DATA 3 HYDROGEOLOGICAL SURVEY

Table	Existing Well Survey		Date	2007 June 27
Existing well name	P1 Dug Well 1		Owner	CPC & Dr. Ng Van Loi
Province Name	Phu Yen		Latitude	13.29807 °N
Commune Name	Xuan Phuoc		Longitude	109.06469 °E
	Date of installation			2002
	Diameter (m)			1.00
	Depth (m)			9.00
	Height of well collar	(G.L+m)		0.07
Specification of	Type of pumping			Pump
existing well	Casing length (m)			8.93
	Screen depth (m)			No screen
	Geology		sand & fi	ine gravel (weatered rock)
	Aquifer		sand & fi	ine gravel (weatered rock)
	Static groundwater lev	vel (m)		4.75
	Daily volume		2 m ³	
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny	No depletion	
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	Drinking and daily activity	
Water usage	2) Frequency of use			
	3) Number of users			C & one household
Water quality	Tmeperature (°C)	29.7	pН	6.85
measurement	Conductivity (mS/m)	49.6	Salinity(%)	0.02
Availability for water	Well structure		not available (concrete lid with key)	
level monitoring	Water usage condition		daily	
Related feature	Geological feature		sand	
Related leature	Topographical feature		flat plain with gentle slope	
Sanitary condition	Positional relationship livestock, toilet and dr			No livestock

1. This si a deepest and water richest well.		
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Table	Existing Well Surv	ey	Date	2007 June 28	
Existing well name	P2 Dug Well 1		Owner	An Dinh School	
Province Name	Phu Yen		Latitude	13.31715 °N	
Commune Name	An Dinh		Longitude	109.18502 °E	
	Date of installation			2004	
	Diameter (m)			1.00	
	Depth (m)			6	
	Height of well collar	(G.L+m)		0.96	
Specification of	Type of pumping			bucket	
existing well	Casing length (m)			5.04	
	Screen depth (m)			No screen	
	Geology			mud and sand	
	Aquifer			sand	
	Static groundwater lev	vel (m)		3.90	
	Daily volume		3 m^3		
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	Depletion period, if ar	ny			
	Water borne disease	unknown	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other (fluoide)				
	1) Purpose and quantit	ty of use	Drinking and water to garden		
Water usage	2) Frequency of use	-	daily		
	3) Number of users				
Water quality	Tmeperature (°C)	28.1	pН	6.81	
measurement	Conductivity (mS/m)	53.8	Salinity(%)	0.03	
Availability for water	Well structure		available		
level monitoring	Water usage condition		daily		
Related feature	Geological feature		sediment		
Keiaicu icaluic	Topographical feature			falt	
Sanitary condition	Positional relationship livestock, toilet and dr			No problem	

Table	Existing Well Surv	ey	Date	2007 June 29	
Existing well name	P3 Dug Well 3		Owner	Tran Ngoc Quang	
Province Name	Phu Yen		Latitude	13.18991 °N	
Commune Name	An Tho		Longitude	109.23939 °E	
	Date of installation			2004	
	Diameter (m)			1.16	
	Depth (m)			4.80	
	Height of well collar	(G.L+m)		0.80	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			4.00	
	Screen depth (m)			No screen	
	Geology		S	and, gravel, rocks	
	Aquifer			rocks	
	Static groundwater le	vel (m)		2.90	
	Daily volume			3 m^3	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if a	ny		No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinl	king and daily activity	
Water usage	2) Frequency of use	-			
	3) Number of users		about 2	20 people and livestocks	
Water quality	Tmeperature (°C)	28.3	pН	7.09	
measurement	Conductivity (mS/m)	63.2	Salinity(%)	0.03	
Availability for water	Well structure			available	
level monitoring	Water usage condition			daily	
Dalatad faatuma	Geological feature		talus deposit or weathered rock		
Related feature	Topographical feature			flat	
Sanitary condition	Positional relationship livestock, toilet and d		(Cattle and chicken	

1. The owner was not able to dig deeper	, because the bottor	n of the well w	vas hard weather	ed rock.

Table	Existing Well Survey		Date	2007 July 2	
Existing well name	P4 Drilled Well 2		Owner	Pagoda	
Province Name	Phu Yen		Latitude	13.20276 °N	
Commune Name	An My		Longitude	109.27615 °E	
	Date of installation			2007 April	
	Diameter (m)			0.11 (PVC)	
	Depth (m)			80.00	
	Height of well collar	(G.L+m)		0.13	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			78	
	Screen depth (m)			2	
	Geology			sand and rock	
	Aquifer			rock	
	Static groundwater le	vel (m)			
	Daily volume	· · · · · · · · · · · · · · · · · · ·		unknown	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if a	ny	No	No depletion in this year	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind	kind	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Dri	Drinking, daily activity	
Water usage	2) Frequency of use				
	3) Number of users		5	people and garden	
Water quality	Tmeperature (°C)	28.1	pН	7.64	
measurement	Conductivity (mS/m)	345	Salinity(%)	0.18	
Availability for water	Well structure		Not availab	Not available for water level monitoring	
level monitoring	Water usage condition			daily	
Dalatad faatuma	Geological feature			sand and rock	
Related feature	Topographical feature			flat (flood plain)	
Sanitary condition	Positional relationship livestock, toilet and de			No problem	

. This is the deepest well in the commune.	

