96B	SF	1	/	Not scheduled	11-Jun-10		/	Not scheduled	/	Not scheduled
P01-03	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
P01-04A	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
P01-04B	SF	0	/	Not scheduled	7-Jun-10	Frozen 2.126m	/	Not scheduled	/	Not scheduled
X24-96D	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X25-96A	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X25-96B	SF	1	/	Not scheduled	7-Jun-10		/	Not scheduled	/	Not scheduled
X26	MD	4	5-May-10		13-Jun-10		10-Jul-10		3-Aug-10	
P09-SIS1	Q	1	/	Not scheduled	9-Jun-10	Insufficient water to sample	25-Jul-10		/	Not scheduled
P09-SIS2	Q	2	/	Not scheduled	9-Jun-10		24-Jul-10		/	Not scheduled
P09-SIS3	Q	2	/	Not scheduled	9-Jun-10		24-Jul-10		/	Not scheduled
P09-SIS4	Q		/	Not scheduled					/	Not scheduled
P09-SIS5	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
S1A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
S1B	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
S2A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
S2B	SF	0	/	Not scheduled	9-Jun-10	Well dry and insufficient recharge	/	Not scheduled	/	Not scheduled

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(Appendix B of Care and Maintenance Contract - Groundwater Revised May 2010)**



Station Name	Frequency	Total # Samples Collected	May		June		July		August	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Groundwater (cont.)										
SRK05-SP4A	SF	1	/	Not scheduled	9-Jun-10		/	Not scheduled	/	Not scheduled
SRK05-SP4B	SF	0	/	Not scheduled	9-Jun-10	Well dry and insufficient recharge	/	Not scheduled	/	Not scheduled
SRK05-SP5	SF	0	/	Not scheduled	9-Jun-10	Well frozen at 2.223m	/	Not scheduled	/	Not scheduled
SRK08-SP7A	Q	2	/	Not scheduled	9-Jun-10		25-Jul-10	/	/	Not scheduled
SRK08-SP7B	Q	2	/	Not scheduled	9-Jun-10		25-Jul-10	/	/	Not scheduled
SRK08-SP8A	SF	0	/	Not scheduled	9-Jun-10	Well frozen	/	Not scheduled	/	Not scheduled
STK08-SP8B	SF	0	/	Not scheduled	9-Jun-10	Well frozen	/	Not scheduled	/	Not scheduled
SRK08-SPW1	M	4	3-May-10		13-Jun-10		10-Jul-10		3-Aug-10	
SRK08-SPW2	M	4	3-May-10		13-Jun-10		10-Jul-10		3-Aug-10	
SRK08-SPW3	M	4	3-May-10		13-Jun-10		10-Jul-10		3-Aug-10	
P05-01-01	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.170m	/	Not scheduled	/	Not scheduled
P05-01-02	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.788m	/	Not scheduled	/	Not scheduled
P05-01-03	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.845m	/	Not scheduled	/	Not scheduled
P05-01-04	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.898m	/	Not scheduled	/	Not scheduled
P05-01-05	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.610m	/	Not scheduled	/	Not scheduled
P05-01-06	SF	0	/	Not scheduled	10-Jun-10	Frozen at 2.450m	/	Not scheduled	/	Not scheduled
P05-02	SF	1	/	Not scheduled	6-Jun-10		/	Not scheduled	/	Not scheduled
P05-03	SF	1	/	Not scheduled	8-Jun-10		/	Not scheduled	/	Not scheduled
Vangorda Creek Drainage - Surface Water										
LCD	MO	4	12-May-10		16-Jun-10		14-Jul-10		4-Aug-10	
V1	M	4	12-May-10		16-Jun-10		14-Jul-10		4-Aug-10	
V2	BW/M	8	01-May & 18-May-10		02-Jun & 20-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
V2 (Bioassay)	QL	1	/	Not scheduled	20-Jun-10		/	Not scheduled	/	Not scheduled
V2A	BW/M	8	01-May & 18-May-10		02-Jun & 15-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
V4	M	4	12-May-10		16-Jun-10		14-Jul-10		4-Aug-10	
V5	M	4	12-May-10		17-Jun-10		14-Jul-10		4-Aug-10	
V8	M	4	12-May-10		17-Jun-10		14-Jul-10		4-Aug-10	
V17A	QL	1	/	Not scheduled	16-Jun-10		/	Not scheduled	/	Not scheduled
V19	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V20	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
V22	QS	1	/	Not scheduled	16-Jun-10		/	Not scheduled	/	Not scheduled
V23	QS	1	/	Not scheduled	16-Jun-10		/	Not scheduled	/	Not scheduled
V24	WD	4	/	Not Discharging	22-Jun & 29-Jun-10		06-Jul & 13-Jul-10		/	Not Discharging
V25	WD	5	/	Not Discharging	22-Jun & 29-Jun-10		06-Jul & 13-Jul-10		12-Aug-10	Draing Vangorda Clarification Pond
V25BSP	WD/M	9	11-May-10		15-Jun, 22-Jun, & 29-Jun-10		06-Jul & 13-Jul-10		05-Aug & 12-Aug-10	Draing Vangorda Clarification Pond
V25BSP (Bioassay)	QL	1	/	Not scheduled	15-Jun-10		/	Not scheduled	/	Not scheduled
V25 CPD (Bioassay)	/	1	/	Not scheduled	13-Jun-10	Bio-Assay sample taken before discharging Vangorda Clarification Pond	/	Not scheduled	/	Not scheduled
V27	M	4	12-May-10		16-Jun-10		14-Jul-10		4-Aug-10	

