

9th June 2009

Auckland Regional Council
Private Bag 92 012
Victoria Street West
Auckland 1142

Attention: Naveen Kumar, Water Resources Section

Re: Three Kings Quarry De-watering Consent 12977

Dear Naveen

As required by Condition 7 of the above resource consent, please find enclosed records of groundwater level measurements for the period of 1 March to 31 May 2009.

I trust all is in order. Please contact the undersigned if any further information or clarification is required.

Yours faithfully
for **Winstone Aggregates**

Michael Harris
Engineering Geologist.



Three Kings Quarry – Permit No 12977

Groundwater Take To Dewater Three Kings Quarry

Quarterly Report

June 2009

QUARTERLY REPORT

Three Kings Quarry – Permit No 12977

The following report is made with regard to Condition 7 of Permit No 12977.

This report contains the groundwater levels within boreholes surrounding the take point

A plan showing the location of boreholes in which groundwater levels were measured is attached.

This report contains records for the period of the 1st March to 31st May 2009.

THREE KINGS GROUNDWATER LEVEL RECORD SHEET

Date	BH 1B	BH 2B	BH 5B	BH 6A	BH 6B	BH 6C	BH 7	BH 10a
18-Mar-09	10.93	35.29	43.53	34.73	38.59	40.20	35.79	40.08
15-Apr-09	11.51	34.71	44.21	34.05	38.95	39.84	35.37	39.81
20-May-09	11.23	34.99	43.92	34.34	38.94	39.95	34.94	40.23
20-May-09	11.23	34.99	43.92	34.34	38.94	39.95	34.94	40.23
Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17
18-Mar-09	8.08	72.68	72.41	21.45	50.78	5.02	67.11	16.87
15-Apr-09	8.08	72.68	72.00	21.57	50.66	5.19	66.94	16.96
20-May-09	8.08	72.68	72.11	21.65	50.58	5.00	67.13	17.08
20-May-09	8.08	72.68	72.11	21.65	50.58	5.00	67.13	17.08
Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22
18-Mar-09	48.28	36.22	45.99	41.48	38.57	1.85	54.81	5.94
15-Apr-09	48.58	35.92	45.86	41.45	38.60	2.00	54.66	6.20
20-May-09	48.67	35.83	45.68	41.47	38.58	1.83	54.83	6.29
20-May-09	48.67	35.83	45.68	41.47	38.58	1.83	54.83	6.29
Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH25b1
18-Mar-09	10.68	64.46	51.59	6.81	55.99	1.41	61.35	22.10
15-Apr-09	10.85	64.29	51.55	6.85	55.95	1.43	61.33	22.27
20-May-09	10.92	64.22	51.58	6.84	55.96	1.49	61.27	22.30
20-May-09	10.92	64.22	51.58	6.84	55.96	1.49	61.27	22.30
Date	BH25b2	BH 26	BH 26a	BH 27	BH28a	BH28b	BH29	BH30
18-Mar-09	7.83	51.22	0.28	59.16	5.07	54.34	0.03	49.57
15-Apr-09	7.58	50.97	0.25	58.19	5.25	54.16	0.01	49.59
20-May-09	7.59	50.98	0.23	59.21	5.13	54.28	0.01	49.59
20-May-09	7.59	50.98	0.23	59.21	5.13	54.28	0.01	49.59
Date	BH31a	BH31b	BH32	BH33	BH34	BH35a	BH35b	BH36a
18-Mar-09	15.18	48.77	12.86	50.15	4.10	54.56	1.47	58.80
15-Apr-09	15.26	48.85	12.82	50.11	4.34	54.32	1.54	58.73
20-May-09	15.17	48.76	12.85	50.14	4.10	54.56	1.25	59.02
20-May-09	15.17	48.76	12.85	50.14	4.10	54.56	1.25	59.02
Date	BH36b	BH37a	BH37b	BH38a	BH38b	BH38a	BH39b	BH40a
18-Mar-09	7.61	58.92	3.64	53.90	3.84	53.76	4.29	54.19
15-Apr-09	7.67	58.86	3.62	53.92	3.80	53.80	4.27	54.21
20-May-09	7.63	58.90	3.63	53.91	3.78	53.82	4.24	54.24
20-May-09	7.63	58.90	3.63	53.91	3.78	53.82	4.24	54.24
Date	BH40b							
18-Mar-09	8.71	62.65						
15-Apr-09	8.67	62.69						
20-May-09	8.73	62.63						

Locations of boreholes are marked on the attached plan

Waterlevels within standpipe piezometers are expressed as depth below surface levels (first column) and as elevations above seal level (second column).

Waterlevels within pneumatic piezometers are expressed as head of water above piezometer tip (first column) and as elevations above seal level (second column).



Note:
 Origin of Levels
 RL59.305830
 in U.S.A. datum
 in MDS, SCS4417
 RL59.3058m
 ● SCS418 - Precise
 Level Survey
 Benchmarks
 ● BH16 - Borehole
 Location



PROJECT NO.	6451-100
DATE	11.1.2005
BY	AJ LLOYD
CHECKED BY	
SCALE	AS SHOWN

TITLE
**BOREHOLE LOCATION PLAN
 AS AT 10-3-05**

PROJECT:
**WINSTONE AGGREGATES LTD
 THREE KINGS QUARRY**

**HARRISON
 GRIERSON**
 CONSULTING ENGINEERS SURVEYORS PLANNERS
 (and) Draftsman of Instruments, Maps, Plans, etc.

NO.	DATE	DESCRIPTION	BY	CHECKED
1	10.03.05	ISSUED FOR TENDERS	AJ LLOYD	
2	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
3	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
4	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
5	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
6	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
7	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
8	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
9	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	
10	11.01.05	ISSUED FOR CONSTRUCTION	AJ LLOYD	