31. PROPOSED RESOURCE CONSENT CONDITIONS

31.1. Introduction

The NZTA has proposed a suite of conditions to be attached to the resource consents to manage effects of the Project. These are outlined below.

31.2. Guide to reading the conditions

The proposed suite of conditions to manage effects of the Project has been numbered in order to eliminate confusion, specifically to avoid multiple 'Condition 1' and so forth. The numbering format is as follows:

The NZTA regional resource consent conditions	
G	General conditions applying to all resource consents.
E	Conditions applying to consents for the excavation and deposition of fill over unconfined or semi-confined aquifers and the Coastal Confined Gravel Aquifer System.
BC	Conditions applying to consents for the construction of boreholes/ infiltration galleries and wells.
GT	Conditions applying to the consent for the taking of groundwater.
D	Conditions applying to the consent for the temporary and permanent diversion and take of water in stockwater races.
DP	Conditions applying to the consents for the discharges to water and land associated with construction and operation of the Project.
DA	Conditions applying to the consent for the discharge of dust to air associated with construction of the Project.
HS	Conditions applying to the consent for the storage and use of hazardous substances during construction
BR	Conditions applying to the consent for activities within the bed of a river associated with the construction of the Project.

The NZTA district resource consent conditions	
CL	Conditions applying to the consents in relation to potentially contaminated land under the National Environmental Standards for Assessing and Managing Contaminants in Soil to Protect Human Health.

The table below provides explanation to a number of the acronyms and terms used in the conditions:

Definitions	
AEE	Means the CSM2 and MSRFL ("Project") Assessment of Effects on the Environment (Volume 2) dated November 2012
AEP	Means the Annual Exceedence Probability
BPO	Means the Best Practicable Option
CCC	Means the Christchurch City Council
CEMP	Means the Construction Environmental Management Plan
Consent Holder	Means the New Zealand Transport Agency
CRC	Means the Canterbury Regional Council
Commencement of Works	Means the time when the works that are authorised by the resource consents commence
Manager	Means the Regulatory Manager of Canterbury Regional Council
Project	Means the construction, operation and maintenance of the Christchurch Southern Motorway Stage 2 (CSM2), and the widening and upgrading of SH1 Main South Road between Robinsons Road and Rolleston to provide a four-lane median separated expressway (Main South Road Four Laning known as MSRFL), and includes associated local road works, including new rear access roads
Road Controlling Authority	Means the relevant Road Controlling Authority (Selwyn District Council or Christchurch City Council)
RMA	Means the Resource Management Act 1991
SDC	Means the Selwyn District Council
SEMP	Means Specialised Environmental Management Plan
Work	Means any activity or activities undertaken in relation to the construction and operation of the Project

31.3. Proposed regional resource consent conditions

31.3.1. General conditions

Except as specified otherwise, the general conditions shall apply to the regional resource consents as specified in the table below. In addition, a number of resource consents have specific conditions that will apply as outlined in the sections below the general conditions.

Ref	Draft regional consent conditions	Applicable resource consent
	General and Administration	
G.1	Except as modified by the conditions below, and subject to final design, the Project shall be undertaken in general accordance with the information provided by the Consent Holder in the resource consent applications dated November 2012 and supporting documents being: (a) Assessment of Environmental Effects report, dated November 2012 (b) Plan sets: i. Layout Plans: 62236-A-C020-C029 & 62236-B-C020-C038 ii. Plan and Longitudinal Sections: 62236-A-C100-C133 & 62236-B-C101-C163 iii. Typical Cross Sections: 62236-A-C171-C173 & 62236-B-C171-C173 iv. Pavement Surfaces: 62236-A-C250-C253 & 62236-B-C250-C255 v. Cycle Path Plans: 62236-B-C315-C316 vi. Drainage Layout Plans: 62236-A-C401-C412 & 62236-B-C401-C426 vii. Drainage Details: 62236-A-C451-C463 & 62236-B-C451-C466 viii. Signage Plans: 62236-A-C501-C508 & 62236-B-C501-C517 ix. Land Requirement Plans: 62236-A-C1101-C1110 & 62236-B-C1101-C1118 x. Structural Plans: 62236-B-S000-S083 xi. Landscape Planting Plans: 62236-A-L011-L018 & 62236-B-L011-L024 xii. Lighting Plans: 16.001630, sheets 1-20 Where there is conflict between the documents lodged and the conditions, the conditions shall prevail.	All
G.2	The Canterbury Regional Council shall be notified in writing of the intention to commence construction work at least three months prior to the start of construction activities.	All

Ref	Draft regional consent conditions	Applicable resource consent
G.3	All operational personnel involved with the construction of the Project shall be made aware of, and have access to, all consent documents, conditions and management plans applicable to the construction, maintenance and operation of the Project. A copy shall be kept on site at all times.	All
G.4	Pursuant to section 125(1) of the RMA, this consent shall lapse 15 years from the date of its commencement (pursuant to Section 116(5) of the RMA) unless it has been given effect, surrendered or been cancelled at an earlier date.	All
G.5	Pursuant to section 123(d) of the RMA, this consent shall expire 35 years from the date of its commencement (pursuant to Section 116(5) of the RMA).	All
	Management Plans - General	
G.6	At least three months prior to the commencement of works, the Consent Holder shall submit information to the Manager to demonstrate that the proposed certifier (required by Condition G.7) is independent, suitably qualified and experienced. If no response is provided by the Canterbury Regional Council within 10 working days of the Consent Holder sending the information, the person shall be deemed to be approved by the Canterbury Regional Council. If the Manager does not approve the person(s) proposed by the Consent Holder, reasons should be provided to indicate why the person(s) is not considered to be suitable. With the prior agreement of the Manager, the independent certifier may be changed at any stage in the Project.	All

