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No.	

Date			

(To be used by CONAF)

TREE- FELLING AND REFORESTATION MANAGEMENT PLAN TO CARRY OUT CIVIL WORKS

I. GENERAL BACKGROUND

Project Name: Proyecto Hidroeléctrico Alto Maipo.....

Project Owner or License Owner: AES Gener SA…….....

LAND PARCEL INFORMATION Sequential Cadastral No.: 1…....

1. Land Parcel Name: ……..….....

2. Owner's Name: AES Gener S.A.

3. Assessment Value No.:1002-108 and 1002-109 Commune: San José de Maipo.....

4. Province: Cordillera..... Region: Metropolitan

5. UTM Coordinates:

Indicate a Reference Point (Datum PSAD 56)	N	E
Land parcel adjacent to Route G–25, direct access from this road		
Town of El Canelo, Puente Las Lajas		
Kilometer 23 Route G-25	6284062	367983

6. Overall land parcel area (ha) pursuant to:

Deed of Ownership	Internal Revenue Service	Technical Survey
4.03 ha	4.03 ha	4.03 ha

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7. Access Roads: The land parcel is accessed from Route G–25, which joins Santiago with the town of San José de Maipo. There is direct access from this road at approximately kilometer 23.

LAND PARCEL INFORMATION Sequential Cadastral No.: 2……..

8. Land Parcel Name: Hacienda Río Colorado

9. Owner's Name: Ministry of National Assets

10. Assessment Value No.: 300-06 Commune: San José de Maipo.....

11. Province: Cordillera..... Region: Metropolitan

12. UTM Coordinates:

Indicate a Reference Point (Datum PSAD 56)	N	E
Detour from Route G–25, taking Route G–345 to Los Maitenes		
Town of Los Maitenes		
Kilometer 17, Route G–345	6.290.011	384.978

13. Overall land parcel area (ha) pursuant to:

Deed of Ownership	Internal Revenue Service	Technical Survey
111,000 ha	111,000 ha	111,000 ha

14. Access Roads: The land parcel is accessed from Route G–25, which joins Santiago with the town of San José de Maipo. Approximately 3 kilometers east of the town of El Manzano, past the bridge over the Colorado River, Route–345, an asphalt surfaced road, branches off to the northeast towards Los Maitenes.

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II. DESCRIPTION OF THE AREA TO BE INTERVENED

1. Soils (Plates 1, 1A, 1B, 1C, 1D, 1E, 1F, 1G)

Land Parcel No.	Area No.	Land Use Capacity Class	Average Grade (%)	Area (ha)	Legal Regime
1	LL – 1	VII MC	20	0.48	Not subject to DL[1] 701
2	CL – 1	VII MC	28	4.02	Not subject to DL 701
2	CL – 6	VII MC	48	0.17	Not subject to DL 701
2	CL – 8	IV	5	1.85	Not subject to DL 701
2	CM – 1	VII MC	35	2.05	Not subject to DL 701
2	AU – 7	VII MC	27	1.42	Not subject to DL 701
2	AU – 8	VII MC	24	10.05	Not subject to DL 701
2	AU – 10	VII MC	40	0.91	Not subject to DL 701
2	AU – 11	VII MC	48	1.07	Not subject to DL 701
2	AU – 14	VII MC	46	4.78	Not subject to DL 701
2	CA – 1	VII MC	24	1.78	Not subject to DL 701
2	CA – 4 A	VII MC	25	2.16	Not subject to DL 701
2	CA – 4 B	VII MC	28	0.23	Not subject to DL 701
2	LP – 1	VIII MC	58	0.10	Not subject to DL 701
2	LP – 4	VIII MC	62	0.07	Not subject to DL 701
2	LP – 5	VIII MC	55	0.09	Not subject to DL 701

[1] T's Note: DL refers to Decree-Law.

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2. Water Resources

Land Parcel No.	Area No.	Water Bodies or Courses	Temporality	Distance to the Area to Be Intervened (m)	Width of Waterway (m)
1	LL – 1	Maipo River	permanent	15	45 – 70
2	CL – 1	Colorado River	permanent	15	25 – 40
2	CL – 1	Aucayes Stream	permanent	1.950	8 – 10
2	CL – 6	Colorado River	permanent	18	25 – 40
2	CL – 6	Aucayes Stream	permanent	3.400	8 – 10
2	CL – 8	Colorado River	permanent	10	25 – 40
2	CL – 8	Aucayes Stream	permanent	5.170	8 – 10
2	CM – 1	Colorado River	permanent	16	25 – 40
2	CM – 1	Aucayes Stream	permanent	3.600	8 – 10
2	AU – 7	Colorado River	permanent	4.050	25 – 40
2	AU – 7	Aucayes Stream	permanent	150	8 – 10
2	AU – 8	Colorado River	permanent	2.980	25 – 40
2	AU – 8	Aucayes Stream	permanent	10	8 – 10
2	AU – 10	Colorado River	permanent	118	25 – 40
2	AU – 10	Aucayes Stream	permanent	10	8 – 10
2	AU – 11	Río Colorado	permanent	75	25 – 40
2	AU – 11	Aucayes Stream	permanent	10	8 – 10
2	AU – 14	Colorado River	permanent	160	25 – 40
2	AU – 14	Aucayes Stream	permanent	910	8 – 10
2	CA – 1	Colorado River	permanent	15	25 – 40
2	CA – 1	Aucayes Stream	permanent	4.930	8 – 10
2	CA – 4 A	Colorado River	permanent	196	25 – 40
2	CA – 4 A	Aucayes Stream	permanent	3.480	8 – 10
2	CA – 4 B	Colorado River	permanent	215	25 – 40
2	CA – 4 B	Aucayes Stream	permanent	3.730	8 – 10
2	LP – 1	Colorado River	permanent	10	25 – 40
2	LP – 4	Colorado River	permanent	15	25 – 40
2	LP – 5	Colorado River	permanent	10	25 – 40

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3. Vegetation

a) General Description

Land Parcel No.	Area No.	Current Use	Forest Type or Species	Area (ha)
1	LL – 1	Recreational Use	*Eucalyptus globulus* Plantation	0.48
2	CL – 1	Extensive Livestock Farming	Sclerophyllous (hawthorn – soapbark tree – litre tree)	4.02
2	CL – 6	Extensive Livestock Farming	Sclerophyllous (hawthorn – soapbark tree – litre tree – mayten tree)	0.17
2	CL – 8	Extensive Livestock Farming	Sclerophyllous (guayacan – litre– soapbark)	1.85
2	CM – 1	Extensive Livestock Farming	Sclerophyllous (mayten – soapbark – peumo extranjero [Crataegus oxyacantha])	2.05
2	AU – 7	Extensive Livestock Farming	Sclerophyllous (huingan – frangel)	1.42
2	AU – 8	Extensive Livestock Farming	Sclerophyllous (huingan – frangel – soapbark)	10.05
2	AU – 10	Extensive Livestock Farming	Sclerophyllous (soapbark – frangel – litre – huingan)	0.91
2	AU – 11	Extensive Livestock Farming	Sclerophyllous (frangel – soapbark tree – litre tree)	1.07
2	AU – 14	Extensive Livestock Farming	Sclerophyllous (frangel – litre – soapbark – huingan)	4.78
2	CA – 1	Extensive Livestock Farming	Sclerophyllous (frangel – huingan – soapbark)	1.78
2	CA – 4 A	Extensive Livestock Farming	Sclerophyllous (huingan – soapbark – mayten)	2.16
2	CA – 4 B	Extensive Livestock Farming	Sclerophyllous (soapbark – huingan – mayten)	0.23
2	LP – 1	Not Being Used	Sclerophyllous (bollen – litre – soapbark – mayten)	0.10
2	LP – 4	Not Being Used	Sclerophyllous (bollen – litre – soapbark)	0.07
2	LP – 5	Not Being Used	Sclerophyllous (bollen – soapbark – litre)	0.09

The wooded formations or rodales (T's Note:. groups of plants growing together and differing from others in the surroundings) that will be affected by the activities of the PHAM) belong to the **Sclerophyllous forest type**.

In the discharge area into the Maipo River, a ***Eucalyptus globulus*** plantation will be affected.

The dendometric parameters of these rodales are summarized below. The rodal table and the respective statistical charts are shown in Appendix 1.

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Species	Density (trees/ha)	No. of sprouts / tree	Avg DAT (cm)	Avg Height (m)
Rodal LL – 1 (Maipo River)				
Eucalyptus globulus	237	1.1	47.0	17.9
Cryptocarya alba	25	1.0	5.5	3.8
Lithrea caustica	13	3.0	6.2	3.0
Acacia dealbata	13	1.0	26.0	16.0
Total	**288**			
Rodal CL – 1 (Colorado River)				
Acacia caven	150	1.7	8.9	2.7
Lithrea caustica	50	1.0	6.5	2.3
Quillaja saponaria	50	7.5	17.0	10.5
Total	**250**			
Rodal CL – 6 (Colorado River)				
Quillaja saponaria	310	2.0	16.7	7.1
Lithrea caustica	280	4.7	6.9	4.6
Acacia caven	140	1.4	5.0	2.8
Maytenus boaria	100	2.4	8.6	6.0
Schinus polygama	80	1.3	4.8	2.6
Kageneckia oblonga	5	6.0	6.4	3.5
Porlieria chilensis	5	1.0	4.0	1.5
Total	**920**			
Rodal CL – 8 (Colorado River)				
Porlieria chilensis	290	6.2	5.6	2.1
Lithrea caustica	90	8.8	7.4	3.2
Quillaja saponaria	40	2.5	14.1	5.3
Total	**420**			
Rodal CM – 1				
Maytenus boaria	317	1.1	18.9	8.4
Crataegus monogyna	267	1.3	8.9	7.3
Quillaja saponaria	216	2.8	28.3	13.6
Azara petiolaris	50	4.8	10.0	8.5
Total	**850**			
Rodal AU – 7 (Aucayes Stream)				
Schinus polygama	575	1.4	5.4	1.6
Kageneckia angustifolia	550	3.2	12.3	5.6
Total	**1.125**			
Rodal AU – 8 (Aucayes Stream)				
Schinus polygama	275	2.4	3.9	0.9
Kageneckia angustifolia	150	8.6	10.4	3.8
Quillaja saponaria	100	5.5	12.6	4.5
Total	**525**			
Rodal AU – 10 (Aucayes Stream)				
Quillaja saponaria	175	2.9	11.5	4.8
Kageneckia oblonga	150	5.3	5.2	4.1
Lithrea caustica	100	3.8	7.0	3.8
Schinus polygama	25	1.0	4.0	1.3
Total	**450**			

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Species	Density (trees / ha)	No. of sprouts / tree	Avg DAT (cm)	Avg Height(m)
Rodal AU – 11 (Aucayes Stream)				
Kageneckia oblonga	433	6.5	8.9	3.3
Quillaja saponaria	167	5.2	5.6	4.0
Lithrea caustica	17	3.0	6.1	2.8
Total	**617**			
Rodal AU – 14 (Aucayes Stream)				
Kageneckia oblonga	450	2.8	5.3	3.2
Lithrea caustica	275	3.5	4.6	2.9
Quillaja saponaria	125	2.4	11.1	5.7
Schinus polygama	75	1.2	4.9	1.7
Total	**925**			
Rodal CA – 1 (Colorado River)				
Kageneckia angustifolia	275	1.9	9.7	3.5
Schinus polygama	175	1.0	2.0	1.7
Quillaja saponaria	150	2.2	14.5	4.8
Total	**600**			
Rodal CA – 4A (Colorado River)				
Schinus polygama	425	1.4	5.6	1.8
Quillaja saponaria	350	2.7	16.2	6.8
Maytenus boaria	25	1.0	13.0	5.0
Total	**800**			
Rodal CA – 4 B (Colorado River)				
Quillaja saponaria	680	2.6	13.8	8.1
Schinus polygama	340	1.3	3.8	1.6
Maytenus boaria	20	1.0	3.0	2.0
Total	**1.040**			
Rodal LP – 1 (Colorado River)				
Kageneckia oblonga	75	3.3	4.6	3.8
Lithrea caustica	63	6.0	5.9	4.9
Quillaja saponaria	50	2.0	27.7	7.8
Maytenus boaria	12	1.0	12.0	5.0
Total	**200**			
Rodal LP – 4 (Colorado River)				
Kageneckia oblonga	138	3.3	5.4	3.5
Lithrea caustica	62	2.8	7.3	4.2
Quillaja saponaria	50	2.2	25.1	7.0
Total	**250**			
Rodal LP – 5 (Colorado River)				
Kageneckia oblonga	275	3.7	5.1	3.2
Quillaja saponaria	238	2.7	23.6	8.8
Lithrea caustica	125	4.8	5.7	3.3
Total	**638**			

b) Flora with Conservation Problems

Land Parcel No.	Area No.	Species	Conservation Status	Density (individuals / ha)
1	LL – 1	None	----	---
2	CL – 1	*Porlieria chilensis*	Vulnerable	2
2	CL – 6	*Porlieria chilensis*	Vulnerable	5
2	CL – 8	*Porlieria chilensis*	Vulnerable	290
2	CM – 1	None	----	---
2	AU – 7	*Kageneckia angustifolia*	Regional Vulnerable	550
2	AU – 8	*Kageneckia angustifolia*	Regional Vulnerable	150
2	AU – 10	*Kageneckia angustifolia*	Regional Vulnerable	12
2	AU – 10	*Eriosyce (Neoporteria) curvispina*	Vulnerable	4
2	AU – 11	*Kageneckia angustifolia*	Regional Vulnerable	25
2	AU – 11	*Eriosyce (Neoporteria) curvispina*	Vulnerable	6
2	AU – 14	*Kageneckia angustifolia*	Regional Vulnerable	36
2	AU – 14	*Eriosyce (Neoporteria) curvispina*	Vulnerable	5
2	CA – 1	*Kageneckia angustifolia*	Regional Vulnerable	275
2	CA – 1	*Eriosyce (Neoporteria) curvispina*	Vulnerable	6
2	CA – 4 A	*Kageneckia angustifolia*	Regional Vulnerable	8
2	CA – 4 A	*Eriosyce (Neoporteria) curvispina*	Vulnerable	3
2	CA – 4 B	*Kageneckia angustifolia*	Regional Vulnerable	15
2	CA – 4 B	*Eriosyce (Neoporteria) curvispina*	Vulnerable	2
2	LP – 1	*Porlieria chilensis*	Vulnerable	3
2	LP – 4	*Porlieria chilensis*	Vulnerable	2
2	LP – 4	*Eriosyce (Neoporteria) curvispina*	Vulnerable	3
2	LP – 5	*Porlieria chilensis*	Vulnerable	2

4. Fauna with Conservation Problems

Land Parcel No.	Species	Conservation Status
2	*Liolaemus lemniscatus* (Elegant Tree Iguana)	Vulnerable
2	*Liolaemus monticola* (Mountain Lizard)	Vulnerable
2	*Callopistes palluma* (Iguana)	Vulnerable
2	*Pleurodema thaul* (Four-eyed Frog)	Vulnerable
2	*Buteo albigula* (White-throated Hawk)	Rare

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III. TREE-FELLING OBJECTIVES

Clearing of tree vegetation the areas where the various surface works of the Alto Maipo hydroelectric project
will be built. These works are: water intakes, headrace channels, loading chamber, control
building, electric substation and new access roads

IV. PROGRAM OF ACTIVITIES

1. Tree-felling (Plates 1, 2A, 2B, 2C, 2D, 2E, 2F, 2G)

Land Parcel No.	Area to Be Intervened		Year	Land Use Capac. Class	Forest Type and/or Species to Be Intervened
	No.	Area (ha)			
1	LL – 1	0.48	2008	VII	*Eucalyptus globulus* Plantation
2	CL – 1	4.02	2008	VII	Sclerophyllous (hawthorn – soapbark tree – litre tree)
2	CL – 6	0.17	2008	VII	Sclerophyllous (soapbark – litre – mayten tree)
2	CL – 8	1.85	2008	IV	Sclerophyllous (guayacan tree – litre– soapbark)
2	CM – 1	2.05	2008	VII	Sclerophyllous (mayten – soapbark – peumo extranjero [Crataegus oxyacantha])
2	AU – 7	1.42	2008	VII	Sclerophyllous (huingan – frangel)
2	AU – 8	10.05	2008	VII	Sclerophyllous (huingan – frangel – soapbark)
2	AU – 10	0.91	2008	VII	Sclerophyllous (soapbark – frangel – litre – huingan)
2	AU – 11	1.07	2008	VII	Sclerophyllous (frangel – soapbark – litre)
2	AU – 14	4.78	2008	VII	Sclerophyllous (frangel – litre – soapbark – huingan)
2	CA – 1	1.78	2008	VII	Sclerophyllous (frangel – huingan – soapbark)
2	CA – 4 A	2.16	2008	VII	Sclerophyllous (huingan – soapbark – mayten)
2	CA – 4 B	0.23	2008	VII	Sclerophyllous (soapbark – huingan – mayten)
2	LP – 1	0.10	2008	VIII	Sclerophyllous (bollen – litre – soapbark – mayten)
2	LP – 4	0.07	2008	VIII	Sclerophyllous (bollen – litre – soapbark)
2	LP – 5	0.09	2008	VIII	Sclerophyllous (bollen – soapbark – litre)
Total		**31.23**			

2. Reforestation (Plates 3A and 3B)

Land Parcel No.	Area to Be Reforested		Year	Land Use Capac Class	Current Vegetation Type	Species	Density pl/ha
	No.	Area (ha)					
2	1 - R	30.5	2010	VI	w/o vegetation	*Kageneckia angustifolia*	1,000
2	2 - R	5.5	2010	VII	w/o vegetation	*Porlieria chilensis*	1,000
Total		**36 ha**					

Considering that the average density of all the parcels under assessment in the native forest formations that will be affected by the project is 626 trees per hectare (with a minimum of 200 and a maximum of 1,125), a plantation density of 1,000 trees per hectare has been proposed. This figure is 60% higher than the abovementioned average.

The 1-R area to be reforested is located in the El Durazno sector, which is accessed from the El Alfalfal sector. The 2-R area to be reforested is located in the surroundings of the Los Maitenes ancillary tank, adjoining a sector where a muck storage pile has been planned.

As to the species *Eriosyce (Neoporteria) curvispina*, all individuals impacted by the works were transplanted, and 550 individuals (a 10x1 compensation) will be planted in areas to be defined at the micro routing stage of the Vegetation Restoration Plan.

During the reforestation stage, a total of 30,110 specimens of *Kageneckia angustifolia*, 5,490 specimens of *Porlieria chilensis*, and 550 specimens of *Eriosyce (Neoporteria) curvispina* will be planted.

V. PROTECTION MEASURES

1. Environmental Protection

Land Parcel No. 1 and 2 Area No. LL – 1; CL – 1; CL – 6; CL – 8; CM – 1; AU – 7; AU – 10; AU – 11; AU – 14; CA – 1; CA – 4 A; CA – 4 B; LP – 1; LP – 4; LP – 5

Type of Restriction:

Protection Measures:

Soil

1) Motor vehicle traffic will only be allowed on the especially implemented roads so that the effect of compaction may be limited exclusively to these sectors.

2) Liquid polluting wastes (oils and fuels) will be stored at sites especially implemented

for that purpose, to be later transported to sites authorized for the disposal of liquid wastes.

Watercourses

1) To prevent problems in the normal flow of rivers and streams during rainy periods, dumping wood material resulting from tree-felling into watercourses shall be avoided. Care shall also be exercised to avoid spilling material from earthmoving works into watercourses.

Flora and Fauna with Conservation Problems

1) Access to the sectors to be intervened will be restricted in order to prevent entry by people not involved in the activities.

2) Hunting within the land parcel will be forbidden.

3) All personnel hired by the companies working in the area (including those engaged in tree-felling and reforestation activities) will be instructed not to harm any fauna species present in the area.

2. Protection to Reforestation Activities

Protection Measures:

1) To ensure the protection of the reforestation area, a perimeter fence will installed. In case a large population of lagomorphs (hares and rabbits) is detected, each plant will be protected with a wire mesh ('corrumet' or similar) that will be secured to the ground by means of stakes.

2) Maintenance measures such as competition control, irrigation and fertilization will be applied. A thorough inspection of the phytosanitary condition of the plantation will also be undertaken to control the appearance of plagues or diseases on a timely basis.

3. Protection against Forest Fires

a) Prevention Measures:

1) The use of fire will be forbidden both at the tree-felling and reforestation sites. All personnel engaging in these tasks shall be trained in basic forest fire prevention and control notions; additionally, fire extinguishers and appropriate tools for initial control of eventual fires will be available on a permanent basis.

2) Oils and fuels will be stored and handled in safe locations especially implemented to be used for that purpose. If transportation of any of these products to the site is required, they will be transported in appropriate containers, avoiding contact with flammable materials (e.g. cigarettes, matches).

b) Control Measures:

1) A perimeter fire-break will be constructed mostly to prevent from spreading due to flammable grasses.

2) In case a fire occurs, prompt notice shall be given to CONAF, the Fire Department and the Police.

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VI. SUMMARY

Commune	Province	Region	Tree-felling		Reforestation	
			No. of Parcels	Area (ha)	No. of Parcels	Area (ha)
San José de Maipo	Cordillera	MR	1	0.48		
San José de Maipo	Cordillera	MR	2	30.75	2	36
Total				31.23		36

General Remarks:

VII. MAPS

1. Land Parcel Map

The attached maps display the information requested by CONAF: land parcel boundaries and cadastral number of adjacent parcels, magnetic north, UTM coordinates, drainage basin and existing roads, soils and surface covered by native forest in the area to be intervened, and area to be reforested.

(Signatures will be regularized during the process of obtaining sectorial permits)
Owner's Name: Ministry of National Assets
Legal Representative:
Tax Identification Number (RUT):

Signature

Technical Survey made by: Verónica Palavicino Baeza
Profession: Forestry Expert
Tax Identification Number (RUT): 7.020.598 – K

Signature

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Place and Date: Santiago, March 25, 2008.

PATCH SUMMARY LL - 1 (Maipo river)

Chart 1 – 1: Baseline Area and Density, break down as per specie and total.

	Acacia dealbata		Cryptocarya alba		Eucalyptus globulus		Lithrea caustica		Total	
DAP Class	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
4	12.5	0.02	12.5	0.02	0.0	0.00	12.5	0.39	37.5	0.42
6	12.5	0.04	12.5	0.04	0.0	0.00	25.0	1.77	50.0	1.84
8	0.0	0.00	0.0	0.00	12.5	0.06	0.0	0.00	12.5	0.06
10	0.0	0.00	0.0	0.00	12.5	0.10	0.0	0.00	12.5	0.10
12	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
14	0.0	0.00	0.0	0.00	12.5	0.19	0.0	0.00	12.5	0.19
16	0.0	0.00	0.0	0.00	12.5	0.25	0.0	0.00	12.5	0.25
18	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
20	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22	0.0	0.00	0.0	0.00	12.5	0.48	0.0	0.00	12.5	0.48
24	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	25.0	1.33	0.0	0.00	25.0	1.33	0.0	0.00	50.0	2.65
28	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
30	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
32	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
34	0.0	0.00	0.0	0.00	25.0	2.27	0.0	0.00	25.0	2.27
36	0.0	0.00	0.0	0.00	12.5	1.27	0.0	0.00	12.5	1.27
38	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
40	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
42	0.0	0.00	0.0	0.00	12.5	1.73	0.0	0.00	12.5	1.73
44	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
46	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
48	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
50	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
52	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00

DAP Class	Acacia dealbata		Cryptocarya alba		Eucalyptus globulus		Lithrea caustica		Total	
	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
54	0.0	0.00	0.0	0.00	12.5	2.86	0.0	0.00	12.5	2.86
56	0.0	0.00	0.0	0.00	12.5	3.08	0.0	0.00	12.5	3.08
58	0.0	0.00	0.0	0.00	12.5	3.30	0.0	0.00	12.5	3.30
60	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
62	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
64	0.0	0.00	0.0	0.00	25.0	8.04	0.0	0.00	25.0	8.04
66	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
68	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
70	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
72	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
74	12.5	5.38	0.0	0.00	25.0	10.75	0.0	0.00	37.5	16.13
76	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
78	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
80	0.0	0.00	0.0	0.00	12.5	6.28	0.0	0.00	12.5	6.28
82	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
84	0.0	0.00	0.0	0.00	12.5	6.93	0.0	0.00	12.5	6.93
86	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
88	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
90	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
92	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
94	0.0	0.00	0.0	0.00	12.5	8.67	0.0	0.00	12.5	8.67
96	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
98	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
100	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Total	**63**	**6.75**	**25**	**0.05**	**263**	**57.61**	**38**	**2.16**	**388**	**66.57**

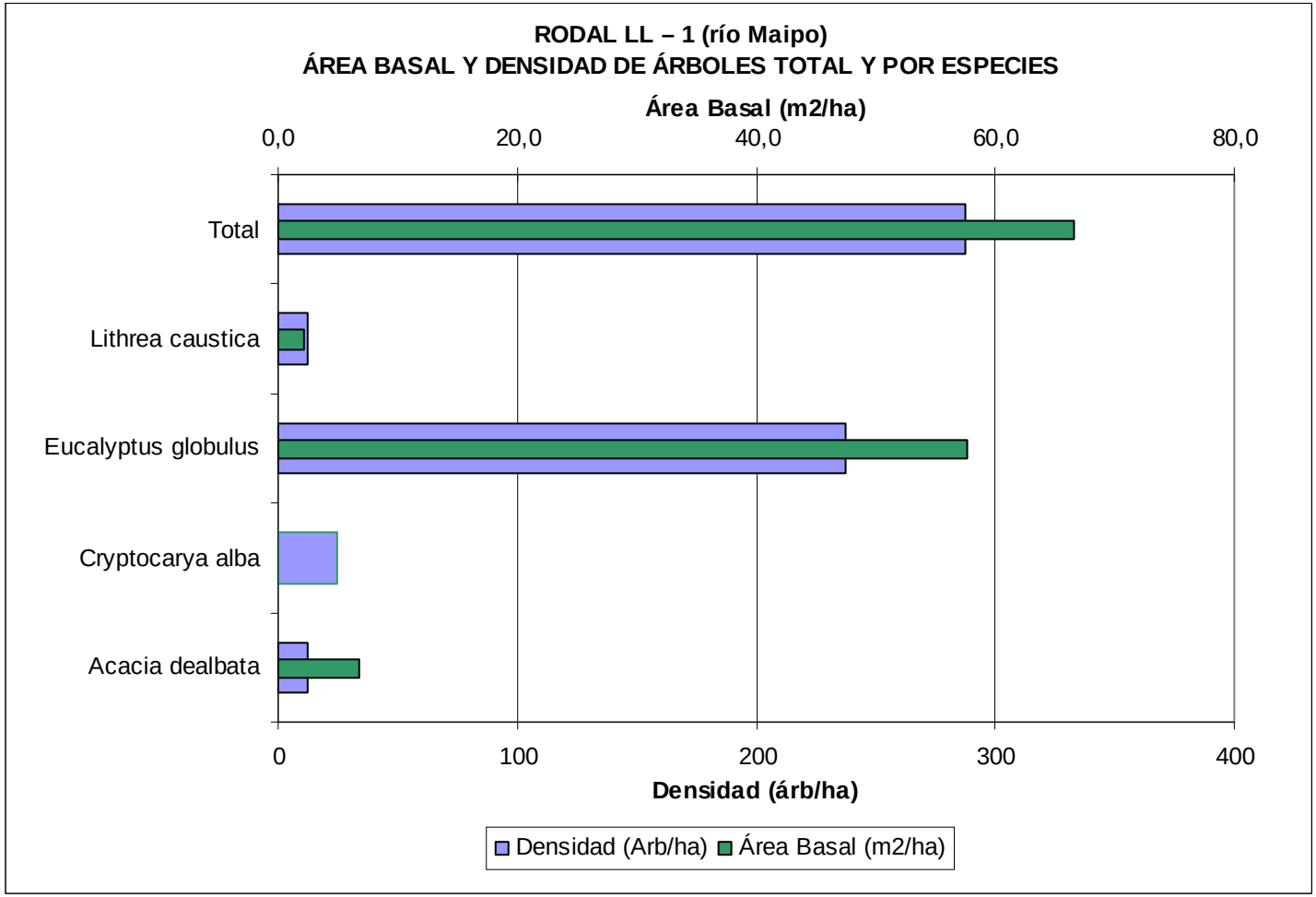
Chart 1 – 2: Stadigraphs

Stadigraphs	Acacia dealbata		Cryptocarya alba		Eucalyptus globulus	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	17.7	9.6	35.4	0.1	17.7	29.1
Variance	312.5	91.2	1250.0	0.0	312.5	848.5
Coefficient of Variance	141.4%.	141.4%.	141.4%.	141.4%.	7.4%.	96.0%.
Expected error	138.6%.	138.6%.	138.6%.	138.6%.	7.3%.	94.1%.
Mean	12.5	6.8	25.0	0.1	237.5	30.3

Stadigraphs	Lithrea caustica		TOTAL	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	17.7	3.1	53.0	41.8
Variance	312.5	9.3	2812.5	1747.9
Coefficient of Variance	141.4%.	141.4%.	18.4%.	106.4%.
Expected error	138.6%.	138.6%.	18.1%.	104.2%.
Mean	12.5	2.2	287.5	39.3

Chart 1 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Eucalyptus globulus	237	57.61	47.0	17.9
Cryptocarya alba	25	0.05	5.5	3.8
Acacia dealbata	13	6.75	26.0	16.0
Lithrea caustica	13	2.16	6.2	3.0


RODAL LL – 1 (río Maipo)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
20,0
40,0
60,0
80,0
Total
Lithrea caustica
Eucalyptus globulus
Cryptocarya alba
Acacia dealbata
0
100
200
300
400
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY LL - 1 (Colorado river)

Chart 2 – 1: Baseline Area and Density, break down as per specie and total.

