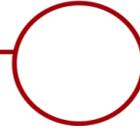


APA Group



2009 ANNUAL REPORT

ON

Pipeline Licence No 16

SESA PIPELINE

March 2010

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1. List of Abbreviations

ALARP	As Low As Reasonably Practical
APT O&M	Australian Pipeline Trust Operations and Maintenance
AS2885	Australian Standard 2885 – Pipelines-Gas and Liquid Petroleum
CP	Cathodic Protection
Cu/CuSO ₄	Copper/Copper Sulphate
DBYD	Dial Before You Dig
DCVG	Direct Current Voltage Gradient
ERE	Emergency Response Exercise
ERT	Emergency Response Team
ERP	Emergency Response Plan
ESV	Energy Safety Victoria
FE	Flow Element
FFP	Fitness for Purpose
GIS	Geographical Information System
GT	Gas Turbine
HAZCHEM	Hazardous Chemicals
HAZOP	Hazard and Operability Study
HSE	Health Safety and Environment
HSEMS	Health Safety Environmental Management System
MAOP	Maximum Allowable Operating Pressure
MFS	Metropolitan Fire Service
MLV	Mainline Valve
Mx	Computerised Maintenance Management System (Maximo)
OE	Origin Energy
OEMP	Operations Environmental Management Plan
PIRSA	Primary Industries and Resources of South Australia (Petroleum & Geothermal Group)
PL 16	Pipeline Licence Number 16
ROW	Right of Way
RTU	Remote Telemetry Unit
SAOP	Safety and Operating Plan
SCADA	Supervisory Control and Data Acquisition
SEO	Statement of Environmental Objectives
SESA	South East South Australia
SMS	Safety Management Study
TJ	Terajoules

2. Introduction

The South East South Australian (SESA) Natural gas Transmission Pipeline is owned and operated by APT O&M Services Pty. Ltd. (herein referred to as APT O&M) part of the APA Group. This annual report has been prepared by APT O&M on behalf of APT Pipelines (SA) Pty Ltd, the pipeline licensee, in accordance with section 33 of the Petroleum and Geothermal Energy Regulations (SA) 2000. This annual report also meets the requirements of section 11 (2) of the Pipeline Regulations (Vic) 2007.

As required by Pipeline Licence (PL) 16, an annual review of the SESA transmission pipeline operations for the 2009 calendar year is provided herein.

3. Pipeline Description

A description of the pipeline System is provided in Table 1.

Table 1 – SESA Pipeline Description

Pipeline Licence term	PL 16 (SA) Commences 23/2/05 Expires 22/2/26 PL 255 (Vic) Commences 1/3/05 Expires 1/3/26
Pipeline construction dates	Pipeline: Mar – May 2005 Facilities: Mar – Sep 2005
Main pipeline length	45km Total (22km Victoria & 23km South Australia)
Main pipeline outer diameter	219.1mm (8" NB)
Pipeline nominal wall thickness	Sections of 6.77mm and 4.01mm
Main pipeline depth of cover	Minimum 750mm (ROW cross country sections), 1200mm (road/creek crossings), 1200mm (fire break)
Grade of pipeline Material	API 5L X60 welded steel pipe
Main pipeline protective coating	1mm extruded HDPE "yellow jacket" with 0.2mm adhesive coated
Normal pipeline operating pressure	9,300 kPa
Maximum Allowable Operating Pressure	10,200 kPa
Hydrotest Pressure	14,170kPa
Operating temperatures	-5°C and + 55°C.
Pipeline capacity	Design capacity of 40 Terajoules/ day (Max free-flow capacity of 70TJ/day, subject to inlet conditions)
Number of Metering/ Regulating facilities	2 (Poolajelo and Ladbrooke Grove Pressure Reducing Meter Stations)

Number of main line valves	Nil (Remote actuation valves are installed at either end of pipeline in the PRMS facilities.)
Odorised Gas	Yes
Compression Station(s)	Nil

4. Pipeline Throughput

The SESA pipeline throughput for the year 2009 was approximately 4,659 TJ.

5. Statement of Expenditure

'Commercial in confidence'.