Ref	Draft regional consent conditions	Applicable resource consent
G.7	(a) All works shall be carried out in general accordance with Construction Environmental Management Plan and relevant Specialised Environmental Management Plans ("SEMPs") required by these conditions. The draft management plans lodged with the Consent Applications that are listed below in this condition shall be updated and finalised by the Consent Holder: i. Construction Environmental Management Plan ("CEMP") ii. SEMP 001 Air Quality Management Plan iii. SEMP 002 Erosion and Sediment Control Plan iv. SEMP 006 Accidental Aquifer Interception Management Plan (b) The management plans shall be certified by an independent, suitably qualified and experienced person(s) (approved by the Manager as being competent and suitable to provide such certification as per Condition G.6), at least 40 working days prior to the commencement of construction of the relevant stage or stages. Unless advised to the contrary to the Consent Holder within 20 working days after receipt of the management plans the management plans shall be deemed to be certified. (c) This certification shall be provided to the Manager at least 10 working days prior to the commencement of construction of the relevant stage or stages. (d) Where a management plan(s) is to be submitted in a staged manner as a result of the staging of construction works, information about the proposed staging shall be submitted as part of the CEMP.	All
G.8	Works shall not proceed until the relevant management plans and certification described in Condition G.7 have been received and acknowledged in writing by the Manager. If written acknowledgement is not provided by the Canterbury Regional Council within 10 working days of the Consent Holder sending the certification, the certification shall be deemed to be confirmed.	All

Ref	Draft regional consent conditions	Applicable resource consent
G.9	The Consent Holder may make reasonable amendments to the management plans at any time. Any changes to the management plans shall remain consistent with the overall intent of the relevant management plan and shall be certified by the agreed independent certifier, as per the requirements outlined in Condition G.6. The Consent Holder shall provide a copy of any such amendment to the management plans and certification to Canterbury Regional Council for information, prior to giving effect to the amendment, or within 15 working days.	All
	Construction Environmental Management Plan	
G.10	The Consent Holder shall finalise the CEMP submitted with the application and this shall be certified in accordance with Condition G.7. The certification shall confirm that the CEMP: (a) is generally consistent with the draft CEMP submitted with the application; and (b) addresses the matters set out in Condition G.11 below.	All
G.11	The CEMP shall include, but need not be limited to, the following: (a) General: i. CEMP purpose; ii. Project details including anticipated construction activities; iii. CEMP Objectives and Policies; (b) Environmental Management: i. Existing environment characteristics; ii. Environmental issues anticipated during construction; iii. Environmental management approach and methods; iv. Mitigation/contingency measures; (c) CEMP Requirements: i. Roles and responsibilities; ii. Training and education; iii. Monitoring, maintenance, audit and reporting; iv. Corrective action and emergency contacts and response; v. Feedback management; vi. CEMP revision and compliance issue resolution processes; (d) Activity Specific Requirements: *i. Hazardous Substances* The CEMP shall describe measures to avoid, remedy or mitigate the effects of the use and storage of hazardous substances	All

Ref	Draft regional consent conditions	Applicable resource consent
	during construction of the Project and the transport, disposal and tracking of materials taken away. This shall include: a) the types and volumes of hazardous substances stored during the construction phase; b) the equipment, systems and procedures to be used to minimise the risk of spills or leaks of hazardous substances; c) the spill management and containment equipment to be maintained at all times on site, and its location; d) procedures for containing, managing, cleaning and disposing of any spill or leak of contaminated material from the site (spill kits); e) procedures to notify and report to the Canterbury Regional Council within 24 hours of a spill or leak involving 10 litres or more occurring, including a maintained schedule of emergency contact names and numbers; and f) procedures to be followed to identify causes of spills or leaks and to avoid their recurrence. *ii. Cultural/ Archaeology and Heritage Management* a) The CEMP shall incorporate the Accidental Discovery Protocol covering NZTA New Zealand Regions 11 (Canterbury) and 12 (West Coast) and the Ngai Tahu Koiwi Tangata Policy 1993.	
	Air Quality Management Plan - Construction	
G.12	The Consent Holder shall finalise the Air Quality Management Plan (SEMP 001) submitted with the application. The Air Quality Management Plan shall be certified (as a requirement of Condition G.7) to confirm that the Air Quality Management Plan: (a) is generally consistent with the draft Air Quality Management Plan submitted with the application; and (b) addresses all the matters listed in Condition G.13 below.	E, BC, D, DA & BR

Ref	Draft regional consent conditions	Applicable resource consent
G.13	The Air Quality Management Plan (SEMP 001) shall describe the measures to be adopted that, so far as practicable, reduce the dust or fumes arising as a result of the construction of the Project at any point beyond the designation boundary that borders a highly sensitive air pollution land use. The Air Quality Management Plan shall include, but need not be limited to, the following: i. Description of the works, and sources of dust and fumes; ii. Periods of time when emissions of dust or fumes might arise from construction activities; iii. Identification of highly sensitive air pollution land uses likely to be adversely affected by emissions of dust or fumes from construction activities; iv. Methods for managing dust emitted from construction yards, haul roads, stock-piles and construction site exits used by trucks; v. Methods for maintaining and operating construction equipment and vehicles in order to minimise vehicle emissions from exhaust tailpipes; vi. Methods for monitoring dust and fumes during construction, including visual inspections of dust sources and dust generating activities, visual inspections of management measures, checking weather forecasts and observing weather conditions; vii. Methods for undertaking and reporting on the results of daily inspections of construction activities that might give rise to dust or fumes; and viii. Procedures for maintaining contact with stakeholders, notifying of proposed construction activities and handling feedback about dust or fumes.	E, BC, D, DA & BR
	Erosion and Sediment Control Plan	
G.14	The Consent Holder shall finalise the Erosion and Sediment Control Plan (SEMP 002) submitted with the application. The Erosion and Sediment Control Plan shall be certified (in accordance with Condition G.7), to confirm that the Erosion and Sediment Control Plan: a) is generally consistent with the draft Erosion and Sediment Control Plan submitted with the application; and b) addresses all the matters listed in Condition G.15 below.	All
G.15	The Erosion and Sediment Control Plan (SEMP 002) shall be prepared in accordance with Environment Canterbury's Erosion and Sediment	All