Table	Existing Well Survey		Date	2007 July 3	
Existing well name	P5 Test Drilled Well 2		Owner	Public	
Province Name	Phu Yen		Latitude	13.17017 °N	
Commune Name	Son Phuoc		Longitude	108.95650 °E	
	Date of installation			No information	
	Diameter (m)			No information	
	Depth (m)			No information	
	Height of well collar (G.L+m)		No information	
Specification of	Type of pumping	<u> </u>	No equipmen	t for drawing up groundwater	
existing well	Casing length (m)			No information	
	Screen depth (m)			No information	
	Geology			No information	
	Aquifer			No information	
	Static groundwater leve	el (m)		No information	
	Daily volume			No information	
General condition of	Monthly volume			No information	
pumping volume from	Yearly volume			No information	
interviewee	Depletion period, if any	y		No information	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quantity	y of use			
Water usage	2) Frequency of use				
***	3) Number of users				
Water quality	Tmeperature (°C)		pH		
measurement	Conductivity (mS/m)		Salinity(%)		
•					
level monitoring	Water usage condition				
Related feature	Geological feature				
	Topographical feature				
Sanitary condition	Positional relationship				
J J	livestock, toilet and dra	amage			

Table	Existing Well Surv	vey	Date	2007 July 4	
Existing well name	P6 Dug Well 1		Owner	Thai Hong Tan	
Province Name	Phu Yen		Latitude	13.09131 °N	
Commune Name	Ea Cha Rang		Longitude	108.88815 °E	
	Date of installation		_	2004	
	Diameter (m)			1.10	
	Depth (m)			12.40	
	Height of well collar	(G.L+m)		0.70	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			11.70	
	Screen depth (m)			No screen	
	Geology			sand and rock	
	Aquifer			sand and rock	
	Static groundwater le	vel (m)		7.01	
	Daily volume			3 m^3	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if a	ny		No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Drinl	Drinking and daily activity	
Water usage	2) Frequency of use				
	3) Number of users			10 people	
Water quality	Tmeperature (°C)	27.1	pН	7.68	
measurement	Conductivity (mS/m)	106.2	Salinity(%)	0.05	
Availability for water	Well structure		available		
level monitoring	Water usage condition		daily		
Dalata d faatuus	Geological feature		sand and volcanic rock		
Related feature	Topographical feature		flat		
Sanitary condition	Positional relationship livestock, toilet and d		bad: no pr	bad: no prevetion against rain surface water intrusion	

1. The well is quantity richest and deepest dug well in the commune.					

Table	Existing Well Survey		Date	2007 July 5	
Existing well name	P7 Dug Well 1		Owner	Oi Sa (Public Well)	
Province Name	Phu Yen		Latitude	13.09665 °N	
Commune Name	Suoi Bac		Longitude	108.95118 °E	
	Date of installation			2000	
	Diameter (m)			1.15	
	Depth (m)			9.40	
	Height of well collar	(G.L+m)		0.93	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			8.47	
	Screen depth (m)			No screen	
	Geology			unknown	
	Aquifer			unknown	
	Static groundwater lev	vel (m)		7.12	
	Daily volume			unknown	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if an	ıy	No depletion		
	1) Water borne disease	unknown	kind		
General condition of	2) Salinization	unknown			
water quality from	3) Metalic taste	unknown	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use		unknown	
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	27.3	pН	7.49	
measurement	Conductivity (mS/m)	125.7	Salinity(%)	0.06	
Availability for water	Well structure		available		
level monitoring	Water usage condition		daily		
Related feature	Geological feature		unknown		
Keraieu realure	Topographical feature			flat	
Sanitary condition	Positional relationship livestock, toilet and dr			No problem	

The well is quantity richest and has highest water quality.	
The well is quality fichest and has ingliest water quality.	ŀ
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Table	Existing Well Survey		Date	2007 July 7	
Existing well name	P8 Dug Well 1		Owner	Nguyen Van Ha	
Province Name	Phu Yen	Phu Yen		12.99002 °N	
Commune Name	Son Thanh Dong		Longitude	109.09206 °E	
	Date of installation			2000	
	Diameter (m)			1.40	
	Depth (m)			14.80	
	Height of well collar	(G.L+m)		0.06	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			14.74	
	Screen depth (m)			No screen	
	Geology			sand	
	Aquifer			sand	
	Static groundwater lev	vel (m)		13.05	
	Daily volume			unknown	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if ar	ıy			
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Drink	king and daily activity	
Water usage	2) Frequency of use				
	3) Number of users		1 h	ousehold (5 people)	
Water quality	Tmeperature (°C)	28.5	рН	7.36	
measurement	Conductivity (mS/m)	20.3	Salinity(%)	0.01	
Availability for water	Well structure			available	
level monitoring	Water usage condition			daily	
Related feature	Geological feature		soil		
Notateu teature	Topographical feature			flat	
Sanitary condition	Positional relationship livestock, toilet and dr			No problem	

1. The well has hiigh water quality.		

Table	Existing Well Survey		Date	2007 June 25	
Existing well name	K1 Dug Well 4 (5)		Owner	Public	
Province Name	Khanh Hoa	Khanh Hoa		12.01308°N	
Commune Name	Cam An Bac		Longitude	109.11587°E	
	Date of installation			2005	
	Diameter (m)			1.13	
	Depth (m)		difficullt to	measure for muddy bottom	
	Height of well collar ((G.L+m)		0.70	
Specification of	Type of pumping			Bucket	
existing well	Casing length (m)				
	Screen depth (m)			No screen	
	Geology			sand & gravel	
	Aquifer			sand & gravel	
	Static groundwater lev	el (m)		6.16	
	Daily volume			unknown	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if an	y			
	1) Water borne disease	No	kind		
General condition of	2) Salinization	Yes		little	
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quantit	y of use	\	Washing and bath	
Water usage	2) Frequency of use	-		-	
	3) Number of users		3 house	eholds, about 15 people	
Water quality	Tmeperature (°C)	30.1	рН	6.80	
measurement	Conductivity (mS/m)	210	Salinity(%)	0.10	
Availability for water	Well structure			No problem	
level monitoring	Water usage condition			Daily	
D-1-4-1 f4	Geological feature		sand & gravel		
Related feature	Topographical feature			flat	
Sanitary condition	Positional relationship livestock, toilet and dra				
-	investock, tonet and dr	amage			

^{1.} There is a muddy sediment at the well bottom.

^{2.} There are garbage on the surface of the groundwater in the well.

