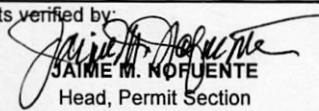
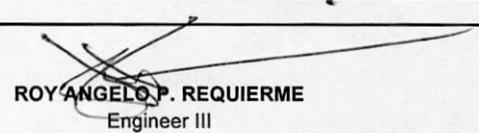
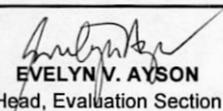
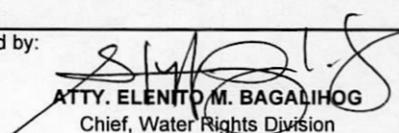


Republic of the Philippines National Water Resources Board 8th Floor NIA Building, EDSA, Quezon City		WATER PERMIT APPLICATION EVALUATION SHEET Groundwater Source																													
		Water Permit Application No. 13693	Control No. 20053																												
		Date Filed: 11-04-93	At: NWRB																												
1. Name and Address of Applicant: HOUSEHOLD DEVELOPMENT CORPORATION, Camella Center, Alabang-Zapote Rd, Talon, Las Pinas		2. Location of Source: <input checked="" type="checkbox"/> Well <input type="checkbox"/> Spring (Barangay, Municipality, Province) Pulang Lupa, La Pinas																													
3. Location of Diversion Point a. Map Sheet No. b. Latitude: 14-27-32.50 c. Longitude: 120-58-57																															
4. Checklist of documents and data requirements: a. <input checked="" type="checkbox"/> Ownership/right to land established b. <input type="checkbox"/> Brief description of proposed project/development c. <input checked="" type="checkbox"/> Location plan of water source & pt. of diversion (1:50,000 scale) d. <input checked="" type="checkbox"/> Location plan of area to be developed indicating the layout of proposed work e. <input checked="" type="checkbox"/> SEC Registration with Articles of Incorporation and Certification from the Corporate Secretary as to the present capital structure or DTI f. <input checked="" type="checkbox"/> Investigation Report g. <input checked="" type="checkbox"/> Water analysis/Bacteriological test (for Domestic use only) h. <input checked="" type="checkbox"/> Pumping test results/Well log data i. <input checked="" type="checkbox"/> Clearances <input type="checkbox"/> NIA- PIO, CO <input type="checkbox"/> DPWH - DE, <input type="checkbox"/> DENR (for all uses that affect water quality) <input type="checkbox"/> ECC <input type="checkbox"/> MWSS (within its franchise area only) <input type="checkbox"/> NPC (for hydropower generation only) <input type="checkbox"/> WD (within its franchise area only) j. <input type="checkbox"/> Others :																															
5. Purpose: (Check as appropriate) a. <input checked="" type="checkbox"/> Domestic and Municipal Use b. <input type="checkbox"/> Irrigation c. <input type="checkbox"/> Power Generation d. <input type="checkbox"/> Fisheries e. <input type="checkbox"/> Livestock Raising f. <input type="checkbox"/> Industrial use, and g. <input type="checkbox"/> Other uses		6. Related Data: a. Area to be irrigated : <u>NA</u> hectares (for irrigation use) Crop Type : <u>NA</u> (for irrigation use) Water Duty : <u>0.0029</u> lps/person b. Population to be served by system : <u>1722</u> persons (for domestic use) c. Rated Capacity of Power Plant : <u>NA</u> kw (for hydropower) d. Fishpond area : <u>NA</u> ha. (for fishery) e. Livestock population to be served : <u>NA</u> heads (for livestock raising) f. Annual production _____ (product) : <u>NA</u> tons (for industrial)																													
7. Water Availability a. Existing MWSS wells within 0.5 km. radius																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">MWSS Well No.</th> <th style="width:50%;">NAME</th> <th style="width:30%;">Lateral Distance (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		MWSS Well No.	NAME	Lateral Distance (m)										<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Water Permit No.</th> <th style="width:30%;">NAME</th> <th style="width:30%;">Amt. of water granted (lps)</th> <th style="width:20%;">Lateral Dist. (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Water Permit No.	NAME	Amt. of water granted (lps)	Lateral Dist. (m)												
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c. Pending Application within _____ km. Radius		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Water Permit No.</th> <th style="width:30%;">NAME</th> <th style="width:30%;">Amt. of water applied for (lps)</th> <th style="width:20%;">Lateral Dist. (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Water Permit No.	NAME	Amt. of water applied for (lps)	Lateral Dist. (m)																								
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8. Hydrogeological data (Sub-area no.) SA I Static Water Level: 27.43 m Transmissivity: _____ m2/d Specific Capacity: lps/m Mining Yield: 1506.83 lps. Safe Yield: 862.03 + 150.682 = 1012.712 lps																															
9. Computation for beneficial use requirement Water Requirement = Pop to be served x Water Duty = 1722 x 0.0029 = 5.00 lps		10. Discharge of the Well: 7.43 lps																													
11. Prior appropriation: (lps) 1996.70		12. Water available for appropriation:																													
13. Amount of water applied for (lps): 4.106 lps		14. Amt. of water recommended for approval: 4.106 lps																													
15. Remarks: (Amount recommended for approval must be equal to either the amount of water available for appropriation, beneficial use requirement, the amount of water applied for or well capacity, whichever is the least.) <p style="text-align: center;">Per application amount of water applied for is 4.106 lps, hence the same is recommended for approval.. <i>Project is located on area where there is no MWSS connection yet.</i></p>																															
16. <input type="checkbox"/> CPC is required																															
Documents verified by:  JAIME M. NOFUENTE Head, Permit Section		Evaluated by:  ROY ANGELO P. REQUIERME Engineer III																													
Checked by:  EVELYN V. AYSON Head, Evaluation Section		Submitted by:  ATTY. ELENITO M. BAGALIHOG Chief, Water Rights Division																													

