

SH16 CAUSEWAY UPGRADE PROJECT



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1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

To provide Auckland Council with a monthly overview of construction progress and compliance activity on the SH16 Causeway Upgrade Project.

This report describes and details activities that took place during the month of May 2014.

2.0 OVERVIEW of ACTIVITIES UNDERTAKEN

2.1 Environmental

Regular contact is continuing with the Auckland Council compliance team.

2.2 Communications and Stakeholder Management

- Produced monthly Causeway News project updates to stakeholders, project neighbours and wider community.
- Received feedback from several drivers regarding the duration of the T2 lane closure at
 the city-bound Great North Road on-ramp. The closure of the T2 lane is required to allow
 on-ramp upgrade works to progress. As a result, we will ensure that future signage
 advising of traffic lane closures indicates their duration to fully inform drivers.
- Received feedback from a driver on the benefits of the orange lane marking tape on SH16 city-bound over Great North Road and a request for the tape to be installed along SH16 to allow easy lane identification, particularly during wet weather. The driver was advised that the tape was a trial product and no longer available to the Alliance - solid white lines to define traffic lanes are currently the most appropriate solution.
- Submitted a draft Open Space Restoration Plan for the Rosebank Park Domain to Auckland Council and to wider stakeholders for review by 30 May. Discussions are continuing with Auckland Council regarding the plan.
- Received submissions from Iwi on 'art in design' concepts and features along the new northwestern cycleway at six locations identified in the SH16 Causeway Upgrade Project Urban Design and Landscape Plan.
- Received letter from the Department of Conservation supporting two embankment build outs adjacent to the new northwestern cycleway.

2.3 Construction

 Whau River Bridge (northern side) – installation of two more bridge spans in May (total of four spans installed to date);

- Whau River Bridge (southern side) piling for the westbound spans at the south west abutment complete;
- Patiki to Whau (westbound, around Rosebank Park Domain) earthworks along Rosebank Park Domain batter slope remain on hold following the detection of asbestos, earthworks and preloading for the reclamation of the Coastal Marine Area (CMA) around the raceway channel complete;
- Whau to Rosebank (eastbound) earthworks and rock revetment continuing.
 Mechanically Stabilised Earth wall construction complete and filling is occurring west of the wall:
- Causeway (from North Traherne Island eastbound direction) continue installation of the
 preload fill layer (surcharge) up to full height and coffer dam/stability this is at various
 stages along the embankment. Remedial works required to embankment slumps before
 further earthworks proceeds in these areas. Temporary removal of preload material from
 the trial embankment area. Piling at Causeway Bridge approach continuing.
- Causeway (South Traherne Island, westbound) continue installation of the preload fill layer, commenced vegetation clearance to the east of Traherne Island.
- Great North Road Interchange (GNRI) (northern side, eastbound from Causeway Bridge) –
 installation of preload adjacent to the GNR eastbound on-ramp commenced,
 construction of new revetment under Causeway Bridge complete preload now
 underway, pile installation underway at Causeway Bridge north-western abutment. Filling
 further east of Causeway Bridge continuing.
- GNRI (southern side, westbound towards Causeway Bridge) continue earthworks and utility trenching, timber piling at Oakley Creek basalt transition complete with preload on top of the timber piles proceeding. Installation of steel piles in slip area underway.

3.0 MEETINGS, INSPECTIONS AND EVENTS

1 May and 22 May (2 visits) – Auckland Council's earthworks compliance inspections.

26 May – Auckland Council's coastal compliance inspection.

4.0 ENVIRONMENTAL MONITORING

4.1 EARTHWORKS COMPLIANCE

Compliance Inspections were completed by Auckland Council officers on 1 May and 22 and recorded a compliance score of 1 (Full Compliance).

4.2 CONSTRUCTION NOISE AND VIBRATION

No Site Specific Noise Management Plans were submitted and approved in May.

4.3 AIR QUALITY

No air quality complaints or issues were received during the period.

4.4 CONTAMINATED SOIL

A summary of exported material disposal locations, along with material classifications, sample methods and quantities at various site locations along the alignment during May is included in Appendix A.

Asbestos was identified in small pieces of old broken, building materials in the soils excavated for the batter slope around the edge of the Rosebank Domain. The processes in the Contaminated Soils Management Plan have been followed. Further testing is being undertaken to ascertain the extent of the material and a specialist disposal method. The air quality testing around the site has not shown any particles of asbestos present. Liaison with Auckland Council's contaminated soil specialist remains on-going.

4.5 EROSION AND SEDIMENT CONTROL

Three site specific Erosion and Sediment Control Plans were submitted and approved in May for the earthworks at Rosebank Road off-ramp (CESCP#20), south east Traherne Island (CESCP#21) and Rosebank Road to Patiki Road (westbound) (CESCP#22).

4.6 ARCHAEOLOGICAL

An inspection of Rosebank Park Domain asbestos test trenches along the embankment adjacent to the cycleway and the Rosebank Park Domain access way was undertaken on 9 May. No shell or archaeological deposits were encountered.

4.7 COASTAL MONITORING

A coastal compliance inspection was completed by Auckland Council officers on the 26 May and recorded a compliance score of 1.

A remedial works plan for the Oakley Creek slip was agreed with Council in April. Implementation of the remedial works has commenced with timber piling at Oakley Creek basalt transition complete and preload on top of piles proceeding. The installation of steel piles in the slip area is also underway.

The further slips which occurred on the northern side of the Causeway works on 11 March and 2 April continue to be monitored, surveyed and analysed. Pile installation at the Causeway Bridge north-western abutment has commenced to provide stability to this slip area. Increased instrumentation and frequency of monitoring along the northern side of the Causeway also forms part of the mitigation plan to provide additional data for early intervention.

4.8 MARINE MONITORING

The winter 2014 marine benthic monitoring will be undertaken during June/July/August 2014.

4.9 ECOLOGICAL

An inspection of Significant and Valued vegetation was undertaken on 8 and 22 May at Traherne Island (Zone 1), Patiki Road and Rosebank Park Domain (Zone 2) and Whau River Bridge (Zone 3) and on 22 May at GNRI (Zone 5).