Ref	Draft regional consent conditions	Applicable resource consent
	Control Guideline 2007. The purpose of the Erosion and Sediment Control Plan is to describe the methods and practices to be implemented during construction to minimise the effects of soil erosion and sediment generation and yield on the aquatic receiving environments associated with the Project. The Erosion and Sediment Control Plan shall include, but need not be limited to, the following: a) outline of the principles of the Erosion and Sediment Control Plan whereby the plan shall be consistent with the NZTA's Erosion and Sediment Control Standard for State Highway Infrastructure and the objectives outlined in the NZTA's Environmental Plan; b) a site description, including land type, climate, topography, vegetation, soils, and water bodies; c) locality map(s) detailing as a minimum the location of roads, property boundaries, surface waterways/ water races and crossings, stormwater reticulation surfaces (existing and proposed), the direction of stormwater flows, and the erosion and sediment control devices. Contour information shall be identified at suitable intervals to show the contour of the land within and around the Project alignment; d) a detailed programme of works identifying: i. each stage of construction; ii. an estimate of the maximum area of bare ground (cumulative total) exposed at each stage of construction, including progressive stabilisation and minimising areas of exposed soil considerations; iii. an estimate of the total length of exposed roads, trenches and tracks; iv. the volume of earthworks proposed. e) a description of the sediment control measures proposed. Measures considered may include, but need not be limited to, the following: i. clean water diversions; ii. diversion drains and infiltration ditches for sediment-laden runoff; iii. collection and treatment of sediment laden runoff water, treatment thereof and discharge to ground (sediment retention ponds); iv. use of permanent swales and the ability to rehabilitate the swales to their final purpose during the construction process, including use of decanting earth bunds; v. use of silt fences to protect surface waterways and adjacent	

Ref	Draft regional consent conditions	Applicable resource consent
	land; vi. specific disposal to land soak pits which are not to form part of the final soak pit system; vii. covering exposed areas of earth and stockpiles with appropriate erosion resistant material; viii. diversion of stormwater runoff away from any contaminated land from the Project area; and ix. stabilised site exit(s) and measures to ensure tracking of sediment onto the existing road network is reduced; f) a description of the erosion control measures proposed. Measures considered shall include, but need not be limited to, the following: i. vegetating the stormwater system, including swales, detention basins and infiltration basins and embankments as soon as is practicable, ii. surface roughening on embankment slopes prior to re-vegetating; and iii. mulching, seeding or sealing areas of exposed soil as soon as is practicable; g) prior to each stage of works, detailed drawings and design specifications of erosion and sediment control measures shall be provided to the Manager; h) a schedule of the frequency and methods of inspection, monitoring and maintenance of all erosion and sediment control measures, including any checks proposed to be undertaken after more than 15mm of rain falls in a 24 hour period; and i) emergency procedures that set out measures that will be implemented if there is an accidental untreated sediment discharge to surface water.	
	Accidental Aquifer Interception Management Plan	
G.16	The Consent Holder shall finalise the Accidental Aquifer Interception Management Plan (SEMP 006) submitted with the application. The Accidental Aquifer Interception Management Plan shall be certified (in accordance with Condition G.7), to confirm that the Accidental Aquifer Interception Management Plan: (a) is generally consistent with the draft Accidental Aquifer Interception Management Plan submitted with the application; and (b) addresses all the matters listed in Condition G.17 below.	E & BC

Ref	Draft regional consent conditions	Applicable resource consent
G.17	The Accidental Aquifer Interception Management Plan (SEMP 006) shall include, but need not be limited to, the following: i. Techniques to avoid interception of aquifers during construction works; ii. Monitoring of groundwater levels prior to commencement of construction; iii. Procedures for immediate action should an aquifer accidentally be breached; iv. Measures to ensure sufficient quantities of impervious material encountered during excavation are stockpiled within the Project area so it is ready for immediate deployment if a spring is encountered; v. Measures to remove excess water to the sediment control treatment devices and the removal of all water affected and weak soil material without exacerbating the spring; vi. Replacement of the material in the breached area with compacted impervious material; vii. Measures to ensure that no contamination of the aquifer occurs and that hydraulic pressure is restored; viii. Procedures for the notification of the Canterbury Regional Council; ix. Monitoring of the material to ensure no leakage and that the aquifer is fully sealed; and x. Monitoring of groundwater levels following the breach to confirm that groundwater conditions have stabilised.	E & BC
	Stormwater Operation and Maintenance Plan	

Ref	Draft regional consent conditions	Applicable resource consent
G.18	At least 20 working days prior to the commencement of works relevant to systems identified in (a) to (f) listed below in this condition, the Consent Holder shall submit an Stormwater Operation and Maintenance Plan to the Manager for certification. The certification shall confirm the Stormwater Operation and Maintenance Plan addresses each of the following aspects of the Project: a) Maintenance and operation of the stormwater treatment ponds, inflows, soakage systems (including swales, soak pits and first flush basins) and emergency spillway, including the removal of debris; b) Pumping and disposal system at Robinsons Road overpass; c) Drainage system at Maize Maze and Ramp ponds; d) Operation and maintenance of the inverted siphons which pass flows from upstream of the Project, including prevention of blockage of the siphons; e) Operation and maintenance of the stockwater race siphons, including prevention of blockage of the siphons; and f) Maintenance of the integrity of the CCC ponds (Owaka Basin/ Wilmers Quarry) to the extent they are impacted. The Consent Holder shall progressively implement the Stormwater Operation and Maintenance Plan as construction is completed and on an on-going basis as part of routine maintenance. Upon completion of construction of the Project, the Stormwater Operation and Maintenance Plan shall be updated to reflect any changes made during the construction process.	GT, D, & DP
	Cultural and Archaeological Disturbance	
G.19	The Consent Holder shall implement the Accidental Discovery Protocol covering NZTA New Zealand Regions 11 (Canterbury) and 12 (West Coast) in the event of accidental discovery of cultural or archaeological artefacts or features during the construction of the Project.	E, BC, D & BR
G.20	The Consent Holder shall implement the Ngai Tahu Koiwi Tangata Policy 1993 “The Policy of Ngai Tahu Concerning the Human Remains of our Ancestors” in the event that Koiwi are discovered.	E, BC, D & BR
	Feedback and Incidents	