Table	Existing Well Survey		Date	2007 June 26	
Existing well name	K2 Dug Well 3	K2 Dug Well 3		Dao Dinh Dung	
Province Name	Khanh Hoa	Khanh Hoa		12.02901 °N	
Commune Name	Cam Hiep Nam	Cam Hiep Nam		109.12687 °E	
	Date of installation			1992	
	Diameter (m)			0.90	
	Depth (m)			3.82	
	Height of well collar	(G.L+m)		0.60	
Specification of	Type of pumping			Bucket	
existing well	Casing length (m)			3.22	
	Screen depth (m)			No screen	
	Geology			sand	
	Aquifer			sand	
	Static groundwater lev	vel (m)		2.40	
	Daily volume			1 m ³	
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	Depletion period, if ar	ny		No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Drinking, co	oking, washing, bath	
Water usage	2) Frequency of use			daily	
	3) Number of users			one household	
Water quality	Tmeperature (°C)	28.5	pН	6.04	
measurement	Conductivity (mS/m)	39.4	Salinity(%)	0.02	
Availability for water	Well structure			No problem	
level monitoring	Water usage condition			daily use	
Deleted feeture	Geological feature			sediment	
Related feature	Topographical feature			flat	
Sanitary condition	Positional relationship livestock, toilet and dr			No problem	

^{1.} The groundwater has fluoride problem.

^{2.} The owner use a kind of filter to remve fluoride. The filter consist of coal, gravel and small rocks. They believe the filter can remove fluoride.

Table	Existing Well Surv	ey	Date	2007 July 9
Existing well name	K3 Dug Well 4	K3 Dug Well 4		Le Ngoc Bich
Province Name	Khanh Hoa		Latitude	12.09942 °N
Commune Name	Cam Hai Tay		Longitude	109.15484 °E
	Date of installation			1989
	Diameter (m)			0.95
	Depth (m)			4.15
	Height of well collar	(G.L+m)		0.60
Specification of	Type of pumping			pump
existing well	Casing length (m)			3.55
	Screen depth (m)			No screen
	Geology			coarse sand
	Aquifer			coarse sand
	Static groundwater lev	vel (m)		1.28
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny		
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	Yes		
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	washing, every day's activity	
Water usage	2) Frequency of use			
	3) Number of users			
Water quality	Tmeperature (°C)	29.8	pН	6.57
measurement	Conductivity (mS/m)	141.5	Salinity(%)	0.07
Availability for water	Well structure			available
level monitoring	Water usage condition		daliy use	
Deleted feeture	Geological feature		sand	
Related feature	Topographical feature	;		flat
Sanitary condition	Positional relationship livestock, toilet and de			not protected

^{1.} In this area, three wells were drilled. The maximun depth reached 60 m, howver, there were insufficient groundwater.

Table	Existing Well Survey		Date	2007 July 11
Existing well name	N-1 Dug Well 13		Owner	Nguyen Hiep
Province Name	Ninh Thuan	Ninh Thuan		11°36.050 N
Commune Name	Nhon Hai	Nhon Hai		109°06.445 E
	Date of installation	Date of installation		•
	Diameter (m)			7.00
	Depth (m)			6.20
	Height of well collar	(G.L+m)	he top of we	ll is under 1 m from the ground
Specification of	Type of pumping			pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			
	Static groundwater lev	vel (m)		5.10
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny		
	1) Water borne disease	No	kind	I
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking	
Water usage	2) Frequency of use			
	3) Number of users			
Water quality	Tmeperature (°C)	31.1	pН	8.73
measurement	Conductivity (mS/m) 56.6		Salinity(%)	0.03
Availability for water	Well structure		no problem	
level monitoring	Water usage condition			
Related feature	Geological feature			
Kerateu reature	Topographical feature		2 km from th	ne sea coast
Sanitary condition	Positional relationship livestock, toilet and dr		no problem	

Table	Existing Well Survey		Date	2007 July 12	
Existing well name	N-2 Dug Well 2		Owner	Huu Hieu Trach	
Province Name	Ninh Thuan		Latitude	11°48.099 N	
Commune Name	Cong Hai		Longitude	109°06.100 E	
	Date of installation				
	Diameter (m)			1.00	
	Depth (m)			6.38	
	Height of well collar	(G.L+m)		0.65	
Specification of	Type of pumping	,		pump	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer				
	Static groundwater level (m)			3.46	
	Daily volume	, ,		much water	
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	Depletion period, if an	ny		no depletion	
	Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	Yes	kind	weak	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking		
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	30.7	pН	6.99	
measurement	Conductivity (mS/m)	102.4	Salinity(%)	0.05	
Availability for water	Well structure		no problem		
level monitoring	Water usage condition				
Related feature	Geological feature				
Refated feature	Topographical feature	:	low land		
Sanitary condition	Positional relationship		no problem		
Samary Condition	livestock, toilet and di	rainage	no problem	no problem	

Table	Existing Well Survey		Date	2007 July 10	
Existing well name	N-3 Dug Well 5	N-3 Dug Well 5		Mang Dung	
Province Name	Ninh Thuan		Latitude	11°39.373 N	
Commune Name	Bac Son		Longitude	109°06.025 E	
	Date of installation			•	
	Diameter (m)			0.80	
	Depth (m)			7.75	
	Height of well collar	(G.L+m)		0.56	
Specification of	Type of pumping	<u> </u>		pump	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer			sedimentary	
	Static groundwater lev	vel (m)		4.50	
	Daily volume				
General condition of	Monthly volume	•			
pumping volume from	Yearly volume				
interviewee	Depletion period, if ar	ıy	In dry season,	In dry season, water remains 1.5 m from the bottom	
	1) Water borne disease	No	kind	1	
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind	d d	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking		
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	30.5	pН	7.20	
measurement	Conductivity (mS/m)	56.7	Salinity(%)	0.03	
Availability for water	Well structure		no problem		
level monitoring	Water usage condition				
Dalatad faatuma	Geological feature				
Related feature	Topographical feature	;	small basin		
Sanitary condition	Positional relationship livestock, toilet and dr		no problem		

^{1.} The public water supply system is already provided in Xom Bang village but of shortage in dry season.

^{2.} In this village, they use the public water supply system and dug wells.