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Station Name	Frequency	Total # Samples Collected	May		June		July		August	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Vangorda Creek Drainage - Seepage										
Moose Seep	BW/M	8	01-May & 18-May-10		02-Jun & 20-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
V14	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
V15	BW	8	01-May & 18-May-10		02-Jun & 15-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
V16	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V29	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V30	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
V31	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V32	SF	0	/	Not scheduled	1-Jun-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V33	SF	1	/	Not scheduled	1-Jun-10		/	Not scheduled	/	Not scheduled
Vangorda Creek Drainage - Groundwater										
P2001-2A	SF	1	/	Not scheduled	13-Jun-10		/	Not scheduled	/	Not scheduled
P2001-2B	SF	1	/	Not scheduled	13-Jun-10		/	Not scheduled	/	Not scheduled
P2001-3	SF	1	/	Not scheduled	19-Jun-10		/	Not scheduled	/	Not scheduled
P96-9A	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
BH05-9B-R	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
SRK05-5C	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
SRK05-7	SF	0	/	Not scheduled	12-Jun-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled
SRK05-8	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
SRK05-9	BW	8	01-May & 18-May-10		02-Jun & 20-Jun-10		07-Jul & 22-Jul-10		05-Aug & 18-Aug-10	
P09-GW1	A (Spring)	0	/	Not scheduled	13-Jun-10	Dry at 4.345m	/	Not scheduled	/	Not scheduled
P09-GW3	A (Spring)	0	/	Not scheduled	13-Jun-10	Dry at 3.185m	/	Not scheduled	/	Not scheduled
P09-GS1A	SF	0	/	Not scheduled	11-Jun-10	Frozen at 2.333m	/	Not scheduled	/	Not scheduled
P09-GS1B	SF	0	/	Not scheduled	11-Jun-10	Frozen at 2.258m	/	Not scheduled	/	Not scheduled
P09-LCD1	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
P09-LCD4	SF	0	/	Not scheduled	12-Jun-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled
P09-LCD6	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
P09-VC1	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
P09-VC2	SF	0	/	Not scheduled	12-Jun-10	Well compromised - not sampled	/	Not scheduled	/	Not scheduled
V34	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
V35	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
V36	SF	1	/	Not scheduled	12-Jun-10		/	Not scheduled	/	Not scheduled
V37	SF	1	/	Not scheduled	13-Jun-10		/	Not scheduled	/	Not scheduled
Total:		314								

Table A-3: 2010 Water Quality Monitoring Program Summary (September to December 2010)
(Appendix B of Care and Maintenance Contract - Revised September 2010)