Ref	Draft regional consent conditions	Applicable resource consent
G.21	(a) At all times during construction work, the Consent Holder shall maintain permanent register(s) of any public or stakeholder feedback received and any incidents or non-compliance noted by the Consent Holder's contractor, in relation to the construction of the Project. The register(s) shall include: i. the name and contact details (as far as practicable) of the person providing feedback or contractor observing the incident/ non-compliance; ii. identification of the nature and details of the feedback/ incident; and iii. location, date and time of the feedback/ incident. (b) The Consent Holder shall promptly investigate any adverse feedback, incident or non-compliance. This shall include, but need not be limited to: i. recording weather conditions at the time of the event (as far as practicable), and including wind direction and approximate wind speed if the adverse feedback or incident relates to dust; ii. recording any other activities in the area, unrelated to the Project that may have contributed to the adverse feedback/ incident/ non-compliance, such as non-Project construction, fires, traffic accidents or unusually dusty conditions generally (if applicable); iii. investigating the circumstances surrounding the incident. (c) In relation to Condition G.21(b), the Consent Holder shall: i. record the outcome of the investigation on the register(s); ii. record any remedial actions or measures undertaken to address or respond to the matter on the register(s); iii. respond to the initiator, in closing the feedback loop, if practicable; and iv. where the adverse feedback or incident was in relation to a non-compliance, the Manager shall be notified in writing of the matter within 5 working days of the non-compliance, and inform of the remedial actions undertaken. (d) The register(s) shall be maintained on site and shall be made available to the Manager upon request.	All

31.3.2. Proposed consent conditions for the excavation of land and deposition of fill over an unconfined or semi-confined aquifer

- **Land use consent** for the excavation of greater than 100 cubic metres of land where the depth of excavation will be deeper than the highest groundwater level which is reasonably expected to occur in isolated places. This may occur during construction of the Robinsons Road underpass and stormwater detention ponds at Halswell Junction Road, but it will be applicable to areas where any excavation intercepts an aquifer, or there is less than one metre between the base of the excavation and the shallowest aquifer.
- **Land use consent** for the deposition of more than 50 m^3 of fill where the land has been excavated to a depth of 5 m or deeper than the highest groundwater level which is reasonably expected to occur (in the isolated places identified above).

Ref	Draft regional consent conditions
E.1	In the event any excavation intercepts an aquifer the Consent Holder shall: a) Notify the Canterbury Regional Council within 24 hours of the interception occurring; and b) Follow the procedures in the certified Accidental Aquifer Interception Management Plan (SEMP 006) submitted in compliance with General Condition G.16.
E.2	Following the completion of the excavation no seepage of groundwater from the aquifer beneath the excavated and backfilled areas shall occur. If seepage does occur, the Consent Holder shall notify the Canterbury Regional Council and undertake reasonable remedial action to ensure that there is no further seepage of groundwater from the aquifer.
E.3	The Consent Holder shall: a) Adopt the best practicable options to prevent the discharge of sediment and contaminants into the excavated land. Measures shall include, but shall not be limited to, the installation of erosion and sediment control measures in accordance with the certified Erosion and Sediment Control Plan (SEMP 002) as required by General Condition G.14. b) Ensure that all disturbed areas shall be stabilised and regrassed or sealed as soon as practicable following completion of the works. c) Remove from site all spoil and other waste material from the works on completion of the works. d) Avoid placing cut or cleared vegetation, debris, or excavated material in a position such that it may enter excavated land.
E.4	All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery. Measures shall include, but not be limited to: a) No storage of fuel or refuelling of vehicles and machinery within 50 metres of excavation(s). b) Secure storage of fuel or overnight removal from the site.

Ref	Draft regional consent conditions
E.5	Spill kits capable of absorbing the quantity of oil and petroleum products that may be spilled on site at any one time, shall be kept on-site in an accessible location and: (a) The Consent Holder shall take all practicable measures to avoid spills of fuel or any other hazardous substances within the site, including but not limited to storing fuel and carrying out refuelling at least 50 metres from any waterway and the excavated area. (b) In the event of a spill of fuel or any other hazardous substance, the Consent Holder shall clean up the spill as soon as practicable and take practicable measures to prevent recurrence. (c) The Consent Holder shall inform the Canterbury Regional Council within 24 hours of a spill event and shall provide the following information: i. The date, time, location and estimated volume of the spill; ii. The cause of the spill; iii. The type of hazardous substance(s) spilled; iv. Clean up procedures undertaken; v. Details of the steps taken to control and remediate the effects of the spill on the receiving environment; vi. An assessment of any potential effects of the spill; and vii. Measures to be undertaken to prevent recurrence.
E.6	Open excavations that expose groundwater shall be infilled with cleanfill material within 24 hours following the completion of the construction requiring the open excavation. Cleanfill material is defined as material that when buried will have no adverse effect on people or the environment; and includes virgin natural materials such as clay, soil and rock, and other inert materials such as concrete or brick that are free of: • combustible, putrescible, degradable or leachable components, • hazardous substances, • products or materials derived from hazardous waste treatment, hazardous waste stabilisation or hazardous waste disposal practices, • materials that may present a risk to human health, or • liquid waste.

31.3.3. Proposed consent conditions for the construction of bores

- **Land use consent** for the construction of investigation and monitoring bores across the Project;
- **Land use consent** for the construction of a bore/ infiltration facility (groundwater collection field) associated with the Robinsons Road Underpass area and extraction wells at Maize Maze and Ramp ponds; and

- **Land use consent** for the construction of bores for domestic and stockwater as a result of bore relocation across the Project.

Explanatory Note: The use of the new bores and decommissioning of the existing bores have been assessed as permitted activities.

Ref	Draft regional consent conditions
BC.1	The bore(s) shall be constructed in accordance with the New Zealand Environmental Standard for Drilling of Soil and Rock (NZS 4411:2011).
BC.2	The exterior of each bore shall be sealed with bentonite or concrete grout or similar material to above the screen pack or one metre below ground level, whichever is the lesser, to prevent fluid movement down the sides of the casings into the screened collection layers.
BC.3	When not in use, the top of each bore or the above ground portion of the gallery pipe shall be covered or capped to prevent contaminants entering the bores and underlying groundwater.
BC.4	A concrete pad of at least 0.3 metres radius and 0.1 metres thickness shall be constructed around the bore head at ground or pumphouse floor level to prevent leakage of groundwater, any movement of the casing, and any material or surface water entering the bore or annulus. The concrete pad shall slope away from the bore(s).
BC.5	The bore(s) shall be located at least 50 metres from any bore that a neighbouring property owner is authorised to use via a water permit or as a permitted activity.
BC.6	The information requirements of the CRC BORE COMPLIANCE REPORT and CRC COMPLIANCE PLANS shall be completed and returned to Canterbury Regional Council within 20 working days of the completion of the construction of the bore(s).
BC.7	The information requirements of the CRC BORE INSTALLATION REPORT, including the installer's or drillers GPS eight digit map reference, shall be completed and returned to Canterbury Regional Council within 20 working days of the completion of construction of the bore(s).