Table	Existing Well Survey		Date	2007 July 6		
Existing well name	N-4 Dug Well 5		Owner	Trinh Van Nuo (Restaurant)		
Province Name	Ninh Thuan		Latitude	11°24.092 N		
Commune Name	Phouc Minh		Longitude	108°53.666 E		
	Date of installation		-			
	Diameter (m)			2.23		
	Depth (m)			4.90		
	Height of well collar	(G.L+m)		0.27		
Specification of	Type of pumping			pump		
existing well	Casing length (m)					
	Screen depth (m)					
	Geology					
	Aquifer					
	Static groundwater lev	vel (m)		0.98		
	Daily volume					
General condition of	Monthly volume					
pumping volume from interviewee	Yearly volume					
interviewee	Depletion period, if an	ıy	no depletion, ev	no depletion, even in dry season they get much water		
	1) Water borne disease	No	kind			
General condition of	2) Salinization	No				
water quality from	3) Metalic taste	No	kind			
interviewee	4) the other: dirty					
	1) Purpose and quantit	ty of use	drinking			
Water usage	2) Frequency of use					
	3) Number of users					
Water quality	Tmeperature (°C)	29.9	pН	6.75		
measurement	Conductivity (mS/m)	95.6	Salinity(%)	0.05		
Availability for water	Well structure		no problem	no problem		
level monitoring	Water usage condition					
Related feature	Geological feature					
Related leature	Topographical feature		in salt fields			
Sanitary condition	Positional relationship livestock, toilet and dr		no problem			

^{1.} The householder is selling the water of this well for drinking water.

Table	Existing Well Survey		Date	2007 July 9	
Existing well name	N-5 Dug Well 7		Owner	Nguyen Hoang Nhat	
Province Name	Ninh Thuan		Latitude	11°31.393 N	
Commune Name	Phouc Hai		Longitude	108°57.786 E	
	Date of installation				
	Diameter (m)			0.72	
	Depth (m)			3.49	
	Height of well collar	(G.L+m)		0.29	
Specification of	Type of pumping			bucket	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer				
	Static groundwater lev	vel (m)		2.44	
	Daily volume				
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if an	ny			
	1) Water borne disease	No	kind		
General condition of	2) Salinization	Yes	strong		
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Not drinking		
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	30.5	pН	7.37	
measurement	Conductivity (mS/m)	401	Salinity(%)	0.21	
Availability for water	Well structure		no problem	no problem	
level monitoring	Water usage condition				
D-1-4-1 f4	Geological feature				
Related feature	Topographical feature	;	on the sand h	nill	
Sanitary condition	Positional relationship livestock, toilet and dr		no problem		

^{1.} This well is located in Tu tam 1 village.

Table	Existing Well Survey		Date	2007 July 5	
Existing well name	N-6 Dug Well 1		Owner	Cultural house in Tu Thien	
Province Name	Ninh Thuan		Latitude	11°28.032 N	
Commune Name	Phuoc Dinh		Longitude	109°00.617 E	
	Date of installation				
	Diameter (m)			0.80	
	Depth (m)				
	Height of well collar	(G.L+m)		0.63	
Specification of	Type of pumping	()			
existing well	Casing length (m)				
, and the second	Screen depth (m)				
	Geology		+		
	Aquifer				
	Static groundwater lev	vel (m)		4.55	
	Daily volume	(CI (III)		1.00	
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	-		T 1	. 1.41 C 41 1 4	
	Depletion period, if ar			vater remains a little from the bottom.	
General condition of	1) Water borne disease 2) Salinization	unknown unknown	kind		
water quality from	3) Metalic taste	unknown	kind		
interviewee	4) the other	unknown	Kind	1	
	1) Purpose and quanti	ty of use			
Water usage	2) Frequency of use				
	3) Number of users			T	
Water quality	Tmeperature (°C)	29.4	pH	8.47	
measurement	Conductivity (mS/m)	105.1	Salinity(%)	0.05	
Availability for water	Well structure		no problem		
level monitoring	Water usage condition				
Related feature	Geological feature				
Related Teature	Topographical feature				
Sanitary condition	Positional relationship		no problem		
Samtary Colluition	livestock, toilet and di	ainage			

Table	Existing Well Surve	y	Date	2007 July 3
Existing well name	B-1 Dug Well 1		Owner	Tran Tiem
Province Name	Binh Thuan		Latitude	10°58.362 N
Commune Name	Muong Man		Longitude	108°00.394 E
	Date of installation			
	Diameter (m)			0.80
	Depth (m)			10.00
	Height of well collar (G.L+m)		0.20
Specification of	Type of pumping	· · · · · · · · · · · · · · · · · · ·		pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			sedimentary
	Static groundwater leve	el (m)		4.10
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if any	ý	ir	n dry season, dry up
	1) Water borne disease	No	kind	
General condition of	2) Salinization	Yes		
water quality from	3) Metalic taste	Yes	kind	
interviewee	4) the other : light yello	ow color		
	1) Purpose and quantity	y of use	Not drinking	,
Water usage	2) Frequency of use			
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	27.4	pН	7.44
measurement	Conductivity (mS/m)	255	Salinity(%)	0.13
Availability for water	Well structure		No problem	
level monitoring	Water usage condition			
Deleted feeting	Geological feature			
Related feature	Topographical feature		flat land	
Sanitary condition	Positional relationship livestock, toilet and dra		No problem	

^{1.} They say that 7~8 wells around this area have salinization.

Table	Existing Well Surv	ey	Date	2007 July 2
Existing well name	B-2 Dug Well 4		Owner	Nguyen Van Quyet
Province Name	Binh Thuan		Latitude	11°03.176 N
Commune Name	Gia Huynh		Longitude	107°36.916 E
	Date of installation			
	Diameter (m)			0.90
	Depth (m)			5.00
	Height of well collar	(G.L+m)		1.73
Specification of	Type of pumping			
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			sedimentary
	Static groundwater level (m)		0.90 5.00 m) 1.73	1.35
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if ar	ny		No depletion
	1) Water borne disease	No	kind	
General condition of	2) Salinization			
water quality from	3) Metalic taste	Yes	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking and	others
Water usage	2) Frequency of use			
	3) Number of users			
Water quality	Tmeperature (°C)	28.0	pН	6.57
measurement	Conductivity (mS/m)	35.7	Salinity(%)	0.02
Availability for water	Well structure		No problem	
level monitoring	Water usage condition	1		
Delete d facture	Geological feature		No depletion No depletion kind kind drinking and others drinking and others pH 6.57 Salinity(%) 0.02 No problem sedimentary low land	
Related feature	Topographical feature	;	low land	
Sanitary condition	Positional relationship livestock, toilet and dr		No problem	

^{1.} The water of this dug well remains 2m above the bottom in dry season.

