

16th March 2012

Auckland Council
Private Bag 92300
Auckland 1142

Attention: Naveen Kumar, Water Resources Section

Re: Quarterly Report for Three Kings Quarry, Permit 12977

Dear Naveen

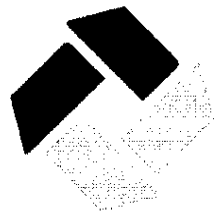
As required by Condition 7 of the above resource consent, please find enclosed records of groundwater level measurements for the period of 01 December 2011 to 29 February 2012.

Should you have any queries please do not hesitate to contact me on 027 504 3624 or at elyse.laface@winstoneaggregates.co.nz.

Yours faithfully



Elyse LaFace
Environmental Coordinator



WINSTONE
AGGREGATES

Three Kings Quarry – Permit No 12977

Groundwater Take To Dewater Three Kings Quarry

Quarterly Report

March 2012

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 1 December 2011 to 29 February 2012.

THREE KINGS GROUNDWATER LEVEL RECORD SHEET

Date	BH 1B	BH 2B	BH 5B	BH 6A	BH 6B	BH 6C	BH 7	BH 10a								
21-Dec-11	11.24	34.98	0.91	34.34	43.97	34.29	32.99	45.80	38.68	40.11	43.40	35.39	28.46	40.15	29.83	50.93
18-Jan-12	10.64	35.58	0.32	34.93	43.36	34.90	33.11	45.68	38.39	40.40	42.82	35.97	28.07	40.54	29.7	51.06
15-Feb-12	10.79	35.43	0.48	34.77	43.52	34.74	33.10	45.69	38.47	40.32	43.01	35.78	28.29	40.32	29.83	50.93

Date	BH 10b	BH 11b	BH 12a	BH 12b	BH 13a	BH 13c	BH 16	BH 17								
21-Dec-11	8.07	72.69	7.55	72.44	21.32	50.91	5	67.13	15.5	56.67	7.08	66.33	48.73	51.41	43.62	34.26
18-Jan-12	8.08	72.68	7.55	72.44	21.09	51.14	4.98	67.15	13.69	58.48	7	66.41	48.57	51.57	42.99	34.89
15-Feb-12	8.08	72.68	7.55	72.44	21.27	50.96	5.17	66.96	14.42	57.75	7.07	66.34	48.65	51.49	43.15	34.73

Date	BH 18A	BH 18B	BH 19A	BH 19B	BH 20	BH 20a	BH 21	BH 22								
21-Dec-11	48.62	35.86	38.02	46.48	45.71	34.34	41.41	38.64	1.52	55.14	5.84	51.10	37.01	35.30	34.05	41.19
18-Jan-12	48.32	36.18	38.08	46.42	45.11	34.94	41.28	38.77	1.45	55.21	5.23	51.51	36.51	35.80	34.04	41.20
15-Feb-12	48.29	36.21	38.14	46.36	45.27	34.78	41.27	38.78	1.64	55.02	5.54	51.20	36.56	35.75	34.05	41.19

Date	BH 22a	BH 23	BH 23a	BH 24	BH 24a	BH 25	BH 25a	BH 25b1								
21-Dec-11	10.57	64.57	5.4	51.80	6.03	51.31	6.43	56.37	2.11	60.65	22.31	37.14	10.93	48.51	8.93	47.82
18-Jan-12	10.27	64.87	5.42	51.78	6.02	51.32	6.46	56.34	2.14	60.62	22.22	37.23	11.38	48.06	9.20	48.09
15-Feb-12	10.51	64.63	5.45	51.75	6.07	51.27	6.46	56.34	2.16	60.60	22.13	37.32	11.60	47.84	8.61	47.50

Date	BH25b2	BH 26	BH 26a	BH 27	BH28a	BH28b	BH29	BH30								
21-Dec-11	8.10	51.49	0.00	59.44	5.11	54.30	0.01	49.59	6.92	51.57	4.69	53.74	7.99	58.61	17.15	55.38
18-Jan-12	8.55	51.94	0.01	59.43	5.05	54.36	0.01	49.59	6.98	51.63	4.41	53.46	7.96	58.64	17.20	55.43
15-Feb-12	8.12	51.51	0.01	59.43	5.15	54.26	0.01	49.59	6.97	51.62	3.50	52.55	7.97	58.63	17.17	55.40

Date	BH31a	BH31b	BH32	BH33	BH34	BH35a	BH35b	BH36a						
21-Dec-11	15.42	49.01	13.15	50.44	1.09	59.18	9.66	49.09	16.73	49.53	10.88	55.38	7.45	59.08
18-Jan-12	15.48	49.07	13.13	50.42	1.13	59.14	9.39	49.36	16.95	49.31	10.84	55.42	7.45	59.08
15-Feb-12	15.44	49.03	13.09	50.38	1.23	59.04	9.90	48.85	17.23	49.03	10.80	55.46	7.49	59.04

Date	BH36b	BH37a	BH37b	BH38a	BH38b	BH39a	BH39b	BH40a								
21-Dec-11	7.42	59.11	3.46	54.08	3.71	53.89	4.01	54.47	4.86	53.61	7.10	54.89	4.91	57.22	10.57	60.75
18-Jan-12	7.36	59.17	3.44	54.10	3.69	53.91	4	54.48	4.82	53.65	7.13	54.86	4.88	57.25	10.57	60.75
15-Feb-12	7.43	59.10	3.48	54.06	3.74	53.86	4.1	54.38	4.86	53.61	7.20	54.79	4.90	57.23	10.53	60.79