Monthly assessment of avian roosting locations was undertaken at Harbourview-Orangihina (Pony Club) and the temporary roosting rafts at the Causeway Bridge. The monthly avian count at Harbourview – Orangihina for May 2014 was 397 birds compared to the pre-establishment baseline count in May 2010 (276 birds). One coastal bird was observed using the temporary bird roost sites (floating pontoons) installed south of Causeway Bridge, which is consistent with the low level of current adjacent construction activity.

5.0 CORRESPONDENCE ON CONSENT CONDITIONS AND PLANS

Minor change application, to change the area of reclamation and permanent occupation in the CMA in the north-western corner of the Waterview Estuary for the Rosebank Fill Embankment, approved by Auckland Council on 15 May.

6.0 WORKS PROPOSED FOR JUNE, JULY AND AUGUST 2014

Refer Appendix B for Construction Zone Plan.

Zone 1 Causeway

- Eastbound: Continue and complete installing the Continuous Flight Auger piles at Causeway Bridge approach/transitions, working platform, preload fill (surcharge).
- Westbound: Continue and complete vegetation clearance to the east of Traherne Island.
 Divert cycleway onto closed bus lane westbound from Causeway Bridge to Traherne
 Island South, complete earthworks and preload in Traherne Island South (and towards
 Rosebank Road off-ramp). Earthworks and culvert works under Rosebank Road
 westbound off-ramp.

Zone 2 / Zone 3 Whau to Rosebank

- Eastbound: Continue installing new Whau Bridge spans (four left to install). Continue earthworks in this area and complete earthworks on east-bound shoulder east of Whau River Bridge, including treatment swale.
- Westbound: Continue temporary and permanent piling for Whau Bridge widening, commence Whau River Bridge south-west abutment crossheads. Continue and complete earthworks between Whau River Bridge and Patiki Road (including works on Rosebank Park Domain batter slope). Commence works for Patiki Road on-ramp widening/underpass, including temporary diversion of the existing Patiki on-ramp to allow access for piling of the new on-ramp).

Zone 5 GNRI

- East bound: Continue earthworks for preload in an easterly direction alongside Great North Road east-bound off-ramp. Commence works in GNRI Areas 6 and 10.
- Westbound: Commence piling to stabilise Oakley Creek slip area and continue embankment filling. Commencement of the Oakley Creek boardwalk piling.

The environmental focus for June will focus on further assessment of the asbestos found in the Rosebank Park Domain embankment. We will continue to focus on inspections prior to and during vegetation removal, monitoring material movements and ground clearance to ensure ecological and archaeological stand over requirements are met. The establishment and monitoring of sediment and erosion controls and monitoring slumps will also continue.