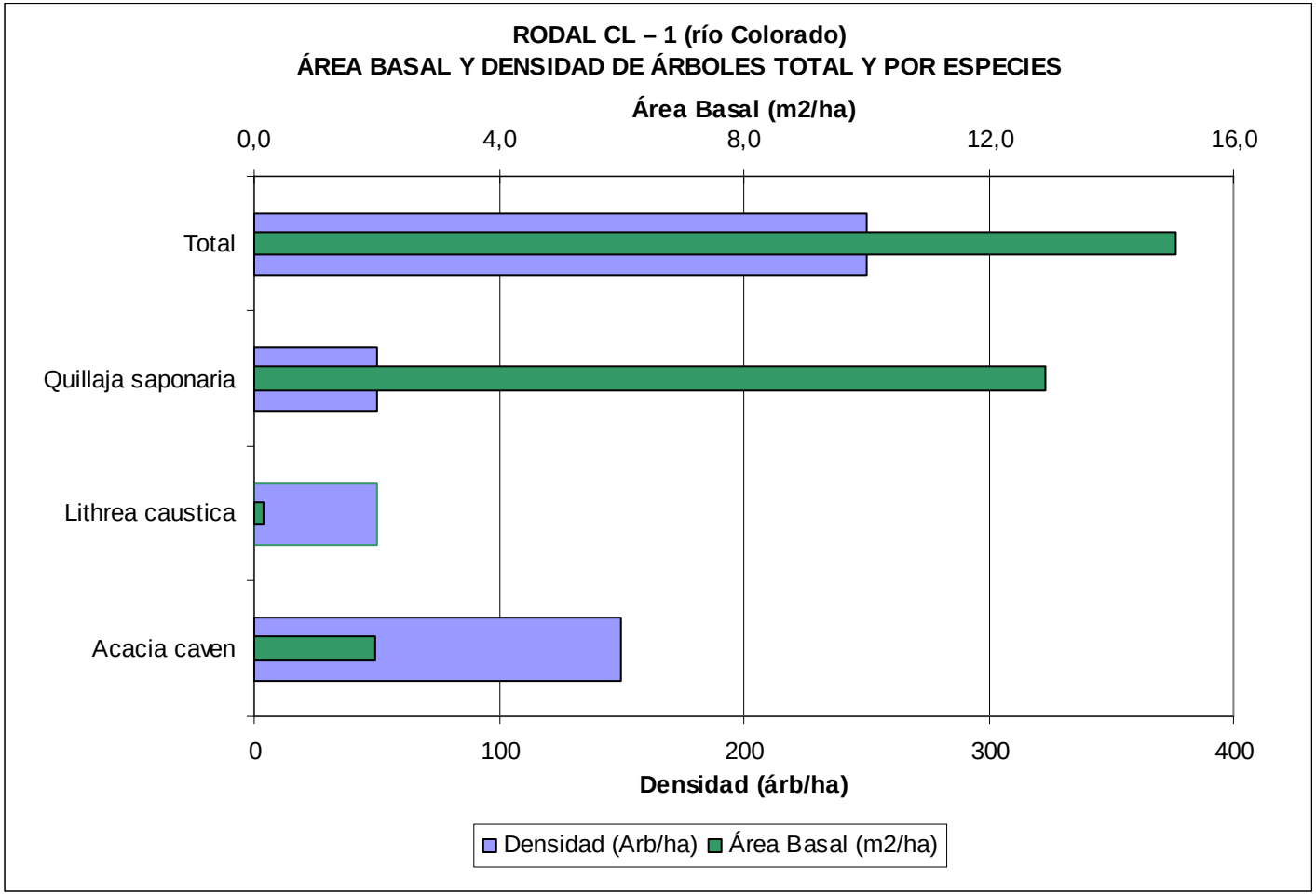
	Acacia caven		Lithrea caustica		Quillaja saponaria		Total	
DAP Class	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
4	50	0.06	25.00	0.03	25.00	0.03	100	0.13
6	75	0.21	0.00	0.00	75.00	0.21	150	0.42
8	225	1.13	25.00	0.13	25.00	0.13	275	1.38
10	0	0.00	0.00	0.00	0.00	0.00	0	0.00
12	50	0.57	0.00	0.00	0.00	0.00	50	0.57
14	0	0.00	0.00	0.00	25.00	0.38	25	0.38
16	0	0.00	0.00	0.00	25.00	0.50	25	0.50
18	0	0.00	0.00	0.00	0.00	0.00	0	0.00
20	0	0.00	0.00	0.00	0.00	0.00	0	0.00
22	0	0.00	0.00	0.00	25.00	0.95	25	0.95
24	0	0.00	0.00	0.00	25.00	1.13	25	1.13
26	0	0.00	0.00	0.00	0.00	0.00	0	0.00
28	0	0.00	0.00	0.00	0.00	0.00	0	0.00
30	0	0.00	0.00	0.00	75.00	5.30	75	5.30
32	0	0.00	0.00	0.00	25.00	2.01	25	2.01
34	0	0.00	0.00	0.00	25.00	2.27	25	2.27
36	0	0.00	0.00	0.00	0.00	0.00	0	0.00
38	0	0.00	0.00	0.00	0.00	0.00	0	0.00
40	0	0.00	0.00	0.00	0.00	0.00	0	0.00
Total	**400**	**1.97**	**50**	**0.16**	**350**	**12.92**	**800**	**15.05**

Chart 2 – 2: Stadigraphs

Stadigraphs	Acacia caven		Lithrea caustica		Quillaja saponaria		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**0.0**	**0.2**	**0.0**	**0.1**	**0.0**	**17.2**	**0.0**	**17.1**
Variance	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**296.8**	**0.0**	**294.1**
Coefficient of Variance	**0.0%.**	**10.7%.**	**0.0%.**	**84.9%.**	**0.0%.**	**133.3%.**	**0.0%.**	**114.0%.**
Expected error	**0.0%.**	**10.5%.**	**0.0%.**	**83.2%.**	**0.0%.**	**130.7%.**	**0.0%.**	**111.7%.**
Mean	**150.0**	**2.0**	**50.0**	**0.2**	**50.0**	**12.9**	**250.0**	**15.0**

Chart 2 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Acacia caven	150	1.97	8.9	2.7
Lithrea caustica	50	0.16	6.5	2.3
Quillaja saponaria	50	12.92	17.0	10.5


RODAL CL – 1 (río Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
4,0
8,0
12,0
16,0
Total
Quillaja saponaria
Lithrea caustica
Acacia caven
0
100
200
300
400
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CL-6 (Colorado river)

Chart 3 – 1: Baseline Area and Density, break down as per specie and total.

	Acacia caven		Kageneckia oblonga		Lithrea caustica		Maytenus boaria		Porlieria chilensis		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
2	10	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10	0.00
4	150	0.19	5	0.01	380	0.48	60	0.08	5	0.01	95	0.12	80	7.54	775	8.41
6	50	0.14	20	0.06	440	1.24	20	0.06	0	0.00	125	0.35	20	5.65	675	7.51
8	5	0.03	5	0.03	380	1.91	40	0.20	0	0.00	80	0.40	0	0.00	510	2.56
10	0	0.00	0	0.00	20	0.16	0	0.00	0	0.00	5	0.04	0	0.00	25	0.20
12	0	0.00	0	0.00	40	0.45	80	0.90	0	0.00	100	1.13	0	0.00	220	2.49
14	0	0.00	0	0.00	20	0.31	40	0.62	0	0.00	40	0.62	0	0.00	100	1.54
16	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
18	0	0.00	0	0.00	20	0.51	0	0.00	0	0.00	0	0.00	0	0.00	20	0.51
20	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	0.19	0	0.00	5	0.19
24	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
26	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	0.27	0	0.00	5	0.27
28	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	20	1.23	0	0.00	20	1.23
30	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
34	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	20	1.82	0	0.00	20	1.82
36	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	20	2.04	0	0.00	20	2.04
38	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	20	2.27	0	0.00	20	2.27
40	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
42	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
44	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
46	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
48	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total	**215**	**0.35**	**30**	**0.09**	**1300**	**5.06**	**240**	**1.85**	**5**	**0.01**	**535**	**10.47**	**100**	**13.19**	**2425**	**31.02**

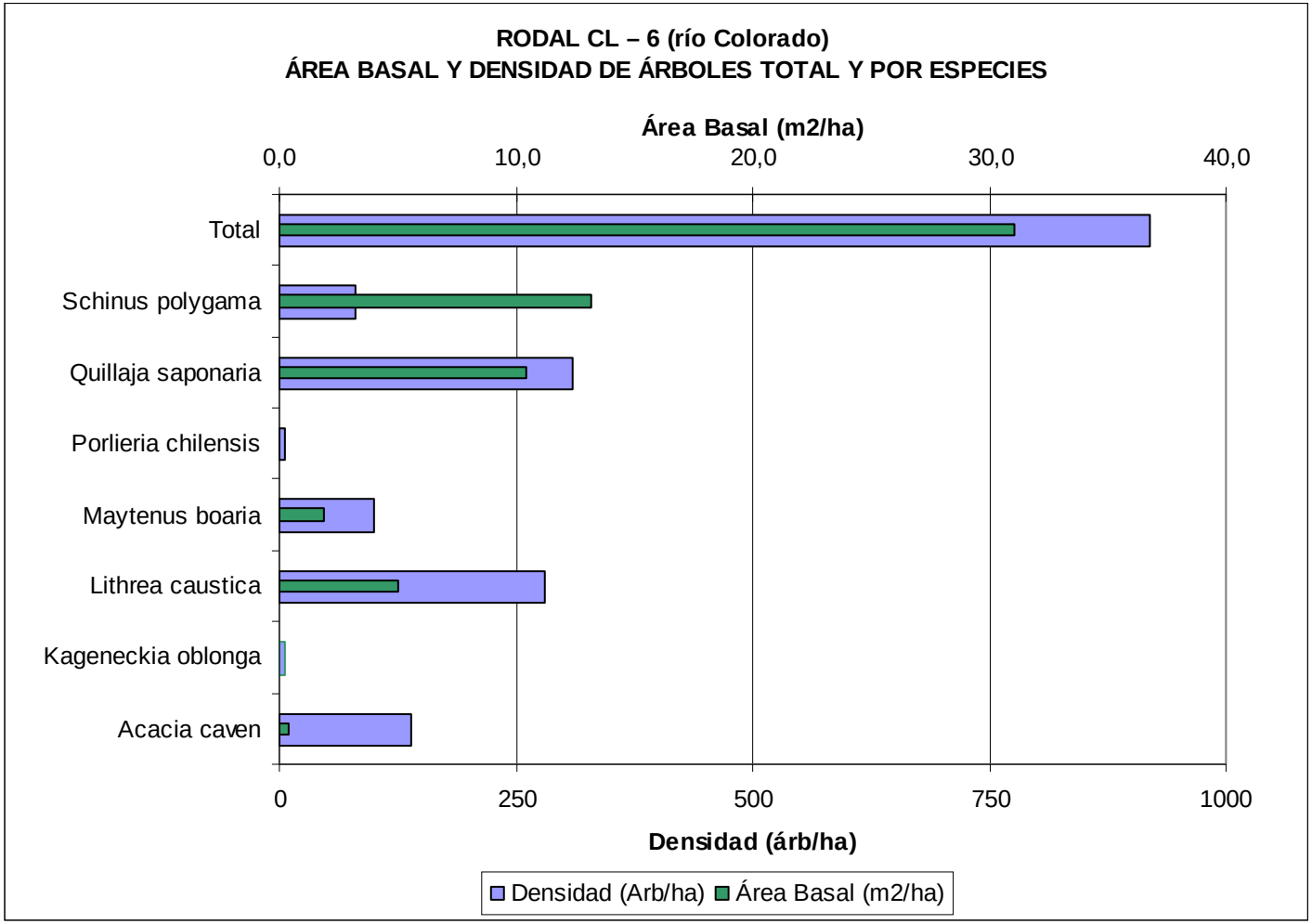
Chart 3 – 2: Stadigraphs

Stadigraphs	*Acacia caven*		*Kageneckia oblonga*		*Lithrea caustica*		*Maytenus boaria*	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**54.8**	**0.3**	**11.2**	**0.2**	**164.3**	**3.1**	**70.7**	**2.2**
Variance	**3000.0**	**0.1**	**125.0**	**0.0**	**27000.0**	**9.5**	**5000.0**	**4.7**
Coefficient of Variance	**39.1%.**	**77.9%.**	**223.6%.**	**223.6%.**	**58.7%.**	**58.7%.**	**70.7%.**	**117.3%.**
Expected error	**38.3%.**	**76.3%.**	**219.1%.**	**219.1%.**	**57.5%.**	**57.6%.**	**69.3%.**	**114.9%.**
Mean	**140.0**	**0.4**	**5.0**	**0.1**	**280.0**	**5.3**	**100.0**	**1.9**

Stadigraphs	*Porlieria chilensis*		*Quillaja saponaria*		*Schinus polygama*		**Total**	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**11.2**	**0.0**	**54.8**	**11.2**	**44.7**	**14.4**	**238.7**	**18.6**
Variance	**125.0**	**0.0**	**3000.0**	**125.8**	**2000.0**	**207.3**	**57000.0**	**344.9**
Coefficient of Variance	**223.6%.**	**223.6%.**	**17.7%.**	**107.1%.**	**55.9%.**	**91.7%.**	**26.0%.**	**59.9%.**
Expected error	**219.1%.**	**219.1%.**	**17.3%.**	**105.0%.**	**54.8%.**	**89.8%.**	**25.4%.**	**58.7%.**
Mean	**5.0**	**0.0**	**310.0**	**10.5**	**80.0**	**15.7**	**920.0**	**31.02**

Chart 3 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Quillaja saponaria	310	10.47	16.7	7.1
Lithrea caustica	280	5.06	6.9	4.6
Acacia caven	140	0.35	5.0	2.8
Maytenus boaria	100	1.85	8.6	6.0
Schinus polygama	80	13.19	4.8	2.6
Kageneckia oblonga	5	0.09	6.4	3.5
Porlieria chilensis	5	0.01	4.0	1.5


RODAL CL – 6 (río Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
10,0
20,0
30,0
40,0
Total
Schinus polygama
Quillaja saponaria
Porlieria chilensis
Maytenus boaria
Lithrea caustica
Kageneckia oblonga
Acacia caven
0
250
500
750
1000
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CL - 8

Chart 4 – 1: Baseline Area and Density, break down as per specie and total.

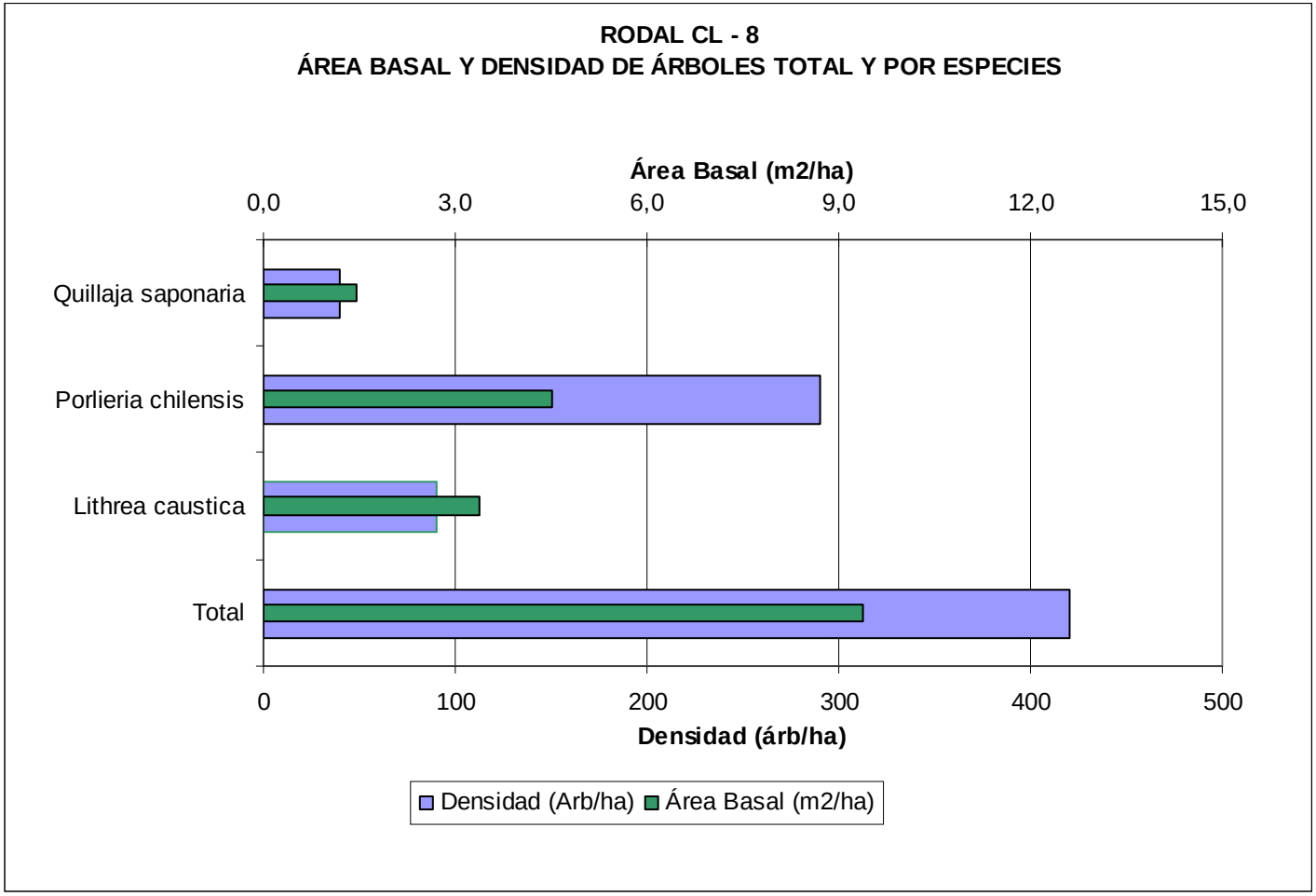
	Lithrea caustica		Porlieria chilensis		Quillaja saponaria		Total	
DAP Class	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**
	(reb/ha)	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**
4	220	0.28	980.00	1.23	0	0.00	1200	1.51
6	130	0.37	520.00	1.47	0	0.00	650	1.84
8	170	0.85	160.00	0.80	10	0.05	340	1.71
10	70	0.55	100.00	0.79	20	0.16	190	1.49
12	60	0.68	20.00	0.23	40	0.45	120	1.36
14	30	0.46	0.00	0.00	10	0.15	40	0.62
16	10	0.20	0.00	0.00	20	0.40	30	0.60
18	0	0.00	0.00	0.00	10	0.25	10	0.25
20	0	0.00	0.00	0.00	0	0.00	0	0.00
22	0	0.00	0.00	0.00	0	0.00	0	0.00
24	0	0.00	0.00	0.00	0	0.00	0	0.00
26	0	0.00	0.00	0.00	0	0.00	0	0.00
28	0	0.00	0.00	0.00	0	0.00	0	0.00
30	0	0.00	0.00	0.00	0	0.00	0	0.00
32	0	0.00	0.00	0.00	0	0.00	0	0.00
34	0	0.00	0.00	0.00	0	0.00	0	0.00
36	0	0.00	0.00	0.00	0	0.00	0	0.00
38	0	0.00	0.00	0.00	0	0.00	0	0.00
40	0	0.00	0.00	0.00	0	0.00	0	0.00
Total	**690**	**3.39**	**1780**	**4.52**	**110**	**1.47**	**2580**	**9.38**

Chart 4 – 2: Stadigraphs

Stadigraphs	*Lithrea caustica*		*Porlieria chilensis*		*Quillaja saponaria*		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	42.4	1.9	14.1	2.4	28.3	0.9	56.6	3.3
Variance	1800.0	3.5	200.0	5.5	800.0	0.9	3200.0	10.9
Coefficient of Variance	47.1%.	55.2%.	4.9%.	52.1%.	70.7%.	62.9%.	13.5%.	35.2%.
Expected error	46.2%.	54.1%.	4.8%.	51.1%.	69.3%.	61.6%.	13.2%.	34.5%.
Mean	90.0	3.4	290.0	4.5	40.0	1.5	420.0	9.4

Chart 4 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Porlieria chilensis	290	4.52	5.6	2.1
Lithrea caustica	90	3.39	7.4	3.2
Quillaja saponaria	40	1.47	14.1	5.3


RODAL CL - 8
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
3,0
6,0
9,0
12,0
15,0
Quillaja saponaria
Porlieria chilensis
Lithrea caustica
Total
0
100
200
300
400
500
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CM - 1

Chart 5 – 1: Baseline Area and Density, break down as per specie and total.

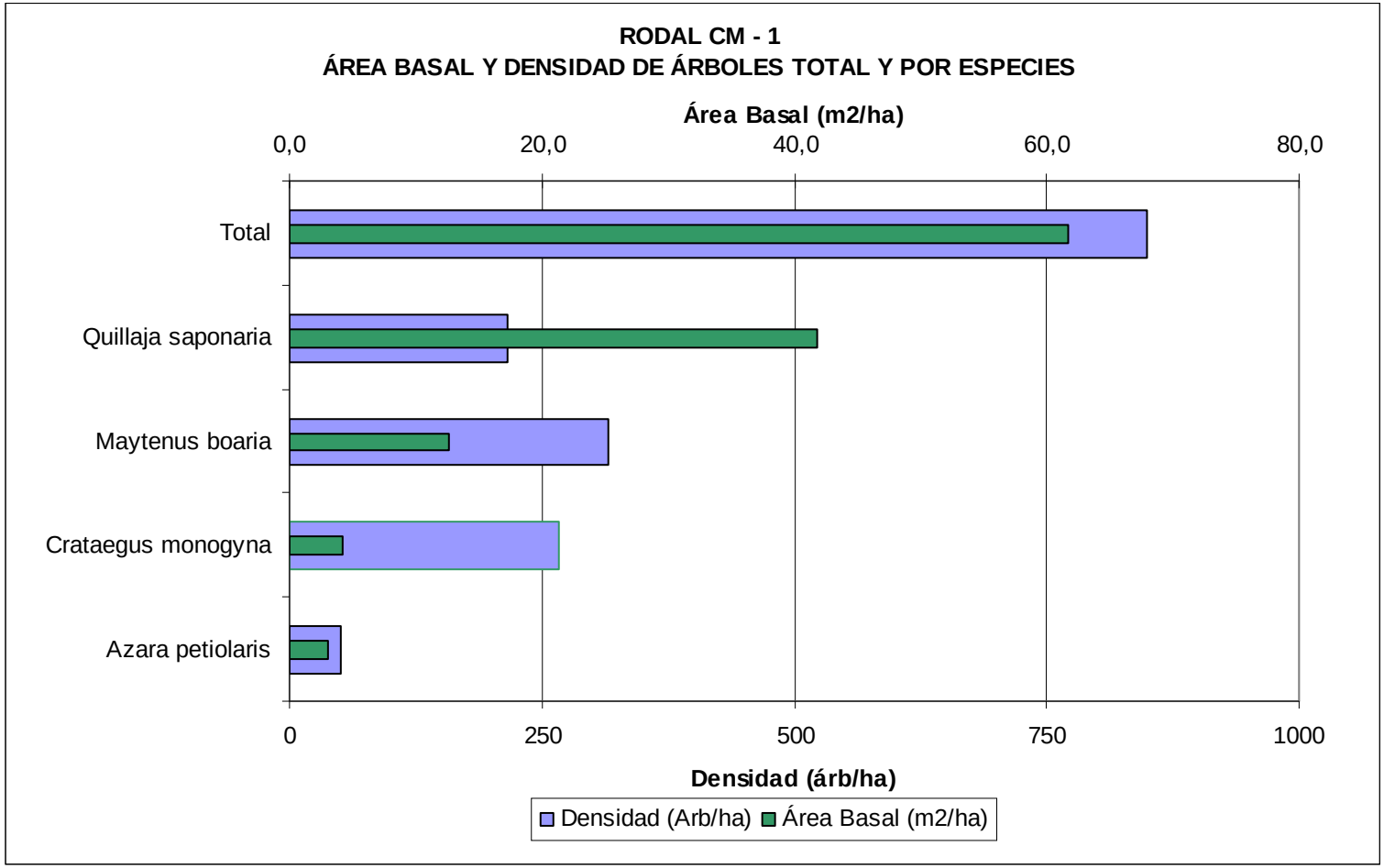
	Azara petiolaris		Crataegus monogyna		Maytenus boaria		Quillaja saponaria		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
4	83	0.10	0	0.00	17	0.02	17	0.02	117	0.15
6	33	0.09	100	0.28	33	0.09	0	0.00	167	0.47
8	17	0.08	183	0.92	50	0.25	33	0.17	283	1.42
10	33	0.26	67	0.52	67	0.52	17	0.13	183	1.44
12	17	0.19	50	0.57	50	0.57	33	0.38	150	1.70
14	0	0.00	0	0.00	0	0.00	33	0.51	33	0.51
16	0	0.00	0	0.00	17	0.34	0	0.00	17	0.34
18	17	0.42	0	0.00	0	0.00	33	0.85	50	1.27
20	0	0.00	0	0.00	0	0.00	50	1.57	50	1.57
22	0	0.00	17	0.63	17	0.63	100	3.80	133	5.07
24	0	0.00	0	0.00	33	1.51	0	0.00	33	1.51
26	0	0.00	0	0.00	0	0.00	17	0.88	17	0.88
28	0	0.00	0	0.00	17	1.03	17	1.03	33	2.05
30	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	17	1.34	0	0.00	33	2.68	50	4.02
34	0	0.00	0	0.00	0	0.00	33	3.03	33	3.03
36	0	0.00	0	0.00	0	0.00	50	5.09	50	5.09
38	17	1.89	0	0.00	17	1.89	0	0.00	33	3.78
40	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
42	0	0.00	0	0.00	17	2.31	50	6.93	67	9.24
44	0	0.00	0	0.00	0	0.00	50	7.60	50	7.60
…	…	…	…	…	…	…	…	…	…	…
52	0	0.00	0	0.00	17	3.54	33	7.08	50	10.62
…	…	…	…	…	…	…	…	…	…	…
Total	**217**	**3.05**	**433**	**4.27**	**350**	**12.70**	**600**	**41.75**	**1600**	**61.76**

Chart 5 – 2: Stadigraphs

Stadigraphs	Azara petiolaris		Crataegus monogyna		Maytenus boaria		Quillaja saponaria		**Total**	
	Density (arb/ha)	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**
Standard deviation	**50.0**	**4.2**	**76.4**	**4.3**	**104.1**	**12.0**	**76.4**	**15.4**	**0.0**	**10.9**
Variance	**2500.0**	**17.6**	**5833.3**	**18.8**	**10833.3**	**143.9**	**5833.3**	**237.4**	**0.0**	**118.1**
Coefficient of Variance	**100.0%.**	**137.8%.**	**28.6%.**	**101.6%.**	**32.9%.**	**94.5%.**	**35.3%.**	**36.9%.**	**0.0%.**	**17.6%.**
Expected error	**98.0%.**	**135.1%.**	**28.1%.**	**99.5%.**	**32.2%.**	**92.6%.**	**34.5%.**	**36.2%.**	**0.0%.**	**17.2%.**
Mean	**50.0**	**3.0**	**266.7**	**4.3**	**316.7**	**12.7**	**216.7**	**41.7**	**850.0**	**61.8**

Chart 5 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Maytenus boaria	317	12.70	18.9	8.4
Crataegus monogyna	267	4.27	8.9	7.3
Quillaja saponaria	216	41.75	28.3	13.6
Azara petiolaris	50	3.05	10.0	8.5


RODAL CM - 1
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
20,0
40,0
60,0
80,0
Total
Quillaja saponaria
Maytenus boaria
Crataegus monogyna
Azara petiolaris
0
250
500
750
1000
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY AU - 7 (Aucayes stream)

Chart 6 – 1: Baseline Area and Density, break down as per specie and total.