Station Name	Frequency	Total # Samples Collected	September		October		November		December	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Surface Water										
FAROCR	M	4	1-Sep-10		19-Oct-10		10-Nov-10		1-Dec-10	
FCO	3X	1	/	Not scheduled	7-Oct-10		/	Not scheduled	/	Not scheduled
GDHSECK	3X	1	/	Not scheduled	6-Oct-10		/	Not scheduled	/	Not scheduled
NF2	M	4	1-Sep-10		18-Oct-10		9-Nov-10		1-Dec-10	
R7	M	4	1-Sep-10		19-Oct-10		10-Nov-10		1-Dec-10	
R8	M	4	1-Sep-10		19-Oct-10		10-Nov-10		1-Dec-10	
R9	M	4	1-Sep-10		19-Oct-10		10-Nov-10		1-Dec-10	
R10	M	4	1-Sep-10		19-Oct-10		10-Nov-10		1-Dec-10	
X2	M	4	2-Sep-10		20-Oct-10		9-Nov-10		1-Dec-10	
X3	M	4	2-Sep-10		21-Oct-10		9-Nov-10		1-Dec-10	
X3A	M	4	2-Sep-10		21-Oct-10		9-Nov-10		1-Dec-10	
X4	M	4	2-Sep-10		20-Oct-10		8-Nov-10		1-Dec-10	
X5	WD	5	7-Sep-10		/		18-Nov & 25-Nov-10		2-Dec-10	
X5 (Bioassay)	QL	2	7-Sep-10		/	Not Discharging Not scheduled	/	Not scheduled	2-Dec-10	
X5P	M	4	2-Sep-10		20-Oct-10		8-Nov-10		1-Dec-10	
X7	SF	1	/	Not scheduled	6-Oct-10		/	Not scheduled	/	Not scheduled
X10	M	4	2-Sep-10		21-Oct-10		9-Nov-10		1-Dec-10	
X14	WD/M	6	7-Sep-10		21-Oct-10		09-Nov, 18-Nov & 25-Nov-10		2-Dec-10	
X22b	M	4	1-Sep-10		20-Oct-10		8-Nov-10		1-Dec-10	
FCS-4	M	4	2-Sep-10		20-Oct-10		10-Nov-10		2-Dec-10	
ETA Combined	M	4	2-Sep-10		20-Oct-10		8-Nov-10		1-Dec-10	
Rose Creek Drainage - Seepage										
A30	M	4	1-Sep-10		20-Oct-10		4-Nov-10		1-Dec-10	
FD-40	M	0	/	Not scheduled	/	Not scheduled	/	Not scheduled	1-Dec-10	Comparison of FD-40 to current A30 sample sites - unsure of site
NE	SF	0	/	Not scheduled	7-Oct-10	Not scheduled	/	Not scheduled	/	Not scheduled
SP5-6	SF	2	1-Sep-10	Zone II Pit Source Study	6-Oct-10	Zone II Pit Source Study	/	Not scheduled	/	Not scheduled
Weir 3	WS	0	/	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
X11	WS	0	/	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
X12	WS	0	/	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
X13	M	4	2-Sep-10		7-Oct-10		4-Nov-10		2-Dec-10	
X13 (Bioassay)	QL	2	7-Sep-10		/	Not scheduled	/	Not scheduled	2-Dec-10	
X23	M	4	2-Sep-10		7-Oct-10		4-Nov-10		2-Dec-10	
Rose Creek Drainage - Groundwater										
BH5	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH6	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH10A	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH10B	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH13B	SF	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH14A	SF	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH14B	SF	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-01-2	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-01-4	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-01-6	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-01-8	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-01-9	A (Fall)	0	21-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled

Table A-3: 2010 Water Quality Monitoring Program Summary (September to December 2010)
(Appendix B of Care and Maintenance Contract - Revised September 2010)



Station Name	Frequency	Total # Samples Collected	September		October		November		December	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Groundwater (cont.)										
P03-03-2	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-03-4	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-03-6	A (Fall)	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-03-8	A (Fall)	0	21-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-03-9	A (Fall)	0	21-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-04-2	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-04-4	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-04-6	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-04-8	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-05-2	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-05-4	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-05-6	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-05-8	A (Fall)	0	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-06-1	SF	1	22-Sep-10		14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-2	SF	1	22-Sep-10		14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-3	SF	1	22-Sep-10		14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-4	SF	1	22-Sep-10		14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-5	SF	1	22-Sep-10		14-Jun-10		/	Not scheduled	/	Not scheduled
P03-06-6	SF	0	22-Sep-10	Insufficient water to sample	14-Jun-10	Dry at 13.625m	/	Not scheduled	/	Not scheduled
P03-06-7	SF	0	22-Sep-10	Dry	14-Jun-10	Dry at 11.822m	/	Not scheduled	/	Not scheduled
P03-08-2	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-08-4	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-08-6	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-08-7	A (Fall)	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-08-8	A (Fall)	0	20-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-09-2	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-09-4	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-09-6	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-09-8	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P03-09-9	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-04	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P96-6	SF	1	21-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P96-7	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P96-8A	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P96-8B	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P9	SF	0	22-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P10A	SF	0	15-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P11A	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P11B	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P12A	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P12B	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
TH86-2	A (Fall)	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
TH86-5	A (Fall)	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
TH86-17	A (Fall)	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X16A	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X16B	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X17A	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X17B	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X18A	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X18B	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-01A	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-01B	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-02A	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-02B	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-11	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled



Table A-3: 2010 Water Quality Monitoring Program Summary (September to December 2010)
(Appendix B of Care and Maintenance Contract - Revised September 2010)