Table	Existing Well Surv	ey	Date	2007 July 25
Existing well name	B-3 Dug Well 2		Owner	Nguyen Thi Kiem
Province Name	Binh Thuan		Latitude	11°13.871 N
Commune Name	Nghi Duc		Longitude	107°39.853 E
	Date of installation			•
	Diameter (m)			1.00
	Depth (m)			6.37
	Height of well collar	(G.L+m)		0.68
Specification of	Type of pumping	·		pump & bucket
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			sedimentary
Static groundwater level (m)		2.11		
	Daily volume			
General condition of	Monthly volume			
General condition of pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if ar	el (m) y No No No y of use 28.5 8.41	n dry season, wa	ater remains very little from the botton
	1) Water borne disease	No	kind	1
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	d
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking & c	others
Water usage	2) Frequency of use			
	3) Number of users		1 household	
Water quality	Tmeperature (°C)		pН	5.10
measurement	Conductivity (mS/m)	8.41	Salinity(%)	0
Availability for water	Well structure		no problem	
level monitoring	Water usage condition	1		
Related feature	Geological feature			
Refated feature	Topographical feature	;	flat land	
Sanitary condition	Positional relationship livestock, toilet and dr		no problem	

Table	Existing Well Surv	ey	Date 2007 June 29	
Existing well name	B-4 Dr-3		Owner	Nguyen Chung
Province Name	Binh Thuan		Latitude	10°50.039 N
Commune Name	Tan Duc		Longitude	107°34.886 E
	Date of installation			Nguyen Chung 10°50.039 N 107°34.886 E 25.00 pump granite weathered granite much water No depletion others umping from 7.00 to 21:00 6.74 0.03
	Diameter (m)			
	Depth (m)			25.00
	Height of well collar	(G.L+m)		
Specification of	Type of pumping			pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			granite
	Aquifer			weathered granite
	Static groundwater lev	vel (m)		
	Daily volume		much water	
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny		No depletion
	1) Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	Drinking and	lothers
Water usage	2) Frequency of use		contineous p	umping from 7.00 to 21:00
	3) Number of users			
Water quality	Tmeperature (°C)	28.1	pН	
measurement	Conductivity (mS/m)	55.3		L
Availability for water	Well structure		Not available	2
level monitoring	Water usage condition	1		
Related feature	Geological feature		granite weathered granite much water No depletion kind kind Drinking and others contineous pumping from 7.00 to 21:00 pH 6.74	
Refated feature	Topographical feature	;		rolling hills
Sanitary condition	Positional relationship livestock, toilet and dr		No problem	

Table	Existing Well Surv	vey	Date	2007 July 25
Existing well name	B-5 Dug Well 4		Owner	Le Phuong Tinh
Province Name	Binh Thuan		Latitude	11°14.205 N
Commune Name	Me Pu		Longitude	107°36.926 E
	Date of installation			
	Diameter (m)			0.80
	Depth (m)			6.00
	Height of well collar	(G.L+m)		0.66
Specification of	Type of pumping			pump & bucket
existing well	Casing length (m)			<u> </u>
	Screen depth (m)			
	Geology			
	Aquifer sedimentary		sedimentary	
	Static groundwater lev	vel (m)		2.12
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume	e inne ine in dry season, was in dry season, was in No in No in No		
interviewee	Depletion period, if a	ny	In dry season, v	vater remains a little from the bottom.
	1) Water borne disease	No	kind	
General condition of	2) Salinization			
water quality from	3) Metalic taste	Yes	kind	only in dry season
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking & o	thers
Water usage	2) Frequency of use			
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	28.6	pН	4.28
measurement	Conductivity (mS/m)	36.6	Salinity(%)	0.02
Availability for water	Well structure		No problem	
level monitoring	Water usage condition	n		
Delete d facture	Geological feature		sedimentary	
Related feature	Topographical feature)	Flat land	
Sanitary condition	Positional relationship livestock, toilet and de		apart from al	bout 5 m from the pig-cote

^{1.} This well is located next to the market.

Table	Existing Well Surve	ey	Date	2007 July 25
Existing well name	B-6 Dug Well 4		Owner	Nguyen Van Hung
Province Name	Binh Thuan		Latitude	11°14.240 N
Commune Name	Sung Nhon		Longitude	107°35.772 E
	Date of installation			
	Diameter (m)			0.80
	Depth (m)			6.50
	Height of well collar (G.L+m)		0.10
Specification of	Type of pumping	·		pump
existing well	Casing length (m)			^
	Screen depth (m)			
	Geology			
	Aquifer			sedimentary
	Static groundwater lev	el (m)		2.65
	Daily volume			
General condition of	Monthly volume	olume		
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	y	In dry season,	water remains 1 m from the bottom.
	1) Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quantit	y of use	drinking & o	thers
Water usage	2) Frequency of use	-		
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	28.6	pН	5.00
measurement	Conductivity (mS/m)	6.85	Salinity(%)	0
Availability for water	Well structure		no problem	
level monitoring	Water usage condition			
Dalata d factura	Geological feature			
Related feature	Topographical feature		pH 5.00 Salinity(%) 0	
Sanitary condition	Positional relationship livestock, toilet and dra		no problem	

^{1.} This well is located next to B-6-3(market).