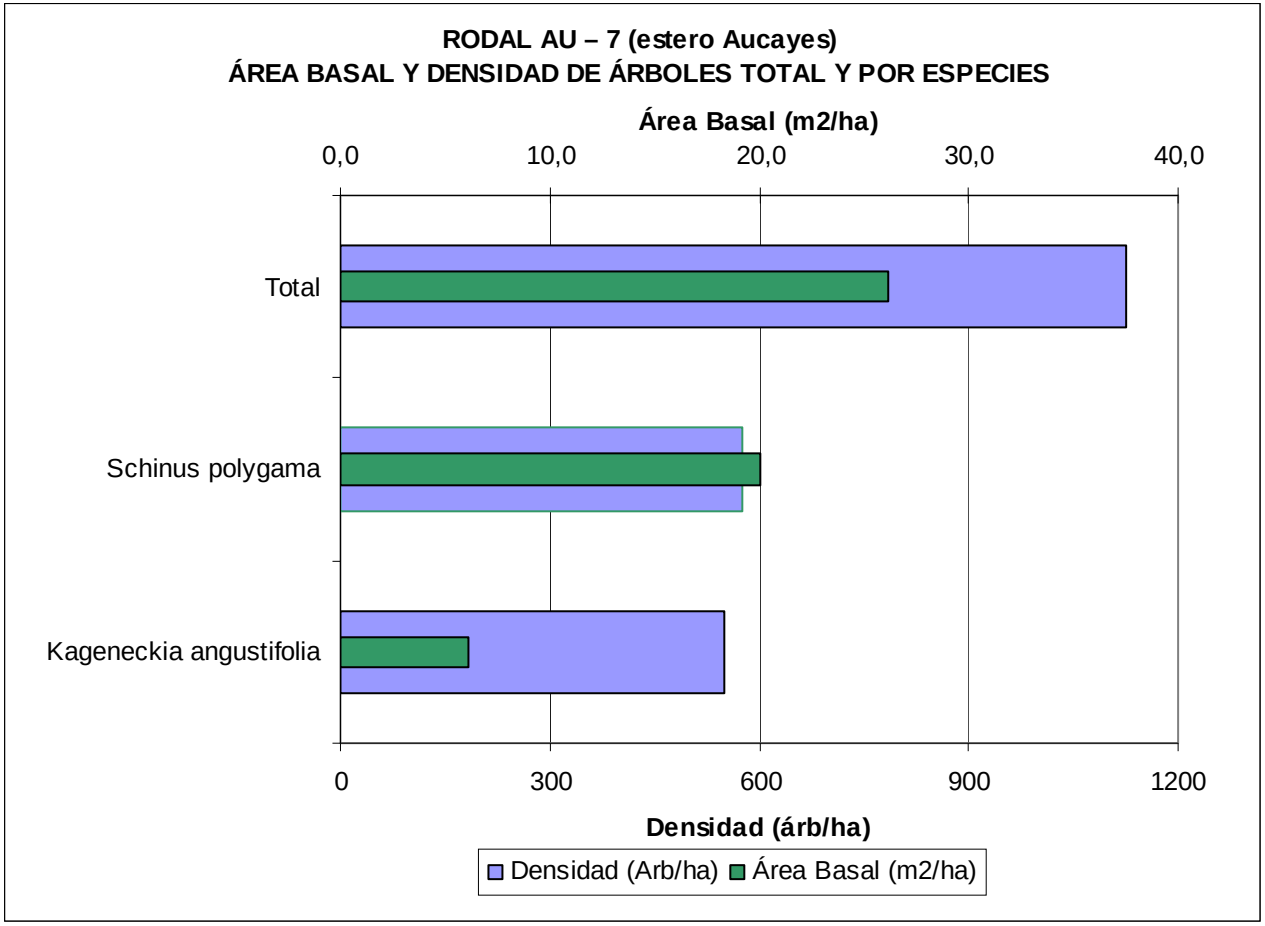
DAP Class	Kageneckia angustifolia		Schinus polygama		Total	
	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
2	0	0.00	100	0.00	100	0.00
4	150	0.19	150	0.19	300	0.38
6	75	0.21	200	0.57	275	0.78
8	200	1.01	125	0.63	325	1.63
10	150	1.18	125	0.98	275	2.16
12	50	0.57	175	1.98	225	2.54
14	25	0.38	100	1.54	125	1.92
16	50	1.01	100	2.01	150	3.02
18	0	0.00	75	1.91	75	1.91
20	50	1.57	100	3.14	150	4.71
22	0	0.00	0	0.00	0	0.00
24	0	0.00	50	2.26	50	2.26
26	0	0.00	0	0.00	0	0.00
28	0	0.00	0	0.00	0	0.00
30	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00
34	0	0.00	25	2.27	25	2.27
36	0	0.00	25	2.54	25	2.54
38	0	0.00	0	0.00	0	0.00
40	0	0.00	0	0.00	0	0.00
Total	**750**	**6.11**	**1350**	**20.02**	**2100**	**26.13**

Chart 6 – 2: Stadigraphs

Stadigraphs	Kageneckia angustifolia		Schinus polygama		TOTAL	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	81.6	0.2	216.0	9.8	285.8	18.6
Variance	6,666.7	0.0	46,666.7	96.2	81,666.7	344.1
Coefficient of Variance	244.9 %.	244.9 %.	22.3 %.	39.8 %.	26.4	61.6
Expected error	240.0	240.0	21.9 %.	39.0 %.	25.9	60.3
Mean	33.3	0.1	966.7	24.7	1,083.3	30.1

Chart 6 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Schinus polygama	575	20.02	5.4	1.6
Kageneckia angustifolia	550	6.11	12.3	5.6


RODAL AU – 7 (estero Aucayes)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
10,0
20,0
30,0
40,0
Total
Schinus polygama
Kageneckia angustifolia
0
300
600
900
1200
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY AU - 8 (Aucayes stream)

Chart 7 – 1: Baseline Area and Density, break down as per specie and total.

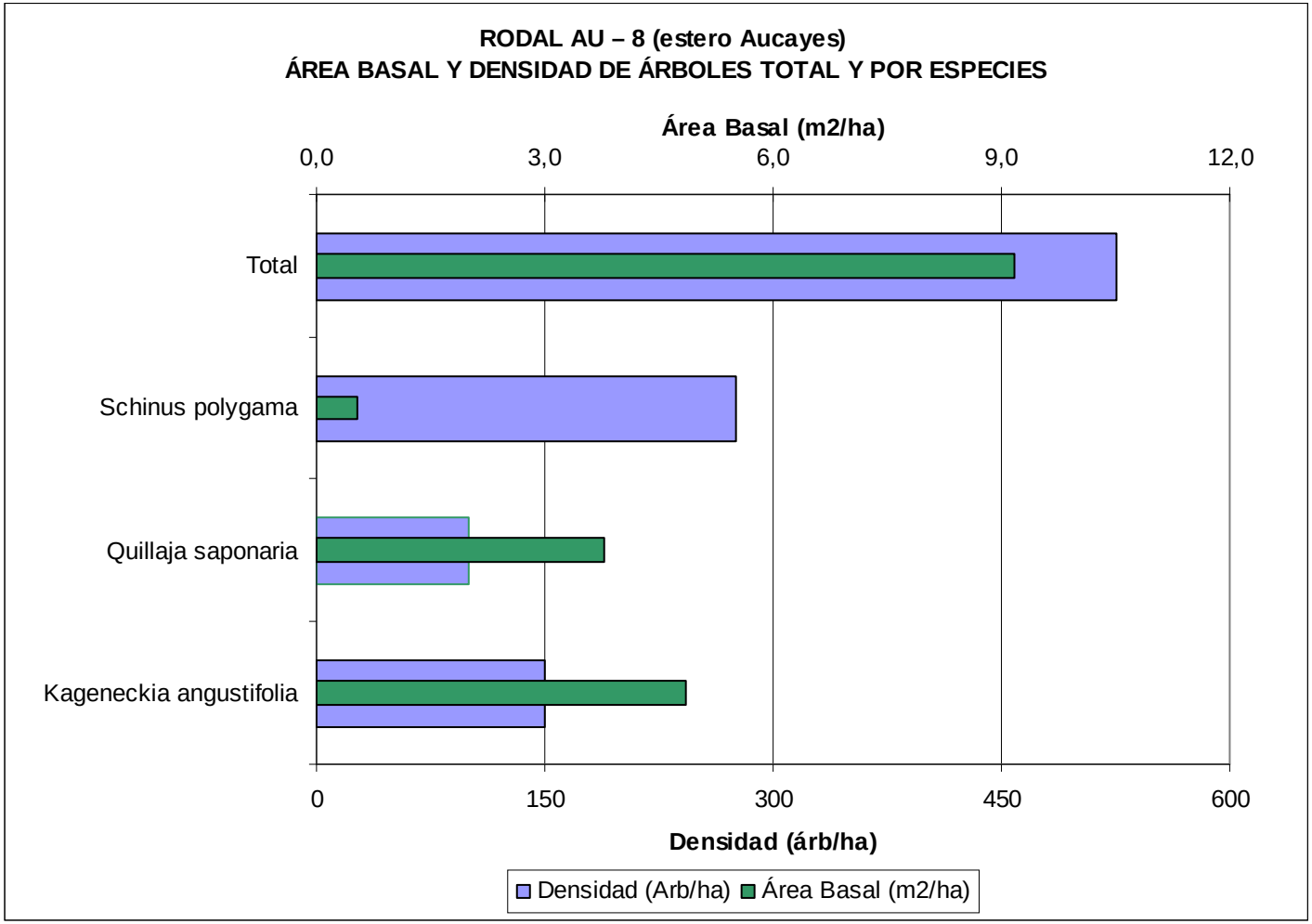
	Kageneckia angustifolia		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
2	0	0.00	0	0.00	200	0.00	200	0.00
4	150	0.19	50	0.06	50	0.06	250	0.31
6	50	0.14	0	0.00	25	0.07	75	0.21
8	75	0.38	25	0.13	25	0.13	125	0.63
10	25	0.20	25	0.20	0	0.00	50	0.39
12	125	1.41	75	0.85	25	0.28	225	2.54
14	50	0.77	50	0.77	0	0.00	100	1.54
16	0	0.00	0	0.00	0	0.00	0	0.00
18	0	0.00	0	0.00	0	0.00	0	0.00
20	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	0	0.00	0	0.00
24	0	0.00	0	0.00	0	0.00	0	0.00
26	0	0.00	0	0.00	0	0.00	0	0.00
28	0	0.00	0	0.00	0	0.00	0	0.00
30	25	1.77	25	1.77	0	0.00	50	3.53
Total	**500**	**4.85**	**250**	**3.77**	**325**	**0.54**	**1075**	**9.17**

Chart 7 – 2: Stadigraphs

Stadigraphs	Kageneckia angustifolia		Quillaja saponaria		Schinus polygama		**Total**	
	Density (arb/ha)	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**
Standard deviation	**0.0**	**2.8**	**0.0**	**3.4**	**35.4**	**0.1**	**35.4**	**0.7**
Variance	**0.0**	**8.0**	**0.0**	**11.9**	**1250.0**	**0.0**	**1250.0**	**0.6**
Coefficient of Variance	**0.0%.**	**58.1%.**	**0.0%.**	**91.3%.**	**12.9%.**	**22.5%.**	**6.7%.**	**8.1%.**
Expected error	**0.0%.**	**57.0%.**	**0.0%.**	**89.5%.**	**12.6%.**	**22.1%.**	**6.6%.**	**8.0%.**
Mean	**150.0**	**4.9**	**100.0**	**3.8**	**275.0**	**0.5**	**525.0**	**9.2**

Chart 7 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Schinus polygama	275	0.54	3.9	0.9
Kageneckia angustifolia	150	4.85	10.4	3.8
Quillaja saponaria	100	3.77	12.6	4.5


RODAL AU – 8 (estero Aucayes)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
3,0
6,0
9,0
12,0
Total
Schinus polygama
Quillaja saponaria
Kageneckia angustifolia
0
150
300
450
600
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY AU - 10 (Aucayes stream)

Chart 8 – 1: Baseline Area and Density, break down as per specie and total.

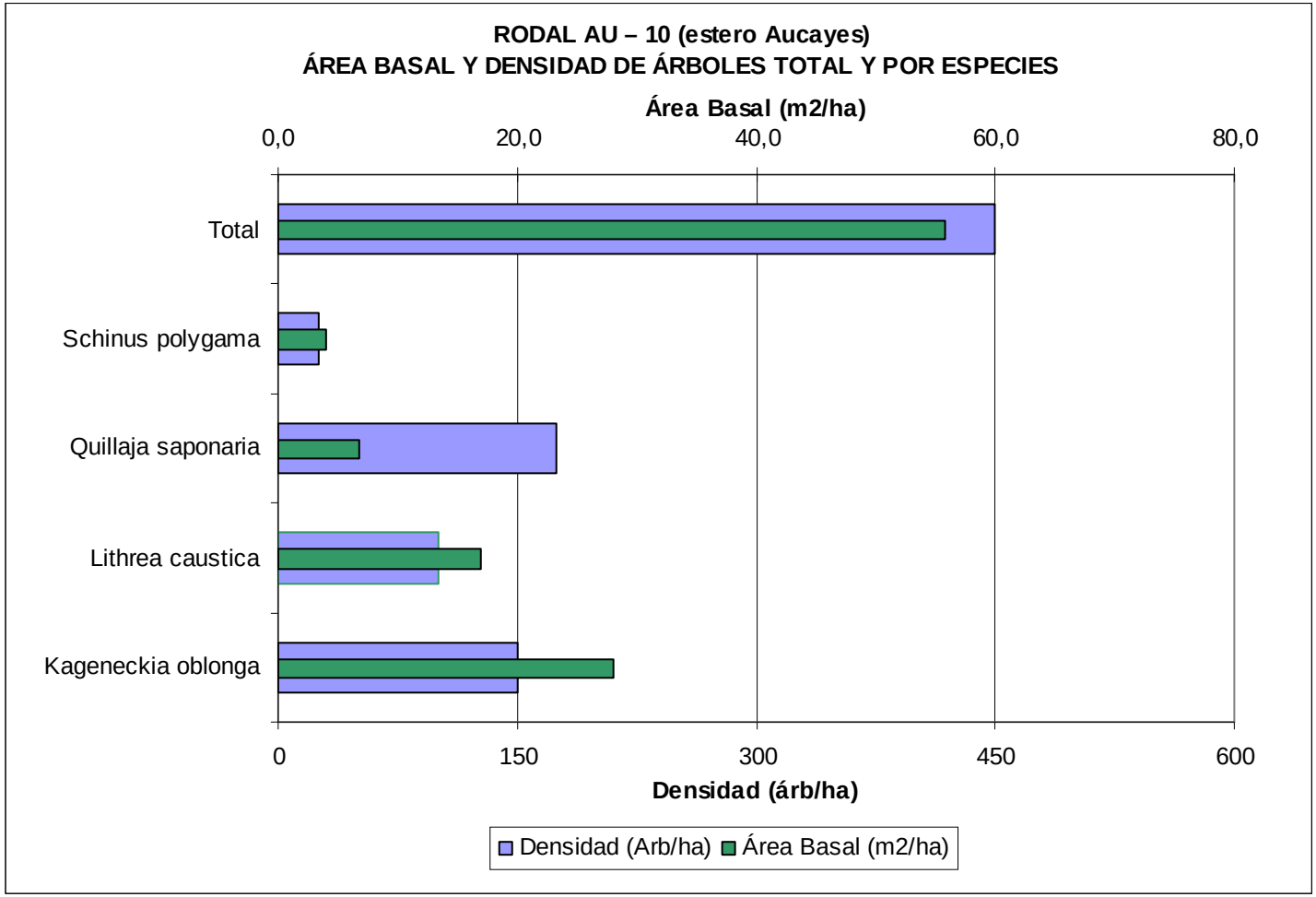
	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
4	1.5	3.00	2.0	3.00	250.0	0.31	0.0	0.00	253.5	6.31
6	0.5	1.00	0.0	0.00	100.0	0.28	0.0	0.00	100.5	1.28
8	9.0	6.00	4.0	3.00	28.0	2.13	3.0	4.00	44.0	15.13
10	0.5	1.00	0.0	0.00	0.0	0.00	0.0	0.00	0.5	1.00
12	0.5	2.00	0.0	0.00	0.0	0.00	0.0	0.00	0.5	2.00
14	2.0	2.00	7.0	8.00	6.0	0.00	0.0	0.00	15.0	10.00
16	0.5	11.00	0.0	0.00	0.0	0.00	0.0	0.00	0.5	11.00
18	2.5	2.00	3.0	3.00	8.0	4.00	0.0	0.00	13.5	9.00
20	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
22	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
24	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
26	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
28	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
30	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Total	**17**	**28.00**	**16**	**17.00**	**392**	**6.72**	**3**	**4.00**	**428**	**55.72**

Chart 8 – 2: Stadigraphs

Stadigraphs	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Schinus polygama		**Total**	
	Density (arb/ha)	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**
Standard deviation	**0.0**	**0.7**	**70.7**	**1.5**	**35.4**	**28.9**	**35.4**	**0.0**	**0.0**	**28.1**
Variance	**0.0**	**0.5**	**5000.0**	**2.3**	**1250.0**	**834.0**	**1250.0**	**0.0**	**0.0**	**789.1**
Coefficient of Variance	**0.0%.**	**71.9%.**	**70.7%.**	**141.4%.**	**20.2%.**	**42.8%.**	**141.4%.**	**141.4%.**	**0.0%.**	**40.4%.**
Expected error	**0.0%.**	**70.4%.**	**69.3%.**	**138.6%.**	**19.8%.**	**41.9%.**	**138.6%.**	**138.6%.**	**0.0%.**	**39.5%.**
Mean	**150.0**	**1.0**	**100.0**	**1.1**	**175.0**	**67.5**	**25.0**	**0.0**	**450.0**	**69.6**

Chart 8 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Quillaja saponaria	175	6.72	11.5	4.8
Kageneckia oblonga	150	28.00	5.2	4.1
Lithrea caustica	100	17.00	7.0	3.8
Schinus polygama	25	4.00	4.0	1.3


RODAL AU – 10 (estero Aucayes)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
20,0
40,0
60,0
80,0
Total
Schinus polygama
Quillaja saponaria
Lithrea caustica
Kageneckia oblonga
0
150
300
450
600
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY AU - 11 (Aucayes stream)

Chart 9 – 1: Baseline Area and Density, break down as per specie and total.

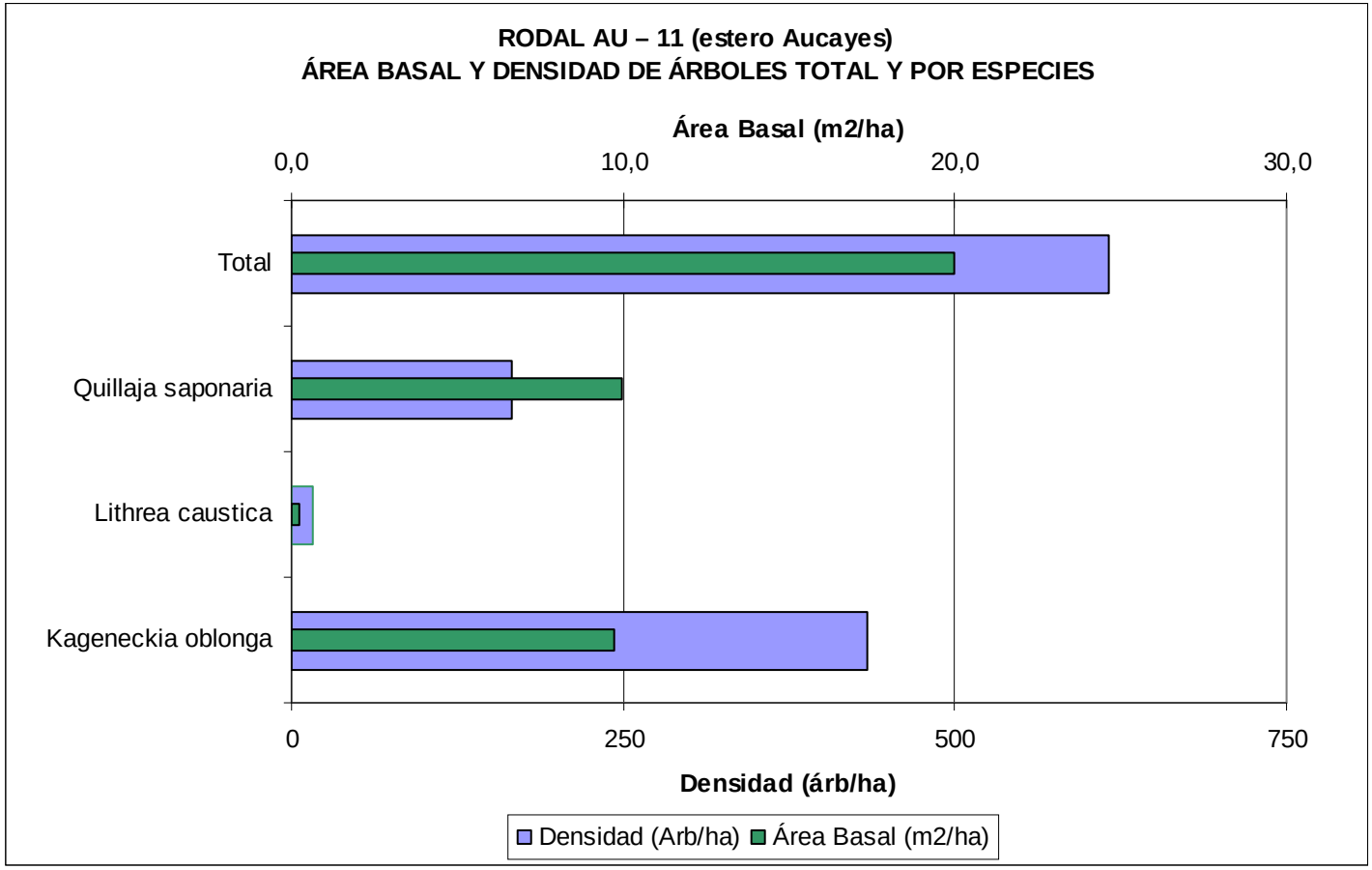
	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
2	33	0.00	0	0.00	0	0.00	33	0.00
4	917	1.15	0	0.00	100	0.13	1017	1.28
6	950	2.69	17	0.05	33	0.09	1000	2.83
8	467	2.35	17	0.08	200	1.01	683	3.43
10	250	1.96	17	0.13	183	1.44	450	3.53
12	117	1.32	0	0.00	133	1.51	250	2.83
14	17	0.26	0	0.00	67	1.03	83	1.28
16	0	0.00	0	0.00	50	1.01	50	1.01
18	0	0.00	0	0.00	33	0.85	33	0.85
20	0	0.00	0	0.00	17	0.52	17	0.52
22	0	0.00	0	0.00	0	0.00	0	0.00
24	0	0.00	0	0.00	33	1.51	33	1.51
26	0	0.00	0	0.00	17	0.88	17	0.88
28	0	0.00	0	0.00	0	0.00	0	0.00
30	0	0.00	0	0.00	0	0.00	0	0.00
Total	**2750**	**9.72**	**50**	**0.26**	**867**	**9.97**	**3667**	**19.95**

Chart 9 – 2: Stadigraphs

Stadigraphs	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**115.5**	**2.2**	**28.9**	**0.5**	**144.3**	**11.0**	**275.4**	**12.4**
Variance	**13333.3**	**4.9**	**833.3**	**0.2**	**20833.3**	**120.0**	**75833.3**	**154.8**
Coefficient of Variance	**26.6%.**	**22.8%.**	**173.2%.**	**173.2%.**	**86.6%.**	**109.9%.**	**44.7%.**	**62.3%.**
Expected error	**26.1%.**	**22.4%.**	**169.7%.**	**169.7%.**	**84.9%.**	**107.7%.**	**43.8%.**	**61.1%.**
Mean	**433.3**	**9.7**	**16.7**	**0.3**	**166.7**	**10.0**	**616.7**	**19.95**

Chart 9 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	433	9.72	8.9	3.3
Quillaja saponaria	167	9.97	5.6	4.0
Lithrea caustica	17	0.26	6.1	2.8


RODAL AU – 11 (estero Aucayes)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
10,0
20,0
30,0
Total
Quillaja saponaria
Lithrea caustica
Kageneckia oblonga
0
250
500
750
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY AU - 14 (Aucayes stream)

Chart 10 – 1: Baseline Area and Density, break down as per specie and total.