Station Name	Frequency	Total # Samples Collected	September		October		November		December	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Groundwater (cont.)										
P09-C1	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-C2	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-C3	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-ETA1	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-ETA2	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X21-96A	SF	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X21-96B	SF	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-03	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-04A	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P01-04B	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X24-96D	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X25-96A	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X25-96B	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
X26	MD	2	1-Sep-10		19-Oct-10		/	Not Discharging	/	Not Discharging
P09-SIS1	Q	1	13-Sep-10	Insufficient water to sample	/	Not scheduled	2-Nov-10		/	Not scheduled
P09-SIS2	Q	2	13-Sep-10		/	Not scheduled	2-Nov-10		/	Not scheduled
P09-SIS3	Q	2	14-Sep-10		/	Not scheduled	2-Nov-10		/	Not scheduled
P09-SIS4	Q	0	14-Sep-10	Insufficient water to sample	/	Not scheduled	2-Nov-10	Insufficient water to sample	/	Not scheduled
P09-SIS5	SF	0	14-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
S1A	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
S1B	SF	0	14-Sep-10	Dry	/	Not scheduled	/	Not scheduled	/	Not scheduled
S2A	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
S2B	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP1A	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP1B	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP2	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP3A	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP3B	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP4A	SF	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP4B	SF	0	13-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP5	SF	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-SP6	A (Fall)	0	14-Sep-10	Unable to take sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SP7A	Q	2	13-Sep-10		/	Not scheduled	2-Nov-10		/	Not scheduled
SRK08-SP7B	Q	2	13-Sep-10		/	Not scheduled	2-Nov-10		/	Not scheduled
SRK08-SP8A	SF	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
STK08-SP8B	SF	1	13-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SBR1	A (Fall)	0	14-Sep-10	Well compromised	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SBR2	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SBR3	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SBR4	A (Fall)	1	14-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-SPW1	M	3	1-Sep-10		7-Oct-10		8-Nov-10		1-Dec-10	Line Frozen
SRK08-SPW2	M	4	1-Sep-10		7-Oct-10		8-Nov-10		1-Dec-10	
SRK08-SPW3	M	4	1-Sep-10		7-Oct-10		8-Nov-10		1-Dec-10	
BH8	A (Fall)	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-01	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-02	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-03	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-04	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-05	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-01-06	SF	1	9-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled

Table A-3: 2010 Water Quality Monitoring Program Summary (September to December 2010)
(Appendix B of Care and Maintenance Contract - Revised September 2010)



Station Name	Frequency	Total # Samples Collected	September		October		November		December	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Rose Creek Drainage - Groundwater (cont.)										
P05-02	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P05-03	SF	1	8-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK04-3A	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-ETA-BR1	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-ETA-BR2	A (Fall)	1	22-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
Vangorda Creek Drainage - Surface Water										
LCD	MO	2	7-Sep-10		5-Oct-10		/	Not open water season	/	Not open water season
V1	M	4	7-Sep-10		5-Oct-10		1-Nov-10		1-Dec-10	
V2	2M/M	6	07-Sep & 23-Sep-10		07-Oct & 21-Oct-10		4-Nov-10		2-Dec-10	
V2 (Bioassay)	QL	2	7-Sep-10		/	Not scheduled	/	Not scheduled	2-Dec-10	
V2A	2M/M	6	07-Sep & 23-Sep-10		07-Oct & 21-Oct-10		4-Nov-10		1-Dec-10	
V4	M	4	7-Sep-10		5-Oct-10		1-Nov-10		1-Dec-10	
V5	M	4	7-Sep-10		5-Oct-10		2-Nov-10		1-Dec-10	
V8	M	4	7-Sep-10		5-Oct-10		2-Nov-10		1-Dec-10	
V22	Q	2	7-Sep-10		/	Not scheduled	/	Not scheduled	16-Dec-10	
V23	Q	2	7-Sep-10		/	Not scheduled	/	Not scheduled	16-Dec-10	
V24	WD	0	/	Not Discharging	/	Not Discharging	/	Not Discharging	/	Not Discharging
V25	WD	0	/	Not Discharging	/	Not Discharging	/	Not Discharging	/	Not Discharging
V25BSP	WD/M	4	7-Sep-10		5-Oct-10		1-Nov-10		2-Dec-10	
V25BSP (Bioassay)	QL	2	7-Sep-10		/	Not scheduled	/	Not scheduled	2-Dec-10	
V27	M	4	7-Sep-10		5-Oct-10		1-Nov-10		1-Dec-10	
Vangorda Creek Drainage - Seepage										
SRK GD01	M	1	/	Not scheduled	/	Not scheduled	/	Not scheduled	1-Dec-10	Site added to monitor water from Grum Waste Rock entering Grum Creek
Moose Seep	2M/M	6	07-Sep & 23-Sep-10		07-Oct & 21-Oct-10		4-Nov-10		2-Dec-10	
V14	SF	0	/	Not scheduled	6-Oct-10	Site frozen - no sample taken	/	Not scheduled	/	Not scheduled
V15	2M	8	07-Sep & 23-Sep-10		07-Oct & 21-Oct-10		04-Nov & 18-Nov-10		01-Dec & 16-Dec-10	
V16	SF	1	/	Not scheduled	6-Oct-10		/	Not scheduled	/	Not scheduled
V29	SF	0	/	Not scheduled	6-Oct-10	Site dry - no sample taken	/	Not scheduled	/	Not scheduled
V30	SF	1	/	Not scheduled	6-Oct-10		/	Not scheduled	/	Not scheduled
V31	SF	0	/	Not scheduled	6-Oct-10	No flow - no sample	/	Not scheduled	/	Not scheduled
V32	SF	0	/	Not scheduled	6-Oct-10	No flow - no sample	/	Not scheduled	/	Not scheduled
V33	SF	1	/	Not scheduled	6-Oct-10		/	Not scheduled	/	Not scheduled