Table	Existing Well Surve	e y	Date	2007 July 24
Existing well name	B-7 Dug well 2		Owner	Tran Van Binh
Province Name	Binh Thuan		Latitude	11°15.781 N
Commune Name	Da Kai		Longitude	107°34.003 E
	Date of installation			•
	Diameter (m)			1.55
	Depth (m)			22.00
	Height of well collar (G.L+m)		0.89
Specification of	Type of pumping	,		pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer Static groundwater level (m) Daily volume Monthly volume		Se	edimentary deposit
		el (m)		5.18
	ŭ		5.10	
General condition of				
pumping volume from interviewee	Yearly volume		no depletice No kind No	
interviewee	Depletion period, if an	y		no depletion
	1) Water borne disease	No	kind	1
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	1
interviewee	4) the other:			
	1) Purpose and quantit	y of use	drinking &	others
Water usage	2) Frequency of use			
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	35.3	pН	5.06
measurement	Conductivity (mS/m)	9.86	Salinity(%)	0
Availability for water	Well structure		No problem	
level monitoring	Water usage condition			
D-1-4-1 f4	Geological feature		sedimentary deposit 5.18 no depletion kind drinking &others 1 household 3 pH 5.06 6 Salinity(%) 0 No problem	
Related feature	Topographical feature			
Sanitary condition	Positional relationship livestock, toilet and dra		No problem	

^{1.} This well is the dug well 15 m in depth and they drilled further 7 m in depth from the bottom of the dug w by hand-power. And the well encountered the rock at 22 m in depth.

Table	Existing Well Surv	ey	Date 2007 June 27	
Existing well name	P1 Dug Well 1		Owner	CPC & Dr. Ng Van Loi
Province Name	Phu Yen		Latitude	13.29807 °N
Commune Name	Xuan Phuoc		Longitude	109.06469 °E
	Date of installation			2002
	Diameter (m)			1.00
	Depth (m)			9.00
	Height of well collar	(G.L+m)		0.07
Specification of	Type of pumping			Pump
existing well	Casing length (m)			8.93
	Screen depth (m)			No screen
	Geology		sand & fi	ine gravel (weatered rock)
	Aquifer		1	ine gravel (weatered rock)
	Static groundwater level (m)		4.75	
	Daily volume	. ,	2 m ³	
General condition of	Monthly volume A from			
pumping volume from interviewee	Yearly volume		No depletion	
interviewee	Depletion period, if a	ny		No depletion
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	Drinl	king and daily activity
Water usage	2) Frequency of use			
	3) Number of users			PC & one household
Water quality	Tmeperature (°C)	29.7		6.85
measurement	Conductivity (mS/m)	49.6	Salinity(%)	0.02
Availability for water	Well structure		not availa	ble (concrete lid with key)
level monitoring	Water usage condition	1		daily
Related feature	Geological feature		Drinking and daily activity CPC & one household pH 6.85 Salinity(%) 0.02 not available (concrete lid with key)	
Related feature	Topographical feature	2	flat p	plain with gentle slope
Sanitary condition	Positional relationship livestock, toilet and de			No livestock

1. This si a deepest and water richest well.		
1		

Table	Existing Well Surve	e y	Date	2007 June 28
Existing well name	P2 Dug Well 1		Owner	An Dinh School
Province Name	Phu Yen		Latitude	13.31715 °N
Commune Name	An Dinh		Longitude	109.18502 °E
	Date of installation			2004
	Diameter (m)			1.00
	Depth (m)			6
	Height of well collar	(G.L+m)		0.96
Specification of	Type of pumping			bucket
existing well	Casing length (m)			5.04
	Screen depth (m)			No screen
	Geology			mud and sand
	Aquifer			sand
	Static groundwater lev	rel (m)		3.90
	Daily volume		3 m ³	
General condition of	Monthly volume			
pumping volume from	Yearly volume			
interviewee	Depletion period, if an	ıy		
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other (fluoide)			
	1) Purpose and quantit	y of use	Drinking and water to garden	
Water usage	2) Frequency of use			daily
	3) Number of users			
Water quality	Tmeperature (°C)	28.1	pН	6.81
measurement	Conductivity (mS/m)	53.8	Salinity(%)	0.03
Availability for water	Well structure			available
level monitoring	Water usage condition	1		daily
Dalatad faatuus	Geological feature		2004 1.00 6 0.96 bucket 5.04 No screen mud and sand sand 3.90 3 m ³	sediment
Related feature	Topographical feature			falt
Sanitary condition	Positional relationship livestock, toilet and dr			No problem

Table	Existing Well Surv	ey	Date	2007 June 29
Existing well name	P3 Dug Well 3		Owner	Tran Ngoc Quang
Province Name	Phu Yen		Latitude	13.18991 °N
Commune Name	An Tho		Longitude	109.23939 °E
	Date of installation			2004
	Diameter (m)			1.16
	Depth (m)			4.80
	Height of well collar	(G.L+m)		0.80
Specification of	Type of pumping			Pump
existing well	Casing length (m)			4.00
	Screen depth (m)			No screen
	Geology		S	and, gravel, rocks
	Aquifer			rocks
	Static groundwater le	vel (m)		2.90
	Daily volume			3 m^3
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if a	ny		No depletion
	1) Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinl	king and daily activity
Water usage	2) Frequency of use	-		
	3) Number of users		about 2	20 people and livestocks
Water quality	Tmeperature (°C)	28.3	pН	7.09
measurement	Conductivity (mS/m)	63.2	Salinity(%)	0.03
Availability for water	Well structure			available
level monitoring	Water usage condition	1		daily
Dalatad faatuma	Geological feature		talus de	eposit or weathered rock
Related feature	Topographical feature	;		flat
Sanitary condition	Positional relationship livestock, toilet and d		(Cattle and chicken