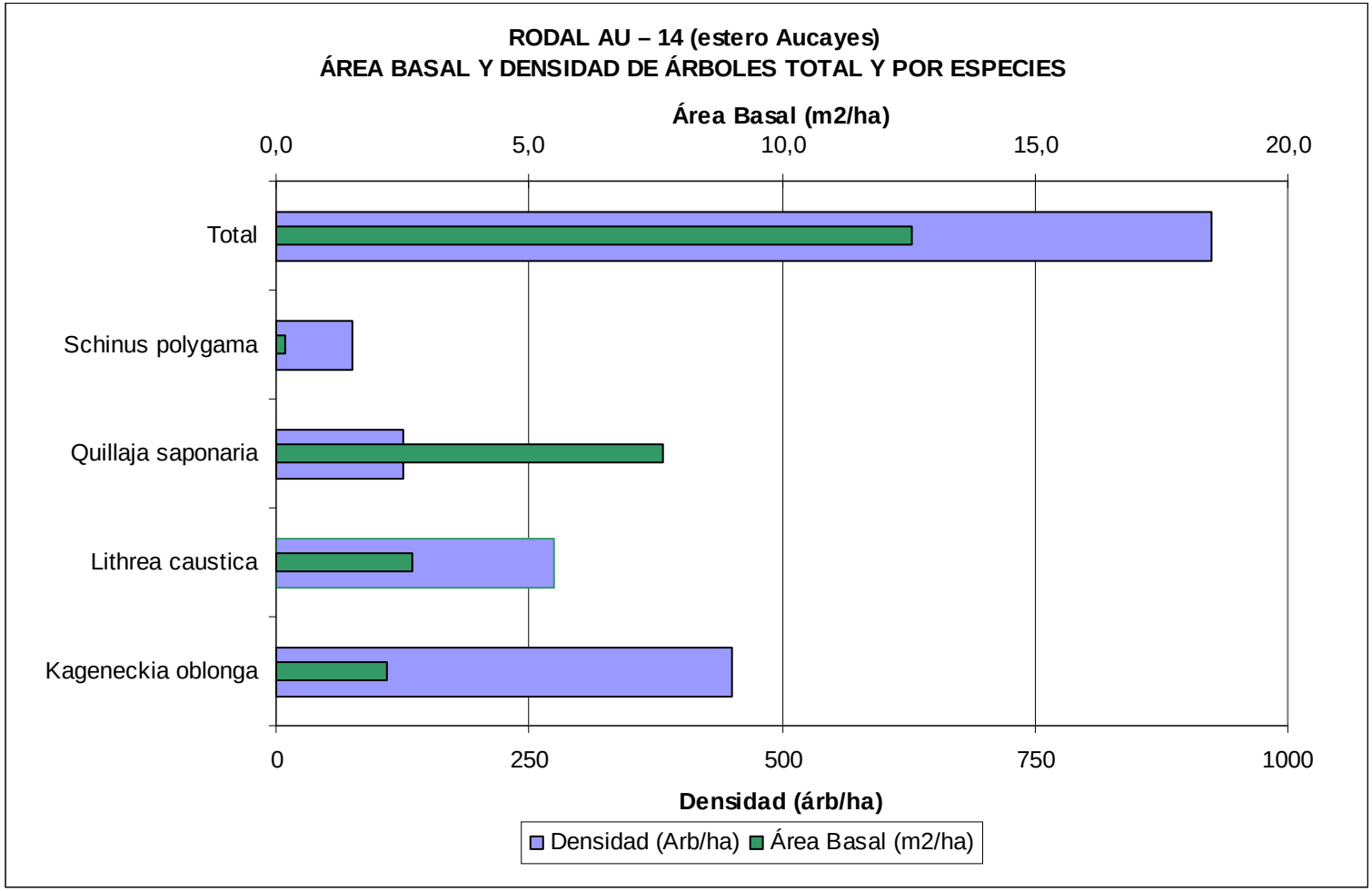
	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
2	75	0.00	50	0.00	0	0.00	12.5	0.00	125	0.00
4	875	1.10	375	0.47	37.5	0.05	37.5	0.05	1287.5	1.62
6	225	0.64	350	0.99	37.5	0.11	25	0.07	612.5	1.73
8	87.5	0.44	125	0.63	37.5	0.19	12.5	0.06	250	1.26
10	0	0.00	25	0.20	0	0.00	0	0.00	25	0.20
12	0	0.00	37.5	0.42	50	0.57	0	0.00	87.5	0.99
14	0	0.00	0	0.00	12.5	0.19	0	0.00	12.5	0.19
16	0	0.00	0	0.00	12.5	0.25	0	0.00	12.5	0.25
18	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
20	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	12.5	0.48	0	0.00	12.5	0.48
24	0	0.00	0	0.00	12.5	0.57	0	0.00	12.5	0.57
26	0	0.00	0	0.00	25	1.33	0	0.00	25	1.33
28	0	0.00	0	0.00	25	1.54	0	0.00	25	1.54
30	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
34	0	0.00	0	0.00	12.5	1.13	0	0.00	12.5	1.13
36	0	0.00	0	0.00	12.5	1.27	0	0.00	12.5	1.27
38	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
40	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total	**1262.5**	**2.18**	**962.5**	**2.71**	**287.5**	**7.67**	**87.5**	**0.18**	**2512.5**	**12.55**

Chart 10 – 2: Stadigraphs

Stadigraphs	Kageneckia oblonga		Lithrea caustica		Quillaja saponaria		Schinus polygama		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**35.4**	**1.1**	**388.9**	**3.8**	**106.1**	**8.2**	**106.1**	**0.3**	**212.1**	**3.5**
Variance	**1250.0**	**1.3**	**151250.0**	**14.7**	**11250.0**	**67.0**	**11250.0**	**0.1**	**45000.0**	**12.0**
Coefficient of Variance	**7.9%.**	**52.6%.**	**141.4%.**	**141.4%.**	**84.9%.**	**106.8%.**	**141.4%.**	**141.4%.**	**22.9%.**	**27.2%.**
Expected error	**7.7%.**	**51.5%.**	**138.6%.**	**138.6%.**	**83.2%.**	**104.7%.**	**138.6%.**	**138.6%.**	**22.5%.**	**26.7%.**
Mean	**450.0**	**2.2**	**275.0**	**2.7**	**125.0**	**7.7**	**75.0**	**0.2**	**925.0**	**12.7**

Chart 10 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	450	2.18	5.3	3.2
Lithrea caustica	275	2.71	4.6	2.9
Quillaja saponaria	125	7.67	11.1	5.7
Schinus polygama	75	0.18	4.9	1.7


RODAL AU – 14 (estero Aucayes)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
5,0
10,0
15,0
20,0
Total
Schinus polygama
Quillaja saponaria
Lithrea caustica
Kageneckia oblonga
0
250
500
750
1000
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CA - 1 (Colorado river)

Chart 11 – 1: Baseline Area and Density, break down as per specie and total.

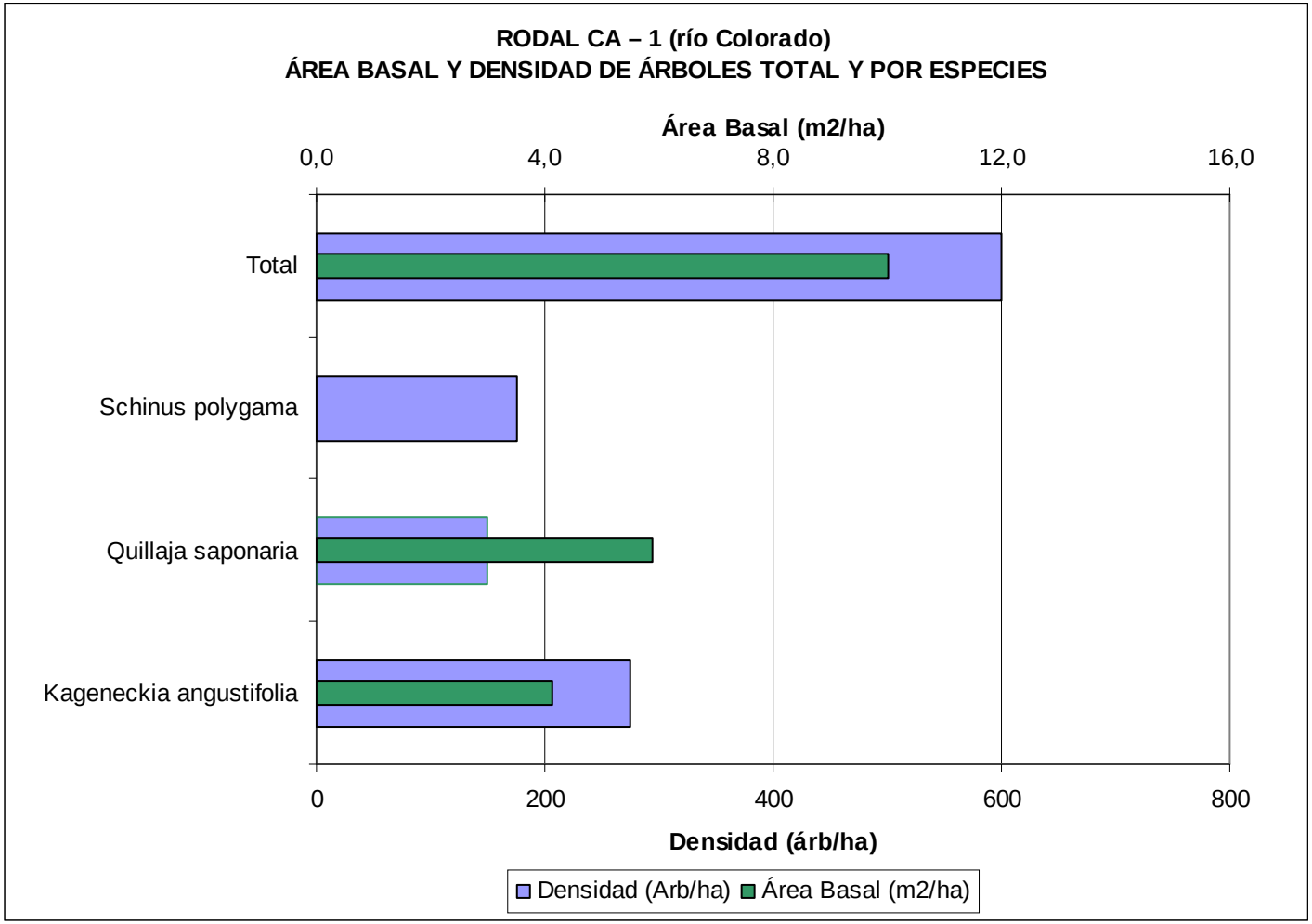
	Kageneckia angustifolia		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
2	0	0.00	0	0.00	175	0.00	175	0.00
4	25	0.03	50	0.06	0	0.00	75	0.09
6	175	0.49	25	0.07	0	0.00	200	0.57
8	50	0.25	0	0.00	0	0.00	50	0.25
10	50	0.39	50	0.39	0	0.00	100	0.79
12	75	0.85	25	0.28	0	0.00	100	1.13
14	75	1.15	50	0.77	0	0.00	125	1.92
16	0	0.00	25	0.50	0	0.00	25	0.50
18	0	0.00	0	0.00	0	0.00	0	0.00
20	0	0.00	0	0.00	0	0.00	0	0.00
22	25	0.95	25	0.95	0	0.00	50	1.90
24	0	0.00	0	0.00	0	0.00	0	0.00
26	0	0.00	25	1.33	0	0.00	25	1.33
28	0	0.00	25	1.54	0	0.00	25	1.54
30	0	0.00	0	0.00	0	0.00	0	0.00
Total	**475**	**4.12**	**300**	**5.90**	**175**	**0.00**	**950**	**10.02**

Chart 11 – 2: Stadigraphs

Stadigraphs	Kageneckia oblonga		Quillaja saponaria		Schinus polygama		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	**35.4**	**0.7**	**0.0**	**3.0**	**35.4**	**0.0**	**0.0**	**17.1**
Variance	**1250.0**	**0.6**	**0.0**	**9.1**	**1250.0**	**0.0**	**0.0**	**294.1**
Coefficient of Variance	**12.9%.**	**18.0%.**	**0.0%.**	**51.0%.**	**20.2%.**	**-**	**0.0%.**	**114.0%.**
Expected error	**12.6%.**	**17.7%.**	**0.0%.**	**50.0%.**	**19.8%.**	**-**	**0.0%.**	**111.7%.**
Mean	**275.0**	**4.1**	**150.0**	**5.9**	**175.0**	**0.0**	**600.0**	**15.0**

Chart 11 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	275	4.12	9.7	3.5
Quillaja saponaria	150	5.90	2.0	1.7
Schinus polygama	175	0	14.5	4.8


RODAL CA – 1 (río Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
4,0
8,0
12,0
16,0
Total
Schinus polygama
Quillaja saponaria
Kageneckia angustifolia
0
200
400
600
800
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CA - 4A (Colorado river)

Chart 12 – 1: Baseline Area and Density, break down as per specie and total.

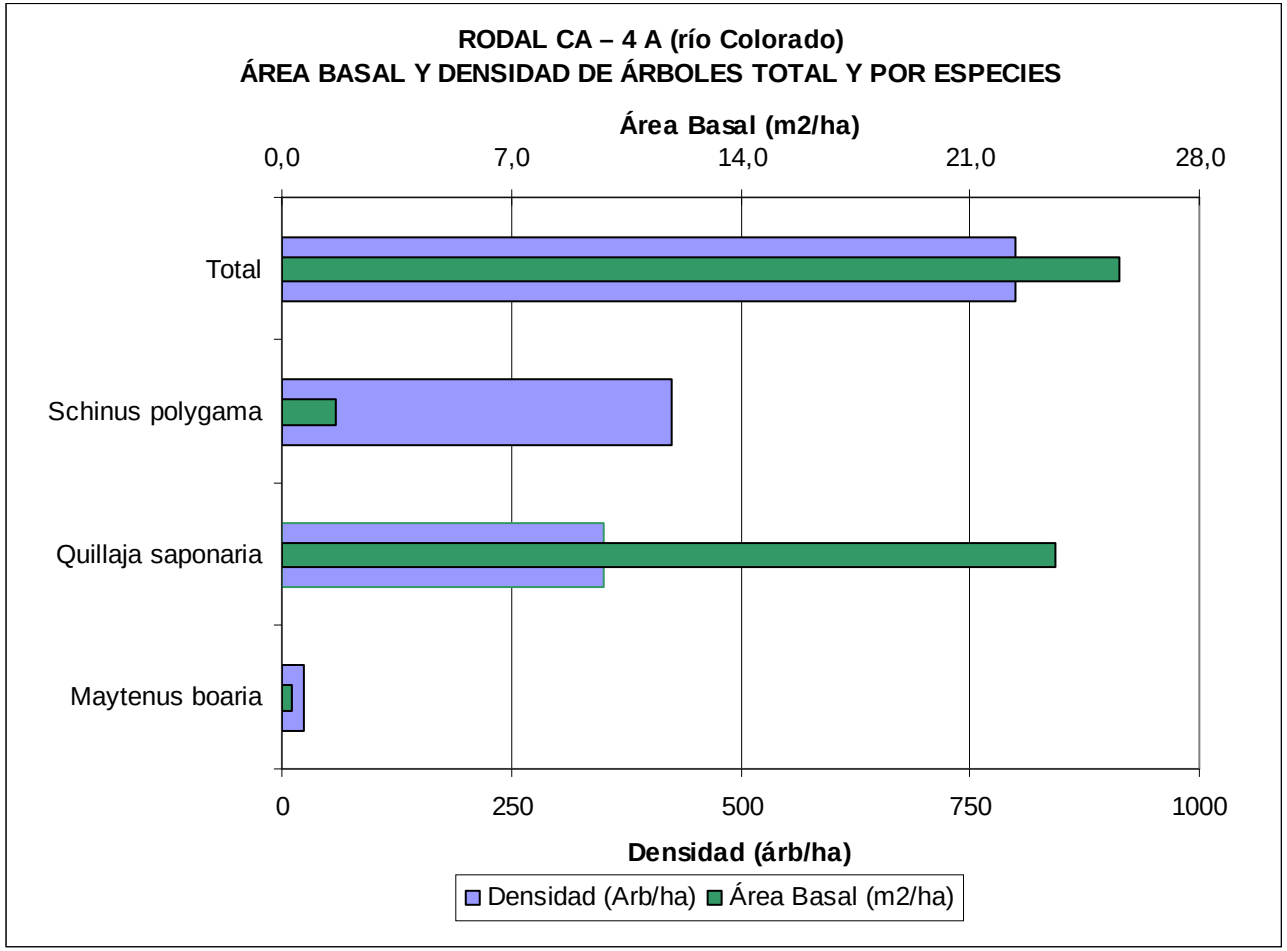
	Maytenus boaria		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area	Frequency	Baseline Area
	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)	(reb/ha)	(m2/ha)
2	0	0.00	0	0.00	150	0.00	150	0.00
4	0	0.00	50	0.06	125	0.16	175	0.22
6	0	0.00	75	0.21	150	0.42	225	0.64
8	0	0.00	125	0.63	100	0.50	225	1.13
10	0	0.00	50	0.39	75	0.59	125	0.98
12	25	0.28	125	1.41	0	0.00	150	1.70
14	0	0.00	50	0.77	0	0.00	50	0.77
16	0	0.00	50	1.01	0	0.00	50	1.01
18	0	0.00	75	1.91	0	0.00	75	1.91
20	0	0.00	75	2.36	0	0.00	75	2.36
22	0	0.00	50	1.90	0	0.00	50	1.90
24	0	0.00	50	2.26	0	0.00	50	2.26
26	0	0.00	125	6.64	0	0.00	125	6.64
28	0	0.00	25	1.54	0	0.00	25	1.54
30	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00	0	0.00
34	0	0.00	0	0.00	0	0.00	0	0.00
36	0	0.00	25	2.54	0	0.00	25	2.54
38	0	0.00	0	0.00	0	0.00	0	0.00
40	0	0.00	0	0.00	0	0.00	0	0.00
Total	**25**	**0.28**	**950**	**23.63**	**600**	**1.67**	**1575**	**25.59**

Chart 12 – 2: Stadigraphs

Stadigraphs	Maytenus boaria		Quillaja saponaria		Schinus polygama		**Total**	
	Density (arb/ha)	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**
Standard deviation	**35.4**	**0.4**	**0.0**	**10.2**	**35.4**	**0.2**	**0.0**	**10.4**
Variance	**1250.0**	**0.2**	**0.0**	**103.7**	**1250.0**	**0.1**	**0.0**	**107.2**
Coefficient of Variance	**141.4%.**	**141.4%.**	**0.0%.**	**43.1%.**	**8.3%.**	**13.9%.**	**0.0%.**	**40.5%.**
Expected error	**138.6%.**	**138.6%.**	**0.0%.**	**42.2%.**	**8.2%.**	**13.7%.**	**0.0%.**	**39.6%.**
Mean	**25.0**	**0.3**	**350.0**	**23.6**	**425.0**	**1.7**	**800.0**	**25.6**

Chart 12 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Schinus polygama	425	1.67	5.6	1.8
Quillaja saponaria	350	23.63	16.2	6.8
Maytenus boaria	25	0.28	13.0	5.0


RODAL CA – 4 A (río Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
7,0
14,0
21,0
28,0
Total
Schinus polygama
Quillaja saponaria
Maytenus boaria
0
250
500
750
1000
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY CA - 4B (Colorado river)

Chart 13 – 1: Baseline Area and Density, break down as per specie and total.

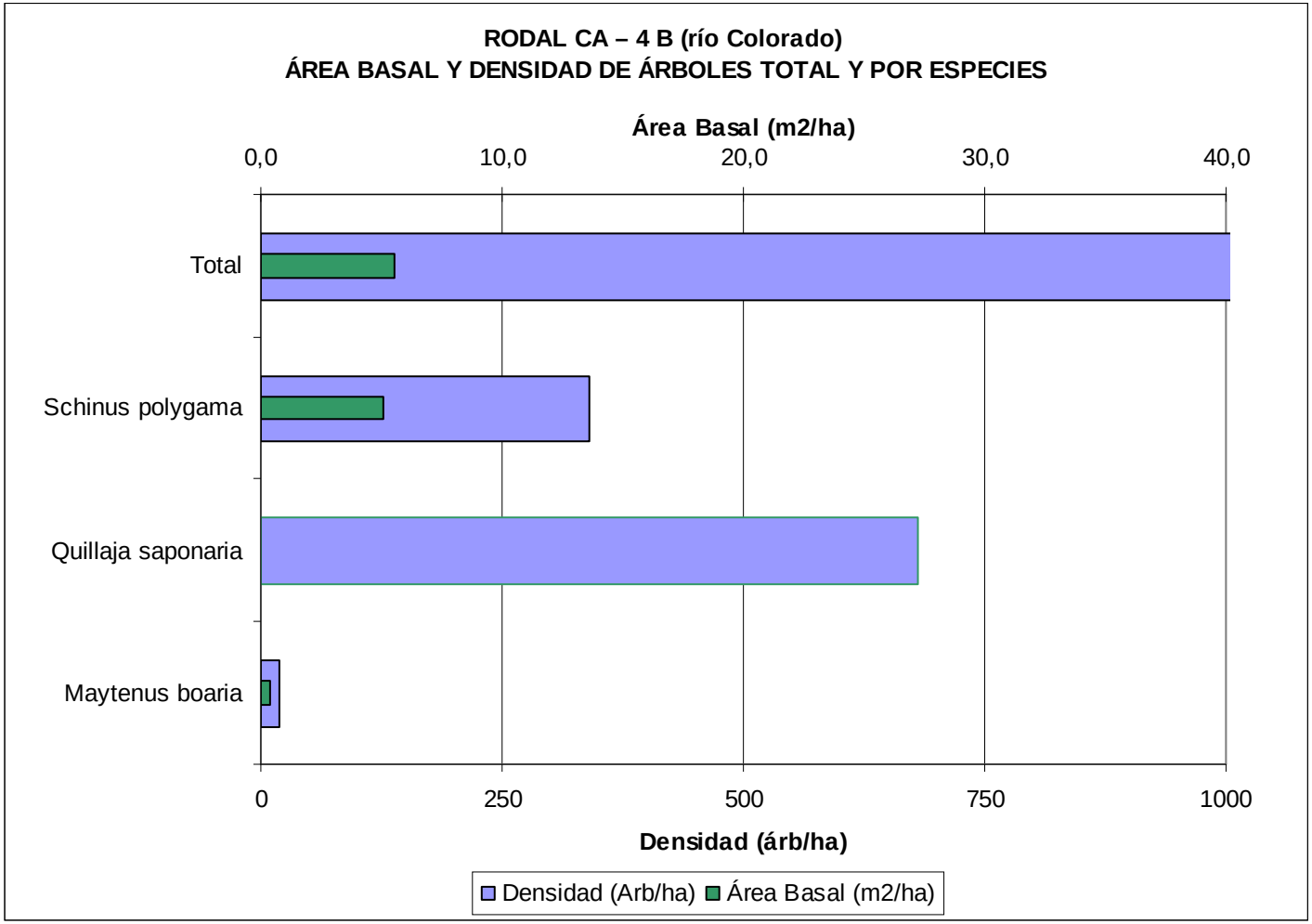
	Maytenus boaria		Quillaja saponaria		Schinus polygama		Total	
DAP Class	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
2	10	0.00	0	0.00	0	0.00	10	0.00
4	150	0.19	5	0.01	380	0.48	535	0.67
6	50	0.14	20	0.06	440	1.24	510	1.44
8	5	0.03	5	0.03	380	1.91	390	1.96
10	0	0.00	0	0.00	20	0.16	20	0.16
12	0	0.00	0	0.00	40	0.45	40	0.45
14	0	0.00	0	0.00	20	0.31	20	0.31
16	0	0.00	0	0.00	0	0.00	0	0.00
18	0	0.00	0	0.00	20	0.51	20	0.51
20	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	0	0.00	0	0.00
24	0	0.00	0	0.00	0	0.00	0	0.00
26	0	0.00	0	0.00	0	0.00	0	0.00
28	0	0.00	0	0.00	0	0.00	0	0.00
30	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00	0	0.00
34	0	0.00	0	0.00	0	0.00	0	0.00
36	0	0.00	0	0.00	0	0.00	0	0.00
38	0	0.00	0	0.00	0	0.00	0	0.00
40	0	0.00	0	0.00	0	0.00	0	0.00
42	0	0.00	0	0.00	0	0.00	0	0.00
44	0	0.00	0	0.00	0	0.00	0	0.00
46	0	0.00	0	0.00	0	0.00	0	0.00
48	0	0.00	0	0.00	0	0.00	0	0.00
50	0	0.00	0	0.00	0	0.00	0	0.00
Total	**215**	**0.35**	**30**	**0.09**	**1300**	**5.06**	**1545**	**5.50**

Chart 13 – 2: Stadigraphs

Stadigraphs	Maytenus boaria		Quillaja saponaria		Schinus polygama		**Total**	
	Density (arb/ha)	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**	**Density (arb/ha)**	**Baseline Area (m²/ha)**
Standard deviation	**27.4**	**1.6**	**228.0**	**11.6**	**124.5**	**1.2**	**204.3**	**11.6**
Variance	**750.0**	**2.5**	**52000.0**	**135.1**	**15500.0**	**1.5**	**41750.0**	**134.9**
Coefficient of Variance	**136.9%.**	**218.8%.**	**33.5%.**	**36.9%.**	**36.6%.**	**119.7%.**	**19.6%.**	**34.9%.**
Expected error	**134.2%.**	**214.4%.**	**32.9%.**	**36.1%.**	**35.9%.**	**117.3%.**	**19.3%.**	**34.2%.**
Mean	**20.0**	**0.7**	**680.0**	**31.5**	**340.0**	**1.0**	**1040.0**	**33.28**

Chart 13 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Maytenus boaria	20	0.35	13.8	8.1
Quillaja saponaria	680	0.09	3.8	1.6
Schinus polygama	340	5.06	3.0	2.0


RODAL CA – 4 B (río Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
10,0
20,0
30,0
40,0
Total
Schinus polygama
Quillaja saponaria
Maytenus boaria
0
250
500
750
1000
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY LP - 1 (Colorado river)

Chart 14 – 1: Baseline Area and Density, break down as per specie and total.