6. Compliance

During 2009 the SESA Pipeline was operated and maintained in compliance with the *South Australia (SA) Petroleum and Geothermal Energy Act and Regulations 2000* as proclaimed on 1 October 2009, prior to this all operations and maintenance activities were carried out to accord with the *SA Petroleum Act and Regulations 2000*. Compliance with the Victorian Pipeline Act 2005, Pipeline Regulations 2007 and Pipeline Licence 255 has also been achieved.

7. Safety and Environment

7.1 Environmental Management

To comply with the requirements of the Petroleum and Geothermal Energy Act 2000, APT O&M operates the pipeline in accordance with the SESA SEO and Operations Environmental Management Plan (EMP). Although the SEO is only required for Pipeline Licence approval in South Australia its contents is applied to both the South Australian and Victorian sections of the pipeline.

An objective related to the security of supply will be included in the SEO at the time of a 5 yearly review during 2010. An SEO report to measure the achievement of environmental performance objectives is submitted to PIRSA on a quarterly basis. An annual summary of SEO (Feb 2005) compliance for the SESA Pipeline is contained in Appendix 1.

7.2 Environmental Audits

An environmental audit was carried out during 30 March to 1 April 2009 to assess the impact of the SESA Pipeline operational and maintenance activities in accordance with the requirements of PL's 16 (South Australia) and 255 (Victoria) and environmental objectives specified in the Statement of Environmental Objectives (SEO) for the SESA Pipeline (Feb 2005).

The environmental audit involved a ground inspection of the SESA pipeline & Right of Way (ROW) and found that activities associated with the operation and maintenance of the SESA pipeline are generally being performed in accordance with the environmental objectives specified in the SEO.

Recommendations for improvement in environmental performance of pipeline activities and environmental conditions were identified during the course of the environmental audit. In total 4 recommendations for improvement were made (4 low rated) relating to training records, weed management and pipeline identification marker posts. Two recommendations were loaded into the MARCIS action tracking system and 2 recommendations were loaded into the Maintenance Service Request database. Currently 1 action remains and is scheduled to be completed during the first half of 2010.

Two actions relating to subsidence and noxious weed infestations were outstanding from the 2007 Environmental Audit, land owners were consulted and areas were remediated during June 2009.

7.3 Health, Safety and Environmental Management Systems Audit

A Health, Safety and Environmental Management Systems Audit was carried out during the 25th and 26th of March 2009. This audit focused on compliance to the APA Group HSEMS – 15 Standards in the APA South Australia Networks business unit. Overall there were no non conformances noted during the audit but there were 6 recommendations made to further improve the quality and awareness of HSE committee meetings, HSE Representatives, Inductions, and the 15 HSE Standards. All actions relating to this audit were addressed during 2009.

8. Inspection and Maintenance Activities

8.1 Routine Inspection and Maintenance

Routine maintenance on the pipeline has been carried out in accordance with the maintenance schedule contained in the SESA Pipeline Safety and Operating Plan (SAOP). A review of all operation and maintenance activities related with the SESA Pipeline is scheduled to occur in the first half of 2010.

During 2009 activities carried out on the SESA Pipeline included; monthly road patrols of the pipeline line of sight, 3 monthly gas chromatograph and moisture analyser maintenance, 6 monthly mechanical and electrical inspections, 6 monthly maintenance of valves and other mechanical equipment and annual maintenance (October 2009) of electrical and instrumentation components.

Effective from January 2009 'National' aerial surveillance of assets was implemented. Aerial surveillance is a recognised procedural protection measure to guard against third party interference and other naturally occurring threats. Aerial surveillance was previously undertaken quarterly.

Coriolis gas meters' FE-660 and FE-670, located at the Ladbroke Grove Meter Station, were removed and sent to a certified laboratory in Victoria for recalibration and testing. A new Coriolis type gas meter was purchased and used while each meter FE-660 and FE-670 was being recalibrated. The new Coriolis meter was installed on GT2 run, the recalibrated GT2 meter reinstalled on GT1 run and the recalibrated GT1 meter is being stored as a spare for the site.

8.2 Non-Routine Operations and Maintenance

The following non-routine maintenance was carried out during 2009:

- A contractor was engaged to rectify an on-going issue with Water Bath Heater No. 1 at Ladbroke Grove. All rectification work was completed over a two day period without any adverse affects on supply.
- Heat tracing failure occurred as a result of the Coriolis meter change out. All pending works have been completed.
- Rectification of the outstanding subsidence identified was addressed during 2009 when ground conditions were more favourable. Consultation occurred with the landowners along the pipeline route in order to develop adequate rectification strategies.