31.3.4. Proposed consent conditions for the groundwater takes

- **Water permit** for the groundwater takes from the groundwater collection field from the Robinsons Road underpass area (pumping) and the extraction wells at Maize Maze and Ramp ponds (on an intermittent basis during operation).

Ref	Draft regional consent conditions

Ref	Draft regional consent conditions
GT.1	The location, design, implementation and operation of the groundwater takes shall be in general accordance with the consent application and its associated plans and documents, as outlined in General Condition G.1.
GT.2	Groundwater levels shall be monitored at the Robinsons Road overpass to determine the appropriate timing for temporary closure of the local road or installation of the equipment for groundwater lowering and the predicted frequency, level and duration of groundwater lowering at this location. This shall occur in consultation with the Road Controlling Authority.
GT.3	Groundwater levels shall be monitored at Halswell Junction Road to determine the appropriate timing for installation of the groundwater lowering intervention proposed at this location.
GT.4	An annual Groundwater Monitoring Report shall be submitted to the Manager outlining the recorded groundwater levels at Robinsons Road and Halswell Junction Road over the previous year. This report shall include an updated prediction for the timing of installation of the groundwater lowering intervention at the Robinsons and Halswell Junction Road areas (if required). The report shall recommend any necessary changes to the trigger level set out in condition GT.5 below and include the information required by Condition GT.6 and GT.7 (if applicable). The requirement for an annual Groundwater Monitoring Report may cease with the agreement of the Manager.
GT.5	The interim trigger level for the groundwater lowering intervention at Halswell Junction Road shall be 1.0m below base of Maize Maze pond. The trigger level shall be updated annually in accordance with condition GT.4 above.
GT.6	The groundwater lowering measures at Robinsons Road will be installed in consultation with the Road Controlling Authority, if flooding effects on the local road are adverse and persistent. At this time, a recording device shall be installed to record the rate of groundwater take, the volume of take and the period of groundwater diversion. The annual Groundwater Monitoring Report, prepared in accordance with Condition GT.4, shall include a summary of the recorded groundwater diversion data once operational.
GT.7	(a) Once the groundwater has exceeded the trigger level at Halswell Junction Road (Condition GT.5), then the intervention measures for lowering groundwater below the Maize Maze and Ramp ponds shall be installed. The infrastructure to complete the groundwater drainage regime to Upper Knights Stream shall be completed and commissioned. (b) A data logger shall be installed to record the flow rate, volume of diverted groundwater and period of groundwater diversion. (c) An annual Groundwater Monitoring Report, prepared in accordance with Condition GT.4, shall include a summary of the recorded groundwater diversion data once operational.

Ref	Draft regional consent conditions
GT.8	The pumping and disposal systems shall be operated and maintained in accordance with the certified Stormwater Operation and Maintenance Plan submitted in compliance with General Condition G.18.

31.3.5. Proposed consent conditions for the temporary and permanent diversion of stockwater races

- **Water permit** for the temporary and permanent diversion of stockwater races.

Ref	Draft regional consent conditions
	Advice Note: *Approval to modify stockwater races will be sought where required under the Selwyn District Council Water Race Bylaw 2008.*
D.1	The location, design and construction of the temporary and permanent diversions shall be in general accordance with the consent application and its associated plans and documents, as outlined in General Condition G.1.
D.2	The Consent Holder shall design and construct all temporary and permanent diversions in a manner that will maintain the function of the stockwater race, in particular where this is culverted or piped beneath or adjacent to the Project, which shall include: a) maintaining water velocity in a similar state (no more than 10% change) to its natural state at the time of Commencement of Works; b) controlling the rate of leakage to a similar rate (no more than 10% change) to the existing water race system; c) providing for the land drainage function of the race network for the passage of flood flows; d) providing for fish passage whereby the races shall not include any steep drops or perched sections. This may also include the use of light wells and resting areas for fish along the long, flat, piped sections (approximately every 40 - 60 m where possible) and the use of baffles; e) avoiding unnecessary modification of the water race bed and channel (such as the avoidance of large areas of concrete channelling).
D.3	All works necessary to carry out the temporary diversions shall be completed prior to flows being progressively diverted to the new temporary channel location. Flows shall be returned to the original channel as soon as practicable following the completion of temporary works, to ensure that water quality and race stability are not adversely affected.
D.4	Diversion works shall not permanently decrease the flood carrying capacity of the stockwater races or exacerbate flood potential on surrounding land.

Ref	Draft regional consent conditions
D.5	Diversion works shall be undertaken in a manner which avoids the stranding of fish in pools or channels.
D.6	Instream works will be carried out off line from the active race flow. Once the water race network is shut off, works can be undertaken to complete the cross over in the dry bed.
D.7	Within two months of the completion of the diversions, a certificate signed by a suitably experienced chartered professional engineer (CPEng) confirming that the diversions have been constructed in accordance with the requirements of Condition D.2, shall be submitted to the Manager.
D.8	All areas disturbed by diverting the stockwater races and disturbed areas adjacent to water races shall be stabilised and planted with suitable riparian vegetation as soon as practicable following completion of the diversion works. Stabilisation, in this condition, means providing appropriate measures, vegetative or structural, to protect exposed soil from erosion.

31.3.6. Proposed consent conditions for the discharge of stormwater and water during construction and operation of the Project

- **Discharge permit** for the discharge of stormwater to land during construction and operation of the Project.
- **Discharge permit** for the discharge of overflow water from the stormwater detention basin to an artificial watercourse (Montgomery's Drain / Upper Knights Stream) in an extreme rainfall event or extreme groundwater events during construction of the Project.
- **Discharge permit** for the discharge of water to water (artificial watercourse) from site dewatering activities during construction and operation of the Project.
- **Discharge permit** for the discharge of de-watering water to land at Robinsons Road during operation of the Project.

Ref	Draft regional consent conditions
	Erosion and Sediment Control - Construction
DP.1	All erosion and sediment control measures shall be designed, constructed, implemented and maintained in accordance with the certified Erosion and Sediment Control Plan, submitted in compliance with General Condition G.14.
DP.2	The Consent Holder shall ensure that earthworks are staged, as outlined in the certified Erosion and Sediment Control Plan, and that disturbance is kept to the minimum practicable.