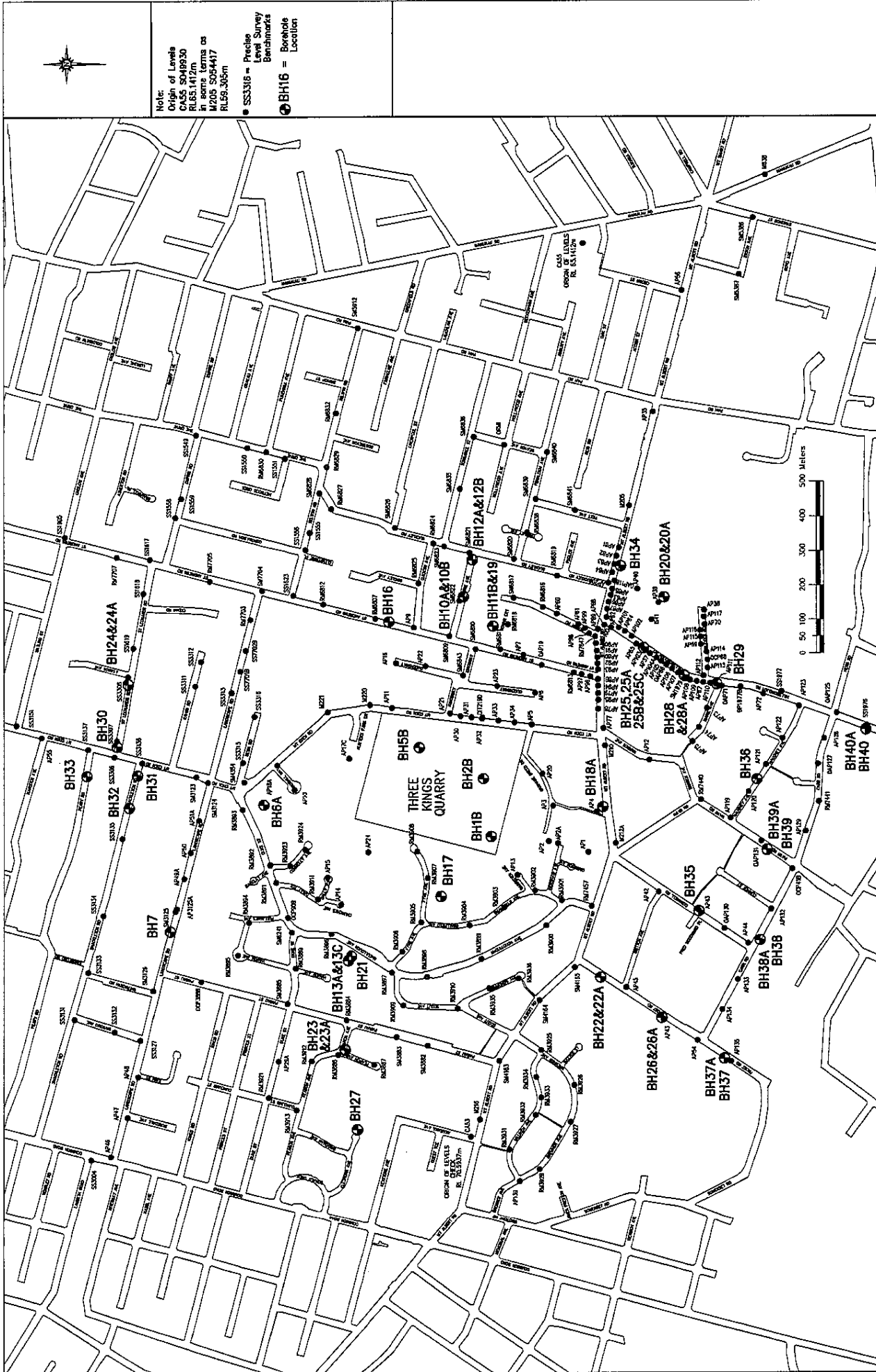
Date	BH40b							
21-Dec-11	8.51	62.85						
18-Jan-12	8.47	62.89						
15-Feb-12	8.43	62.93						

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 seallevel (second column).

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

BH32 destroyed by Roading Contractors in June 2011.



Note:
 Origin of Levels
 C455 5049830
 RL55.417m
 in some terms as
 M205 5064417
 RL59.305m

● SS3318 = Precise
 Level Survey
 Benchmarks

● BH16 = Borehole
 Location

<p>PROJECT: WINSTONE AGGREGATES LTD THREE KINGS QUARRY</p>		<p>TITLE: BOREHOLE LOCATION PLAN AS AT 10-3-05</p>	
<p>DATE: 10/03/05 DRAWN BY: [Name] CHECKED BY: [Name]</p>		<p>SCALE: 1:1000 AS AT 10/03/05</p>	
<p>PROJECT NO: 6451-100</p>		<p>REV: B</p>	
<p>CLIENT: HARRISON GRIFFITHSON CONSULTING ENGINEERS SURVEYORS PLANNERS</p>		<p>DATE: 10/03/05</p>	
<p>PROJECT NO: 6451-100</p>		<p>DATE: 10/03/05</p>	