PUMPING TEST DATA

SUBDIVISION: LASPINAS 4						
Duration : 24 hrs.		From : 5:00p.m.		Motor : 15hp		O.P. : 28 psi.
Date : Oct.10 - 11		To : 5:00p.m.		Pump : PN 63 - 8		D.D. : 26 ft.
Date	HOUR	Time after start/stop of pump	water level	DISCHARGE MEASUREMENTS		REMARKS
				Volumetric Method		
				DISCHARGE CAPACITY		Cap. : 89gpm
				GPM	LPS	P.W.L. : 116 ft.
						P.S. : 240 ft.
		(min.)	(ft.)			
Oct.10'97	5:00a.m.	0	90			
Oct.10'97		2				
Oct.10'97		4				
Oct.10'97		6				
Oct.10'97		8				
Oct.10'97	5:10	10				
Oct.10'97	5:15	15				
Oct.10'97	5:20	20				
Oct.10'97	5:25	25				
Oct.10'97	5:30	30				
Oct.10'97	5:35	35				
Oct.10'97	5:40	40				
Oct.10'97	5:45	45				
Oct.10'97	5:50	50				
Oct.10'97	6:00	60				
Oct.10'97	6:10	70				
Oct.10'97	6:20	80				
Oct.10'97	6:30	90				
Oct.10'97	6:40	100				
Oct.10'97	6:50	110				
Oct.10'97	7:00	120				
Oct.10'97	7:15	135				
Oct.10'97	7:30	150				
Oct.10'97	7:45	165				
Oct.10'97	8:00	180				
Oct.10'97	8:20	200				
Oct.10'97	8:40	220				
Oct.10'97	9:00	240				
Oct.10'97	9:20	260				
Oct.10'97	9:40	280				
Oct.10'97	10:00	300	116	89	5.6	
Oct.10'97	10:30	330	116	89	5.6	
Oct.10'97	11:00	360	116	89	5.6	
Oct.10'97	11:30	390	116	89	5.6	
Oct.11'97	12:00	420	116	89	5.6	
Oct.11'97	12:30	450	116	89	5.6	
Oct.11'97	1:00	480	116	89	5.6	
Oct.11'97	2:00	540	116	89	5.6	
Oct.11'97	3:00	600	116	89	5.6	
Oct.11'97	4:00	660	116	89	5.6	
Oct.11'97	5:00	720	116	89	5.6	
Oct.11'97	6:00	780	116	89	5.6	
Oct.11'97	7:00	840	116	89	5.6	
Oct.11'97	8:00	900	116	89	5.6	
Oct.11'97	9:00	960	116	89	5.6	
Oct.11'97	10:00	1020	116	89	5.6	
Oct.11'97	11:00	1080	116	89	5.6	
Oct.11'97	12:00	1140	116	89	5.6	
Oct.11'97	1:00	1200	116	89	5.6	
Oct.11'97	2:00	1260	116	89	5.6	
Oct.11'97	3:00	1320	116	89	5.6	
Oct.11'97	4:00	1380	116	89	5.6	
Oct.11'97	5:00	1440	116	89	5.6	

PUMPING TEST DATA

DATE	HOUR	Time after start/stop of pump	water level	DIACHARGE MEASUREMENTS		REMARKS
				Volumetric Method		
				DISCHARGE CAPACITY		
		(min.)		GPM	LPS	
	6:00	780	298	118		
	7:00	840	298	118		
	8:00	900	298	118		
	9:00	960	298	118		
	10:00	1020	298	118		
	11:00	1080	298	118		
	12:00	1140	298	118		
	1:00	1200	298	118		
	2:00	1260	298	118		
	3:00	1320	298	118		
	4:00	1380	298	118		
	5:00	1440	298	118		