	Kageneckia oblonga		***Lithrea caustica***		***Maytenus boaria***		***Quillaja saponaria***		**Total**	
DAP Class	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**
	(reb/ha)	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**
4	200	0.25	113	0.14	0	0.00	0	0.00	313	0.39
6	50	0.14	163	0.46	0	0.00	13	0.04	225	0.64
8	0	0.00	75	0.38	0	0.00	13	0.06	88	0.44
10	0	0.00	13	0.10	0	0.00	0	0.00	13	0.10
12	0	0.00	13	0.14	13	0.14	0	0.00	25	0.28
14	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
16	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
18	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
20	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	0	0.00	13	0.48	13	0.48
24	0	0.00	0	0.00	0	0.00	13	0.57	13	0.57
26	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
28	0	0.00	0	0.00	0	0.00	13	0.77	13	0.77
30	0	0.00	0	0.00	0	0.00	13	0.88	13	0.88
…	…	…	…	…	…	…	…	…	…	…
44	0	0.00	0	0.00	0	0.00	13	1.90	13	1.90
46	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
48	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
52	0	0.00	0	0.00	0	0.00	13	2.65	13	2.65
54	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
56	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
58	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
60	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Total	**250**	**0.39**	**375**	**1.22**	**13**	**0.14**	**100**	**7.35**	**738**	**9.10**

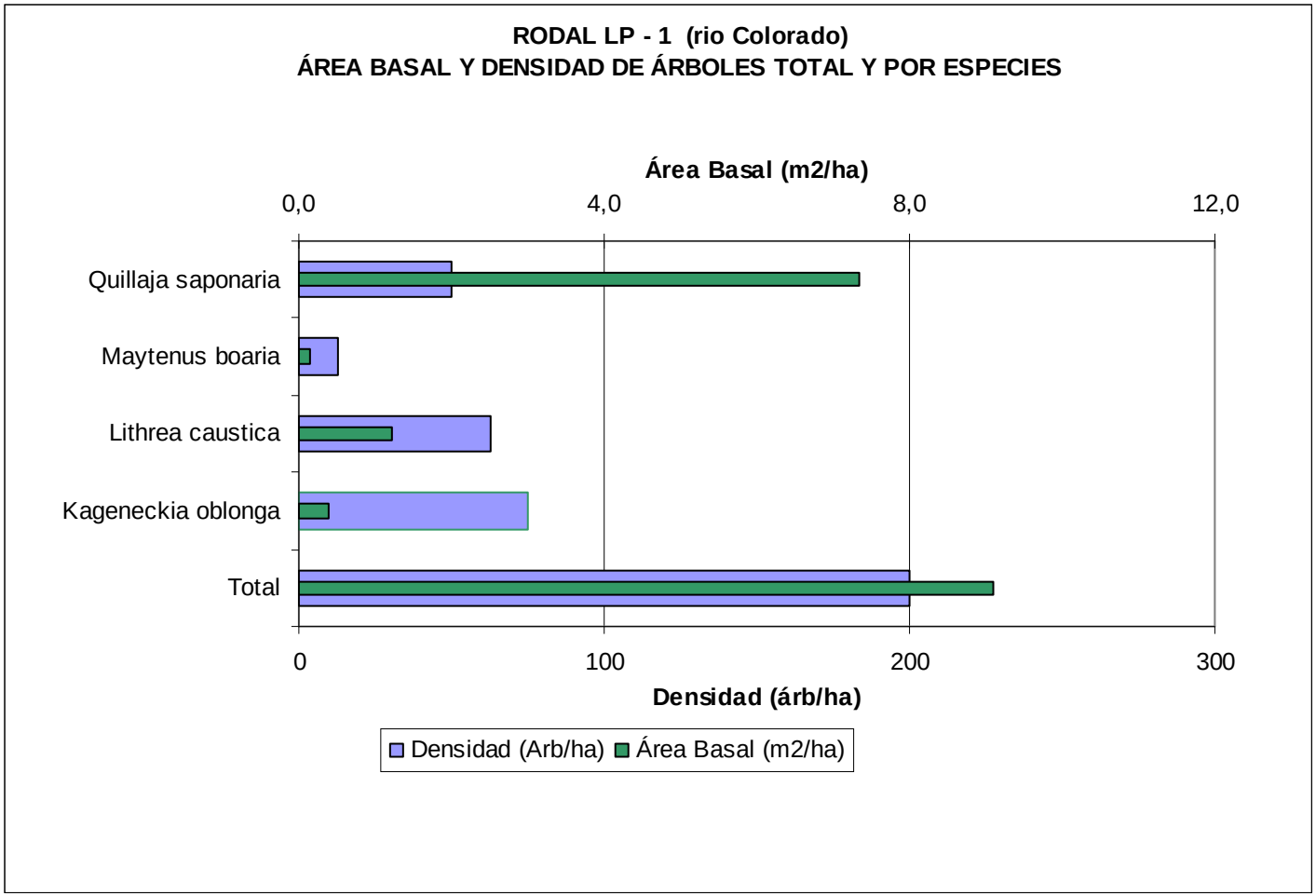
Chart 14 – 2: Stadigraphs

Stadigraphs	*Kageneckia oblonga*		*Lithrea caustica*		*Maytenus boaria*	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	0.0	0.1	17.7	1.0	17.7	0.2
Variance	0.0	0.0	312.5	1.0	312.5	0.0
Coefficient of Variance	0.0%.	14.1%.	28.3%.	80.3%.	141.4%.	141.4%.
Expected error	0.0%.	13.9%.	27.7%.	78.7%.	138.6%.	138.6%.
Mean	75.0	0.4	62.5	1.2	12.5	0.1

Stadigraphs	*Quillaja saponaria*		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	0.0	2.1	0.0	2.9
Variance	0.0	4.3	0.0	8.4
Coefficient of Variance	0.0%.	28.2%.	0.0%.	31.9%.
Expected error	0.0%.	27.6%.	0.0%.	31.3%.
Mean	50.0	7.3	200.0	9.1

Chart 14 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	75	0.39	4.6	3.8
Lithrea caustica	63	1.22	5.9	4.9
Quillaja saponaria	50	7.35	27.7	7.8
Maytenus boaria	12	0.14	12.0	5.0


RODAL LP - 1 (rio Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
4,0
8,0
12,0
Quillaja saponaria
Maytenus boaria
Lithrea caustica
Kageneckia oblonga
Total
0
100
200
300
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY LP - 4 (Colorado river)

Chart 15 – 1: Baseline Area and Density, break down as per specie and total.

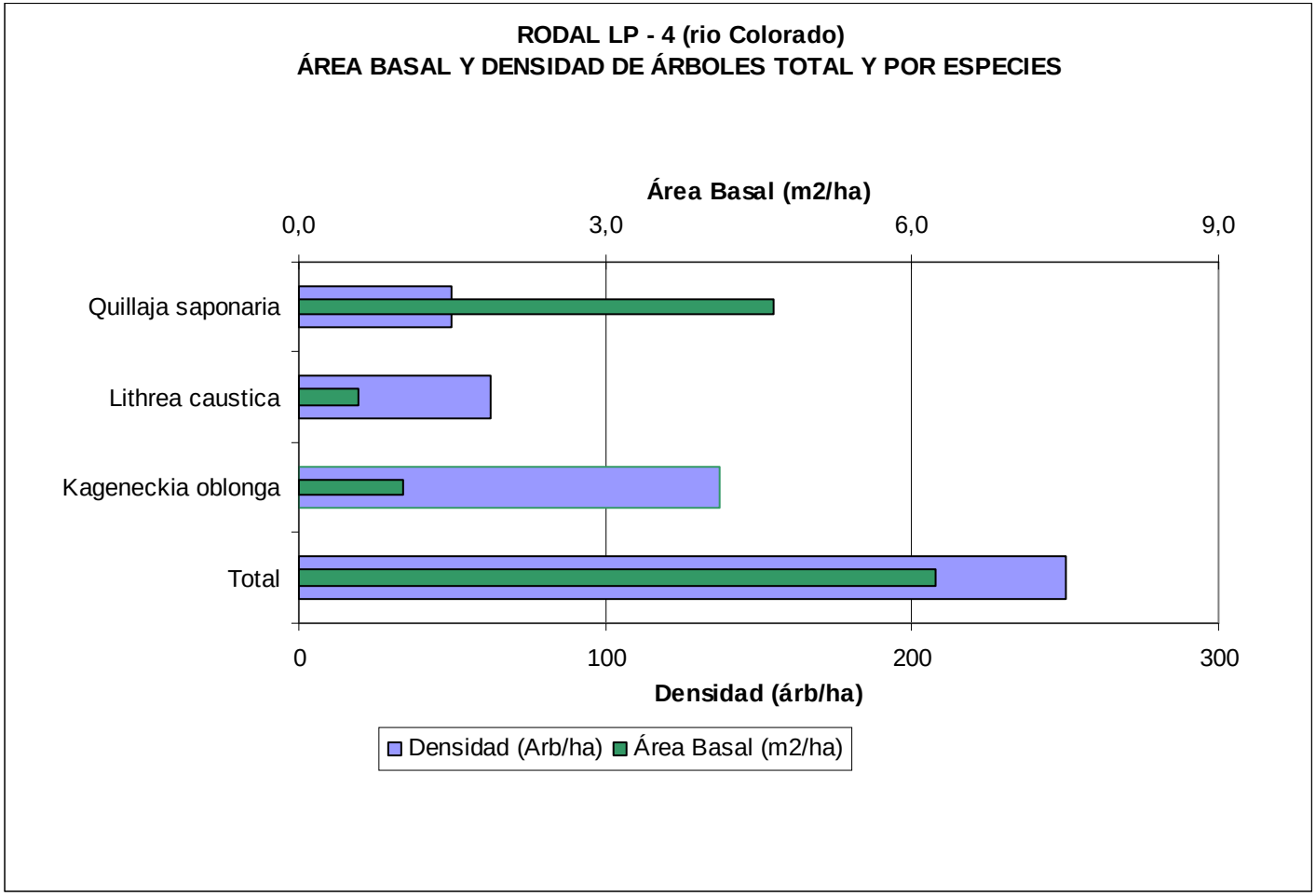
	Kageneckia oblonga		***Lithrea caustica***		***Quillaja saponaria***		**Total**	
DAP Class	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**
	(reb/ha)	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**
4	263	0.33	75	0.09	0	0.00	338	0.42
6	125	0.35	100	0.28	38	0.11	263	0.74
8	38	0.19	13	0.06	0	0.00	50	0.25
10	0	0.00	0	0.00	0	0.00	0	0.00
12	13	0.14	13	0.14	13	0.14	38	0.42
14	0	0.00	0	0.00	0	0.00	0	0.00
16	0	0.00	0	0.00	0	0.00	0	0.00
18	0	0.00	0	0.00	13	0.32	13	0.32
20	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	13	0.48	13	0.48
24	0	0.00	0	0.00	13	0.57	13	0.57
26	0	0.00	0	0.00	0	0.00	0	0.00
28	0	0.00	0	0.00	0	0.00	0	0.00
30	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	0	0.00	0	0.00
34	0	0.00	0	0.00	13	1.13	13	1.13
36	0	0.00	0	0.00	0	0.00	0	0.00
38	0	0.00	0	0.00	0	0.00	0	0.00
40	0	0.00	0	0.00	0	0.00	0	0.00
42	0	0.00	0	0.00	0	0.00	0	0.00
44	0	0.00	0	0.00	13	1.90	13	1.90
46	0	0.00	0	0.00	0	0.00	0	0.00
48	0	0.00	0	0.00	0	0.00	0	0.00
50	0	0.00	0	0.00	0	0.00	0	0.00
Total	**438**	**1.01**	**200**	**0.58**	**113**	**4.64**	**750**	**6.24**

Chart 15 – 2: Stadigraphs

Stadigraphs	*Kageneckia oblonga*		*Lithrea caustica*		*Quillaja saponaria*		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	17.7	0.3	53.0	0.3	35.4	0.4	0.0	1.1
Variance	312.5	0.1	2812.5	0.1	1250.0	0.2	0.0	1.1
Coefficient of Variance	12.9%.	31.8%.	84.9%.	55.4%.	70.7%.	8.9%.	0.0%.	16.9%.
Expected error	12.6%.	31.2%.	83.2%.	54.3%.	69.3%.	8.7%.	0.0%.	16.6%.
Mean	137.5	1.0	62.5	0.6	50.0	4.6	250.0	6.2

Chart 15 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	138	1.01	**5.4**	**3.5**
Lithrea caustica	63	0.58	**7.3**	**4.2**
Quillaja saponaria	50	4.64	**25.1**	**7.0**


RODAL LP - 4 (rio Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
3,0
6,0
9,0
Quillaja saponaria
Lithrea caustica
Kageneckia oblonga
Total
0
100
200
300
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)

PATCH SUMMARY LP - 5 (Colorado river)

Chart 16 – 1: Baseline Area and Density, break down as per specie and total.

	Kageneckia oblonga		*Lithrea caustica*		*Quillaja saponaria*		Total	
DAP Class	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)	Frequency (reb/ha)	Baseline Area (m2/ha)
4	675	0.85	225	0.28	0	0.00	900	1.13
6	275	0.78	275	0.78	38	0.11	588	1.66
8	75	0.38	63	0.31	38	0.19	175	0.88
10	0	0.00	0	0.00	0	0.00	0	0.00
12	0	0.00	13	0.14	113	1.27	125	1.41
14	0	0.00	0	0.00	0	0.00	0	0.00
16	0	0.00	0	0.00	38	0.75	38	0.75
18	0	0.00	0	0.00	50	1.27	50	1.27
20	0	0.00	0	0.00	0	0.00	0	0.00
22	0	0.00	0	0.00	75	2.85	75	2.85
24	0	0.00	0	0.00	13	0.57	13	0.57
26	0	0.00	0	0.00	50	2.65	50	2.65
28	0	0.00	0	0.00	63	3.85	63	3.85
30	0	0.00	0	0.00	0	0.00	0	0.00
32	0	0.00	0	0.00	38	3.02	38	3.02
34	0	0.00	0	0.00	25	2.27	25	2.27
36	0	0.00	0	0.00	13	1.27	13	1.27
…	…	…	…	…	…	…	…	…
42	0	0.00	0	0.00	13	1.73	13	1.73
44	0	0.00	0	0.00	13	1.90	13	1.90
46	0	0.00	0	0.00	0	0.00	0	0.00
48	0	0.00	0	0.00	25	4.52	25	4.52
…	…	…	…	…	…	…	…	…
56	0	0.00	0	0.00	13	3.08	13	3.08
58	0	0.00	0	0.00	0	0.00	0	0.00
60	0	0.00	0	0.00	0	0.00	0	0.00

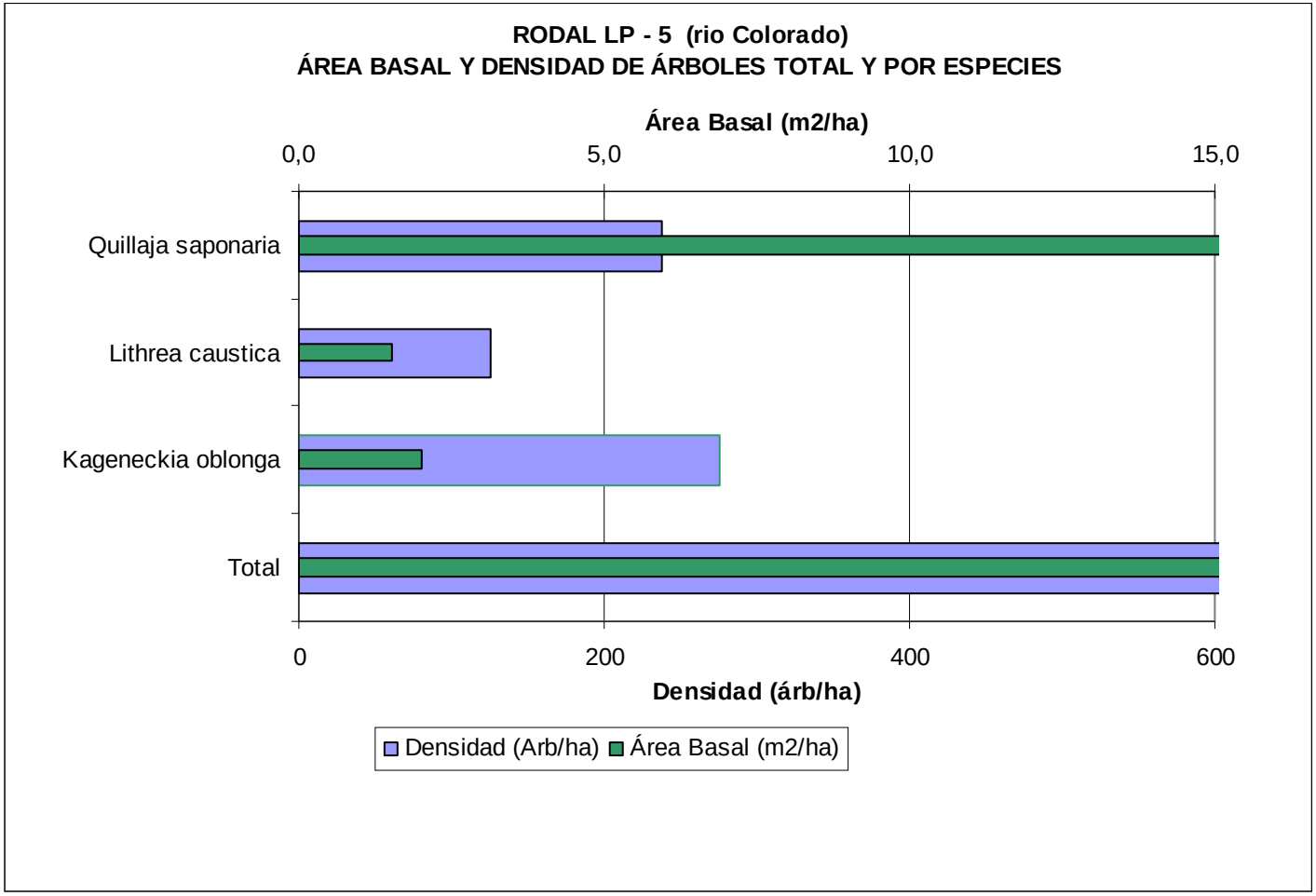
	Kageneckia oblonga		*Lithrea caustica*		*Quillaja saponaria*		Total	
DAP Class	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**	**Frequency**	**Baseline Area**
	(reb/ha)	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**	**(reb/ha)**	**(m2/ha)**
62	0	0.00	0	0.00	0	0.00	0	0.00
64	0	0.00	0	0.00	13	4.02	13	4.02
66	0	0.00	0	0.00	0	0.00	0	0.00
68	0	0.00	0	0.00	0	0.00	0	0.00
70	0	0.00	0	0.00	0	0.00	0	0.00
Total	**1025**	**2.00**	**575**	**1.52**	**625**	**35.33**	**2225**	**38.85**

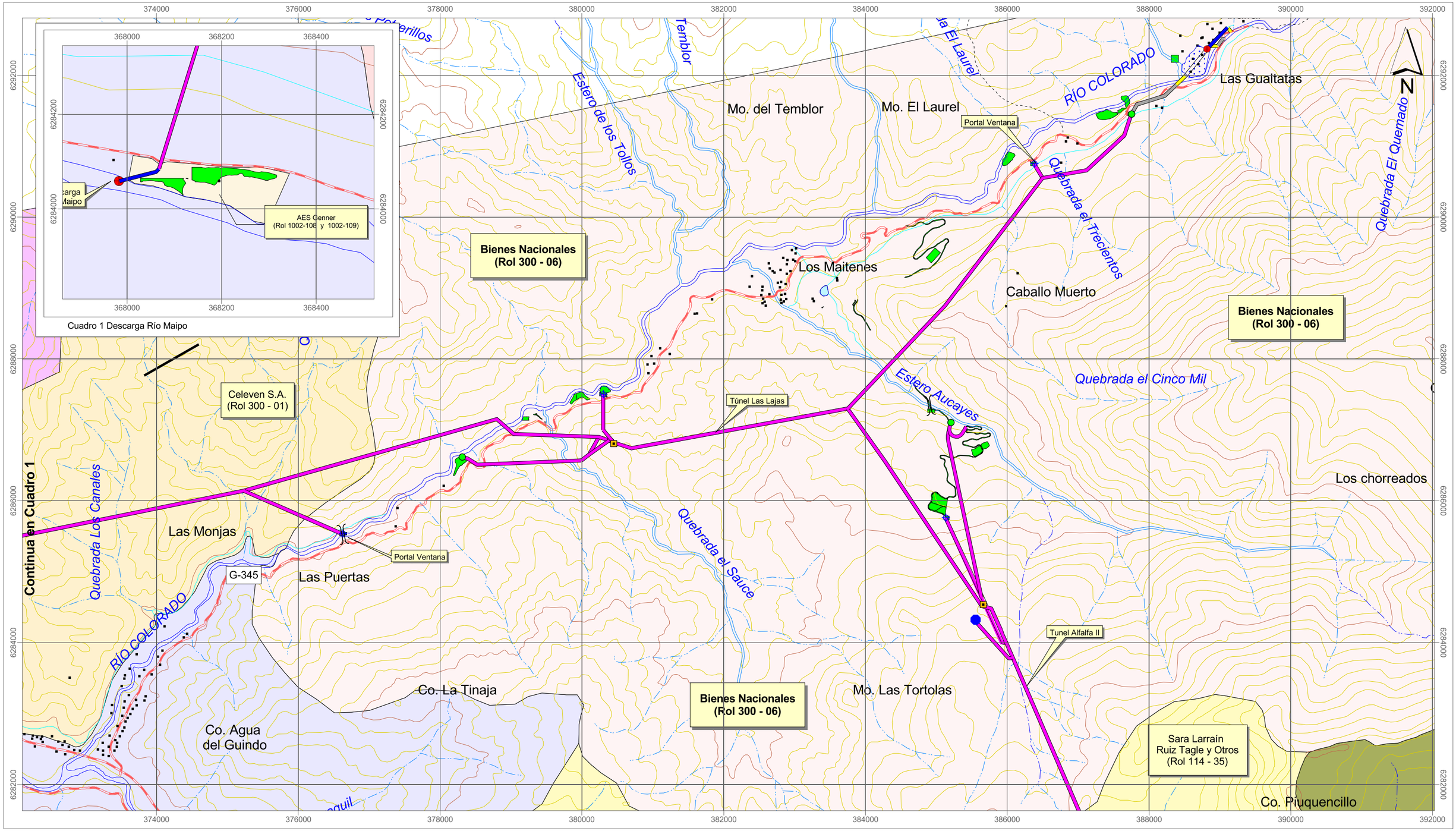
Chart 16 – 2: Stadigraphs

Stadigraphs	*Kageneckia oblonga*		*Lithrea caustica*		*Quillaja saponaria*		Total	
	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)	Density (arb/ha)	Baseline Area (m²/ha)
Standard deviation	35.4	0.3	35.4	0.2	17.7	5.0	17.7	5.2
Variance	1250.0	0.1	1250.0	0.0	312.5	25.4	312.5	27.0
Coefficient of Variance	12.9%.	17.2%.	28.3%.	12.5%.	7.4%.	14.3%.	2.8%.	13.4%.
Expected error	12.6%.	16.8%.	27.7%.	12.2%.	7.3%.	14.0%.	2.7%.	13.1%.
Mean	275.0	2.0	125.0	1.5	237.5	35.3	637.5	38.8

Chart 16 – 3: Dasometric variables summary.