9. Corrosion Control

To mitigate corrosion, the SESA Pipeline is coated with a high density polyethylene coating system which serves to isolate the external pipeline surfaces from corrosive elements in the surrounding environment. Field joints are coated with a field applied tape system. Secondary protection is achieved by applying an impressed current cathodic protection system.

As a SESA full line Cathodic Protection Survey was scheduled in June 2009, the March 2009 Survey did not cover the criteria of a full line CP Survey but provided a basic review of the pipeline 'On' potential test points. During June 2009 'On' and 'Off' pipeline potentials were measured with respect to a saturated copper/copper sulphate reference electrode. Survey results have been tabulated in Appendix 2 with the associated graphical summary in Appendix 3.

During the Survey, data loggers were set at two extremities of the pipeline, one at Poolaijelo and the other at Ladbroke Grove. Results indicated that 1% of data from Poolaijelo and 14% of data from Ladbroke Grove, was above -850mV reference line. These abnormalities are expected to be caused as a result of operational error as the data was being logged prior to hooking up to the pipeline.

Overall, results demonstrated that CP appears to have no significant interference and the pipeline is protected in accordance with the original design specification and applicable standards, but care should be taken during setup of data logger and data processing to increase clarity of the data.

To further ensure that the SESA Pipeline is protected from corrosion an additional cathodic protection survey was carried out in December 2009. The 'On' and 'Off' potentials were measured and indicated that the SESA Pipeline is adequately protected in accordance with the original design specification and applicable standards. To further increase clarity of the data and address any issues from the previous survey, 3 loggers were used (Poolaijelo, TP16 and Ladbroke Grove). There were no abnormalities identified as a result of the survey. All data loggers were programmed correctly and the data was more visible as the resolution was improved by decreasing the range on the y-axis.

10. Right of Way Management

10.1 Signage

All signage on the SESA Pipeline is installed in accordance with AS2885 and maintains “Line of Sight”. The pipeline signage is monitored and replaced as required, as part of the operations and maintenance activities along the pipeline.

Compound signage providing contact details, emergency “Toll Free” numbers, site location and “HAZCHEM” details are installed at all facilities on the SESA Pipeline. This signage is maintained in conjunction with routine activities.

10.2 Landholder Contacts

There are 16 landholders along the route of the South Australian section of the SESA Pipeline and 4 landholders in the Victorian section of the pipeline. A landholder liaison scheme is in place with the objective of visiting each landholder at least annually to ensure that ongoing communication is maintained and address any issues arising. Additional contact is made in writing during the course of routine pipeline operations and maintenance activities.

All landholder visits were carried out during December 2009. During the visits each landholder was reminded of their obligations to ensure pipeline safety and presented with information relating to Pipeline Safety and the Dial Before you Dig Service. Landholders were also asked if they had any issues regarding the right of way. There were no complaints received during 2009.

10.3 Pipeline Awareness Programme

In addition to the landholder visits, a formal Pipeline Awareness Programme for the SESA Pipeline is in place. A formal presentation is given on an as needs basis to improve the awareness of pipeline operations and to provide the community with key contacts to enable sound management of activities in the vicinity of the pipeline assets. The next Pipeline Awareness Seminar will be held during the second part of 2010.

10.4 Pipeline Location Service

APT O&M provides a free pipeline location service to utilities and third parties carrying out civil work in the vicinity of the pipeline. This is administered through the “Dial Before You Dig” (1100) organisation. In total 5 locations were requested during 2009 and these resulted in supervision of third party activity within the pipeline easement.

During the December 2009 monthly patrol it was identified that a star dropper fence post had been installed 3.9m from the centre of the pipeline on a property titled "Yarrabera" (located approximately 2km east of Penola). As the landholder is well aware of the pipeline on his property he felt no need to request a location. Although there was no adverse impact on the integrity of the pipeline this activity was not authorised by APT O&M and therefore reportable under the SEO, refer to Appendix 1.

11. Emergency Management

11.1 Emergency Response Plan

The Emergency Response Plan for the SESA Pipeline was reviewed and updated in August 2008. The Emergency Response Plan for the SESA Pipeline is currently being revised to include recommendations from the 'SESA 09' Exercise carried out during December, refer to section 11.2.