1. The owner was not able to dig deeper	, because the bottor	n of the well w	vas hard weather	ed rock.

Table	Existing Well Survey		Date	2007 July 2	
Existing well name	P4 Drilled Well 2		Owner	Pagoda	
Province Name	Phu Yen		Latitude	13.20276 °N	
Commune Name	An My		Longitude	109.27615 °E	
	Date of installation			2007 April	
	Diameter (m)			0.11 (PVC)	
	Depth (m)			80.00	
	Height of well collar (G.L+m)			0.13	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			78	
	Screen depth (m)			2	
	Geology			sand and rock	
	Aquifer			rock	
	Static groundwater level (m)				
	Daily volume			unknown	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any		No	depletion in this year	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind	kind	
interviewee	4) the other				
	1) Purpose and quanti	ity of use	Dri	nking, daily activity	
Water usage	2) Frequency of use	•			
	3) Number of users		5	people and garden	
Water quality	Tmeperature (°C)	28.1	pН	7.64	
measurement	Conductivity (mS/m)	345	Salinity(%)	0.18	
Availability for water	Well structure		Not availab	Not available for water level monitoring	
level monitoring	Water usage condition		daily		
D-1-4-1 C4	Geological feature		sand and rock		
Related feature	Topographical feature			flat (flood plain)	
Sanitary condition	Positional relationship between livestock, toilet and drainage			No problem	

1. This is the deepest well in the commune.	

Table	Existing Well Surve	y	Date	2007 July 3	
Existing well name	P5 Test Drilled Well 2		Owner	Public	
Province Name	Phu Yen		Latitude	13.17017 °N	
Commune Name	Son Phuoc		Longitude	108.95650 °E	
	Date of installation			No information	
	Diameter (m)			No information	
	Depth (m)			No information	
	Height of well collar (G.L+m)		No information	
Specification of	Type of pumping	· · · · · · · · · · · · · · · · · · ·	No equipmen	t for drawing up groundwater	
existing well	Casing length (m)			No information	
	Screen depth (m)			No information	
	Geology			No information	
	Aquifer			No information	
	Static groundwater level (m)			No information	
	Daily volume			No information	
General condition of	Monthly volume			No information	
pumping volume from	Yearly volume			No information	
interviewee	Depletion period, if any			No information	
	Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quantity	y of use			
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)		pН		
measurement	Conductivity (mS/m)		Salinity(%)		
Availability for water	Well structure				
level monitoring	Water usage condition				
Dalata d faatuus	Geological feature				
Related feature	Topographical feature				
Sonitory condition	Positional relationship between				
Sanitary condition	livestock, toilet and dra	ainage			

Table	Existing Well Survey		Date	2007 July 4	
Existing well name	P6 Dug Well 1		Owner	Thai Hong Tan	
Province Name	Phu Yen		Latitude	13.09131 °N	
Commune Name	Ea Cha Rang		Longitude	108.88815 °E	
	Date of installation			2004	
	Diameter (m)		1.10		
	Depth (m)			12.40	
	Height of well collar	(G.L+m)		0.70	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			11.70	
	Screen depth (m)			No screen	
	Geology			sand and rock	
	Aquifer			sand and rock	
	Static groundwater level (m)			7.01	
	Daily volume		3 m^3		
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any			No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	pose and quantity of use		king and daily activity	
Water usage	2) Frequency of use				
	3) Number of users			10 people	
Water quality	Tmeperature (°C)	27.1	pН	7.68	
measurement	Conductivity (mS/m)	106.2	Salinity(%)	0.05	
Availability for water	Well structure		available		
level monitoring	Water usage condition		daily		
Related feature	Geological feature		sand and volcanic rock		
	Topographical feature		flat		
Sanitary condition	Positional relationship between livestock, toilet and drainage		bad: no prevetion against rain surface water intrusion		

1. The well is quantity richest and deepest dug well in the commune.
2. 2.00 West to quantity from our deep too dug west and second

Table	Existing Well Survey		Date	2007 July 5
Existing well name	P7 Dug Well 1		Owner	Oi Sa (Public Well)
Province Name	Phu Yen		Latitude	13.09665 °N
Commune Name	Suoi Bac		Longitude	108.95118 °E
	Date of installation			2000
	Diameter (m)			1.15
	Depth (m)		9.40	
	Height of well collar	(G.L+m)		0.93
Specification of	Type of pumping			Pump
existing well	Casing length (m)			8.47
	Screen depth (m)			No screen
	Geology			unknown
	Aquifer			unknown
	Static groundwater level (m)		7.12	
	Daily volume		unknown	
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if any			No depletion
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	unknown		
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use		unknown
Water usage	2) Frequency of use			
	3) Number of users			
Water quality	Tmeperature (°C)	27.3	pН	7.49
measurement	Conductivity (mS/m)	125.7	Salinity(%)	0.06
Availability for water	Well structure		available	
level monitoring	Water usage condition		daily	
Related feature	Geological feature		unknown	
Refated feature	Topographical feature		flat	
Sanitary condition	Positional relationship between livestock, toilet and drainage		No problem	

. The well is quantity richest and has highest water quality.	
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Table	Existing Well Survey		Date	2007 July 7	
Existing well name	P8 Dug Well 1		Owner	Nguyen Van Ha	
Province Name	Phu Yen		Latitude	12.99002 °N	
Commune Name	Son Thanh Dong		Longitude	109.09206 °E	
	Date of installation			2000	
	Diameter (m)			1.40	
	Depth (m)			14.80	
	Height of well collar	(G.L+m)		0.06	
Specification of	Type of pumping			Pump	
existing well	Casing length (m)			14.74	
	Screen depth (m)			No screen	
	Geology			sand	
	Aquifer			sand	
	Static groundwater level (m)			13.05	
	Daily volume		unknown		
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any				
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Drinking and daily activity		
Water usage	2) Frequency of use				
	3) Number of users		1 h	ousehold (5 people)	
Water quality	Tmeperature (°C)	28.5	рН	7.36	
measurement	Conductivity (mS/m)	20.3	Salinity(%)	0.01	
Availability for water	Well structure		available		
level monitoring	Water usage condition		daily		
Related feature	Geological feature		soil		
Refated feature	Topographical feature		flat		
Sanitary condition	Positional relationship between livestock, toilet and drainage		No problem		