Species	Density (arb/ha)	Baseline Area (m²/ha)	Mean Dap (cm)	Mean Height (m)
Kageneckia oblonga	275	2.00	**5.1**	**3.2**
Quillaja saponaria	238	35.33	**23.6**	**8.8**
Lithrea caustica	125	1.52	**5.7**	**3.3**


RODAL LP - 5 (rio Colorado)
ÁREA BASAL Y DENSIDAD DE ÁRBOLES TOTAL Y POR ESPECIES
Área Basal (m2/ha)
0,0
5,0
10,0
15,0
Quillaja saponaria
Lithrea caustica
Kageneckia oblonga
Total
0
200
400
600
Densidad (árb/ha)
Densidad (Arb/ha)
Área Basal (m2/ha)



SIMBOLOGÍA

Curva de Nivel
- Curva nivel índice
- Curva nivel intermedia

Vialidad
- Camino pavimentado
- Camino tierra

Hidrografía
- Río
- Estero
- Quebrada permanente

Obras PHAM
- Captación
- Caverna máquina
- Descarga
- Ventana
- Cámara de Carga
- Puente
- Trazado túnel
- Cámara de carga

Rodal Afectar
- Rodal (Bosque)

1 0 1 2 3 Kilometers

Escala 1: 50.000
Coordenadas UTM en Metros
Datum PSAd 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

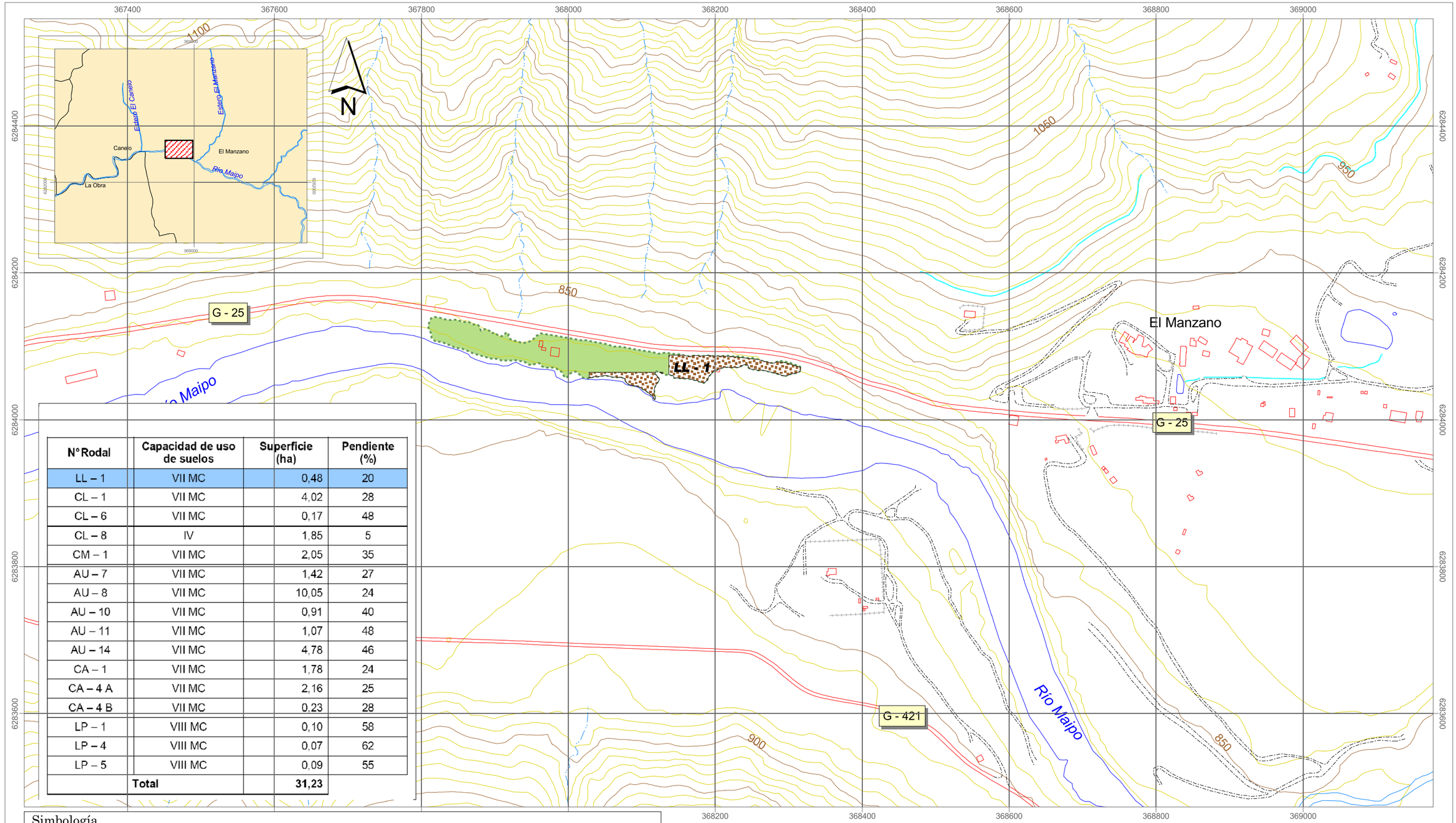
TÍTULO: **ZONAS DE CORTA DE BOSQUE V/S LÍMITES PREDIALES**

ESCALA:	FECHA:	LÁMINA:	REV:
1:50.000	MAYO 2008	1	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener

Fuente Mapa Base: Cartografía Digital IGM "Farellones", "San José de Maipo", "Río Olivares", "Embalse Yeso", Escala 1:50.000
Fuente Predios: AES Gener, 2008

3119/Adenda/Apr/Propiedades/3119_3.apr VCV Enero 2008



N° Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
	Total	**31,23**	

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Río
- Canal Existente

Vialidad
- Carretera
- Camino no pavimentado

Formación vegetal reconocida (COT)
- Plantación forestal

Capacidad de Uso
- LL 1 - VI

50 0 50 100 150 Metros

Escala 1:5.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico laser, Geoex´ploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de Campo, Arcadis Geotécnica, 2007

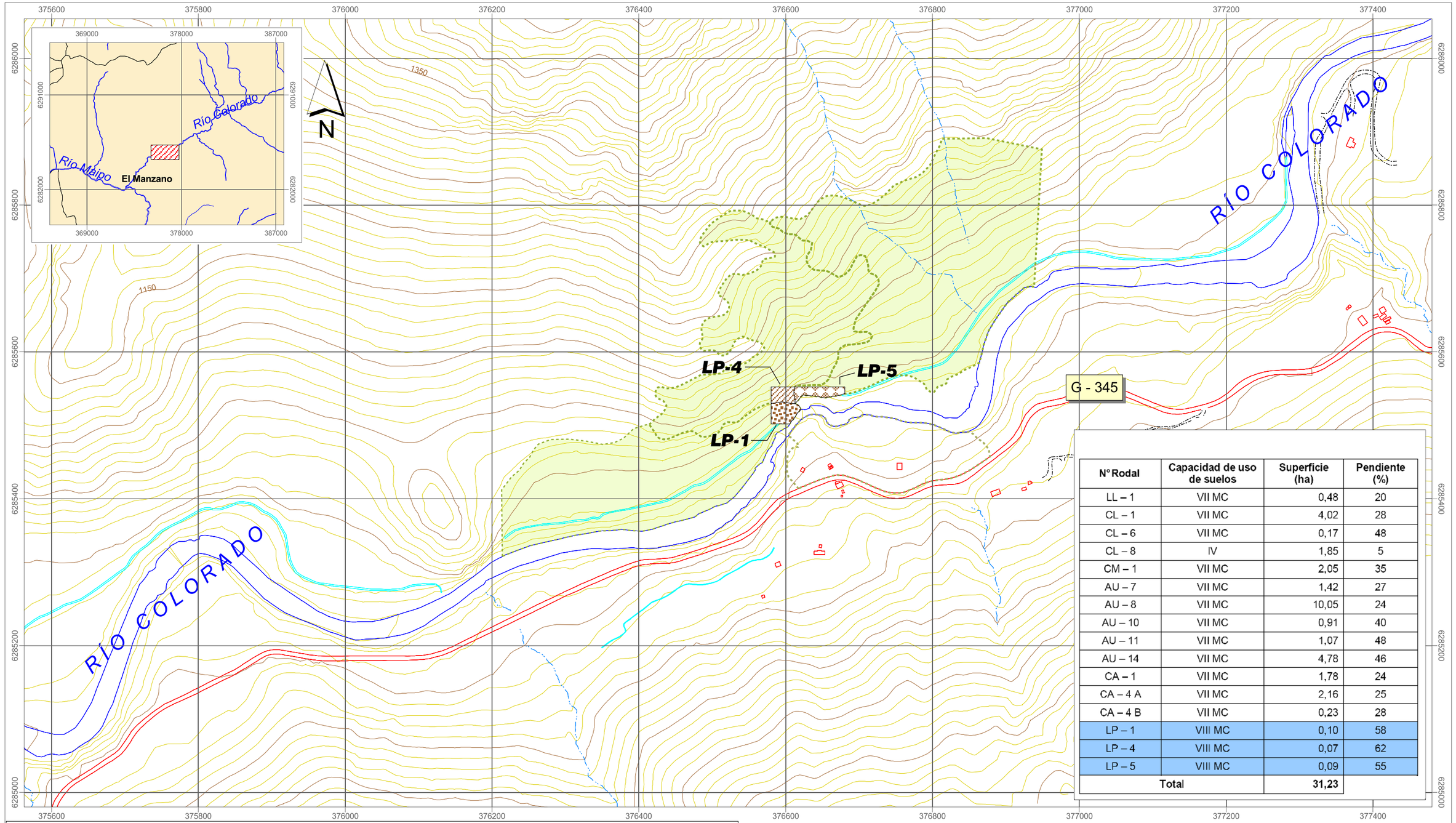
ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CAPACIDAD DE USO DE SUELO DEL ÁREA DE LA DESCARGA RÍO MAIPO - SECTOR LAS LAJAS

ESCALA:	FECHA:	LÁMINA:	REV:
1:5.000	MAYO 2008	1A	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

3119/Adenda1/Apr/Plan Manejo/3119_1A.apr Mayo 2008



N° Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
Total		31,23	

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Río

Vialidad
- Carretera
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque de quillay-litre-bollén

Capacidad de Uso
- LP 1 - VI
- LP 4 - VII
- LP 5 - VII

80 0 80 160 mt

Escala 1:5.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

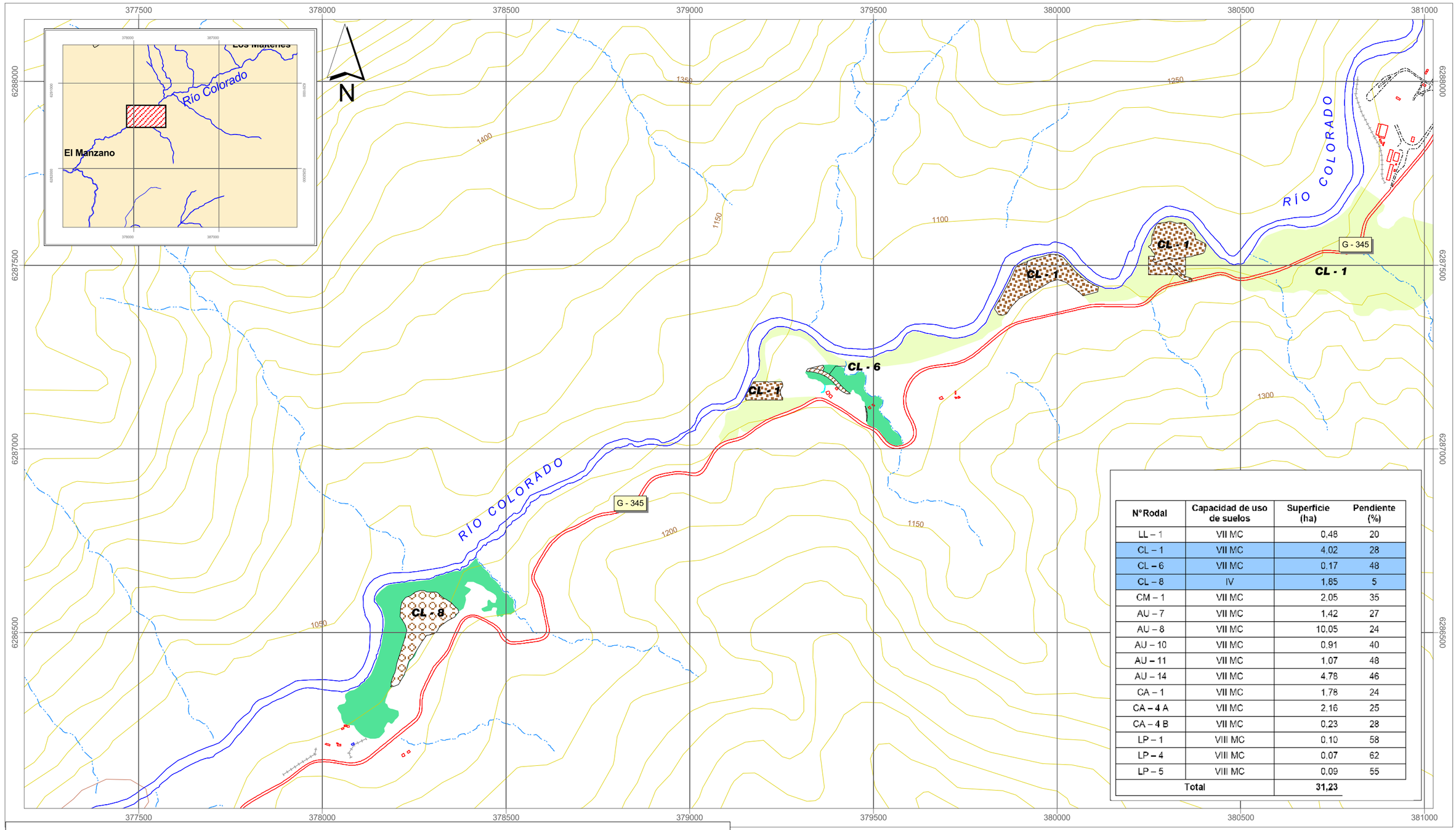
TÍTULO: **CAPACIDAD DE USO DE SUELO DE LA CUENCA DEL RÍO COLORADO - SECTOR LAS PUERTAS**

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1B	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico Laser, geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

3119/Adenda 1/apr/Plan Manejo/3119_1B.apr VCV Mayo 2008



N°Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
Total		31,23	

Simbología

Curva Nivel
- Curva índice

Hidrografía
- Quebrada
- Río

Vialidad
- Carretera
- Camino secundario
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque quillay-espino
- Bosque esclerófilo

Capacidad de Uso Suelo
- CL 1 - VII
- CL 6 - VI
- CL 8 - VII

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

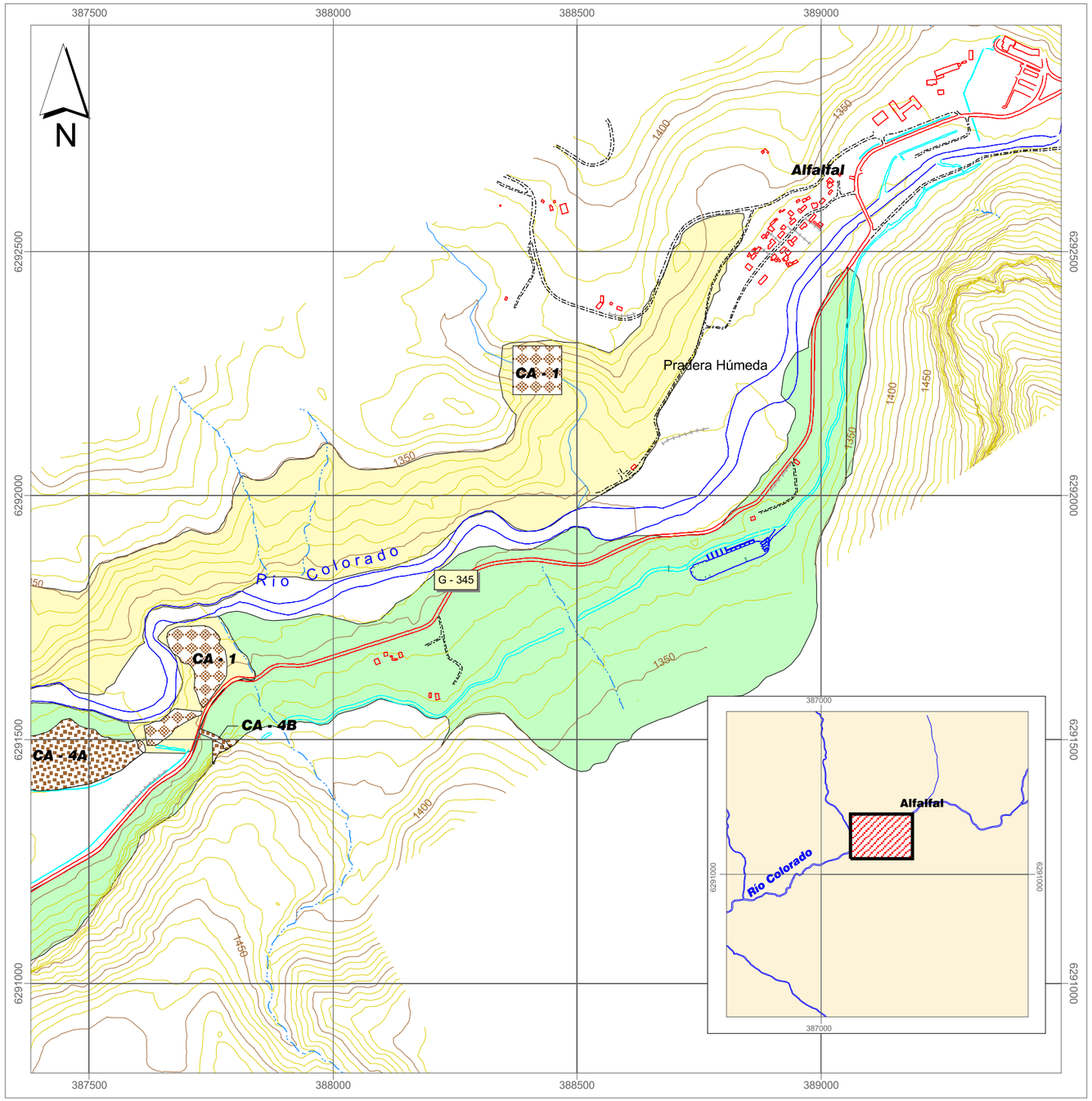
TÍTULO
CAPACIDAD DE USO DEL SUELO DE LA CUENCA DEL RÍO COLORADO - SECTOR VENTANA 4 Y 5 TÚNEL LAS LAJAS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1C	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico Laser, geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

3119/Adenda 1/apr/Plan Manejo/3119_1C.apr VCV MAYO 2008



200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal Existente

Vialidad
- Carretera
- Camino secundario
- Camino no pavimentado

Formación vegetación reconocidas (COT)
- Bosque quillay-huinga (Ladera Norte)
- Bosque quillay-frangel (Ladera Sur)

Capacidad de Uso de Suelo
- CA 1 - VII
- CA 4A - VII
- CA 4B - VIII

N°Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
Total		31,23	

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

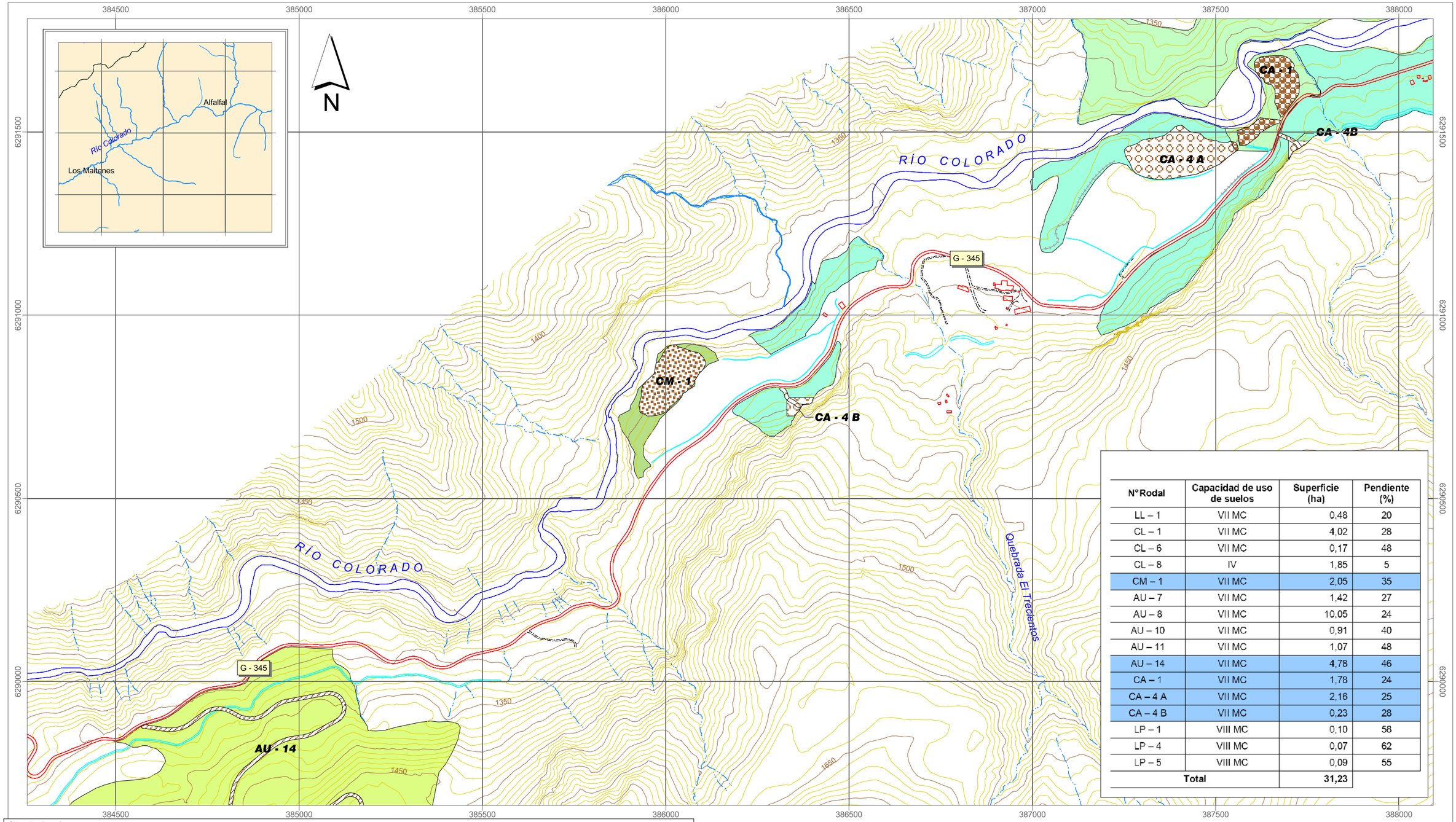
TÍTULO
CAPACIDAD DE USO DEL SUELO DE LA CUENCA DEL RÍO COLORADO - SECTOR ALFALFAL

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1D	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

Fuente Mapa Base: Levantamiento topográfico laser aerotransoortado, Geoexploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

3119/Adenda 1/Apr/Plan Manejo/3119_1D.apr VCV Mayo 2008



N° Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
Total		**31,23**	

Simbología

Curva de nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal existente

Curva de nivel
- Carretera
- Camino secundario
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque esclerófilo quillay-frangel
- Bosque esclerófilo
- Bosque quillay-huingan (Ladera Norte)
- Bosque quillay-frangel (Ladera Sur)

Capacidad de Uso de Suelo
- CM 1 - VI
- AU 14 - VII
- CA 4 - VII
- CA 1 - VIII

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

Fuente Mapa Base: Levantamiento Aerofotogrametrico Laser, Geoexploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación : Levantamiento de Campo, Arcadis Geotécnica, 2006 - 2007

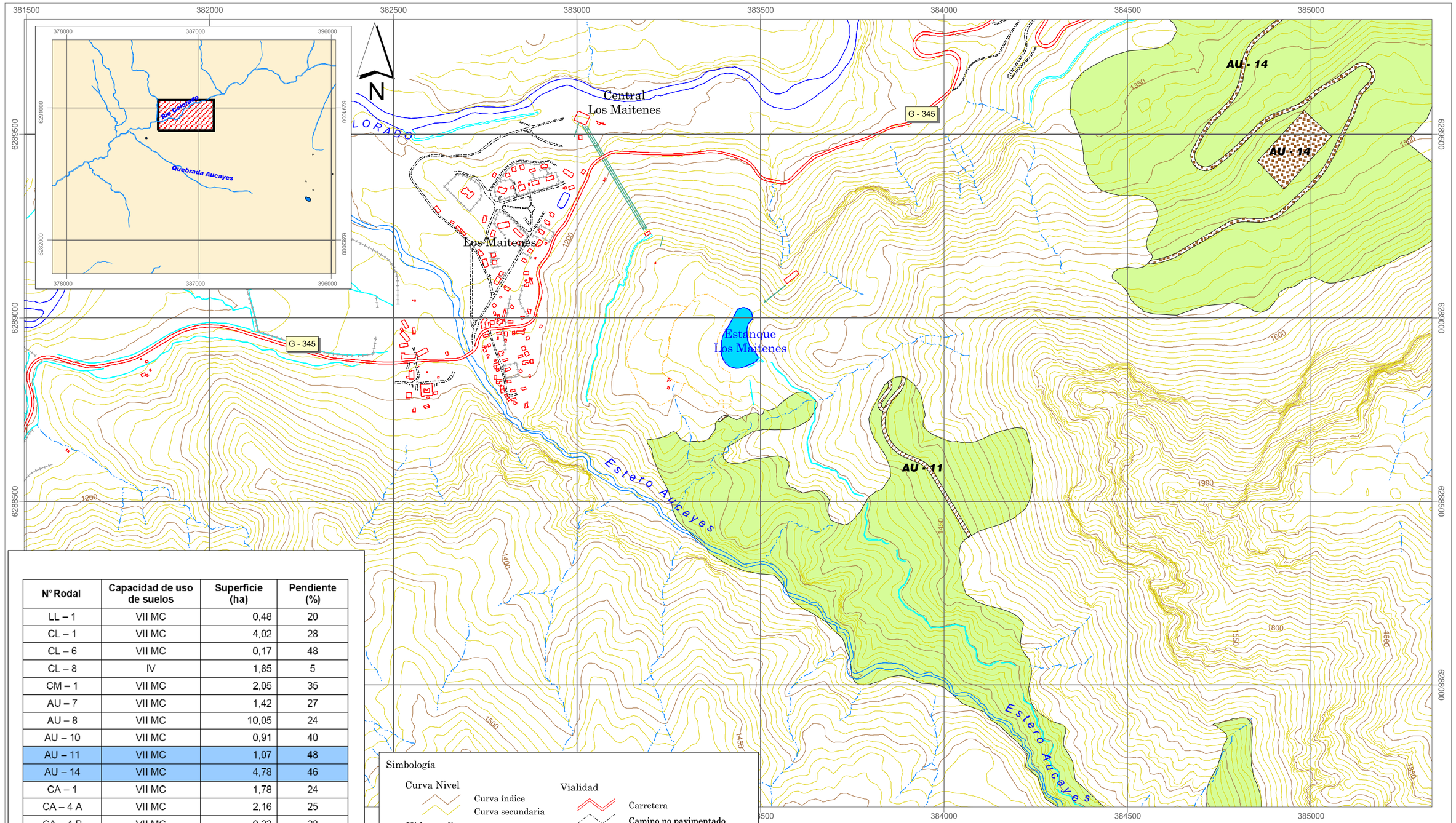
3119_24/Adenda 1/Apr/Plan Manejo/3119_1E.apr VCV Enero 2008

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CAPACIDAD DE USO DE SUELO DE LA CUENCA DEL RÍO COLORADO - SECTOR VENTANA EL TRECIENTOS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1E	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES



N° Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0,48	20
CL – 1	VII MC	4,02	28
CL – 6	VII MC	0,17	48
CL – 8	IV	1,85	5
CM – 1	VII MC	2,05	35
AU – 7	VII MC	1,42	27
AU – 8	VII MC	10,05	24
AU – 10	VII MC	0,91	40
AU – 11	VII MC	1,07	48
AU – 14	VII MC	4,78	46
CA – 1	VII MC	1,78	24
CA – 4 A	VII MC	2,16	25
CA – 4 B	VII MC	0,23	28
LP – 1	VIII MC	0,10	58
LP – 4	VIII MC	0,07	62
LP – 5	VIII MC	0,09	55
Total		**31,23**	

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal existente
- Estanque

Vialidad
- Carretera
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque esclerófilo

Capacidad de Uso del Suelo
- AU 11 - VII
- AU 14 - VII

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

Fuente Mapa Base: Levantamiento topográfico laser aeotransportado, Geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

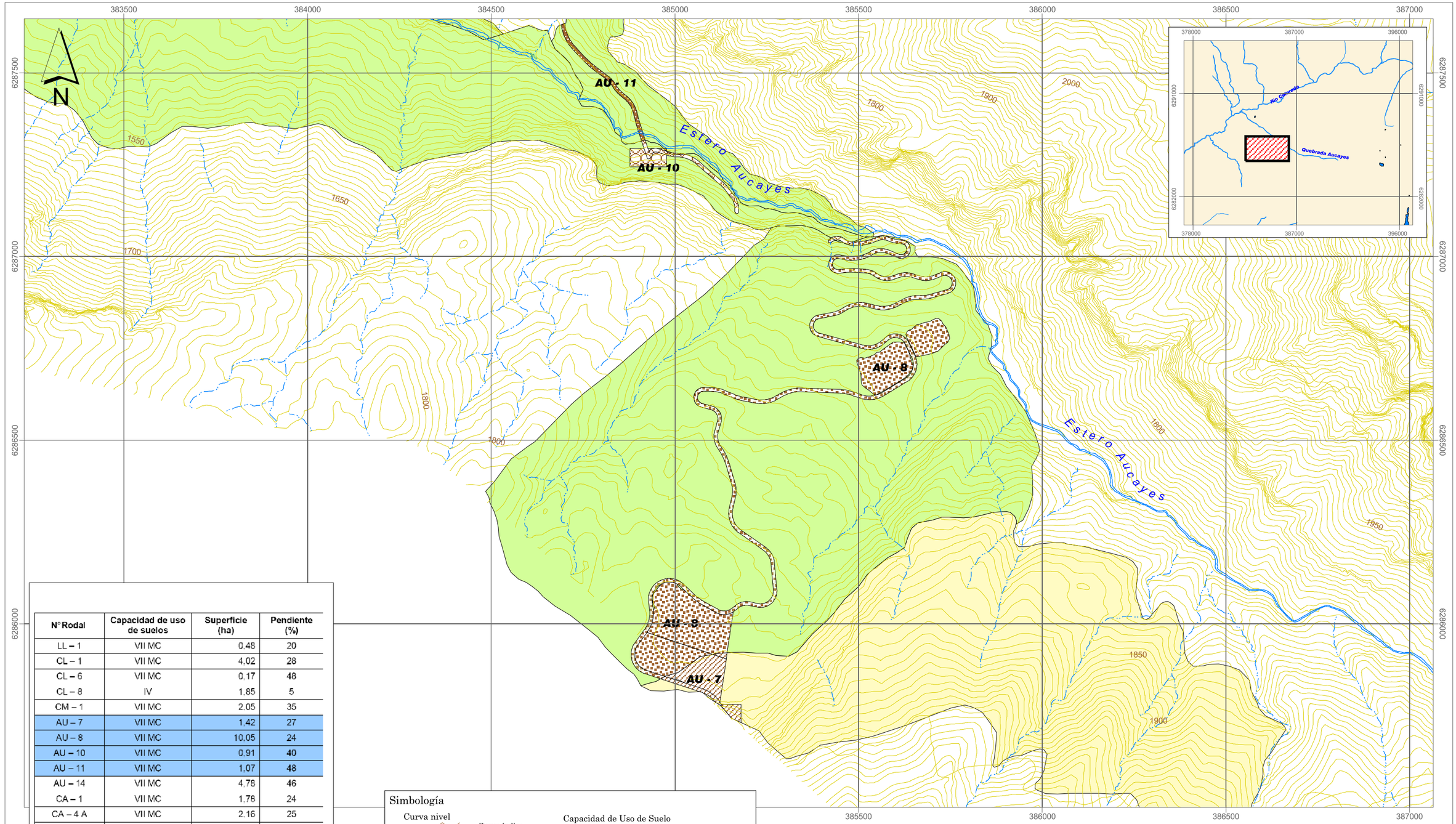
\3119\Apr\adenda\apr\Plan de Manejo\3119_1F.apr VCV Mayo 2008