11.2 Emergency Response Exercise

A simulated desktop emergency exercise "SESA 09" was held on 3 December 2009. The simulation was designed to test the first response to a 30mm puncture caused by third party activity. Overall nine recommendations were made as a result of the exercise all of which will be addressed in the first half of 2010.

11.3 Training

A Training session was carried out with Origin Energy (OE) personnel and APT O&M Regional Supervisor and Contractor at Ladbroke Grove during August 2009. The session included a revision of the operation of the water bath heaters, first on site protocols and the emergency contact process. Further to the training at Ladbroke Grove all SA Pipelines Mechanical Technicians attended a training session on emergency response and first on site protocols at Kidman Park. In both instances an external contractor was engaged to facilitate the training.

12. Compliance Audits

During July 2009 the audit framework for the SESA Pipeline was revised to include the introduction of an Operations Compliance Audit along the pipeline, planned every 2 years with an Environmental Management Systems Audit being carried out every 2 years alternatively. The Operations Compliance Audit is a single audit which assesses compliance to the Pipeline SAOP and includes a detailed field audit of the pipeline facilities. Prior to this, SAOP and Facilities audits were performed as individual audits. The revised audit framework was strongly supported by our independent internal auditors. The intent of the new framework is to provide a more concise audit report and expedite the audit process by alleviating any potential repetition of audit actions. A SESA Pipeline Operations Compliance Audit is scheduled to be carried out during the first quarter of 2010.

12.1 ESV Compliance Audit

Energy Safe Victoria (ESV) carried out a desk top audit of the SESA Pipeline Safety Case on 5 June 2009. The purpose of the audit was to provide evidence of pipeline structural integrity to meet Safety Case objectives and satisfy the requirements of AS2885.3, part 3.3. Overall 8 low risk rated recommendations were made as a result of the desk top audit, 5 of these have been addressed and 3 are scheduled to be carried out early in 2010. The next ESV Audit on Emergency Response is scheduled to be completed during May 2010.

13. Management Systems

APT O&M utilises a number of management systems to ensure effective operations and management of the pipeline, including:

- A Health Safety and Environment Management System that governs all APT O&M operations as they impact occupational health, safety and environmental matters.
- A Risk Management System to ensure that hazards are identified and risks evaluated and managed. Hazards are identified using HAZOP studies, safety reviews, job safety analyses, incident reports and investigations, audits and inspections together with the AS2885 safety management studies.
- The APT O&M Gas Transmission Pipeline Operations and Maintenance Procedure Manual contains standards and practices for the operation and maintenance of transmission pipelines managed by APT O&M. These procedures are continually reviewed and periodically updated as appropriate.
- An Asset Protection Operations and Maintenance Manual containing standards and practices for activities such as coatings, pipeline patrols, leakage management, cathodic protection, earthing and DCVG surveys.
- A Document Management System which allows the controlled updating, distribution and viewing of pipeline documentation.
- A Management of Change System that assesses proposed changes to the pipeline across all engineering disciplines, operational parameters and documentation. This system interfaces with the Document Management System to ensure relevant documentation affected by the change is updated and distributed.

- An audit program that assesses contractor and operational management performance.
- An electronic database system called the Management of Audits, Regulatory Compliance and Incident System (MARCIS). This system provides ready access to all electronic copies of legislation, regulations, codes, licenses, etc through an associated intranet facility. Using this system, APA Group has adopted a 'compliance grid' approach to summarising requirements into an easily understood and manageable format. Where requirements are dated and periodically actionable, the system is designed to automatically advise the responsible manager of the pending requirement and track the requirement through to completion.
- A computer based maintenance management system (MAXIMO) to manage all routine maintenance activities. A Maintenance Service Request (MSR) access database to manage and record all 'non-routine' maintenance activities.
- A computer based chemicals management and data system. The 'Chemwatch' System has been implemented throughout APT O&M nationally to ensure compliance with International, Federal and local regulations as well as provide continual updates on any new information related to chemical products.
- WorkWise is a standardised system, used throughout APT O&M nationally, to effectively manage and record all work related injuries, incidents, hazards and near misses. This system interfaces with the HSE Management Auditing System to ensure that the adoption and implementation of APT O&Ms 15 HSE Management System Standards are being adhered too. Non-conformances and outcomes of the audits are documented in WorkWise and tracked through to completion by responsible Managers.
- A Geographic Information System (GIS) which manages the mapping of asset locations and records asset property history. This system can interface directly to the MAXIMO, pipeline modelling packages and pipeline locations (DBYD).