APPENDIX A – SH16 CAUSEWAY UPGRADE PROJECT IMPORTED AND EXPORTED MATERIALS SUMMARY

Date	Transport Subcontractor	Ordering Zone	Docket#	Material Source	From Area	From Description Non-Import Only	Activity By Cost.Code	To Area	To Description	Specification Description	Material Type	Sample ID	Lab Report ID	Classification	Final Disposal Facility	Conformance	Truck Type	Load Count Truck Volume (T)	Volume (co	otal Volume (m³) onversion factor 1.6 (1 t = 1/1.6)) Total Volume (m³) for	Sample Rate
8/05/2014 8/05/2014	G&C G&C	Zone 3	83081 334193	Site Site	Alwyn Ave Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile		Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil						Truck & Trailer Truck & Trailer	4	28 29.5	17.5 18.4	
9/05/2014	G&C	Zone 3 Zone 3	83145	Site	Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil	1					Truck & Trailer	1	28	17.5	
9/05/2014	G&C G&C	Zone 3 Zone 3	83150 335445	Site Site	Alwyn Ave Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	1					Truck & Trailer Truck & Trailer	1	28 29.5	17.5 18.4	
9/05/2014	G&C	Zone 3	334196	Site	Alwyn Ave		Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil	1					Truck & Trailer		29.5	18.4	
14/05/2014 14/05/2014	G&C G&C	Zone 3 Zone 3	313 291	Site Site	Alwyn Ave Alwyn Ave	Pile Spoil South West Whau Pile Spoil South West Whau	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil						Truck & Trailer Truck & Trailer		25.88 24.92	16.2 15.6	
14/05/2014 14/05/2014	G&C G&C	Zone 3 Zone 3	288 260	Site Site	Alwyn Ave Alwyn Ave	Pile Spoil South West Whau Pile Spoil South West Whau	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	1					Truck & Trailer Truck & Trailer		26.36 22.44	16.5 14	
14/05/2014	G&C	Zone 3	333	Site	Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil	1					Truck & Trailer		23.98	15	
14/05/2014 14/05/2014	G&C G&C	Zone 3 Zone 3	333531 317321	Site Site	Alwyn Ave Alwyn Ave		Cut to Waste From Stockpile Cut to Waste From Stockpile		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	-				Yes - Orinigal source piling at south west	Truck & Trailer Truck & Trailer		46.42 26.36	29 16.5	Total volume of material displaced from SW Whau River Bridge piles (original location of spoil): 496
14/05/2014	G&C G&C	Zone 3 Zone 3	334085 334450	Site Site	Alwyn Ave Alwyn Ave		Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	CA66-SP; CA68-SP	1222421	Cleanfill	Ridge Road Landfill	Whau River Bridge. Sampling of intial piling spoils on northern side of bridge	Truck & Trailer Truck & Trailer		24.92 25.88	15.6 16.2 495.5	m ³ . Two analysed samples relate to piling spoils.
15/05/2014	G&C	Zone 3	494	Site	Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil	0/100 01 , 0/100 01	1222421	Occurring		used as indicitive measure of all piling	Truck & Trailer		28.24	17.7	The current sample rate is one sample per 248 m ³ . This meets the minimum sampling requirements of
15/05/2014 15/05/2014	G&C G&C	Zone 3 Zone 3	499 489	Site Site	Alwyn Ave Alwyn Ave	Pile Spoil South West Whau Pile Spoil South West Whau	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil					works at Whau River Bridge.	Truck & Trailer Truck & Trailer		24.38 22.9	15.2 14.3	one sample per 1000 m ³ for cleanfill.
15/05/2014 15/05/2014	G&C G&C	Zone 3 Zone 3	454 491	Site Site	Alwyn Ave	Pile Spoil South West Whau Pile Spoil South West Whau	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil						Truck & Trailer Truck & Trailer		29.72 32.1	18.6 20.1	
15/05/2014	G&C	Zone 3	309137	Site	Alwyn Ave	r ne opon dodar west what	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil						Truck & Trailer		32.1	20.1	
15/05/2014 15/05/2014	G&C G&C	Zone 3 Zone 3	315003 333968	Site Site	Alwyn Ave Alwyn Ave		Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	<u> </u>					Truck & Trailer Truck & Trailer		29.72 22.4	18.6 14	
15/05/2014	G&C G&C	Zone 3 Zone 3	334530 308680	Site Site	Alwyn Ave Alwyn Ave		Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	1					Truck & Trailer Truck & Trailer	1	24.38	15.2 17.7	
16/05/2014	G&C	Zone 3	502	Site	Alwyn Ave	Pile Spoil South West Whau	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil						Truck & Trailer		29.46	18.4	
16/05/2014	G&C	Zone 3	311309	Site	Alwyn Ave		Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Pile Spoil				Stockpiled onsite at		Truck & Trailer	1	29.46	18.4	
27/05/2014	G&C G&C	Zone 3 Taupuni Shared Waste	310868	Site	Alwyn Ave Taununi Yard	Shared waste stockpile at Taupuni Yard	Cut To Stockpile Cut to Waste From Stockpile	Taupuni Yard Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Cut to Waste	ļ			the Taupuni Yard		6 Wheeler Truck & Trailer	5 8	40 26.18	25 16.4	
12/05/2014	G&C G&C	Taupuni Shared Waste	59	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	1					Truck & Trailer		17.7	11.1	
12/05/2014 12/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1					Truck & Trailer Truck & Trailer		24.12 27.84	15.1 17.4	
12/05/2014	G&C	Taupuni Shared Waste		Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Truck & Trailer Truck & Trailer		18.52 25.28	11.6	
13/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	99	Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1					Truck & Trailer		22.82	14.3	
13/05/2014 13/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1				Yes, with one minor apparent exception where approximately 325 m³ of material displaced from Zone 1F and stored at Taupuni Yard stockpile contained one sample location classed as managed fill (one of eight sample locations). Sample	Truck & Trailer Truck & Trailer		17.9 25.72	11.2 16.1	
13/05/2014	G&C G&C	Taupuni Shared Waste	156	Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		26.42 27.68	16.5 17.3	
14/05/2014	G&C	Taupuni Shared Waste	207	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Truck & Trailer		25.88	16.2	
14/05/2014 14/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		27.9 25.76	17.4 16.1	
14/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		22.92 24.76	14.3	
14/05/2014	G&C	Taupuni Shared Waste	343	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Truck & Trailer		25.24	15.8	
15/05/2014 15/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1					Truck & Trailer Truck & Trailer		30.92 26.56	19.3 16.6	
15/05/2014 19/05/2014	G&C G&C	Taupuni Shared Waste Zone 3	396	Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Insitu Clay / Unsuitables - Stockpile	Cut to Waste From Stockpile Cut To Waste (Single Handle)	Ridge Road Landfill	Cut to Waste General Unsuitable	Cut to Waste Cut to Waste	Cut to Waste Clay - Clean but Unsuitable	-					Truck & Trailer 6 Wheeler		32.98 8	20.6	
19/05/2014 19/05/2014	G&C G&C	Zone 3 Zone 3	309505 311313		Taupuni Yard Taupuni Yard	Insitu Clay / Unsuitables - Stockpile Insitu Clay / Unsuitables - Stockpile	Cut To Waste (Single Handle)	Ridge Road Landfill	General Unsuitable General Unsuitable	Cut to Waste Cut to Waste	Clay - Clean but Unsuitable Clay - Clean but Unsuitable	Taupuni Yard Stockpile has					6 Wheeler 6 Wheeler	1 8		5	