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CAPACIDAD DE USO DEL SUELO DEL ESTERO AUCAYES - SECTOR VENTANA 3 TÚNEL LAS LAJAS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1F	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES



N° Rodal	Capacidad de uso de suelos	Superficie (ha)	Pendiente (%)
LL – 1	VII MC	0.48	20
CL – 1	VII MC	4.02	28
CL – 6	VII MC	0.17	48
CL – 8	IV	1.85	5
CM – 1	VII MC	2.05	35
AU – 7	VII MC	1.42	27
AU – 8	VII MC	10.05	24
AU – 10	VII MC	0.91	40
AU – 11	VII MC	1.07	48
AU – 14	VII MC	4.78	46
CA – 1	VII MC	1.78	24
CA – 4 A	VII MC	2.16	25
CA – 4 B	VII MC	0.23	28
LP – 1	VIII MC	0.10	58
LP – 4	VIII MC	0.07	62
LP – 5	VIII MC	0.09	55
Total		31,23	

Simbología

Curva nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Canal existente

Formación vegetación reconocida (Cot)
- Bosque esclerófilo
- Bosque poco denso

Capacidad de Uso de Suelo
- AU 8 - VII
- AU 7 - VII
- AU 10 - VII
- AU 11 - VII

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CAPACIDAD DE USO DEL SUELO DEL ESTERO AUCAYES - SECTOR VENTANA 2 TUNEL EL ALFALFAL

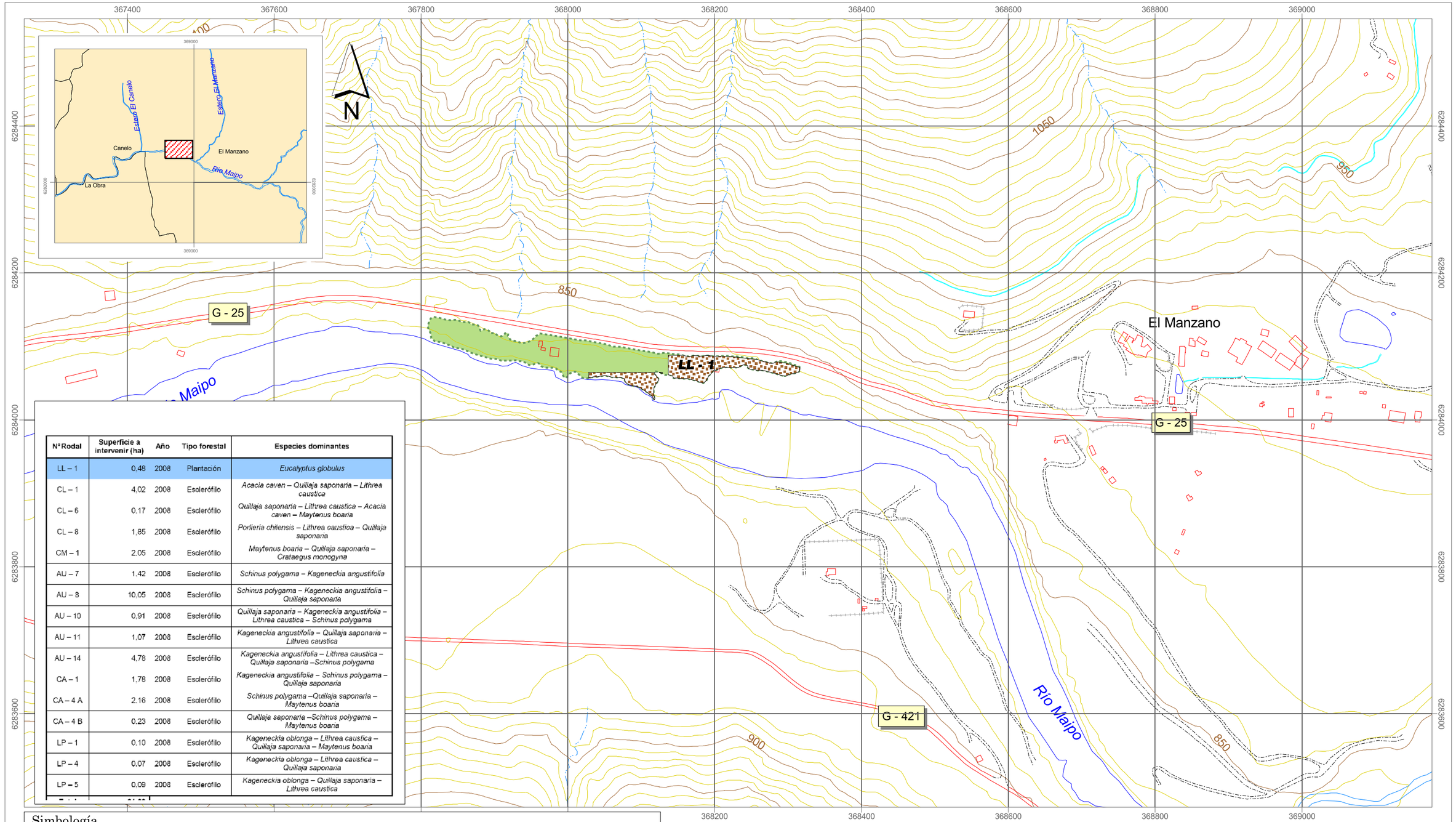
ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	1G	0

PREPARADO POR: ARCADIS GEOTECNICA

PREPARADO PARA: Gener

Fuente Mapa Base: Levantamiento topográfico laser aerotransoortado, Geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de Campo, Arcadis Geotécnica, 2006 - 2007

Cartografia/3119/Adenda 1/Apr/Plan de Manejo/3119_1G.apr VCV Mayo 2008



N° Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
LL – 1	0,48	2008	Plantación	*Eucalyptus globulus*
CL – 1	4,02	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CL – 6	0.17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
CL – 8	1,85	2008	Esclerófilo	*Porlieria chilensis – Lithrea caustica – Quillaja saponaria*
CM – 1	2.05	2008	Esclerófilo	*Maytenus boaria – Quillaja saponaria – Crataegus monogyna*
AU – 7	1.42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10.05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0.91	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1.07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4,78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria –Schinus polygama*
CA – 1	1,78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2.16	2008	Esclerófilo	*Schinus polygama –Quillaja saponaria – Maytenus boaria*
CA – 4 B	0.23	2008	Esclerófilo	*Quillaja saponaria –Schinus polygama – Maytenus boaria*
LP – 1	0.10	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria – Maytenus boaria*
LP – 4	0.07	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria*
LP – 5	0.09	2008	Esclerófilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Río
- Canal Existente

Vialidad
- Carretera
- Camino no pavimentado

Formación vegetal reconocida (COT)
- Plantación forestal

Rodal Afectar
- LL 1 - Plantación afectar

90 0 90 180 mt

Escala 1:5.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO VIAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

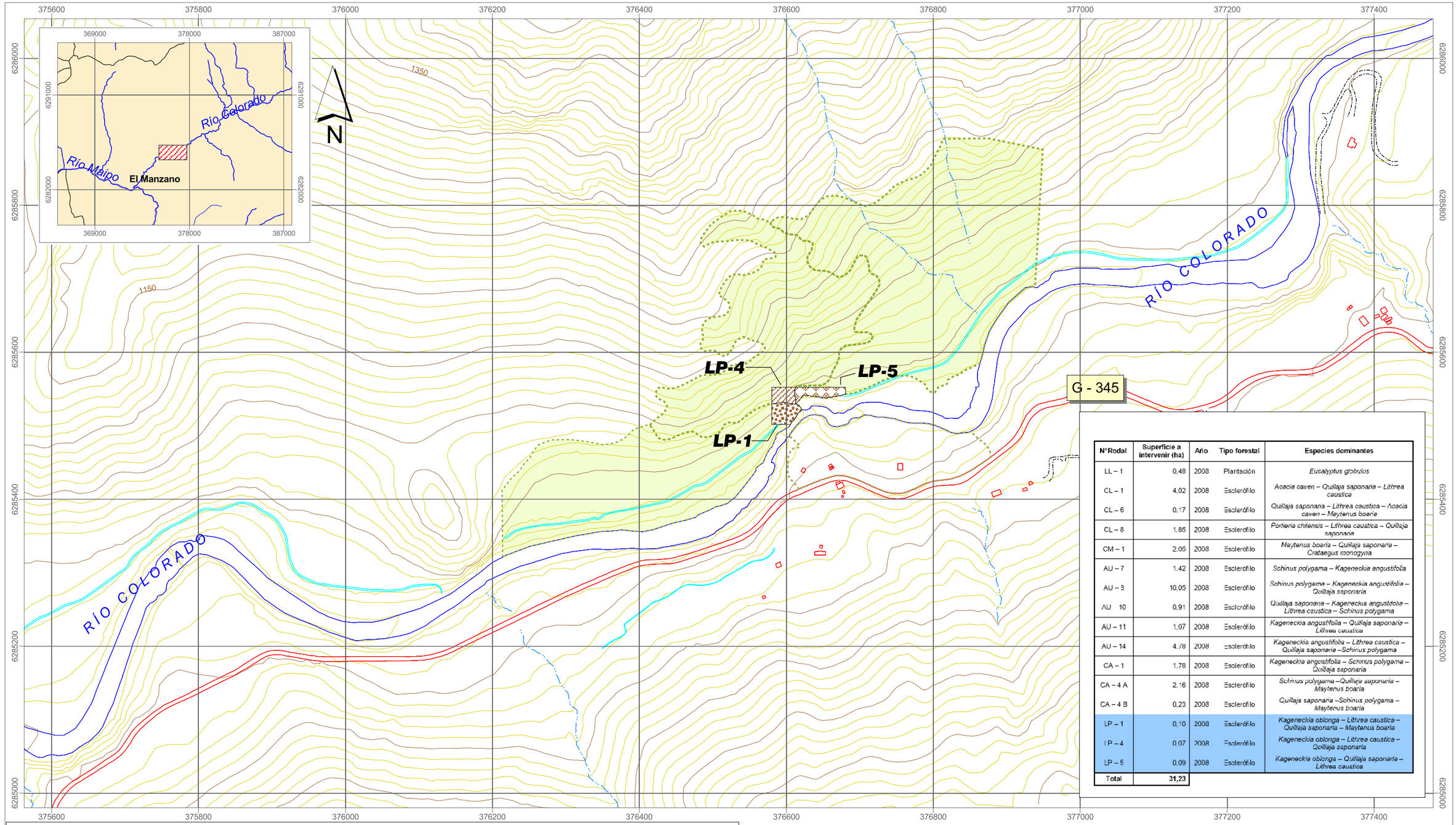
TÍTULO
CORTA FORMACIONES BOSCOSAS DEL ÁREA DE DESCARGA TÚNEL LAS LAJAS - SECTOR RÍO MAIPO

ESCALA:	FECHA:	LÁMINA:	REV:
1:5.000	MAYO 2008	2A	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico laser, Geoex´ploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de Campo, Arcadis Geotécnica, 2007

3119/Adenda1/Apr/Plan Manejo/3119_2A.apr MAYO 2008



N°Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
LL – 1	0,48	2008	Plantación	*Eucalyptus globulus*
CL – 1	4,02	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CL – 6	0,17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
CL – 8	1,85	2008	Esclerófilo	*Porlieria chilensis – Lithrea caustica – Quillaja saponaria*
CM – 1	2,05	2008	Esclerófilo	*Maytenus boaria – Quillaja saponaria – Crataegus monogyna*
AU – 7	1,42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10,05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU 10	0,91	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1,07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4,78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria –Schinus polygama*
CA – 1	1,78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2,16	2008	Esclerófilo	*Schinus polygama –Quillaja saponaria – Maytenus boaria*
CA – 4 B	0,23	2008	Esclerófilo	*Quillaja saponaria –Schinus polygama – Maytenus boaria*
LP – 1	0,10	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria – Maytenus boaria*
LP – 4	0,07	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria*
LP – 5	0,09	2008	Esclerófilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*
Total	31,23			

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Río

Vialidad
- Carretera
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque de quillay-litre-bollén

Rodal Afectar
- LP 1 - Bosque esclerófilo
- LP 4 - Bosque esclerófilo
- LP 5 - Bosque esclerófilo

80 0 80 160 mt

Escala 1:5.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico Laser, geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

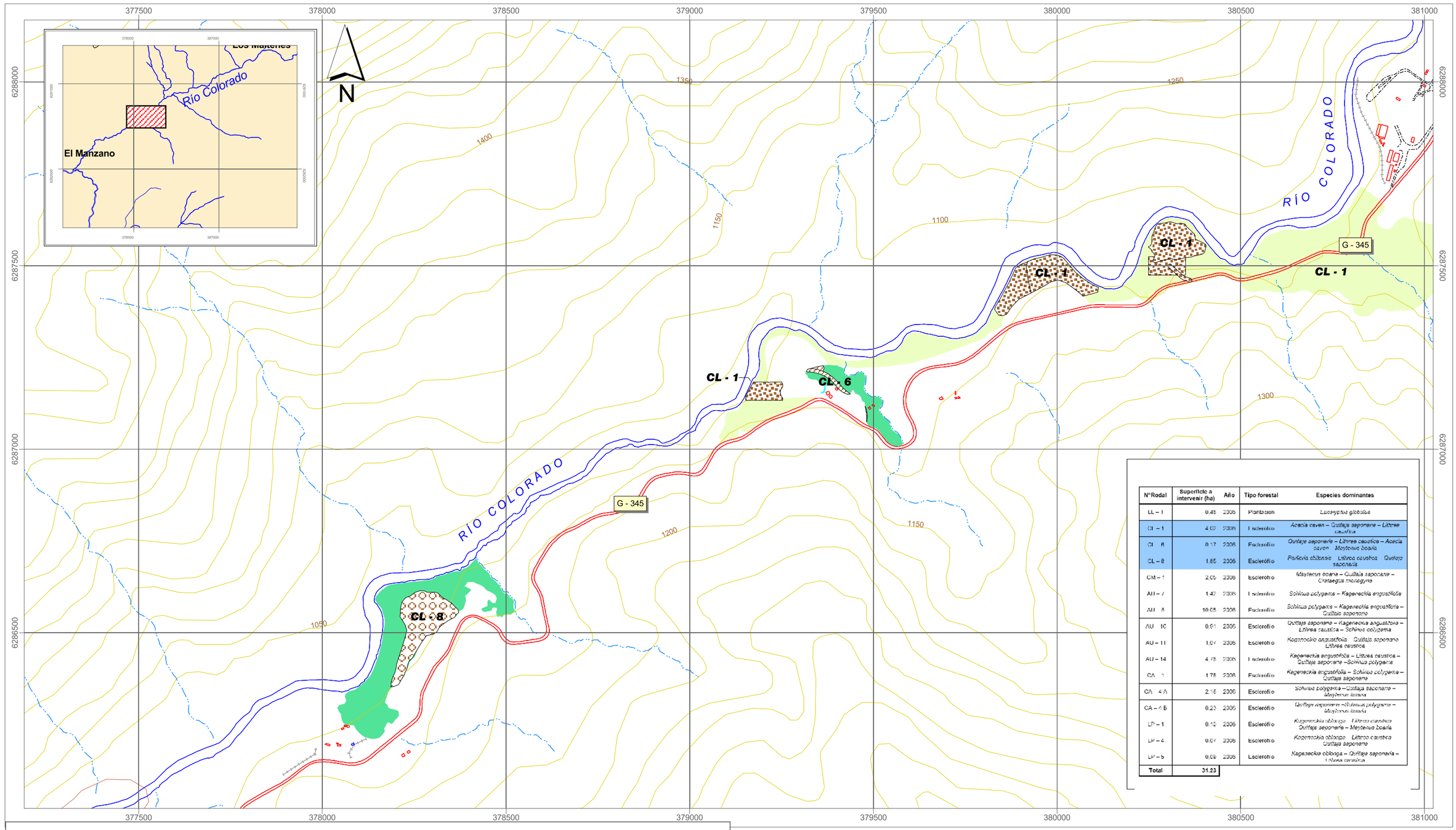
3119/Adenda 1/apr/pLAN mANEJO/3119_2B.apr VCV MAYO 2008

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CORTA FORMACIONES BOSCOSAS DE LA CUENCA DEL RÍO COLORADO - SECTOR LAS PUERTAS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2B	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES



N°Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
LL – 1	0.48	2006	Plantacion	*Eucalyptus globulus*
CI – 1	4.02	2006	Esclerofilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CI – 8	0.17	2006	Esclerofilo	*Quillaja saponaria – Lithrea caustica – Acacia caven Maytenus boaria*
CL – 8	1.85	2006	Esclerófilo	*Porlieria chilensis Lithrea caustica Quillaja saponaria*
CM – 1	2.06	2006	Esclerofilo	*Maytenus boaria – Quillaja saponaria – Crataegus monogyna*
AU – 7	1.42	2006	Esclerofilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10.05	2006	Esclerofilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0.61	2006	Esclerofilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1.07	2006	Esclerofilo	*Kageneckia angustifolia Quillaja saponaria Lithrea caustica*
AU – 14	4.78	2006	Esclerofilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria –Schinus polygama*
CA – 1	1.78	2006	Esclerofilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2.18	2006	Esclerofilo	*Schinus polygama –Quillaja saponaria – Maytenus boaria*
CA – 4 B	0.23	2006	Esclerófilo	*Quillaja saponaria –Schinus polygama – Maytenus boaria*
LP – 1	0.10	2006	Esclerófilo	*Kageneckia oblonga Lithrea caustica Quillaja saponaria – Maytenus boaria*
LP – 4	0.07	2006	Esclerofilo	*Kageneckia oblonga Lithrea caustica Quillaja saponaria*
LP – 5	0.08	2006	Esclerofilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*
Total	**31.23**			

Simbología

Curva Nivel
- Curva índice

Hidrografía
- Quebrada
- Río

Vialidad
- Carretera
- Camino secundario
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque quillay-espino
- Bosque esclerófilo

Rodal Afectar
- CL 1 - Bosque quillay-espino
- CL 6 - Bosque esclerófilo
- CL 8 - Bosque esclerófilo

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

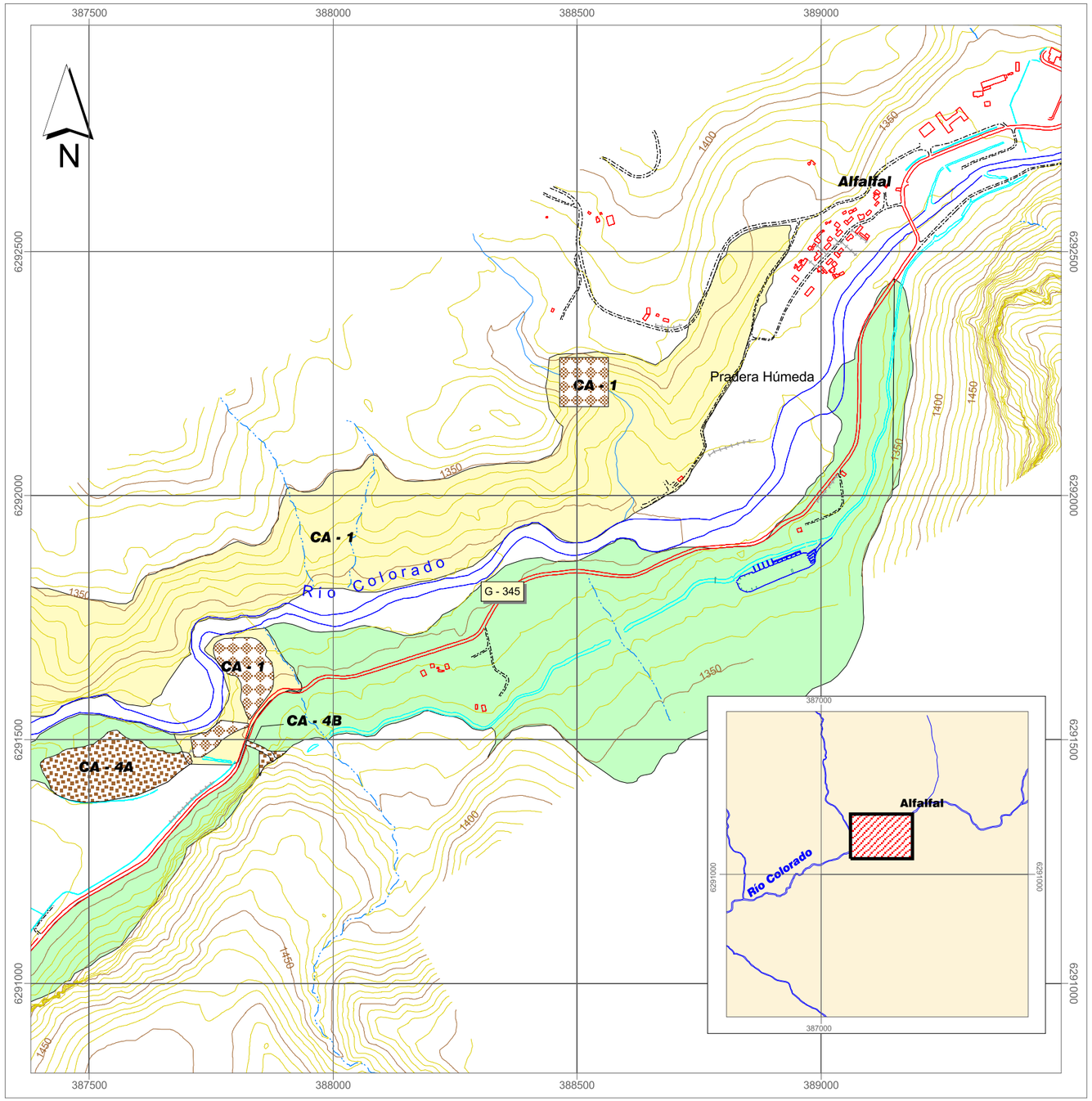
TÍTULO
CORTA FORMACIONES BOSCOSAS DE LA CUENCA DEL RÍO COLORADO - SECTOR VENTANA 4 Y 5 TÚNEL LAS LAJAS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2C	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

FUENTE MAPA BASE: Levantamiento Aerofotogrametrico Laser, geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
FUENTE VEGETACIÓN: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

3119/Adenda 1/apr/Plan Manejo/3119_2C.apr VCV MAYO 2008



200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal Existente

Vialidad
- Carretera
- Camino secundario
- Camino no pavimentado

Formación vegetación reconocidas (COT)
- Bosque quillay-huinga (Ladera Norte)
- Bosque quillay-frangel (Ladera Sur)

Rodal Afectar
- CA 1 - Bosque quillay-frangel (Ladera Sur)
- CA 4A - Bosque quillay-huinga (Ladera Norte)
- CA 4B - Bosque quillay-huinga (Ladera Norte)

N° Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
LL – 1	0,48	2008	Plantacion	*Eucalyptus globulus*
CL – 1	4,02	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CL – 6	0,17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
CL 8	1,85	2008	Esclerófilo	*Porlieria chilensis Lithrea caustica Quillaja saponaria*
CM 1	2,05	2008	Esclerófilo	*Maytenus boaria Quillaja saponaria Crataegus monogyna*
AU – 7	1,42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10,05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0,91	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1,07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4,78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria Schinus polygama*
CA – 1	1,78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2,16	2008	Esclerófilo	*Schinus polygama –Quillaja saponaria – Maytenus boaria*
CA 4 B	0,23	2008	Esclerófilo	*Quillaja saponaria –Schinus polygama – Maytenus boaria*
LP 1	0,10	2008	Esclerófilo	*Kageneckia oblonga Lithrea caustica Quillaja saponaria – Maytenus boaria*
LP 4	0,07	2008	Esclerófilo	*Kageneckia oblonga Lithrea caustica Quillaja saponaria*
LP – 5	0,09	2008	Esclerófilo	*Kageneckia oblonga Quillaja saponaria Lithrea caustica*
Total	**31,23**			

ESTUDIO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO **CORTA DE FORMACIONES BOSCOSAS DE LA CUENCA DEL RÍO COLORADO - SECTOR ALFALFAL**