14 Reports Generated in 2009

APT O&M generated the following reports in 2009:

- PL 16 Annual Report for 2009 - March 2010
- Quarterly reports against Statement of Environmental Objectives
- SESA Environmental Audit Report – April 2009
- Cathodic Protection Survey Report – May, June & December 2009
- 'SESA 09' Emergency Response Exercise Report – December 2009
- SESA Pipeline Incident Report – December 2009

15 Known or Foreseeable Activities Affecting the Pipeline

- Y-Strainer type filters located at Poolajelo will be replaced with vertical filters.
- 5 yearly overhauls of the water bath heaters located at the Ladbroke Grove Pressure Reduction and Metering Station will be carried out during H2/2010.
- Existing nuts and stud bolts to be systematically changed out with electro-zinc plated where practicable.
- As part of the Operations and Maintenance Review for all pipelines operated by SA Pipelines, the frequency of Cathodic Protection Monitoring may be extended from 6 monthly to 12 monthly with the on-set of CP monitoring through SCADA.

16 Future Operations

Future operations planned for the SESA Pipeline during the next 12 months include:

- Routine preventative maintenance in accordance with the Safety and Operating Plan.
- SESA Pipeline Operations Compliance Audit
- An Emergency Response Exercise
- An ESV Desk-top Audit on Emergency Response
- Regular liaison with landowners/occupiers along the pipeline route.
- Pipeline Awareness seminars with third parties and local contractors
- Monitoring of cathodic protection on the pipeline
- 5-Yearly Safety Management Study
- 5-Yearly Statement of Environmental Objectives Review
- Pressure Safety Valve Replacement x 13
- 5-Yearly Maximum Allowable Operating Pressure (MAOP) Review
- Direct Current Voltage Gradient (DCVG) Survey

- SESA Operation & Maintenance Review
- 5-Yearly Fitness For Purpose Report
- 5-Yearly Leakage Survey
- 5-Yearly Overpressure Protection Review

APPENDIX 1 – SEO OPERATIONS OBJECTIVES AND ASSESSMENT CRITERIA

OBJECTIVE	GOAL	COMPLIANCE CRITERIA	ACHIEVED	COMMENTS
11. To maintain soil stability / integrity on the easement	11.1 To remediate erosion or subsidence as a result of pipeline operations in a timely manner	No evidence of erosion, subsidence, vegetation loss on easement as compared to adjacent land. Inspections undertaken as part of regular patrols, following specific works, following significant storm events.	Achieved	Rectification of subsidence along the easement was carried out in consultation with landowners during 2009 to address outstanding actions from the 2007 ROW Patrol.
	11.2 To prevent soil inversion	No evidence of soil discolouration, success of vegetation return as an indicator.	Achieved	.
	11.3 To mitigate soil compaction	Regular patrols undertaken or following specific work.	Achieved	There is no evidence of soil compaction or associated poor plant growth on the pipeline easement.
12. To minimise and manage impacts to water resources	12.1 To maintain current surface drainage patterns	Regular patrols undertaken to look for evidence of erosion, abnormal vegetation growth or death.	Achieved	
	12.2 Minimise disruption to third party use of surface waters	Minimising period of disturbance for any excavation or land disturbance and prompt reinstatement of easement in sections of easement intersecting or adjacent to water bodies.	Achieved	