Table A-3: 2010 Water Quality Monitoring Program Summary (September to December 2010)
(Appendix B of Care and Maintenance Contract - Revised September 2010)



Station Name	Frequency	Total # Samples Collected	September		October		November		December	
			Date	Comments	Date	Comments	Date	Comments	Date	Comments
Vangorda Creek Drainage - Groundwater										
P2001-2A	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P2001-2B	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P2001-3	SF	1	15-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P96-9A	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
BH05-9B-R	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-5C	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-7	SF	0	20-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-8	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK05-9	2M	8	07-Sep & 23-Sep-10		07-Oct & 21-Oct-10		04-Nov & 18-Nov-10		02-Dec & 16-Dec-10	
SRK08-P14	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P15	A (Fall)	1	16-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
SRK08-P16	A (Fall)	0	20-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-GS1A	SF	1	17-Sep-10	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-GS1B	SF	1	16-Sep-10	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-LCD1	SF	1	20-Sep-10	Not scheduled	/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-LCD4	SF	0	21-Sep-10	Insufficient water to sample	/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-LCD6	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-VC1	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
P09-VC2	SF	1	20-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
V34	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
V35	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
V36	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
V37	SF	1	18-Sep-10		/	Not scheduled	/	Not scheduled	/	Not scheduled
Total:		303								

**Table A-4: Surface Water Quality Parameters and Detection Limits
 (From Table 4 of Appendix B of Care and Maintenance Contract)**

Measurements	Units	Method Detection Limits	
		Minimum Method Detection Limit	Preferred Method Detection Limit
Field Parameters			
pH			
Conductivity	uS/cm		
Temperature	°C		
Micellaneous Parameters			
alkalinity	mg/L	1	1
ammonia - N	"	0.05	0.02
chloride	"	1	0.05
conductivity	uS/cm		
dissolved solids, total (TDS)	"	10	10
organic carbon, dissolved (DOC) ¹	"	1	0.1
organic carbon, total (TOC) ¹	"	1	0.1
pH	pH units	0.01	0.01
sulphate	mg/L	1	0.2
suspended solids, total (TSS)	"	2	1
ICP - Metals Scan (Total and Dissolved)			
aluminum	mg/L	0.005	0.001
antimony	"	0.005	0.001
arsenic	"	0.001	0.0005
barium	"	0.01	0.001
beryllium	"	0.001	0.001
bismuth	"	0.002	0.001
boron	"	0.05	0.001
cadmium	"	0.00001	0.000005
calcium	"	0.5	0.05
chromium	"	0.001	0.0002
cobalt	"	0.0009	0.00005
copper	"	0.001	0.0001
iron	"	0.05	0.005
lead	"	0.001	0.0002
magnesium	"	0.5	0.05
manganese	"	0.002	0.0005
molybdenum	"	0.001	0.001
nickel	"	0.002	0.001
potassium	"	0.5	0.05
selenium	"	0.001	0.0002
silver	"	0.00005	0.00001
sodium	"	0.5	0.05
strontium	"	0.002	0.001
thallium	"	0.0003	0.00005
tin	"	0.001	0.001
titanium	"	0.005	0.005
uranium	"	0.005	0.0001
vanadium	"	0.006	0.001
zinc	"	0.005	0.0005
zirconium	"	0.004	0.001

¹ Not required for S2 and S2 LDL Designations in Parameter Suite Column

Lab Parameters

Low detection limits specified in Table are only required for sites identified by S LDL designation in the Parameter Suite

Note 1: column.

Note 2: Total Metals **and** Dissolved Metals are part of surface water monitoring requirements.

Note 3: All sampling and analysis to be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Waste Water" including field filtering of samples for dissolved metals.

Note 4: Hardness not required, but Ca and Mg must be part of ICP results.