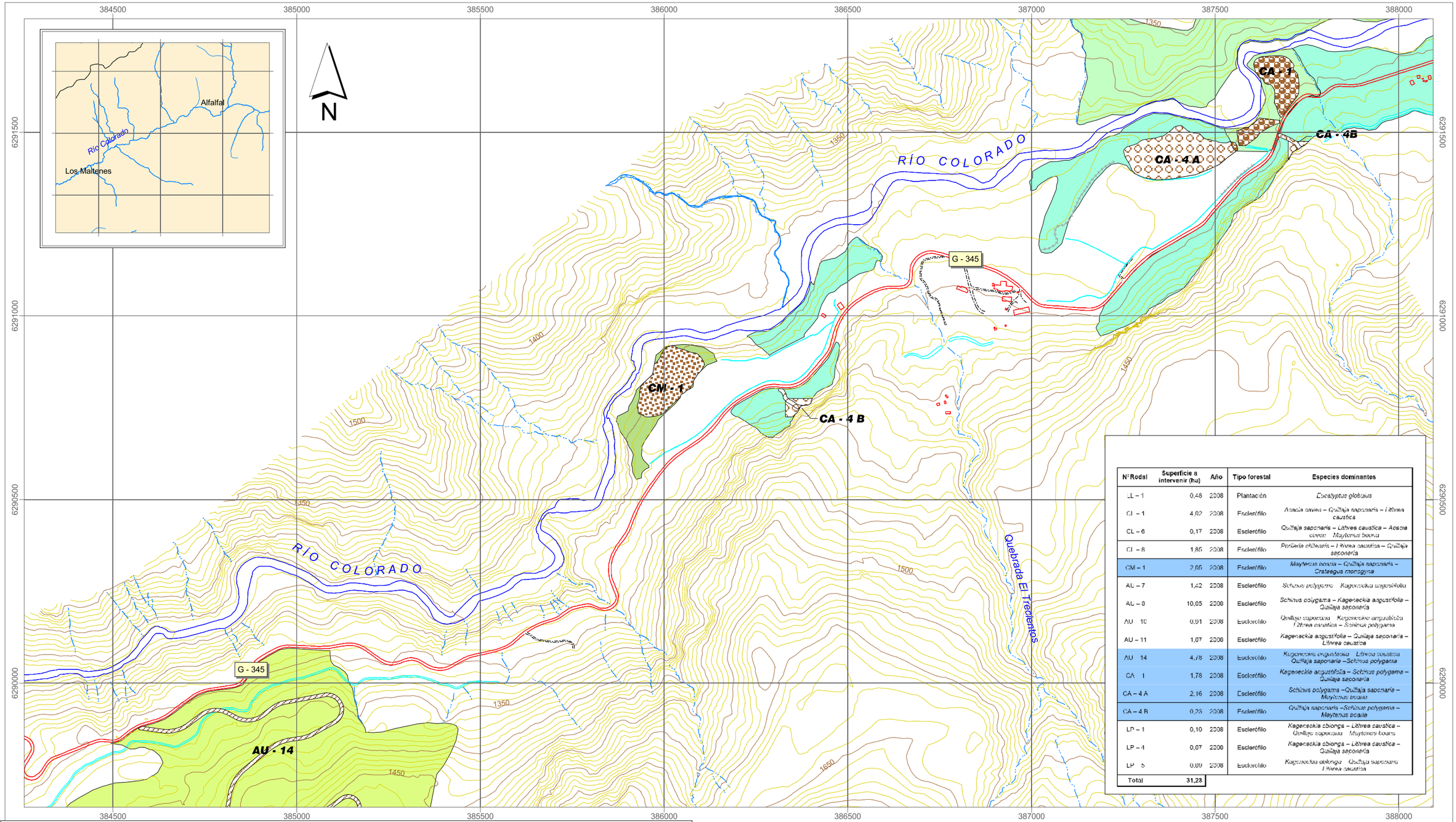
ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2D	0

PREPARADO POR: ARCADIS GEOTECNICA

PREPARADO PARA: Gener

Fuente Mapa Base: Levantamiento topográfico laser aerotransportado, Geoexploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

3119/Adenda 1/Apr/Plan Manejo/3119_2D.apr VCV MAYO 2008



N° Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
LL – 1	0,48	2008	Plantación	*Eucalyptus globulus*
CI – 1	4,02	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CL – 6	0,17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
CI – 8	1,85	2008	Esclerófilo	*Porlieria chilensis – Lithrea caustica – Quillaja saponaria*
CM – 1	2,05	2008	Esclerófilo	*Maytenus boaria – Quillaja saponaria – Crataegus monogyna*
AU – 7	1,42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10,05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0,91	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1,07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4,78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria – Schinus polygama*
CA – 1	1,78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2,16	2008	Esclerófilo	*Schinus polygama – Quillaja saponaria – Maytenus boaria*
CA – 4 B	0,23	2008	Esclerófilo	*Quillaja saponaria – Schinus polygama – Maytenus boaria*
LP – 1	0,10	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria – Maytenus boaria*
LP – 4	0,07	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria*
LP – 5	0,09	2008	Esclerófilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*
Total	31,28			

Simbología

Curva de nível
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal existente

Curva de nível
- Carretera
- Camino secundario
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque esclerófilo quillay-frangel
- Bosque esclerófilo
- Bosque quillay-huingan (Ladera Norte)
- Bosque quillay-frangel (Ladera Sur)

Rodal Afectar
- CM 1 - Bosque esclerófilo quillay-frangel
- AU 14 - Bosque esclerófilo
- CA 4 - Bosque quillay-huingan (Ladera Norte)
- CA 1 - Bosque quillay-frangel (Ladera Sur)

Fuente Mapa Base: Levantamiento Aerofotogrametrico Laser, Geoexploraciones S.A., Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación : Levantamiento de Campo, Arcadis Geotécnica, 2006 - 2007

3119_24/Adenda 1/Apr/Plan Manejo/3119_2E.apr VCV MAYO 2008

200 0 200 400 m.

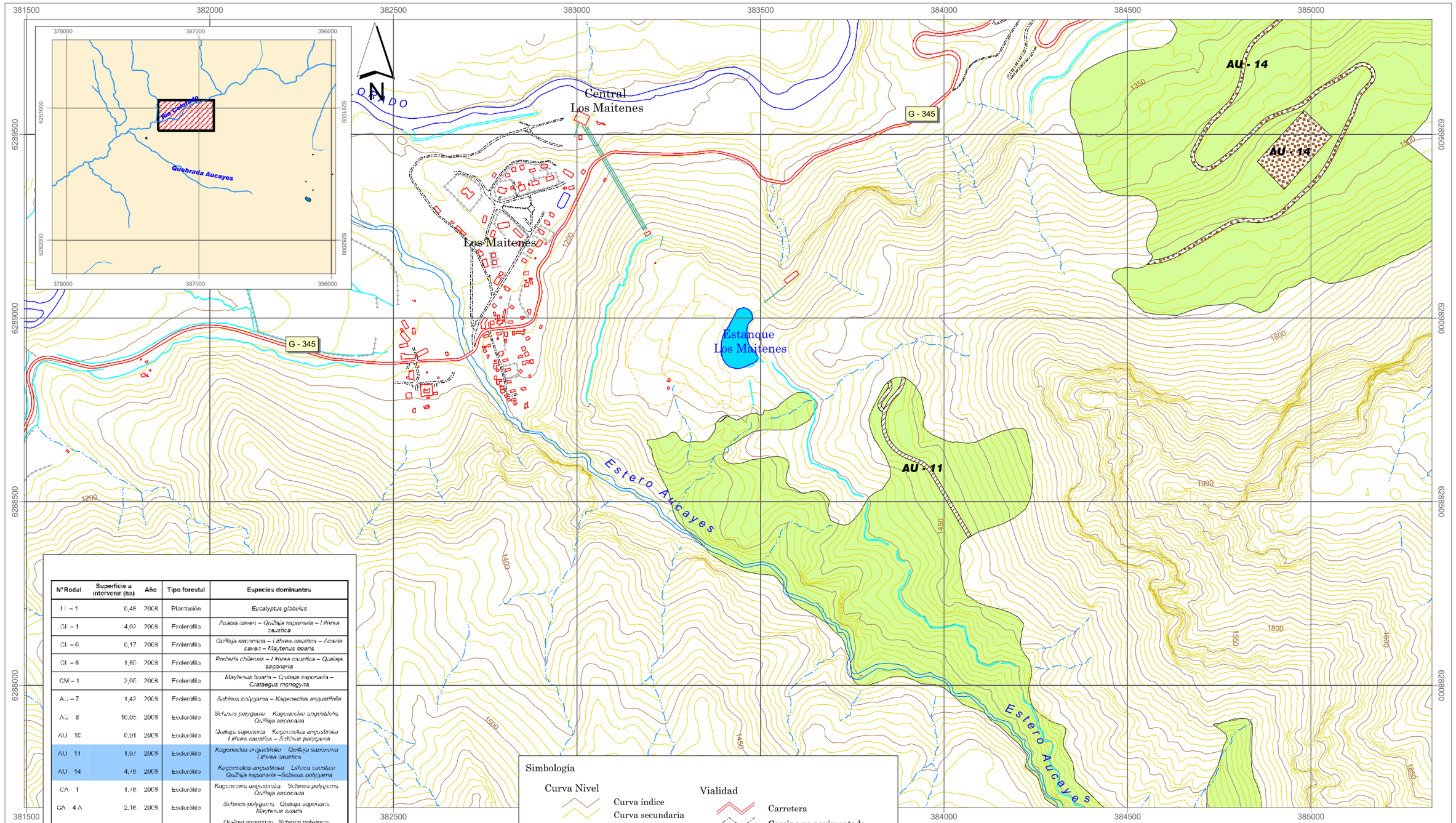
Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CORTA DE FORMACIONES BOSCOSAS DE LA CUENCA DEL RÍO COLORADO - SECTOR VENTANA EL TRECIENTOS

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2E	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES



N°Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
EU – 1	0,48	2008	Plantación	*Eucalyptus globulus*
CI – 1	4,02	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
CI – 6	0,17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
CI – 8	1,85	2008	Esclerófilo	*Porlieria chilensis – Lithrea caustica – Quillaja saponaria*
CM – 1	2,05	2008	Esclerófilo	*Maytenus boaria – Quillaja saponaria – Crataegus monogyna*
AU – 7	1,42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10,05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0,91	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1,07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4,78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria – Schinus polygama*
CA – 1	1,78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2,16	2008	Esclerófilo	*Schinus polygama – Quillaja saponaria – Maytenus boaria*
CA – 4 B	0,23	2008	Esclerófilo	*Quillaja saponaria – Schinus polygama – Maytenus boaria*
LP – 1	0,10	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria – Maytenus boaria*
LP – 4	0,07	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria*
LP – 5	0,09	2008	Esclerófilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*
Total	**31,23**			

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal existente
- Estanque

Vialidad
- Carretera
- Camino no pavimentado

Formación Vegetación Reconocida (Cot)
- Bosque esclerófilo

Rodal Afectar
- AU 14 - Bosque esclerófilo

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
CORTA FORMACIÓNES BOSCOSAS DEI ESTERO AUCAYES - SECTOR VENTANA 3 TÚNEL LAS LAJAS

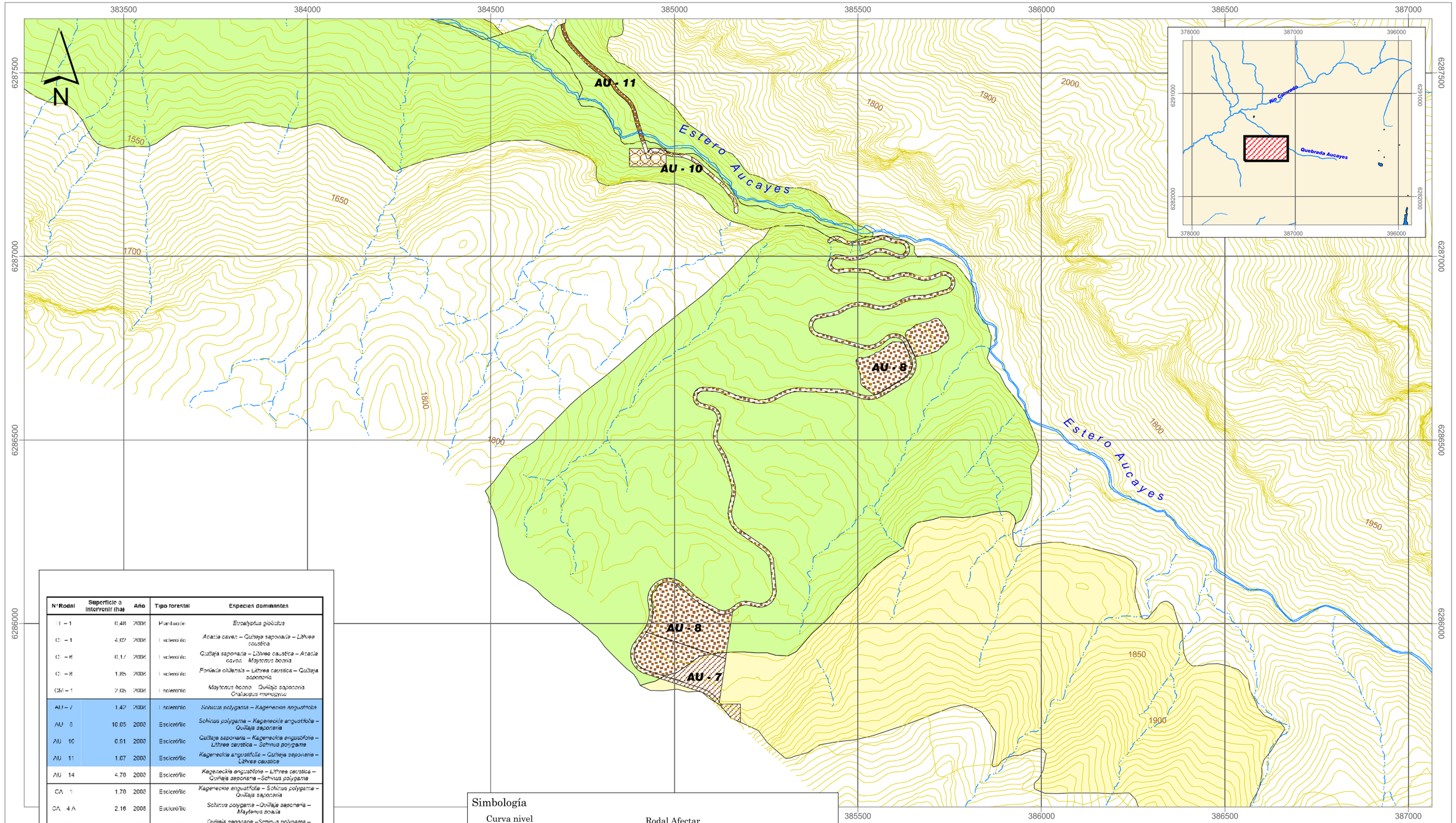
ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2F	0

PREPARADO POR: ARCADIS GEOTECNICA

PREPARADO PARA: Gener una empresa AES

Fuente Mapa Base: Levantamiento topográfico laser aeotransportado, Geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

\3119\Apr\adenda\apr\Plan de Manejo\3119_2F.apr VCV MAYO 2008



N° Rodal	Superficie a intervenir (ha)	Año	Tipo forestal	Especies dominantes
[illegible] – 1	0.48	2008	Plantación	*Eucalyptus globulus*
C[illegible] – 1	4.07	2008	Esclerófilo	*Acacia caven – Quillaja saponaria – Lithrea caustica*
C[illegible] – 8	0.17	2008	Esclerófilo	*Quillaja saponaria – Lithrea caustica – Acacia caven – Maytenus boaria*
C[illegible] – 8	1.85	2008	Esclerófilo	*Fontelia chilensis – Lithrea caustica – Quillaja saponaria*
CM – 1	2.05	2008	Esclerófilo	*Maytenus boaria – Quillaja saponaria – Cryptocarya morococha*
AU – 7	1.42	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia*
AU – 8	10.05	2008	Esclerófilo	*Schinus polygama – Kageneckia angustifolia – Quillaja saponaria*
AU – 10	0.61	2008	Esclerófilo	*Quillaja saponaria – Kageneckia angustifolia – Lithrea caustica – Schinus polygama*
AU – 11	1.07	2008	Esclerófilo	*Kageneckia angustifolia – Quillaja saponaria – Lithrea caustica*
AU – 14	4.78	2008	Esclerófilo	*Kageneckia angustifolia – Lithrea caustica – Quillaja saponaria – Schinus polygama*
CA – 1	1.78	2008	Esclerófilo	*Kageneckia angustifolia – Schinus polygama – Quillaja saponaria*
CA – 4 A	2.16	2008	Esclerófilo	*Schinus polygama – Quillaja saponaria – Maytenus boaria*
CA – 4 B	0.23	2008	Esclerófilo	*Quillaja saponaria – Schinus polygama – Maytenus boaria*
LP – 1	0.10	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria – Maytenus boaria*
LP – 4	0.07	2008	Esclerófilo	*Kageneckia oblonga – Lithrea caustica – Quillaja saponaria*
LP – 5	0.09	2008	Esclerófilo	*Kageneckia oblonga – Quillaja saponaria – Lithrea caustica*
Total	**31.23**			

Simbología

Curva nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- **Canal existente**

Formación vegetación reconocida (Cot)
- Bosque esclerófilo
- Bosque poco denso

Rodal Afectar
- AU 8 - Bosque esclerófilo
- AU 7 - Bosque poco denso
- AU 10 - Bosque esclerófilo
- AU 11 - Bosque esclerófilo

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

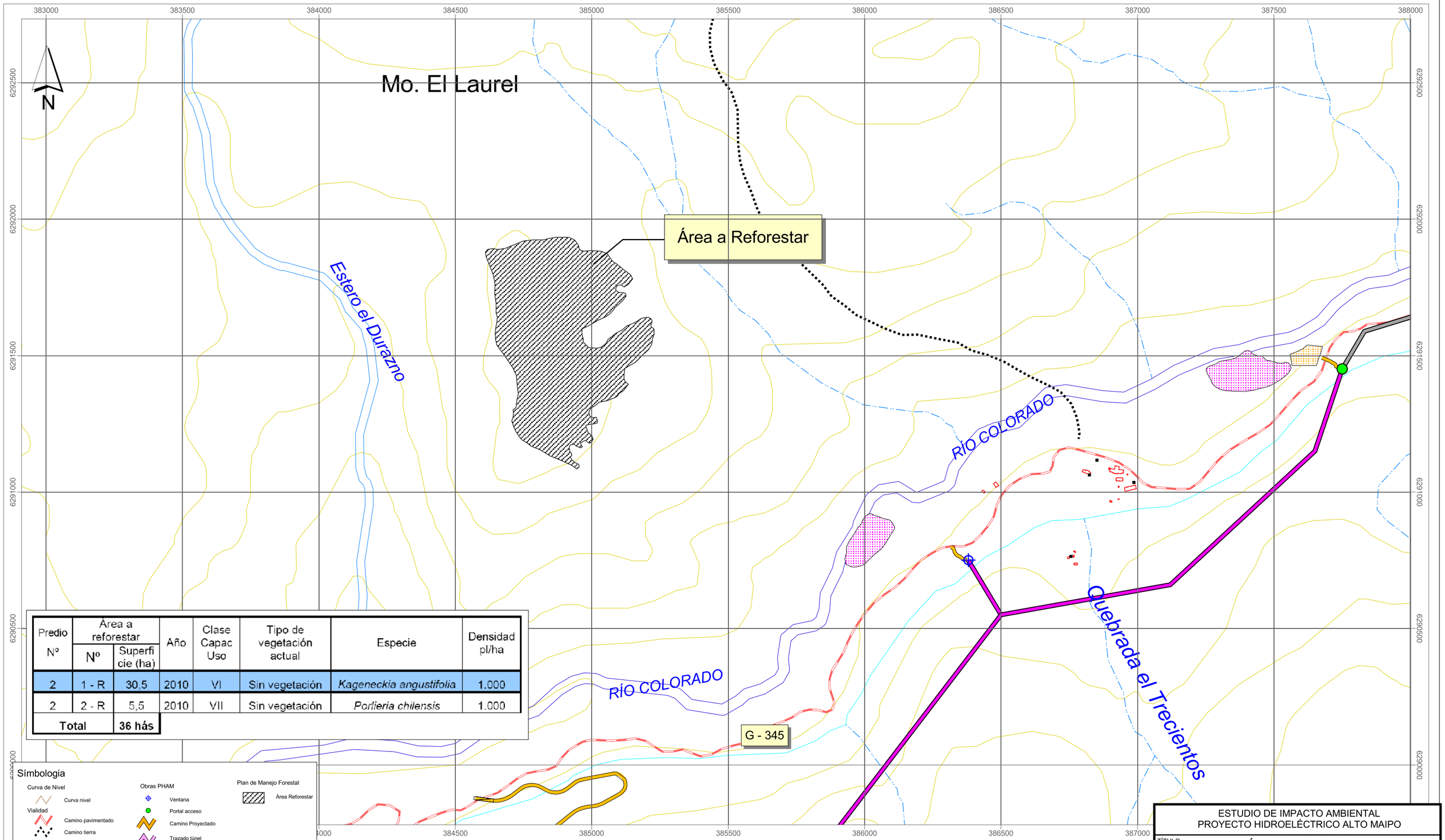
TÍTULO
CORTA DE FORMACIÓNES BOSCOSAS DEL ESTERO AUCAYES - SECTOR VENTANA 2 TUNEL EL ALFALFAL

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	2G	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una empresa AES

Fuente Mapa Base: Levantamiento topográfico laser aerotransoortado, Geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de Campo, Arcadis Geotécnica, 2006 - 2007

Cartografia/3119/Adenda 1/Apr/Plan de Manejo/3119_2G.apr VCV Mayo 2008



Predio Nº	Área a reforestar Nº	Área a reforestar Superficie (ha)	Año	Clase Capac Uso	Tipo de vegetación actual	Especie	Densidad pl/ha
2	1 - R	30,5	2010	VI	Sin vegetación	*Kageneckia angustifolia*	1.000
2	2 - R	5,5	2010	VII	Sin vegetación	*Porlieria chilensis*	1.000
Total		**36 hás**					

Símbologia

Curva de Nivel
- Curva nivel

Vialidad
- Camino pavimentado
- Camino tierra

Hidrografía
- Rio
- Estero
- Quebrada intermitente

Obras PHAM
- Ventana
- Portal acceso
- Camino Proyectado
- Trazado túnel
- Ducto Proyectado
- Sitio de Acopio
- Campamento e Instalación de Faenas

Plan de Manejo Forestal
- Área Reforestar

Base Cartografía: Cartas Topograficas IGM Digital, escala 1:50.000

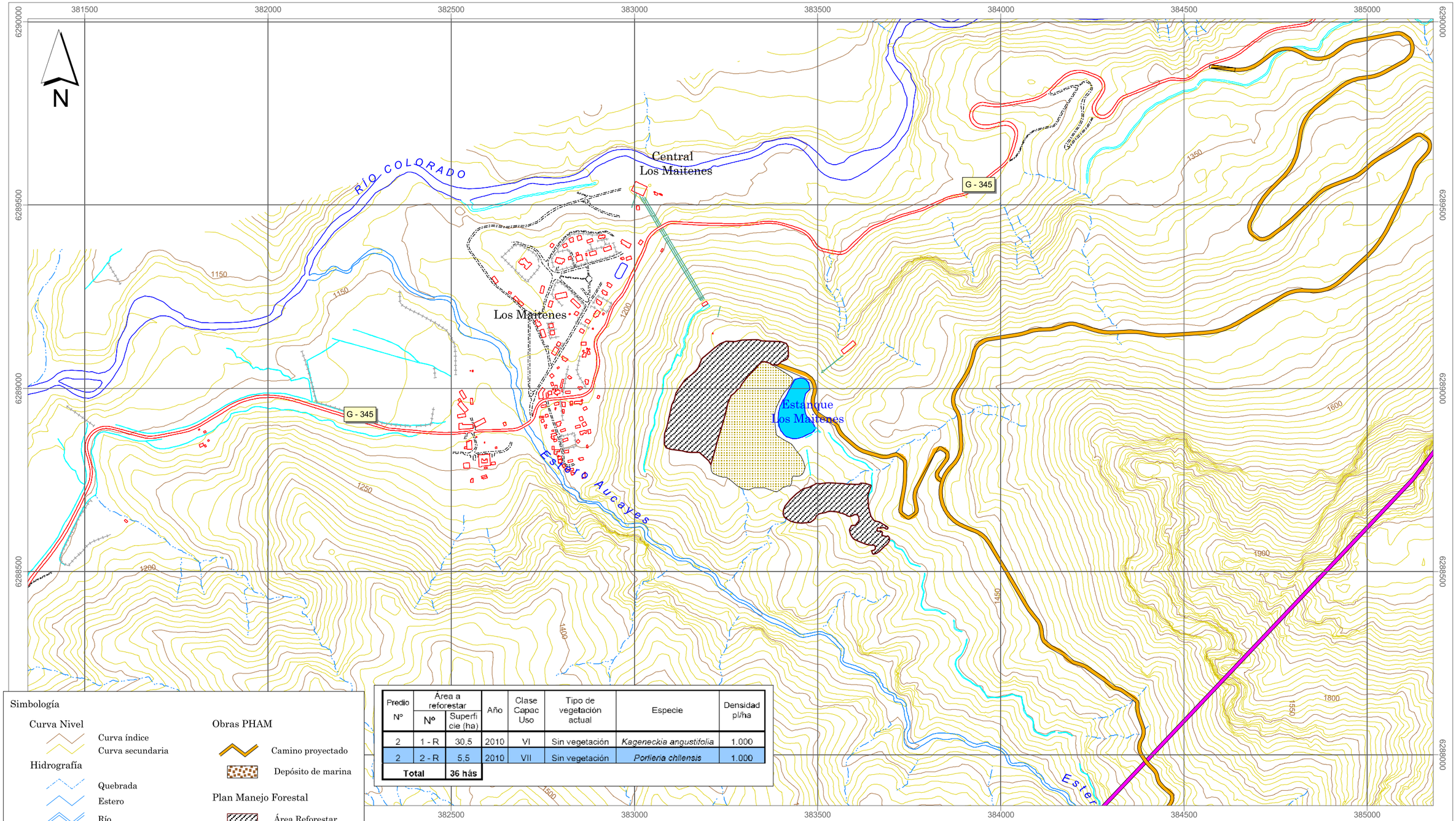
ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
ÁREA REFORESTAR
SECTOR ESTERO EL DURAZNO

ESCALA:	FECHA:	LÁMINA:	REV:
1:75.000	MAYO 2008	3a	0

PREPARADO POR: ARCADIS GEOTECNICA

PREPARADO PARA: Gener una empresa AES



Predio N°	Área a reforestar Nº	Superficie (ha)	Año	Clase Capac Uso	Tipo de vegetación actual	Especie	Densidad pl/ha
2	1 - R	30,5	2010	VI	Sin vegetación	*Kageneckia angustifolia*	1.000
2	2 - R	5,5	2010	VII	Sin vegetación	*Porlieria chilensis*	1.000
Total		**36 hás**					

Simbología

Curva Nivel
- Curva índice
- Curva secundaria

Hidrografía
- Quebrada
- Estero
- Río
- Canal existente
- Laguna

Vialidad
- Carretera
- Camino no pavimentado

Obras PHAM
- Camino proyectado
- Depósito de marina

Plan Manejo Forestal
- Área Reforestar

200 0 200 400 m.

Escala 1:10.000
Coordeandas UTM en Metros
Datum PSAD 56 - Huso 19
Elipsoide Internacional de 1924

Fuente Mapa Base: Levantamiento topográfico laser aeotransportado, Geoexploraciones S.A. Escala 1:5.000, Marzo - Abril 2006
Fuente Vegetación: Levantamiento de campo, Arcadis Geotécnica, 2006 - 2007

ESTUDIO DE IMPACTO AMBIENTAL
PROYECTO HIDROELÉCTRICO ALTO MAIPO

TÍTULO
ÁREA REFORESTAR - SECTOR AUCAYES BAJO

ESCALA:	FECHA:	LÁMINA:	REV:
1:10.000	MAYO 2008	3b	0

PREPARADO POR: ARCADIS GEOTECNICA
PREPARADO PARA: Gener una compañía AES

cartografia\3176\sig\apr\ADENDA Nº 2 DIA 2007\lámina 1.apr