19/05/2014	G&C	Zone 3	323446	Site	Taupuni Yard	Insitu Clay / Unsuitables - Stockpile	Cut To Waste (Single Handle) Cut To Waste (Single Handle)	Ridge Road Landfill	General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable	received material from: South West Whau Bridge					6 Wheeler	1 8	8	5	
19/05/2014 19/05/2014	G&C G&C	Zone 3 Taupuni Shared Waste	308411 2 778	Site Site	Taupuni Yard Taupuni Yard	Insitu Clay / Unsuitables - Stockpile Shared waste stockpile at Taupuni Yard	Cut To Waste (Single Handle) Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	General Unsuitable Cut to Waste	Cut to Waste Cut to Waste	Clay - Clean but Unsuitable Cut to Waste	piling spoil (initially					6 Wheeler Artic	1 8	8 14.86	9.3	
20/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	1071	Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	stockpiled at Alwyn Ave) (CA66-SP; CA68-SP); Zone					Truck & Trailer Truck & Trailer		26.48 30.72	16.6 19.2	
20/05/2014	G&C	Taupuni Shared Waste	1163	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	1D piling spoil and surface stripping (CA71 and BECA					Truck & Trailer		26.42	16.5	
20/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	samples (WS653 (1.2 m; 4.8		Cleanfill (CA05: CA15: CA16:			Truck & Trailer Truck & Trailer		24.14 26.54	15.1 16.6	
20/05/2014	G&C G&C	Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	m); WS654 (0.6-0.8 m; 4-5 m)); Zone 1E (BECA sample		CA17; CA18; CA19; CA20;			Truck & Trailer Truck & Trailer		26.92 27.68	16.8 17.3	Total volume of material displaced from Taupuni
20/05/2014	G&C	Taupuni Shared Waste	1084	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	BH407); Zone 1F (CA21;	1162411; 1175713; 1176303: 1182532;	CA21; CA23; CA34; CA44; CA66 SP; CA68-SP; CA75; BH403;		CA43 recorded a lead concentration (400 mg/kg) above Ridge Road cleanfill criteria	Truck & Trailer		25.48	15.9	stockpile: 1106 m ³ . Three analysed samples relate
20/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	CA22. CA23; CA43; CA44 and BECA samples (WS430;	1215417; 1222421;	BH406; BH407; BH459; DH460;	Ridge Road Landfill	(300 mg/kg). TCLP analysis was	Truck & Trailer Truck & Trailer		25.18 22.1	15.7 13.8 1106	to the Taupuni stockpile. The current sample rate is
20/05/2014	G&C G&C	Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	WS666; W669A)); Zone 2J (CA18; CA19; CA20; CA75	1226072. Refer to G9 report for BECA	WS430; WS651; WS652; WS653; WS654; WS666;		conducted and recorded 0.030 mg/L (Ridge Road managed fill criteria 0.5	Truck & Trailer Truck & Trailer		23.18 26.5	14.5 16.6	one sample per 369 m ³ . This meets the minimum sampling requirements of one sample per 1000 m ³
20/05/2014	G&C	Taupuni Shared Waste	1065	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile		Cut to Waste	Cut to Waste	Cut to Waste	and BECA samples (BH459	samples.	WS669A). Cleanfill conditional (CA22; CA35; CA71). Managed		mg/L). Ridge Road has accepted concentrations based on the median	Truck & Trailer		25.62	16	for cleanfill.
20/05/2014 20/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste				Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard			Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	(0.9 m); DH460)); Zone 3F (CA15); Zone 3H (CA16;		fill (CA43).		concentration of the material which is	Truck & Trailer Truck & Trailer		28.9 25.74	18.1 16.1	
20/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste		Site Site	Taupuni Yard Taupuni Yard		Cut to Waste From Stockpile Cut to Waste From Stockpile		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	CA17); Zone30 (CA34;				acceptable. CA22, WS430, WS666 and WS669A had minor PAH detections -	Truck & Trailer Truck & Trailer		25.16 26.66	15.7 16.7	
20/05/2014	G&C	Taupuni Shared Waste	942	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	CA35; CA66-SP; CA68-SP); Zone 3P (CA34); Zone 5-				Ridge Road has accepted minor	Truck & Trailer		25.76	16.1	
20/05/2014 20/05/2014	G&C G&C		1067	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard		Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Area 2 (CA05 and BECA samples (WS652, BH406,				exceedences for PAHs.	Truck & Trailer Truck & Trailer		25.2 26.16	15.8 16.4	
20/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	1055	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	WS651, BH403); Zone 5-					Truck & Trailer Truck & Trailer		27.5 27.16	17.2 17	
22/05/2014	G&C	Taupuni Shared Waste	1327	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	Area 5 (no samples – approx. 30 m3).					Truck & Trailer		26.64	16.7	
22/05/2014 22/05/2014	G&C G&C	Taupuni Shared Waste Taupuni Shared Waste				Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	аррия. от тој.					Truck & Trailer Truck & Trailer		27.66 25.76	17.3 16.1	
22/05/2014	G&C G&C	Taupuni Shared Waste		Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1					Truck & Trailer Truck & Trailer		26.76 29.26	16.7 18.3	
22/05/2014	G&C	Taupuni Shared Waste	1322	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	1					Truck & Trailer		28.12	17.6	
22/05/2014 22/05/2014			1240	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste]					Truck & Trailer Truck & Trailer		28.82 27.18	18 17	
22/05/2014 22/05/2014		Taupuni Shared Waste Taupuni Shared Waste				Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile Cut to Waste From Stockpile		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	1					Truck & Trailer Truck & Trailer		27.26 26.5	17 16.6	
22/05/2014 23/05/2014	G&C		1210	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		25.22 29.8	15.8 18.6	
23/05/2014	G&C	Taupuni Shared Waste	1343	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Truck & Trailer		29.08	18.2	
23/05/2014 23/05/2014		Taupuni Shared Waste Taupuni Shared Waste				Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard			Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		27.72 29.44	17.3 18.4	
23/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	1351	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		27.98 29.32	17.5 18.3	
23/05/2014	G&C	Taupuni Shared Waste	1348	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste						Truck & Trailer		24.2	15.1	
23/05/2014 27/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	1689	Site	Taupuni Yard	Shared waste stockpile at Taupuni Yard Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste						Truck & Trailer Truck & Trailer		28.98 26.4	18.1 16.5	
27/05/2014 27/05/2014	G&C	Taupuni Shared Waste Taupuni Shared Waste	1690	Site	Taupuni Yard Taupuni Yard	Shared waste stockpile at Taupuni Yard	Cut to Waste From Stockpile	Ridge Road Landfill	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	-					Truck & Trailer Truck & Trailer		29.44 28.86	18.4	
27/05/2014						Shared waste stockpile at Taupuni Yard					Cut to Waste	1					Truck & Trailer		25.74	16.1	

