

Fig 1

Fig 2: COST FORCE ANALYSIS

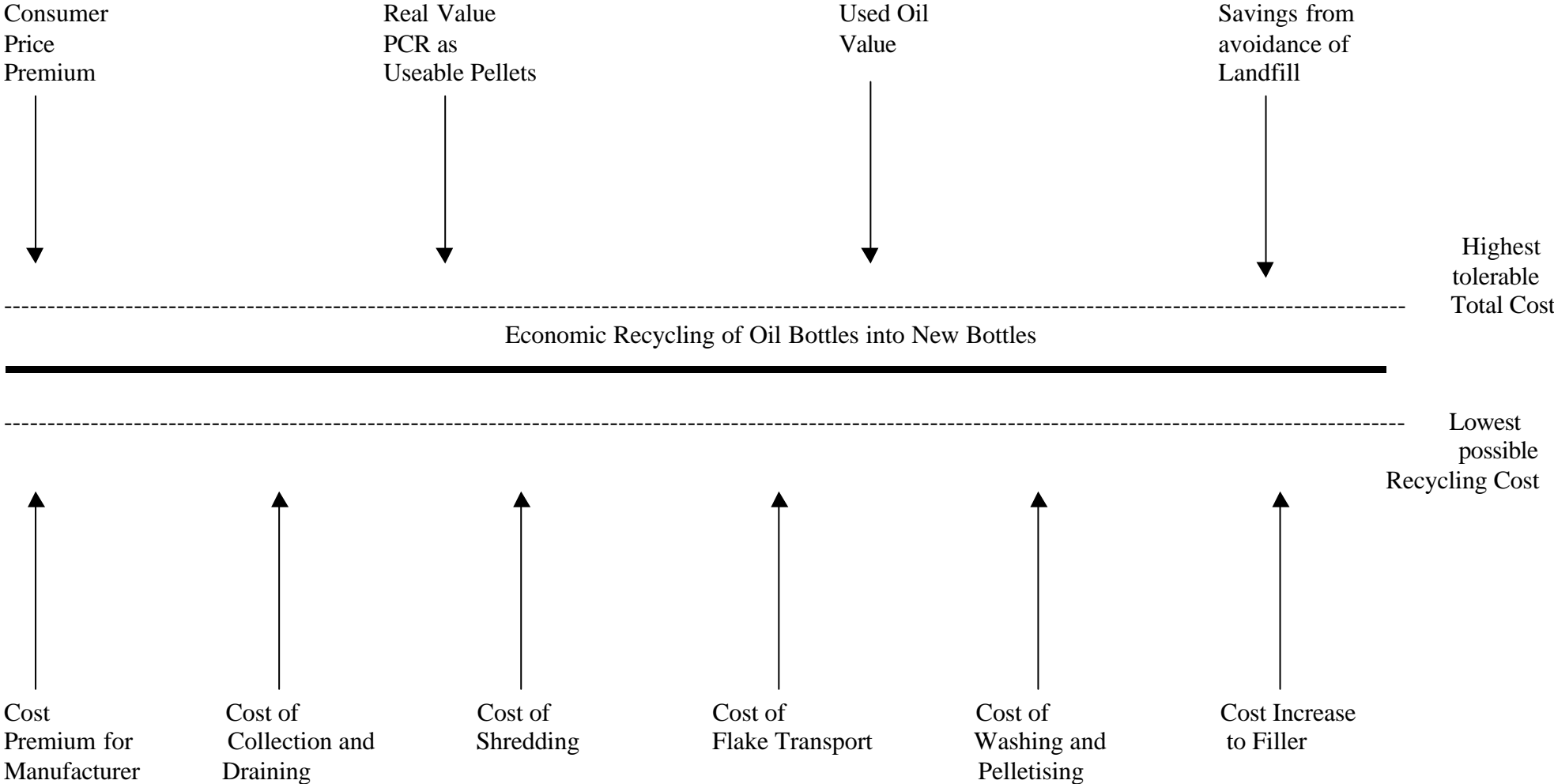


Figure 3: Preferred Option

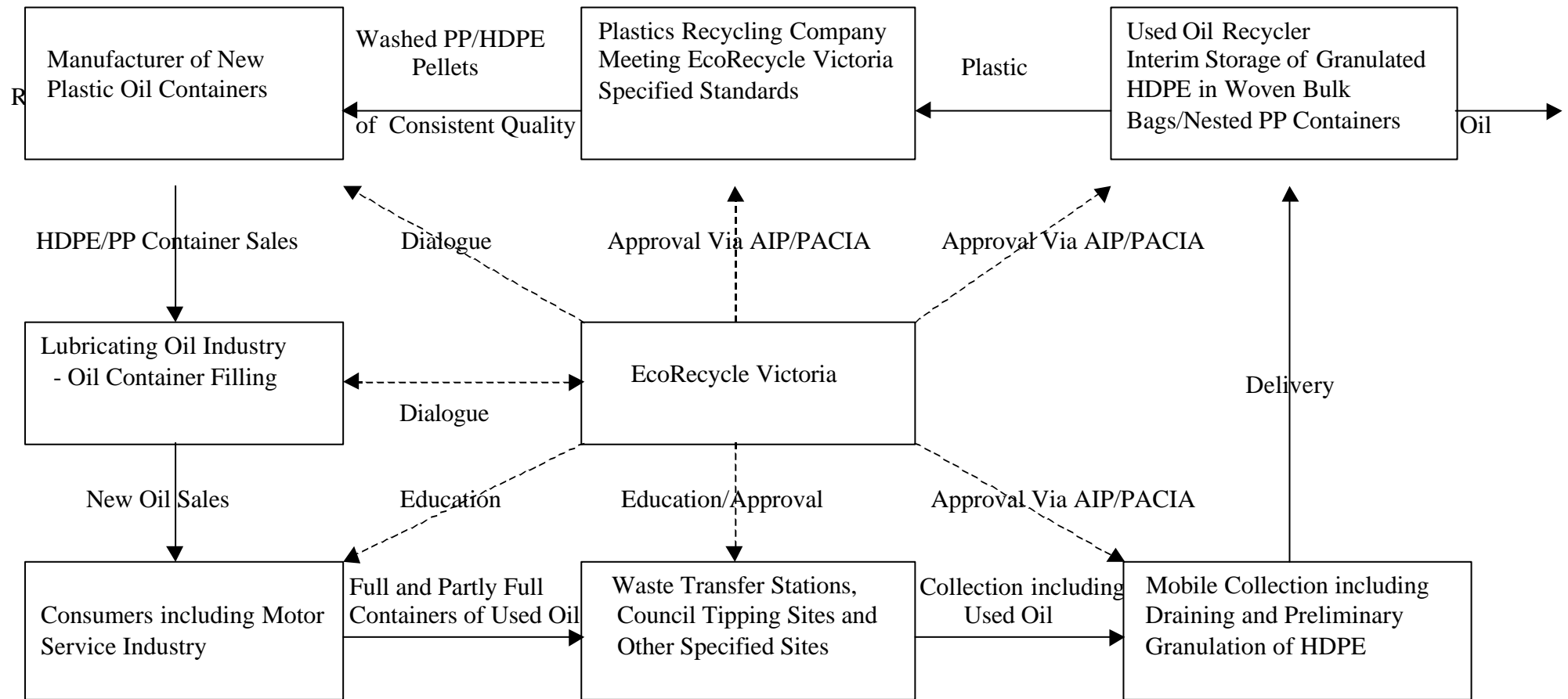


Figure 4: HDPE results

	Free Oil (%ww)	Total Oil (%ww) Excludes “Extractables” in Virgin Polymer	Incorporated Oil (%ww) Excludes “Extractables” in Virgin Polymer	MFI (g/10min) @ 190°C, 2.16kg
#1 Granulated, Unwashed	10.6	11.7	1.1	
#2 Granulated, Unwashed	7.8	8.5	0.7	
#3 Washed Flake	1.3	2.7	1.4	
#4 Washed Pellets – Run 1	0.2	2.4	2.2	0.39
#5 Washed Pellets – Run 2	0.2	2.2	2.0	0.39
#6 Re-Extruded Washed Pellets	0.1	2.9	2.8	0.49
#7 Re-Extruded Washed Pellets	0.1	1.1	1.0	0.45
Control (Kemcor HD2845)	<0.1	1.3*	1.3*	0.14
* Not necessarily automotive lubricating oil types				

- Note #1 Granulated by TP Recyclers after initial on-site draining (virgin oil containers ex Valvoline)
- #2 Mobile granulation by Tilkey & Co of pre-drained mixed origin used oil containers – an estimated 2% oil loss occurred during this granulation procedure prior to the laboratory test.
- #3-5 Ex TP Recyclers equipment.
- #6-7 Washed pellets ex TP Recyclers atmospheric vented extruder were re-extruded (two samples taken during this production run) using Visy Plastics’ vacuum vented equipment.
- Note: Variation in oil content between these two samples, whilst not affecting the conclusions of this Report, emphasises the importance of homogeneity in any subsequent full-scale recycling operations.
- Control The grade selected for laboratory control comparison may not be identical to the various grades specifically used by the manufacturers of the of oil containers recycled during these trials.

TESTS COURTESY OF SOUTHCORP PACKAGING