OBJECTIVE	GOAL	COMPLIANCE CRITERIA	ACHIEVED	COMMENTS
13. To avoid land or water contamination	13.1 To prevent spills occurring	No evidence of soil or water discolouration, vegetation or fauna death during patrols. Incident / Spill reports. Ensure personnel are trained in spill response procedures Containment of all hazardous substances and liquid waste in appropriate vessels/containment areas.	Achieved	There have been no spills or leaks in areas not designated to contain spills.
	13.2 To ensure that rubbish and waste material are disposed of in an appropriate manner	No wastes evident on or off the easement arising from pipeline operations. Documented waste disposal records to confirm appropriate disposal.	Achieved	Waste material is contained and disposed of in accordance with the Environment Protection Authority legislative requirements and APA Group Policies.
	13.3 To prevent impacts as a result of hydrotest water, trench water and waste water (washdown water) disposal	Water disposed of in a manner that prevents discharge or runoff to watercourses or environmentally sensitive areas.	Achieved	
14. To promote and maintain native vegetation cover on the easement	14.1 To promote and maintain regrowth in native vegetation areas on the easement to be consistent with surrounding area	Regular land survey to look for evidence of disturbance to vegetation on easement (apart from access tracks) Revegetation of areas on the easement where remnant vegetation has been cleared during construction with appropriate native species.	Achieved	Species abundance and distribution on the easement is reasonably consistent with the pre-construction conditions.
	14.2 To minimise additional clearing of native vegetation as part of operational activities	Vegetation trimmed rather than cleared where possible. Annual environmental survey to look for evidence of disturbance to vegetation on easement (apart from access tracks).	Achieved	

OBJECTIVE	GOAL	COMPLIANCE CRITERIA	ACHIEVED	COMMENTS
	14.3 To ensure maintenance activities are planned and conducted in a manner that minimises impacts on native fauna	Annual environmental survey to look for evidence of disturbance to vegetation on easement (apart from access tracks).	Achieved	
15. To prevent the spread of weeds and pathogens	15.1 To ensure that weeds and pathogens are controlled at a level that is at least consistent with adjacent land	Regular patrols undertaken to look for evidence of weeds on easement and adjacent land (if weeds on easement but not adjacent land must implement control to prevent spread).	Achieved	Weed control is implemented to prevent the spread of weeds.
16. To adequately protect heritage sites and values during operations and maintenance	16.1 To ensure that identified heritage sites are not disturbed	<p>Management of identified heritage sites in consultation with traditional custodians.</p> <p>Compliance with work instructions in relation to heritage site management.</p> <p>Compliance with Legislative requirements of Aboriginal Heritage Act 1988 and Heritage Act 1993 in respect of previously identified and potentially 'new' sites along the pipeline easement.</p>	Achieved	
17. To minimise noise due to operations	17.1 To ensure operations comply with noise standards	No noise related complaints from landholders or third parties. Compliance with Legislative requirements of Environment Protection Act 1993 in respect of noise emissions.	Achieved	No complaints received from landowners or third parties throughout 2009.
18. To minimise atmospheric emissions	18.1 To eliminate uncontrolled atmospheric emissions	No unintentional gas emissions reported. No complaints from third parties in respect of air quality.	Achieved	No uncontrolled atmospheric emissions.
	18.2 To minimise the generation of dust	Compliance with Legislative requirements of <i>Environment Protection Act 1993</i> in respect of gaseous and dust emissions.	Achieved	

OBJECTIVE	GOAL	COMPLIANCE CRITERIA	ACHIEVED	COMMENTS
19. To avoid unnecessary disturbance to third party infrastructure, landholders or land used	19.1 To minimise disturbance or damage to infrastructure / land use and remediate where disturbance cannot be avoided	No complaints from landholders in relation to land use modification or infrastructure damage.	Achieved	No unnecessary disturbance of third party infrastructure, landholders or land used. No complaints received.
	19.2 To minimise disturbance to landholders	Landholders are appropriately consulted regarding pipeline activities which may affect their particular property.	Achieved	Annual landowners/occupier consultation completed during December 2009. There were no complaints received from landowners.
20. To minimise the risk to public health and safety	20.1 To adequately protect public safety	No occupational health, safety and welfare incident or accidents involving third parties.	Achieved	No injuries or incidents involving the public.
	20.2 To avoid fires associated with pipeline maintenance activities	No fire outbreaks arising from pipeline operations.	Achieved	No pipeline related fires.
	20.3 To prevent unauthorised activity on the easement that may adversely impact on the pipeline integrity	No un-authorized activity on the pipeline easement.	Not Achieved	Unauthorised activity, involving the installation of a fence post 3.9m off the centre of the pipeline, during December 2009.