Ref	Draft regional consent conditions
DP.3	All erosion and sediment control measures, and any necessary perimeter controls, shall be installed prior to the commencement of earthworks, for each stage of the Project.
DP.4	The Consent Holder shall carry out monitoring of erosion and sediment control measures in accordance with the certified Erosion and Sediment Control Plan, submitted in compliance with General Condition G.14, and shall satisfy the following: a) The erosion and sediment control measures shall be inspected at least once every week, and after each rainfall event where greater than 15 mm of rain falls within a 24 hour period. b) Any repair and maintenance of the erosion and sediment control measures shall be undertaken in accordance with the certified Erosion and Sediment Control Plan and any amendments to the certified Erosion and Sediment Control Plan. c) Accumulated sediment shall be removed from any sediment retention device when it occupies more than 20 percent of that device. d) Records of each inspection, and all repairs and maintenance shall be kept and provided to the Canterbury Regional Council upon request.
DP.5	If any storm event, up to and including the 2% AEP, occurs during the construction phase and results in sediment laden water discharging from any erosion and sediment control measure into surface water, the Consent Holder shall, within 24 hours of the discharge: a) Visually inspect the discharge from the erosion and sediment control measure and the watercourse upstream and downstream of the discharge point; and b) Take photographs of the discharge point and of the watercourse downstream of the discharge point. The photographs shall be retained and made available to Canterbury Regional Council upon request.
DP.6	All exposed earthworks shall be stabilised once earthworks are completed or if the exposed area is not to be earthworked for a period of 14 days. For those areas that are to be vegetated, an exposed area is considered to be fully stabilised once: c) 80 percent vegetation cover has been established via conventional grassing or hydro-seeding; or d) 100 percent cover established via mulching.
	Operational Stormwater Treatment and Disposal

Ref	Draft regional consent conditions
DP.7	At least 20 working days prior to commencing construction of the relevant stormwater system(s), the Consent Holder shall submit design plans and details of the stormwater management system(s) to be used to treat and dispose of stormwater from the site (in accordance with Conditions DP.9 - DP.13 below) to the Manager. The plans shall be accompanied by a certificate signed by a chartered professional engineer (CPEng) certifying that the stormwater treatment systems comply with, or enable compliance with, Conditions DP.9 - DP.13 and that the design, construction and installation specifications are in accordance with all relevant New Zealand Standards. The certificate shall be accompanied with sufficient technical information to demonstrate the basis for the certification.
DP.8	a) For the section of the Project west of Shands Road, the stormwater runoff from the carriageway shall be discharged either, directly to land via sheet flow over the grassed verge and treatment swales, or to land or water via stormwater treatment and infiltration systems that shall be designed to collect and dispose of stormwater from all storm events up to and including the 1% AEP. b) For the balance of the Project east of Shands Road including ramps and at overpasses and underpasses, the BPO approach shall be used to treat stormwater runoff, including pre-treatment of stormwater via first flush basins prior to discharge into or onto land. (Note this may include kerb and channel which directs the discharge to stormwater treatments systems). These systems shall be designed to collect and dispose of stormwater from all storm events up to and including the 1% AEP.
DP.9	Where practicable, the design of swales shall be in general accordance with the NZTA Stormwater Treatment Standard for State Highway Infrastructure (May 2010). The exceptions may include: i. longitudinal slope may be flatter than the Standard. ii. minimum length may be less than the Standard. iii. rear slopes may be steeper than the Standard on Main South Road. All swales shall: a) Be vegetated uniformly with grass or similar vegetation; and b) Be lined with a layer of sandy loam topsoil at least 120 millimetres thick. c) Be designed to ensure stormwater will not pond for longer than 48 hours after the cessation of any storm event. d) Be designed to have a total infiltration rate not exceeding 12 mm/hr.
DP.10	The following specific requirements for the design and construction of the soak pits shall apply: (a) Soak pits and soakage trenches shall be installed at the ends of swales where the mapped depth to groundwater level is greater than 6 m. (b) A field testing programme shall be developed to confirm soakage rates of the receiving ground, in particular at critical locations including sag points.

Ref	Draft regional consent conditions
DP.11	The following specific requirements for the design and construction of the first flush basins shall apply: i. First flush treatment depth of 25 mm of rainfall (or similar if other than rational method is to be used). ii. First flush treatment shall be installed at the ends of storage or infiltration devices where the mapped depth to groundwater level is less than 6 m. iii. First flush infiltration basins shall be vegetated uniformly with grass or similar vegetation. iv. First flush infiltration basins shall be lined with a layer of infiltration media of at least 350 millimetres in thickness. v. All first flush infiltration basins shall be lined with a layer of infiltration media consisting of well graded sand, with sufficient organic material added to support grass growth. The infiltration material shall meet the following requirements: i. D100 < 10mm ii. 0.065mm < D10 < 0.160mm iii. <3% w/w clay and silt (<0.06mm) iv. With a 5 to 10% organic material (e.g. compost, mulch) added to the top 100 mm.

Ref	Draft regional consent conditions
DP.12	The following specific requirements for the design and construction of stormwater treatment ponds shall apply: i. Maintenance of flows in and out of Mushroom Pond and Owaka Basin during construction and operation of the Project. ii. An ability to receive and store the entire 24 hour 100 year storm runoff from the Project. iii. Provision for stormwater treatment within the ponds through an organic filter medium. iv. A primary outlet from ponds that discharges to ground via an infiltration basin. v. An ability to draw down the level of the pond following a large rain or groundwater event. vi. A process for the controlled release of water from the Maize Maze and Ramp ponds. vii. A liner system that prevents the direct connection of surface water to land in the forebay/first flush basin section and prior to the organic biofiltration media. viii. Separate areas to be divided by pervious bunds to ensure water cannot short circuit the pond. ix. Infiltration basins shall be designed to minimise ponding for longer than 72 hours after the cessation of any storm event and shall be grassed and/or vegetated to take account of the extended detention times. Pond bases shall provide for varied depth zones. x. Provision for increased groundwater levels as a result of the Central Plains Water Enhancement Scheme.
DP.13	The following specific requirement for the design and construction of overland flows shall apply: The extent of afflux as a result of the Project (i.e. increase in flood level) upstream of the Project post construction shall not exceed 250 mm upstream of the Project for a 1% AEP event, including the effects of climate change to 2080, and where no existing habitable floor levels are affected. Where existing habitable floor levels are potentially affected the increase in afflux shall be 0 mm.
DP.14	An assessment process shall be undertaken to identify where an existing well has the potential to be adversely affected by the stormwater discharges (i.e. those wells within 30 m plan distance of the Project disposal points). Prior to any discharges occurring in the vicinity of a well which is identified as being potentially adversely affected, the Consent Holder shall either adjust the discharge location to avoid potential contamination, or, arrange for the well to be decommissioned and (if required) a new well shall be located, drilled, tested and developed in accordance with the Bore Construction Conditions BC.1 to BC.7.