Table A-5: Seepage Water Quality Parameters and Detection Limits
(From Table 5 of Appendix B of Care and Maintenance Contract)



Measurements	Units	Method Detection Limits	
		Minimum Method Detection Limit	Preferred Method Detection Limit
Field Parameters			
pH			
Conductivity	uS/cm		
Temperature	°C		
ORP	mV		
Micellaneous Parameters			
acidity (to pH 8.3)	mg/L		
alkalinity	mg/L	1	1
chloride	"	1	0.05
conductivity	uS/cm		
pH	pH units	0.01	0.01
sulphate	mg/L	1	0.2
suspended solids, total (TSS)	"	2	1
ICP - Metals Scan (Dissolved)			
aluminum	mg/L	0.005	0.001
antimony	"	0.005	0.001
arsenic	"	0.001	0.0005
barium	"	0.01	0.001
beryllium	"	0.001	0.001
bismuth	"	0.002	0.001
boron	"	0.05	0.001
cadmium	"	0.00001	0.000005
calcium	"	0.5	0.05
chromium	"	0.001	0.0002
cobalt	"	0.0009	0.00005
copper	"	0.001	0.0001
iron	"	0.05	0.005
lead	"	0.001	0.0002
magnesium	"	0.5	0.05
manganese	"	0.002	0.0005
molybdenum	"	0.001	0.001
nickel	"	0.002	0.001
potassium	"	0.5	0.05
selenium	"	0.001	0.0002
silver	"	0.00005	0.00001
sodium	"	0.5	0.05
strontium	"	0.002	0.001
thallium	"	0.0003	0.00005
tin	"	0.001	0.001
titanium	"	0.005	0.005
uranium	"	0.005	0.0001
vanadium	"	0.006	0.001
zinc	"	0.005	0.0005
zirconium	"	0.004	0.001

Lab Parameters

- Note 1: Low detection limits specified in Table are only required for sites identified by SE LDL designation in the parameter Suite column.
- Note 2: All sampling and analysis to be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Waste Water" including field filtering of samples for
- Note 3: Hardness not required, but Ca and Mg must be part of ICP results.

Table A-6 (a and b): Groundwater Quality Parameters and Detection Limits
 (From Table 6 of Appendix B of Care and Maintenance Contract)



Table A-6 (a)		Method Detection Limits	
Full Suite Measurements	Units	Minimum Method Detection Limit	Preferred Method Detection Limit
Field Parameters			
pH			
Conductivity	uS/cm		
Temperature	°C		
Purge Volume	L		
Purge Rate			
Purge Time			
Sampling Time			
Micellaneous Parameters			
acidity (to pH 8.3)	mg/L		
alkalinity	mg/L	1	1
chloride	"	1	0.05
conductivity	uS/cm		
pH	pH units	0.01	0.01
sulphate	mg/L	1	0.2
suspended solids, total (TSS)	"	2	1
ICP - Metals Scan (Dissolved)			
aluminum	mg/L	0.005	0.001
antimony	"	0.005	0.001
arsenic	"	0.001	0.0005
barium	"	0.01	0.001
beryllium	"	0.001	0.001
bismuth	"	0.002	0.001
boron	"	0.05	0.001
cadmium	"	0.00001	0.000005
calcium	"	0.5	0.05
chromium	"	0.001	0.0002
cobalt	"	0.0009	0.00005
copper	"	0.001	0.0001
iron	"	0.05	0.005
lead	"	0.001	0.0002
magnesium	"	0.5	0.05
manganese	"	0.002	0.0005
molybdenum	"	0.001	0.001
nickel	"	0.002	0.001
potassium	"	0.5	0.05
selenium	"	0.001	0.0002
silver	"	0.00005	0.00001
sodium	"	0.5	0.05
strontium	"	0.002	0.001
thallium	"	0.0003	0.00005
tin	"	0.001	0.001
titanium	"	0.005	0.005
uranium	"	0.005	0.0001
vanadium	"	0.006	0.001
zinc	"	0.005	0.0005
zirconium	"	0.004	0.001

Lab Parameters

Note 1: Low detection limits specified in Table are only required for sites identified by G LDL designation in the Parameter Suite column.

Note 2: All sampling and analysis to be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Waste Water" including field filtering of samples for dissolved metals.

Note 3: Hardness not required, but Ca and Mg must be part of ICP results.

Table A-6 (b)		Method Detection Limits for	
Reduced Suite Measurements ¹	Units	Minimum Method Detection Limit	Preferred Method Detection Limit
Micellaneous Parameters			
alkalinity	mg/L	1	1
conductivity	uS		
pH	pH units	0.01	0.01
sulphate	"	1	0.2
ICP - Metals Scan (Dissolved)			
calcium	"	0.5	0.05
iron	"	0.05	0.005
magnesium	"	0.5	0.05
manganese	"	0.002	0.0005
potassium	"	0.5	0.05
sodium	"	0.5	0.05
zinc	"	0.005	0.0005

Note 1: Reduced suite can include collection and analysis of dissolved metal samples with reporting of only listed parameters.