SH16 Causeway Upgrade - May 2014 Materials Tally On Site Materials Movement and Disposal to Landfill

							ī							ı			1		_		Total	
Date	Transport Subcontractor	Ordering Zone	Docket#	Material Source	From Area	From Description Non-Import Only	Activity By Cost.Code	To Area	To Description	Specification Description	Material Type	Sample ID	Lab Report ID	Classification	Final Disposal Facility	Conformance	Truck Type	Load Vol	uck Total ume Volum T) (T)	Total Volume (m ³) (conversion factor of 1.6 (1 t = 1/1.6))	Volume (m³) for	Sample Rate
29/05/2014	G&C	Zone 1	1981	Site	Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)	Didaa Daad Laadel	Cut to Waste	Cut to Waste	Pile Spoil				-		Artic	,	16.02		Mav	
29/05/2014	G&C G&C	Zone 1 Zone 1	2019	Site	Zone 1 - Area D	CFA Piling Spoil - Marine Mud CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)	Ridge Road Landfil Ridge Road Landfil	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil	1					Artic		17.34		1	
29/05/2014	G&C	Zone 1	2059		Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Pile Spoil	1					Artic		16.14			
29/05/2014	G&C	Zone 1	1965	Site		CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Pile Spoil						Artic		13.84		1	
29/05/2014	G&C	Zone 1	1999	Site	Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Pile Spoil	BECA samples WS653 (1.2					Artic		17.62			
29/05/2014	G&C G&C	Zone 1 Zone 1	2045 1969	Site	Zone 1 - Area D Zone 1 - Area D	CFA Piling Spoil - Marine Mud CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle) Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	m; 4.8 m); WS654 (0.6-0.8	Refer to G9 Report.	Cleanfill	Ridge Road Landfill	dfill Yes	Artic Artic		18.04 16.04		125	
29/05/2014	G&C	Zone 1	2004	Site	Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Pile Spoil	m; 4-5 m)					Artic		16.79		1	
29/05/2014	G&C	Zone 1	2050		Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Pile Spoil						Artic		13.62		1	
30/05/2014	G&C	Zone 1	2096		Zone 1 - Area D	CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle)			Cut to Waste	Pile Spoil	4					Artic		17.24		4	
30/05/2014	G&C G&C	Zone 1 Zone 1	2095 2097		Zone 1 - Area D Zone 1 - Area D	CFA Piling Spoil - Marine Mud CFA Piling Spoil - Marine Mud	Cut To Waste (Single Handle) Cut To Waste (Single Handle)			Cut to Waste Cut to Waste	Pile Spoil Pile Spoil	1					Artic Artic		17.58		1	
15/05/2014														Cleariiii conditionai (CA71						37.5		Total volume of material displaced from Zone 1D
\vdash	G&C	Zone 1	GC 335278	Site	Zone 1 - Area D	strippings	Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Cut to Waste	4		recorded minor PAH detections			6 Wheeler	6	10 60		1	(shallow material): 213 m ³ . One analysed sample
15/05/2014	G&C	Zone 1	GC 308743	Site	Zone 1 - Area D		Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Cut to Waste	CA71	1226072	including minor exceedence (0.04 mg/kg) of Ridge Road	Stockpiled onsite at	Yes	6 Wheeler	6	10 60	37.5	213	relates to Zone 1D (shallow material). The current
16/05/2014	G&C	Zone 1	GC 308486	Site	Zone 1 - Area D		Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Cut to Waste	CATT	1220072	cleanfill criteria for	the Taupuni Yard	165	6 Wheeler	11	110	68.8	210	sample rate is one sample per 213 m ³ . This meets
\vdash							i i					 		benzo[a]pyrene (BAP) (0.027					110	68.8	1	the minimum sampling requirements of one sample
16/05/2014	G&C	Zone 1	GC 335279	Site	Zone 1 - Area D		Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Cut to Waste			ma/ka))			6 Wheeler	11	110	68.8		per 1000 m ³ for cleanfill.
26/05/2014	G&C	Zone 1	GC 335289	Site	Zone 1 - Area E	strippings	Cut To Waste (Single Handle)	Taupuni Yard	Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	BECA sample - BH407	Refer to G9 Report	Cleanfill (BECA had classed BH407 as managed fill but on	Stockpiled onsite at	Yes	6 Wheeler	8	10 80	50	100	Total volume of material displaced from Zone 1F: 100 m ³ . One analysed sample relates to Zone 1E. The current sample rate is one sample per 100 m ³ .
26/05/2014	G&C	Zone 1	GC 334645	Site	Zone 1 - Area E	strippings	Cut To Waste (Single Handle)	Taupuni Yard	Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	DEOX sample - bi 1407	Neiel to G5 Nepult	review determined to be cleanfill).	the Taupuni Yard	165	6 Wheeler	8	10 80	50	100	This meets the minimum sampling requirements of one sample per 1000 m ³ for cleanfill.
28/05/2014	G&C	Zone 1	1935	Site	Zone 1 - Area F		Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable		İ		Ridge Road Landfill	CA22 and CA42 arrested 0.5 to 1.2	Artic		19.84	4 12.4	j	
14/05/2014	G&C	Zone 1	GC 334629	Site	Zone 1 - Area F		Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable]				CA22 and CA43 exceeded Schedule 10 permitted discharge for lead (concentration	6 Wheeler		10 10	0.0		[
16/05/2014	G&C	Zone 1	GC 334633		Zone 1 - Area F		Cut To Stockpile		General Unsuitable	Cut to Waste	Cut to Waste	4		CA21, CA23, CA44, WS430 and		of lead at CA22 was 270 mg/kg and at	6 Wheeler		10 10		4	Total volume of material displaced from Zone 1F:
22/05/2014	G&C G&C	Zone 1 Zone 1	GC 310862 GC 333859	Site	Zone 1 - Area F Zone 1 - Area F		Cut To Stockpile Cut To Waste (Single Handle)	Taupuni Yard Taupuni Yard	General Unsuitable General Unsuitable	Cut to Waste Cut to Waste	Cut to Waste Topsoil - Clean but Unsuitable	4		WS669A all cleanfill (BECA had		CA43 was 400 mg/kg, Auckland S10	6 Wheeler 6 Wheeler		10 130 10 40		1	1365 m ³ (includes 1040 m ³ already displaced in
22/05/2014	G&C	Zone 1	GC 335286		Zone 1 - Area F		Cut To Waste (Single Handle)			Cut to Waste	Topsoil - Clean but Unsuitable	CA21; CA22. CA23; CA43,	1176303; 1215417.	classed WS430, WS666 and		permitted discharge limit is 250 mg/kg) -	6 Wheeler	4			1	October 2013): Eight analysed samples relate to
23/05/2014	G&C	Zone 1	GC 335287		Zone 1 - Area F	strippings	Cut To Waste (Single Handle)			Cut to Waste	Topsoil - Clean but Unsuitable	CA44. (BECA samples:	(Refer to G9 Report	WS669A as managed fill but on review determined to be	Stockpile onsite at	material unable to be reused onsite.	6 Wheeler		10 50		325	Zone 1F. The current sample rate is one sample per
23/05/2014	G&C	Zone 1	GC 334642	Site		strippings	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	WS430; WS666; W669A)	for BECA results)	acceptable for Ridge Road	the Taupuni Yard	Material at CA22 below Ridge Road	6 Wheeler		10 30			171 m ³ . This meets the minimum sampling
26/05/2014	G&C	Zone 1	GC 308495		Zone 1 - Area F	strippings	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	4		cleanfill). CA22 cleanfill		cleanfill criteria for lead, however CA43	6 Wheeler	3		18.8	4	requirements of one sample per 1000 m ³ for
27/05/2014	G&C G&C	Zone 1 Zone 1	GC 333862 GC 333863		Zone 1 - Area F Zone 1 - Area F	strippings	Cut To Waste (Single Handle) Cut To Waste (Single Handle)			Cut to Waste Cut to Waste	Topsoil - Clean but Unsuitable Topsoil - Clean but Unsuitable	1		conditional. CA43 managed fill.		was above and required managed fill	6 Wheeler 6 Wheeler	7			1	cleanfill and 500 m ³ for managed fill.
		ZUIIC I		Oito	Zone i - Alea i			raapani raia	Out to Waste	Out to Waste	Topodi - Ordan but Orioditable					disposal. CA22, WS430, WS666 and WS669A had minor PAH detections -	O WIICCICI		10 70		1	
29/05/2014	G&C	Zone 1	GC 335292	Site	Zone 1 - Area F	Topsoil	Cut To Waste (Single Handle)	Taupuni Yard	Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable					Pidgo Poad cloanfill has acconted minor	6 Wheeler	4	10 40	25		
8/05/2014	G&C	Zone 2	12488	Site	Zone 2 - Area D	Topsoil strip	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Topsoil - Clean but unsuitable						Truck & Trailer		28		1	
8/05/2014	G&C	Zone 2	83028 83046	Site	Zone 2 - Area D	Topsoil strip			Cut to Waste	Cut to Waste	Topsoil - Clean but unsuitable	4					Truck & Trailer		28		4	
8/05/2014 8/05/2014	G&C G&C	Zone 2 Zone 2	83049		Zone 2 - Area D Zone 2 - Area D	Topsoil strip Topsoil strip	Cut To Waste (Single Handle) Cut To Waste (Single Handle)		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Topsoil - Clean but unsuitable Topsoil - Clean but unsuitable	1			Ridge Road Landfill	Yes - Ridge Road cleanfill able to accept	Truck & Trailer Truck & Trailer		28 28		1	Total volume of material displaced from Zone 2D:
8/05/2014	G&C	Zone 2	83096		Zone 2 - Area D	Topsoil strip	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Topsoil - Clean but unsuitable	1				up to 120 mg/kg TPH C7 - C9.	Truck & Trailer		28		1	1655 m ³ (includes 761 m ³ displaced in November
8/05/2014	G&C	Zone 2	83107		Zone 2 - Area D	Topsoil strip	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil - Clean but unsuitable			Cleanfill conditional (CA66 recorded a minor TPH C7 - C9			Truck & Trailer		28			2013 and 626 m ³ displaced in March 2014). Two
8/05/2014	G&C	Zone 2	83114	Site	Zone 2 - Area D	Topsoil strip	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil - Clean but unsuitable	CA66; CA76	1226072			CA76 exceeded Schedule 10 permitted	Truck & Trailer		28	17.5	268	analysed samples relate to Zone 2D. The current
6/05/2014	G&C	Zone 2	308477	Site	Zone 2 - Area D	Cut to waste	Cut To Stockpile	Zone 2 - Area D	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable			detection (18 mg/kg).		discharge for nickel (concentration of nickel at CA76 was 112 mg/kg, Auckland 6 Wheeler	6 Wheeler	5	40	25		sample rate is one sample per 828 m ³ . This meets
21/05/2014			333858	011			0.70					1			Stockpiled onsite at Zone 2 - Area D				72	45	1	the minimum sampling requirements of one sample
H	G&C	Zone 2	333858	Site	Zone 2 - Area D	Cut to waste	Cut To Stockpile	Zone 2 - Area D	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable					S10 permitted discharge limit is 105	on 6 Wheeler 6	9	/2		4	per 1000 m ³ for cleanfill.
22/05/2014	G&C	Zone 2	308491	Site	Zone 2 - Area D	Cut to waste	Cut To Stockpile	Zone 2 - Area D	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable				Zone Z - Alea D	mg/kg). Material unable to be reused on		6	48	30		
23/05/2014	G&C	Zone 2	333860	Site	Zone 2 - Area D	Cut to waste	Cut To Stockpile	Zone 2 - Area D	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable					site, appears to conform as material was stockpiled as cut to waste.	6 Wheeler	9	72	45		