Ref	Draft regional consent conditions
DP.15	Stormwater that exceeds the design capacity of the stormwater systems shall discharge into an artificial watercourse via an emergency spillway designed to carry flood events.
DP.16	Within two months of completion of construction of the stormwater systems, a certificate signed by a suitably experienced chartered professional engineer (CPEng) certifying that the stormwater systems have been constructed in full accordance with the design, location and installation specifications submitted in Conditions DP.9-DP.13 of this consent, shall be submitted to the Manager.
	Inspections, Maintenance and Monitoring
DP.17	The Consent Holder shall maintain and operate the stormwater treatment devices in accordance with the certified Stormwater Operation and Maintenance Plan submitted in compliance with General Condition G.18.
DP.18	The Consent Holder shall inspect the stormwater treatment systems, including swales, infiltration basins, and soakage pits: a) At least once every six months; and b) After each rainfall event resulting in more than 25 millimetres of rainfall within the previous 24 hours.
DP.19	Following the inspection carried out in Condition DP.18, the Consent Holder shall maintain the stormwater treatment systems, including swales, infiltration basins, and soakage pits as follows: a) Any visible hydrocarbons, litter or debris in the stormwater system shall be removed within five working days of the inspection. b) Any accumulated sediment in the stormwater system shall be removed within three months of the inspection, unless it is or is likely to decrease the performance of the stormwater treatment and or disposal system in which case it shall be removed within five working days of the inspection. c) Any damage that has the potential to lead to a decrease in the stormwater treatment, or increase in erosion or scour shall be repaired within five working days of the inspection. d) Any minor damage or moderate damage that is unlikely to cause a decrease in performance of the stormwater system shall be scheduled for routine maintenance within the following three months of the inspection.
DP.20	The Consent Holder shall ensure that the swales and infiltration basins are: a) Maintained so that grass/ vegetation is in a healthy and uniform state; b) Replanted where erosion or die-off has resulted in bare or patchy soil cover; and c) Mowed so grass/ vegetation is maintained to a height between 50 mm and 200 mm.

Ref	Draft regional consent conditions
DP.21	The Consent Holder shall keep records of all inspections, maintenance and monitoring. These records shall include, but not be limited to: (a) Date and details of inspections of the stormwater system; (b) Date and details of any monitoring undertaken in relation to this consent; and (c) Date and details of any maintenance work, repairs and upgrades to the stormwater system, including removal of material and its disposal. These records shall be made available to the Canterbury Regional Council on request.
	Stormwater Treatment Performance Monitoring
DP.22	Following 25 mm of rain in the preceding 24 hours and at least once per year, inspections shall be made to observe the extent of ponding of water at soakage locations. Where ponding longer than 48 hours is occurring in the soil media in first flush basins and ponds, and in the swale invert of the balance of the Project area, the Consent Holder shall initiate a programme to reinvigorate the soak rate through the media and though the swale invert.

Ref	Draft regional consent conditions
DP.23	(a) At least once every five years, a representative composite sample of soil shall be taken from a depth of 50 millimetres at the lowest point of elevation, from the following locations: • Two representative samples of swales on the MSRFL section • Two representative samples of swales from the CSM2 section • One sample each from the Maize Maze Pond and Ramp Ponds forebay • One sample each from the Maize Maze Pond and Ramp Ponds infiltration basin (b) The soil samples shall be analysed using the United States Environmental Protection Agency method 1312, Synthetic Precipitation Leaching Procedure (SPLP), using reagent water, by a laboratory accredited by Telarc for this method. (c) The soil samples shall be analysed, using the method outlined above, for the following contaminants and compared against the Leachate Trigger Concentrations as listed in Condition DP.24: • Total copper • Total zinc • Total lead • Benzo(a)pyrene • Total petroleum hydrocarbons C_7-C_9 • Total petroleum hydrocarbons C_{10}-C_{14} (d) The soil samples shall be measured in milligrams per litre (mg/L). (e) The analyses undertaken shall be carried out with detection limits of a maximum of 10 percent of the trigger levels for total copper, zinc, lead and benzo(a)pyrene and 0.2 percent for total petroleum hydrocarbons. (f) The results of the analyses shall be provided to the Manager, within two months of sampling.

Ref	Draft regional consent conditions
DP.24	(a) The Consent Holder shall compare the results of analyses undertaken in accordance with Condition DP.23 with the following trigger concentrations: **Contaminant (mg/L)** — **Leachate Trigger Values** Total copper — 40 Total zinc — 0.30 Total lead — 0.2 Benzo(a)pyrene — 0.014 Total petroleum hydrocarbons C_7-C_9 — 360 Total petroleum hydrocarbons C_{10}-C_{14} — 7 (b) Should the concentration of any of the contaminants in the soil samples exceed the trigger concentrations, an investigation of the extent of the soil contamination, with reference to the above trigger values, shall be undertaken under the supervision of a suitably qualified and experienced person and a report on the contamination prepared within three months of the first soil sampling. A copy of that report shall be provided to the Manager within 10 working days of its receipt by the Consent Holder. (c) The volume of soil identified as contaminated in the above report shall be removed and replaced with uncontaminated soil within six months of provision of the above report.
DP.25	Any material removed during maintenance of the stormwater systems or in accordance with Condition DP.23 shall be disposed of at a facility authorised to receive such material.
	Liaison with River Engineers
DP.26	Prior to operating the discharge valve at the Maize Maze Pond and Ramp Ponds, the Consent Holder shall liaise with the Canterbury Regional Council 'Regional Engineer' and with the CCC 'Surface Water Operations Manager' to ensure the discharge rate (up to 60 l/s) from the Maize Maze and Ramp ponds emptying will not exacerbate flooding of the Halswell River drainage system.