**Table A-7: Water Quality Parameters
and Effluent Standards**

for Sites X5, X13, V2 and V25BSP

(From Table 1 of Appendix B of Care and Maintenance Contract)

Measurements	Effluent Quality Standard
Total Suspended Solids	≤ 15 mg/L
pH	≥ 6.5 pH Units
Colour	≤ 20 Colour Units
Turbidity**	≤ 15 mg/L
Ammonia (as N)	≤ 1.30 mg/L
Antimony	≤ 0.10 mg/L
Arsenic	≤ 0.05 mg/L
Barium	≤ 1.00 mg/L
Cadmium	≤ 0.02 mg/L
Copper	≤ 0.20 mg/L
Cyanide	≤ 0.05 mg/L
Lead	≤ 0.20 mg/L
Mercury	≤ 0.005 mg/L
Molybdenum	≤ 0.50 mg/L
Nickel	≤ 0.50 mg/L
Selenium	≤ 0.05 mg/L
Silver	≤ 0.10 mg/L
Zinc	≤ 0.50 mg/L
Oil or Grease	Any visible or floating
Bioassay	Pass 100% 96-hour LC ₅₀ (%v/v)



**Table A-8: Routine Water Quality Monitoring During Water Treatment
(Analysis at Faro Mine Complex Lab)**



Site	Description	Frequency	Temp. (°C)	pH	EC (µS/cm)	Zn-T Average	Zn-D Average
Faro Creek Drainage							
Thickener	Faro Mill Thickener Discharge	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
Clarifier	Faro Mill Clarifier Discharge	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
Faro Mill Effluent	Combined Discharge from Faro Mill	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
X5	Discharge from Cross Valley Pond (CVP)	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
X14	Rose Creek, d/s of CVP discharge	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
Vangorda Creek Drainage							
V25	Effluent, Vangorda Clarification Pond	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D
V25BSP	Grum Interceptor, below Sheep Pad Pond	Daily	Temp. (°C)	pH	EC (µS/cm)	Zn-T	Zn-D

Table A-9: Summary of 2010 Faro Creek Drainage Geotechnical Monitoring - Water Table, Temperature and Slope Stability Monitoring



	May				June				July				August				September				Comments
	T	SI	PP	HP	T	SI	PP	HP	T	SI	PP	HP	T	SI	PP	HP	T	SI	PP	HP	
Rose Creek Diversion - Canal Dike																					
CD-10		20																16			
CD-13			16				2												10		
CD-15	16	20	16		2		2										10	16	10		
CD-19		20																16			
CD-21	18	19	18		2		2										10	13	10		
BH94CD-1		(see comment)																13			Pneumatic Piezometer shallow tip only as deep tip (366) gone as of 2005; 20-May-10 - Not read due to a presence of a grey greasy sludge at 1.75m
BH91-CD1		20																16			
BGC05-02			20				2												10		
BGC05-03			20				2												10		
BGC05-04	(see comment)				(see comment)												(see comment)				No reading possible - cable damaged or unit not functioning
BGC05-05		20																13			
BGC05-06			19				2												10		
BGC05-07	(see comment)				(see comment)												(see comment)				No reading possible - cable damaged or unit not functioning
BGC05-08		20																13			
CD-26	18		18 & 29		2		2										10		10		
Rose Creek Diversion - Spoil Pile																					
SP-2						25												16			
SP-3	20				2												10				
SP-5	20				2	25												16			
Rose Creek Diversion - Backslope																					
BS-5																					
BS-9																					
BS-10																					
BS-12																					
Cross Valley Dam																					
CVDC-4				19				3													7
CVDC-6	19				3												10				
CVDC-7				19				3													7
CVDC-9				19				3													7
CVDT-1				19				3													7
CVDT-2				19				3													7
BH88-4	18				3												10				
CVDP-1			19				3												7		
CVDP-2			19				3												7		
CVDP-3			19				3												7		
CVDP-5			19				3												7		
CVDP-6			19				3												7		
94 CVDC-1				19				3													7
P01-11				19				3													7
Intermediate Dam																					
91ID-3			15, 19, 22, 24 & 29				2, 7 & 18							4							10
91ID-4			12, 14, 15, 19, 22 & 29				2														10
91ID-5							2														10
91ID-6			12, 14, 15, 19, 22 & 29				2														10
91ID-7			12, 14, 15, 19, 22 & 29				2														10
94-IDC-1				15				2													10
96-1				15, 19 & 29				2													10
96-2				12, 14, 15, 19, 22 & 29				2													10
96-3				12, 14, 15, 19, 22 & 29				7													10
96-4				12, 14, 15, 19, 22 & 29				7													10
P01-03				12, 14, 15, 19, 22 & 29				2 & 7													10
P01-04				15 & 29				2 & 7													10
BKS04-06				15				2													10
BKS04-07				15				2													10
Secondary Tailings Dam																					
P81-6				20				5													10
P81-7				20				5													10
P81-8				20				5													10
P03-01				20				5													10
P03-02				20				5													10
P03-03				20				5													10