29/05/2014	G&C	Zone 2	335293	Site	Zone 2 - Area J	Patiki onramp temp diversion pavement cut	Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	CA18; CA19; CA20; CA75.	1176303; 1226072.		Stockpiled onsite at		6 Wheeler	4	10 40	25		Total volume of material displaced from Zone 2J: 83 m³ (includes 45 m³ displaced in April 2014). Six analysed samples relate to Zone 2J. The current
30/05/2014	G&C	Zone 2	334648	Site	Zone 2 - Area J	Patiki onramp temp diversion pavement cut	Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	(BECA samples: BH459 (0.9 m); DH460)	(Refer to G9 Report for BECA results).	Cleanfill	the Taupuni Yard	Yes	6 Wheeler	1 1	10 10	6.3	37.5	sample rate is one sample per 14 m ³ . This meets the minimum sampling requirements of one sample
30/05/2014	G&C	Zone 2	335296	Site	Zone 2 - Area J	Patiki onramp temp diversion pavement cut	Cut To Stockpile	Taupuni Yard	General Unsuitable	Cut to Waste	Topsoil & Clay - Clean but Unsuitable		1		j		6 Wheeler	1 .	10 10	6.3		per 1000 m ³ for cleanfill.
1/05/2014	G&C	Zone 3	82388		Zone 3 - Area E	. Son omany compared paremett cut	Cut To Waste (Single Handle)		Cut to Waste	Cut to Waste	Clean Fill	 			 		Truck & Trailer	1	28.5	17.8	†	·
1/05/2014	G&C	Zone 3	82410	Site	Zone 3 - Area E		Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Clean Fill	1					Truck & Trailer	1	28.5	17.8	1	
1/05/2014	G&C	Zone 3	82424	Site	Zone 3 - Area E	0.11	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Clean Fill	4			[Truck & Trailer	1	28.5	17.8	1	
1/05/2014	G&C G&C	Zone 3 Zone 3	82372 82396	Site Site		Cut to waste Cut to waste	Cut To Waste (Single Handle) Cut To Waste (Single Handle)		Cut to Waste Cut to Waste	Cut to Waste Cut to Waste	Topsoil - Clean but Unsuitable Topsoil - Clean but Unsuitable	4	1		j		Truck & Trailer Truck & Trailer		28 28		1	
1/05/2014	G&C	Zone 3	82420	Site		Cut to waste			Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	1	1		j		Truck & Trailer		28		1	
1/05/2014	G&C	Zone 3	82379	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	1	1		j		Truck & Trailer				1	Total volume of material displaced from Zone 3E:
1/05/2014	G&C	Zone 3	82422	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable]			[Truck & Trailer		28 28	17.5]	2623 m ³ (includes 215 m ³ displaced in December
2/05/2014	G&C	Zone 3	82439	Site		Cut to waste	Cut To Waste (Single Handle)			Cut to Waste	Topsoil - Clean but Unsuitable	4	1		j		Truck & Trailer		28	17.5	4	2014, 660m ³ displaced in January 2014, 298 m ³
2/05/2014	G&C G&C	Zone 3 Zone 3	82479 82486	Site Site	Zone 3 - Area E Zone 3 - Area E	Cut to waste Cut to waste	Cut To Waste (Single Handle) Cut To Waste (Single Handle)			Cut to Waste Cut to Waste	Topsoil - Clean but Unsuitable Topsoil - Clean but Unsuitable	1	1175713. (Refer to		[Truck & Trailer Truck & Trailer	-	28 28	17.5 17.5	1	displaced in February 2014, 825 m ³ displaced in
2/05/2014		Zone 3	82490	Site	Zone 3 - Area E	Cut to waste	Cut To Waste (Single Handle)			Cut to Waste	Topsoil - Clean but Unsuitable Topsoil - Clean but Unsuitable	CA15. (BECA samples	G9 Report for BECA	Cleanfill	Ridge Road Landfill	Yes	Truck & Trailer			17.5	403.4	March 2014 and 222 m ³ displaced in April 2014).
2/05/2014	G&C	Zone 3	82493	Site	Zone 3 - Area E Zone 3 - Area E	Cut to waste	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil - Clean but Unsuitable	BH470 (0.3 m; 2.6 m))	results)		"		Truck & Trailer		28 28 28	17.5]	Three analysed samples relate to Zone 3E. The
5/05/2014	G&C	Zone 3	82678	Site	Zone 3 - Area E		Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Cut to Waste	4	l '		j		Truck & Trailer		28	17.5	4	current sample rate is one sample per 874 m ³ . This
5/05/2014 5/05/2014	G&C	Zone 3 Zone 3	82669 82675	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work) Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable Topsoil & Clay - Clean but Unsuitable	4	1		j		Truck & Trailer Truck & Trailer		28 28	17.5 17.5	1	meets the minimum sampling requirements of one
6/05/2014	G&C	Zone 3	82768	Site	Zone 3 - Area F	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable Topsoil & Clay - Clean but Unsuitable	†					Truck & Trailer		28	17.5	1	sample per 1000 m ³ for cleanfill.
6/05/2014	G&C	Zone 3	82804	Site	Zone 3 - Area F	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	1	1		j		Truck & Trailer		28	17.5	1	
7/05/2014	G&C	Zone 3	82909	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work) Topsoil stripping from patiki off ramp (stu's work) Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable]	1		j		Truck & Trailer		28 28 28	17.5]	
7/05/2014	G&C	Zone 3	82916	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	4					Truck & Trailer		28	17.5	4	
7/05/2014 7/05/2014		Zone 3 Zone 3	82928	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable Topsoil & Clay - Clean but Unsuitable	4	1		j		Truck & Trailer Truck & Trailer		28	17.5 17.5	1	
7/05/2014	G&C	Zone 3 Zone 3	82975	Site	Zone 3 - Area E	Topsoil stripping from patiki off ramp (stu's work) Topsoil stripping from patiki off ramp (stu's work)	Cut To Waste (Single Handle)	Ridge Road Landfil	Cut to Waste	Cut to Waste	Topsoil & Clay - Clean but Unsuitable Topsoil & Clay - Clean but Unsuitable	1	1		j		Truck & Trailer		28	17.5	1	
110012017				3.10			(onigio rialidio)	-3			, is a single street of the st									11.0		t