31.3.7. Proposed consent conditions for the discharge of dust to air during construction of the Project

- **Discharge permit** to discharge dust to air beyond the boundary of the Project area.

The conditions proposed for this consent are those general conditions set out in section 31.3.1.

31.3.8. Proposed consent conditions for the storage and use of hazardous substances

- **Land use consent** to store and use hazardous substances during construction.

The conditions proposed for this consent are those general conditions set out in section 31.3.1.

31.3.9. Proposed consent conditions for earthworks within riparian margins and activities in the bed of a stream

- **Land** use consent for earthworks within the riparian margin adjacent to Upper Knights Stream.
- **Land** use consent for reclamation/ disturbance of former stream bed.

The conditions proposed for this consent are those general conditions set out in section 31.3.1.

31.4. Proposed district resource consent conditions

The table below provides explanation to a number of the acronyms and terms used in the conditions:

Definitions	
AEE	Means the CSM2 and MSRFL ("Project") Assessment of Effects on the Environment (Volume 2) dated November 2012
CEMP	Means the Construction Environmental Management Plan
Council	Means the relevant territorial authority (Selwyn District Council or Christchurch City Council)
Consent Holder	Means the New Zealand Transport Agency
Commencement of Works	Means the time when the works that are authorised by the resource consents commence
Manager	Means the Regulatory Manager of the relevant territorial authority (Selwyn District Council or Christchurch City Council)
Project	Means the construction, operation and maintenance of the Christchurch Southern Motorway Stage 2 (CSM2), and the widening and upgrading of SH1 Main South Road between Robinsons Road and Rolleston to provide a four-lane median separated expressway (Main South Road Four Laning known as MSRFL), and includes associated local road works, including new rear access roads
RMA	Means the Resource Management Act 1991
Work	Means any activity or activities undertaken in relation to the construction and operation of the Project

31.4.1. Proposed resource consent conditions for the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health land use consents

- **Land use consent** for the sampling and disturbance of soil and change in land use within land identified as Hazardous Activities Industries List (HAIL) sites in the Selwyn District and Christchurch City

Ref	Draft district consent conditions
CL.1	Except as modified by the conditions below, and subject to final design, the Project shall be undertaken in general accordance with the information provided by the Consent Holder in the Resource Consent Application dated November 2012 and supporting documents being: (a) Assessment of Environmental Effects report, dated November 2012 (b) Plan sets: i. Layout Plans: 62236-A-C020-C029 & 62236-B-C020-C038 ii. Plan and Longitudinal Sections: 62236-A-C100-C133 & 62236-B-C101-C163 iii. Typical Cross Sections: 62236-A-C171-C173 & 62236-B-C171-C173 iv. Pavement Surfaces: 62236-A-C250-C253 & 62236-B-C250-C255 v. Cycle Path Plans: 62236-B-C315-C316 vi. Drainage Layout Plans: 62236-A-C401-C412 & 62236-B-C401-C426 vii. Drainage Details: 62236-A-C451-C463 & 62236-B-C451-C466 viii. Signage Plans: 62236-A-C501-C508 & 62236-B-C501-C517 ix. Land Requirement Plans: 62236-A-C1101-C1110 & 62236-B-C1101-C1118 x. Structural Plans: 62236-B-S000-S083 xi. Landscape Planting Plans: 62236-A-L011-L018 & 62236-B-L011-L024 xii. Lighting Plans: 16.001630, sheets 1-20 Where there is conflict between the documents lodged and the conditions, the conditions shall prevail.
CL.2	Pursuant to section 125(1) of the RMA, this consent shall lapse 15 years from the date of its commencement (pursuant to Section 116(5) of the RMA) unless it has been given effect, surrendered or been cancelled at an earlier date.

Ref	Draft district consent conditions
CL.3	At least three months prior to the commencement of the relevant stage or stages of work, the Consent Holder shall submit information to the Manager to demonstrate that the proposed certifier (required by Condition CL.4) is independent, suitably qualified and experienced. If no response is provided by the Council within 10 working days of the Consent Holder sending the information, the person shall be deemed to be approved by the Council. If the Manager does not approve the person(s) proposed by the Consent Holder, reasons should be provided to indicate why the person(s) is not considered to be suitable. With the prior agreement of the Manager, the independent certifier may be changed at any stage in the Project.
CL.4	(a) All works shall be carried out in general accordance with CEMP lodged with the Consent Applications which shall be updated and finalised by the Consent Holder. (b) The CEMP shall be certified by an independent, suitably qualified and experienced person(s) (approved by the Manager as being competent and suitable to provide such certification as per Condition CL.3), at least 40 working days prior to the commencement of construction of the relevant stage or stages. Unless advised to the contrary to the Consent Holder within 20 working days after receipt of the CEMP, the CEMP shall be deemed to be certified. (c) The certification shall confirm that the CEMP: i. is generally consistent with the draft CEMP submitted with the application; and ii. addresses the matters set out in Condition CL.7. (d) This certification shall be provided to the Manager at least 10 working days prior to the commencement of construction of the relevant stage or stages. (e) Where the CEMP is to be submitted in a staged manner as a result of the staging of construction works, information about the proposed staging shall be submitted as part of the CEMP.
CL.5	Works shall not proceed until the CEMP and certification described in Condition CL.4 have been received and acknowledged in writing by the Manager. If written acknowledgement is not provided by the Council within 10 working days of the Consent Holder sending the certification, the certification shall be deemed to be confirmed.

Ref	Draft district consent conditions
CL.6	The Consent Holder may make amendments to the CEMP at any time. Any changes to the CEMP shall remain consistent with the overall intent of the CEMP and shall be certified by the agreed independent certifier, as per the requirements outlined in Condition CL.4. The Consent Holder shall provide a copy of any such amendment to the CEMP and certification to Council for information, prior to giving effect to the amendment, or within 15 working days.
CL.7	The CEMP shall outline measures to identify actions required for any contamination discovered which shall include: a) Methods for managing excavation and storage of soil (including erosion and sediment controls and dust controls); b) Methods for managing transport, disposal (at an appropriate facility) and tracking of soil and other material taken away from site; c) Safety measures during the work (appropriate PPE); d) How spills and emissions from any such areas shall be managed; and e) Procedures for consultation with the relevant territorial authority.