T: Thermistor
SI: Slope indicator
PP: Pneumatic Piezometer
HP: Hydraulic (or Standpipe) Piezometer
3 Shading indicates monitoring was scheduled for that month; number indicates date or dates on which monitoring occurred

Table A-11: Summary of 2010 Faro Creek Drainage Geotechnical Monitoring - Faro Pit Slope Stability


			January	February	March	April	May	June	July	August	September	October	November	December
Faro Pit Crest Regression														
Ref. Bar #15351	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Ref. Bar #15352	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Ref. Bar #15353	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Ref. Bar #15354	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Ref. Bar #15355	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Ref. Bar #15356	Tape Measurement	Recommended					S				F			
		Actual in 2010						24	20	20	23			
Prism Movement														
Prism #13872	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13873	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13874	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13875	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13876	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13877	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13878	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13879	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			
Prism #13880	Prism Survey	Recommended					S				F			
		Actual in 2010									16 & 17			

S: spring; F: fall

Table A-12: Summary of 2010 Vangorda Creek Drainage Geotechnical Monitoring - Temperature, Water Table and Crest Regression

	May				June				July				August				September				October				November				December						
	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP	T	CR	PP	HP			
Vangorda Waste Rock Dump																																			
V34				15																															
V35				15																															
V36				15																															
V37				15																															
V38 ¹																																			
V39				15			27				13			4			3				14			3										Static line failed	
V40				15			27				13			4			3				14			3										Static line failed	
V41				15			27				13			4			3				14			3										Static line failed	
V42				15			27				13			4			3				14			3										Static line failed	
V43				15			27				13			4			3				14			3										Static line failed	
V44				15			27				13			4			3				14			3										Static line failed	
V45				15			27				13			4			3				14			3										Static line failed	
V46				15			27				13			4			3				14			3										Static line failed	
V47				15			27				13			4			3				14			3										Static line failed	
Little Creek Dam																																			
BH94 LCD-1				15													10																		
BH94 LCD-2				15													10																		
BH94 LCD-3				15													10																		
BH94 LCD-4	15															10																			
BH94 LCD-5	15															10																			
BH94 LCD-6	15															10																			
Grum Pit Walls - Slope Stability																																			
SRK09-GSA ²				16			11				14			12			17																		14
SRK09-GSB ²				16			11				14			12			17																		14
GP-S1 ³													4,12,19,26			2,9,16,23			7			10			7										
GP-S2 ³													4,12,19,26			2,9,16,23			7			10			7										
GP-S3 ³													4,12,19,26			2,9,16,23			7			10			7										
GP-S4 ³													4,12,19,26			2,9,16,23			7			10			7										
GP-N1 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										
GP-N2 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										
GP-N3 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										
GP-N4 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										
GP-N5 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										
GP-N6 ³							24				29		4,12,19,26			2,9,16,23			7			10			7										

1: Piezometer no longer in existence

2: Grum Slot Cut water table monitoring added in 2010 under Adaptive Management Plan Event 6 (Grum Pit Maximum Elevation) Monitoring;

3: Grum Pit crest regression monitoring pins were installed in June 2010, with the final pin installed in July; weekly monitoring was requested through Brodie Consulting Ltd for first two months of program and then monthly;

T: Thermistor

CR: Crest regression measurements;

PP: Pneumatic Piezometer

HP: Hydraulic (or Standpipe) Piezometer

Shading indicates monitoring was scheduled monthly, except where noted

Lighter shading indicates monitoring was scheduled weekly for that month

**Table A-13: Summary of 2010 Vangorda Creek Drainage Geotechnical Monitoring -
Flow Rates**

			January	February	March	April	May	June	July	August	September	October	November	December
Cross Valley Dam - Downgradient Seeps														
Drain #3 (V30)	V-Notch Weir	Recommended					2 x / M	2 x / M	2 x / M	2 x / M	2 x / M	2 x / M		
		Actual in 2010					M	M	2 x / M	2 x / M	2 x / M	2 x / M	M	
Drain #4 (V31)	Channel	Recommended					2 x / M	2 x / M	2 x / M	2 x / M	2 x / M	2 x / M		
		Actual in 2010					M	M	2 x / M	2 x / M	2 x / M	2 x / M	M	
Drain #5 (V32)	V-Notch Weir	Recommended					2 x / M	2 x / M	2 x / M	2 x / M	2 x / M	2 x / M		
		Actual in 2010					M	M	2 x / M	2 x / M	2 x / M	2 x / M	M	
Drain #6 (V33)	V-Notch Weir	Recommended					2 x / M	2 x / M	2 x / M	2 x / M	2 x / M	2 x / M		
		Actual in 2010					M	M	2 x / M	2 x / M	2 x / M	2 x / M	M	