SH16 Causeway Upgrade - May 2014 Materials Tally On Site Materials Movement and Disposal to Landfill

Date	Transport Subcontractor	Ordering Zone	Docket #	Material Source	From Area	From Description Non-Import Only	Activity By Cost.Code	To Area	To Description	Specification Description	Material Type	Sample ID	Lab Report ID	Classification	Final Disposal Facility	Conformance	Truck Type	Load Count	Volume	/olume	Total Volume (m³) (conversion factor of 1.6 (1 t = 1/1.6))	Total Volume (m ³) for Mav	Sample Rate
14/05/2014	G&C	Zone 2	308484	Site	Zone 3 - Area N	Cut Rocks from VCC platform	Cut To Stockpile	Zone 3 - Area M	Stockpile	Cut to Waste	Topsoil & Clay - Clean but Unsuitable	CA35	1182532	Cleanfill conditional (Minor exceedence (0.09 mg/kg) of Ridge Road cleanfill criteria for Benzo[a]pyrene (BAP) (0.027 mg/kg))	Stockpiled onsite at Zone 3 - Area M	Yes	6 Wheeler	4	8	32	20	20	Total volume of material displaced from Zone 3N: 669 m³, (Includes 649 m³ already displaced in March 2014). One analysed sample relates to Zone 3N. The current sample rate is one sample per 669 m³. This meets the minimum sampling requirements of one sample 1000 m³ for cleanfill
8/05/2014	G&C	Zone 3	334074	Site	Zone 3 - Area O		Cut To Waste (Single Handle)	Ridge Road Landfill	General Unsuitable	What Specification?	Topsoil & Clay - Clean but Unsuitable	CA34; CA35 (Zone 3- Area		Cleanfill conditional (CA35 minor	Ridge Road	Yes	Truck & Trailer	2		49	30.6		
8/05/2014	G&C	Zone 3	335444	Site	Zone 3 - Area O		Cut To Waste (Single Handle)	Ridge Road Landfill	General Unsuitable	What Specification?	Topsoil & Clay - Clean but Unsuitable	O covers Whau River Bridge therefore Zone 3 - Areas N and P are included for material relating to or near	1182532 Ridge Road cle Benzo[a]pyrene mg/kg)). CA34	exceedence (0.09 mg/kg) of Ridge Road cleanfill criteria for	rauge road	165	Truck & Trailer	1		29.5	18.4		
7/05/2014	G&C	Zone 3	307739	Site	Zone 3 - Area O		Cut To Stockpile	Taupuni Yard	General Unsuitable	What Specification?	Topsoil & Clay - Clean but Unsuitable			Benzo[a]pyrene (BAP) (0.027 mg/kg)). CA34 is classed as	01-1-7-1		6 wheeler	2	8	16	10	119.1	
7/05/2014	G&C	Zone 3	307740	Site	Zone 3 - Area O		Cut To Stockpile	Taupuni Yard	General Unsuitable	What Specification?	Topsoil & Clay - Clean but Unsuitable				Stockpiled onsite at the Taupuni Yard	Yes	6 wheeler	11	8	88	55 5		
8/05/2014	G&C	Zone 3	310707	Site	Zone 3 - Area O		Cut To Stockpile	Taupuni Yard	General Unsuitable	What Specification?	n? Topsoil & Clay - Clean but Unsuitable the sur	the surface)		cleanfill.	aio raspaii rais		6 wheeler	1	8	8			
3/05/2014	G&C	Zone 3	334618	Site	Zone 3 - Area P	cut for working platform	Cut To Stockpile	Alwyn Ave	Stockpile	Cut to Waste	Clay - Clean but Unsuitable				Stockpiled onsite at Alwyn Ave	Yes 6	6 Wheeler	8	8	64	40		Total volume of material displaced from Zone 3P: 405 m³ (Includes 280 m³ already displaced in December 2013). One analysed sample relates to Zone 3P. The current sample rate is one sample per 125 m³. This meets the minimum sampling
7/05/2014	G&C	Zone 3	333960	Site	Zone 3 - Area P	Insitu Clay / Unsuitables -	Cut To Waste (Single Handle)	Ridge Road Landfill	General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable				Ridge Road Landfill		6 Wheeler	1	8	8	5		
8/05/2014	G&C	Zone 3	309303	Site	Zone 3 - Area P	Insitu Clay / Unsuitables -	Cut To Waste (Single Handle)		General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable]					6 Wheeler	1	8	8	5		
9/05/2014	G&C	Zone 3	334328	Site	Zone 3 - Area P	Insitu Clay / Unsuitables -	Cut To Waste (Single Handle)		General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable	<u></u>				Yes	6 Wheeler	1	8	8	5	125 Zone	
15/05/2014		Zone 3	333535	Site	Zone 3 - Area P	Insitu Clay / Unsuitables -	Cut To Waste (Single Handle)		General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable	CA34	1182532	Cleanfill			6 Wheeler	2	8	16	10		
15/05/2014		Zone 3 Zone 3	317324 309607	Site Site	Zone 3 - Area P Zone 3 - Area P	Insitu Clay / Unsuitables - Insitu Clay / Unsuitables -	Cut To Waste (Single Handle) Cut To Waste (Single Handle)		General Unsuitable General Unsuitable	Cut to Waste Cut to Waste	Clay - Clean but Unsuitable Clay - Clean but Unsuitable	4					6 Wheeler 6 Wheeler	1	8	8	5		
19/05/2014		Zone 3	335280	Site	Zone 3 - Area P	Insitu Clay / Onsultables -	Cut To Waste (Single Handle)	Taupuni Yard	General Unsuitable	Cut to Waste	Clay - Clean but Unsuitable Clay - Clean but Unsuitable	1			Stockpiled onsite at	Yes	6 Wheeler	6	0	40	5	requirements of one sample per 1000 m ³ for cleanfill.	
19/03/2014	Gac	Zurie 3	333200	Site	Zurie 3 - Area F		Cut 10 Waste (Siligle Hallule)	raupurii raiu	Gerierai Orisultable	Cut to waste	Clay - Clean but Orisultable	_			the Taupuni Yard	165	0 Wileelei	0	0	40	30		Geallin.
8/05/2014	G&C	Zone 3	334623	Site	Zone 3 - Area P		Cut To Stockpile	Zone 3 - Area P	Cut to Waste	Cut to Waste	Clay - Managed				Stockpiled onsite at Zone 3 - Area P	Yes	6 Wheeler	4	8	32	20		
1/05/2014	G&C	Zone 5	317129	Site	Zone 5 - Area 2	Cut to waste	Cut To Waste (Single Handle)	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Artic	1	20	20	12.5		Area 2: 381 m ³ (includes 12 m ³ displaced in
1/05/2014	G&C	Zone 5	335344	Site	Zone 5 - Area 2	Cut to waste	Cut To Waste (Single Handle)	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste	CA05. (BECA samples BH403 (0.5 m; 3.0 m); BH406; WS651; WS652)	1162411. (Refer to G9 Report for BECA results).		Ridge Road Landfill	Yes	Artic	1	20	20	12.5	81.3	September 2013 and 288 m3 displaced in April 2014). Three analysed samples relate to Zone 5
1/05/2014	G&C	Zone 5	334069	Site	Zone 5 - Area 2	Cut to waste	Cut To Waste (Single Handle)	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste					res	Truck & Trailer	2	30	60	37.5	Are	Area 2. The current sample rate is one sample per 127 m ³ . This meets the minimum sampling
2/05/2014	G&C	Zone 5	311989	Site	Zone 5 - Area 2	Cut to waste	Cut To Waste (Single Handle)	Ridge Road Landfill	Cut to Waste	Cut to Waste	Cut to Waste						Truck & Trailer	1	30	30	18.75		requirements of one sample per 1000 m ³ for

APPENDIX B – SH16 CAUSEWAY UPGRADE PROJECT CONSTRUCTION ZONES PLAN