APPENDIX 2: SESA PIPELINE POTENTIAL SURVEY RESULTS - JUNE 2009

Location	Test Point Number	Kp Point	ON Potential March 2009	OFF Potential March 2009	70 Secs	80 Secs	Corrosion Probe check June 2009	ON Potential Dec 2007	OFF Potential Dec 2007	Minimum desirable CP	Measurement Type
					ON Potential June 2009	OFF Potential June 2009					
Poolaijelo PRMS	1	0.052	-1154		-1162	-992	46.5	-1186	-1009	-850	Spot
Gravel Rd	2	1.544	-1132		-1112	-994		-1214	-1007	-850	Spot
Gravel Rd	3	3.024	-1145		-1165	-987		-1207	-1109	-850	Spot
Gravel Rd	4	4.477			-1143	-968		-1198	-1121	-850	Spot
Unmade Government road	5	6.02	-1133		-1154	-986		-1177	-998	-850	Spot
Rippons Rd (Not Installed)	6	7.5	X								
Rippons Rd	7	8.341	-1100		-1156	-984		-1188	-1001	-850	Spot
Track	8	9.96	-1171		-1162	-996		-1158	-1107	-850	Spot
Rippons Rd	9	11.344	-1154		-1189	-1019		-1172	-1052	-850	Spot
Government road	10	12.784	-1173		-1187	-1014		-1132	-1080	-850	Spot
Government road	11	13.959	-1186		-1191	-1012		-1168	-1101	-850	Spot
Comaum Rd	12	15.482	-1174		-1153	-982		-1070	-1045	-850	Spot
Powerline easement	13	16.999	-1145		-1129	-958		-1180	-1090	-850	Spot
TP deleted	14	17.378	X								

					70 Secs	80 Secs					
Waterloo Rd	15	18.341	-1151		-1181	-1009		-1045	-905	-850	Spot
Powerline easement	16	19.506	-1162		-1154	-1012		-1120	-1099	-850	Spot
Dergholm - Penola Rd	17	20.762	-1161		-1152	-978		-1151	-1109	-850	Spot
Border Rd	18	21.52	-1157		-1183	-1001		-1163	-1080	-850	Spot
Dergholm - Penola Rd	19	23.515	-1192		-1148	-979		-1123	-1077	-850	Spot
Dergholm - Penola Rd	20	24.622	-1187		-1172	-1000	37	-1168	-1079	-850	Spot
Dergholm - Penola Rd	21	26.019	-1150		-1121	-978		-1109	-1080	-850	Spot
Fence	22	27.761	-1183		-1144	-974		-1121	-1088	-850	Spot
Fence	23	29.477	-1185		-1155	-979		-1143	-1089	-850	Spot
Gravel Rd	24	30.53	-1187		-1185	-1009		-1110	-1090	-850	Spot
Shepherds Lane	25	31.698	-1155		-1131	-969		-1160	-1120	-850	Spot
Robert Rymill Rd	26	33.088	-1148		-1153	-983		-1170	-1110	-850	Spot
Track and Fence	27	34.451	-1140		-1130	-963		-1180	-1020	-850	Spot
Penola - Mount Gambier Rd	28	36.711	-1118		-1096	-923		-1114	-1090	-850	Spot
Track and Fence	29	38.26	-1132		-1089	-927		-1112	-1080	-850	Spot
Unmade Government road	30	39.188	-1126		-1081	-952		-1090	-1020	-850	Spot
Rail Crossing (pipe)	31	41.215	-1128		-1098	-939		-1112	-990	-850	Spot

					70 Secs	80 Secs					
Rail Crossing (casing)	31	41.215			-556			-587		-850	Spot
Millers Rd	32	42.319	-1100		-1097	-917		-1114	-990	-850	Spot
Gas Flowline Crossing	33	43.569	-1110		-1097	-917		-1114	-990	-850	Spot
Gas Flowline Crossing	34	44.167	-1121		-1116	-962		-1107	-980	-850	Spot
Gas Flowline Crossing	35	44.21	-1138		-1115	-936		-1112	-990	-850	Spot
Gas Flowline Crossing	36	44.211			-1113	-938		-1117	-990	-850	Spot
End of pipeline	37	44.385	-1113		-1124	-947	34.5	-1101	-980	-850	Spot

APPENDIX 3: GRAPHICAL RESULTS FROM CATHODIC PROTECTION POTENTIAL SURVEY - JUNE 2009