1. The well has hiigh water quality.	

Table	Existing Well Survey		Date	2007 June 25	
Existing well name	K1 Dug Well 4 (5)		Owner	Public	
Province Name	Khanh Hoa		Latitude	12.01308°N	
Commune Name	Cam An Bac		Longitude	109.11587°E	
	Date of installation			2005	
	Diameter (m)			1.13	
	Depth (m)		difficullt to	measure for muddy bottom	
	Height of well collar	(G.L+m)		0.70	
Specification of	Type of pumping			Bucket	
existing well	Casing length (m)				
	Screen depth (m)			No screen	
	Geology			sand & gravel	
	Aquifer			sand & gravel	
	Static groundwater level (m)			6.16	
	Daily volume			unknown	
General condition of	Monthly volume		-		
pumping volume from interviewee	Yearly volume		-		
interviewee	Depletion period, if any		-		
	1) Water borne disease	No	kind		
General condition of	2) Salinization	Yes		little	
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	1	Washing and bath	
Water usage	2) Frequency of use				
	3) Number of users		3 hous	eholds, about 15 people	
Water quality	Tmeperature (°C)	30.1	pН	6.80	
measurement	Conductivity (mS/m)	210	Salinity(%)	0.10	
Availability for water	Well structure			No problem	
level monitoring	Water usage condition		Daily		
Deleted feeture	Geological feature		sand & gravel		
Related feature	Topographical feature		flat		
Sanitary condition	Positional relationship between livestock, toilet and drainage				

^{1.} There is a muddy sediment at the well bottom.

^{2.} There are garbage on the surface of the groundwater in the well.

Table	Existing Well Surv	ey	Date	2007 June 26	
Existing well name	K2 Dug Well 3		Owner	Dao Dinh Dung	
Province Name	Khanh Hoa		Latitude	12.02901 °N	
Commune Name	Cam Hiep Nam		Longitude	109.12687 °E	
	Date of installation			1992	
	Diameter (m)			0.90	
	Depth (m)			3.82	
	Height of well collar	(G.L+m)		0.60	
Specification of	Type of pumping			Bucket	
existing well	Casing length (m)			3.22	
	Screen depth (m)			No screen	
	Geology			sand	
	Aquifer			sand	
	Static groundwater level (m)			2.40	
	Daily volume			1 m ³	
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any			No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	Purpose and quantity of use		Drinking, cooking, washing, bath	
Water usage	2) Frequency of use			daily	
	3) Number of users			one household	
Water quality	Tmeperature (°C)	28.5	рН	6.04	
measurement	Conductivity (mS/m)	39.4	Salinity(%)	0.02	
Availability for water	Well structure		No problem		
level monitoring	Water usage condition		daily use		
Related feature	Geological feature		sediment		
Related leature	Topographical feature			flat	
Sanitary condition	Positional relationship between livestock, toilet and drainage			No problem	

^{1.} The groundwater has fluoride problem.

^{2.} The owner use a kind of filter to remve fluoride. The filter consist of coal, gravel and small rocks. They believe the filter can remove fluoride.

Table	Existing Well Survey		Date	2007 July 9
Existing well name	K3 Dug Well 4		Owner	Le Ngoc Bich
Province Name	Khanh Hoa		Latitude	12.09942 °N
Commune Name	Cam Hai Tay		Longitude	109.15484 °E
	Date of installation			1989
	Diameter (m)			0.95
	Depth (m)			4.15
	Height of well collar	(G.L+m)		0.60
Specification of	Type of pumping			pump
existing well	Casing length (m)			3.55
	Screen depth (m)			No screen
	Geology			coarse sand
	Aquifer			coarse sand
	Static groundwater lev	vel (m)		1.28
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny		
	1) Water borne disease	unknown	kind	
General condition of	2) Salinization	Yes		
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	washing, every day's activity	
Water usage	2) Frequency of use	-		
	3) Number of users			
Water quality	Tmeperature (°C)	29.8	pН	6.57
measurement	Conductivity (mS/m)	141.5	Salinity(%)	0.07
Availability for water	Well structure			available
level monitoring	Water usage condition		daliy use	
Deleted feeture	Geological feature		sand	
Related feature	Topographical feature	;	flat	
Sanitary condition	Positional relationship livestock, toilet and de			not protected

^{1.} In this area, three wells were drilled. The maximun depth reached 60 m, howver, there were insufficient groundwater.

Table	Existing Well Survey		Date	2007 July 11
Existing well name	N-1 Dug Well 13		Owner	Nguyen Hiep
Province Name	Ninh Thuan		Latitude	11°36.050 N
Commune Name	Nhon Hai		Longitude	109°06.445 E
	Date of installation			•
	Diameter (m)			7.00
	Depth (m)			6.20
	Height of well collar	(G.L+m)	he top of we	ll is under 1 m from the ground
Specification of	Type of pumping			pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			
	Static groundwater lev	vel (m)		5.10
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if an	ny		
	1) Water borne disease	No	kind	I
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking	
Water usage	2) Frequency of use			
	3) Number of users			
Water quality	Tmeperature (°C)	31.1	pН	8.73
measurement	Conductivity (mS/m) 56.6		Salinity(%)	0.03
Availability for water	Well structure		no problem	
level monitoring	Water usage condition			
Related feature	Geological feature			
Kerateu reature	Topographical feature		2 km from th	ne sea coast
Sanitary condition	Positional relationship livestock, toilet and dr		no problem	

Table	Existing Well Surv	Existing Well Survey		2007 July 12	
Existing well name	N-2 Dug Well 2	N-2 Dug Well 2		Huu Hieu Trach	
Province Name	Ninh Thuan		Latitude	11°48.099 N	
Commune Name	Cong Hai		Longitude	109°06.100 E	
	Date of installation			•	
	Diameter (m)			1.00	
	Depth (m)			6.38	
	Height of well collar	(G.L+m)		0.65	
Specification of	Type of pumping	,		pump	
existing well	Casing length (m)				
-	Screen depth (m)				
	Geology				
	Aquifer				
	Static groundwater lev	vel (m)		3.46	
	Daily volume			much water	
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	Depletion period, if an	ny		no depletion	
	Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	Yes	kind	kind weak	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking		
Water usage	2) Frequency of use				
***	3) Number of users				
Water quality	Tmeperature (°C)	30.7	pH	6.99	
measurement	Conductivity (mS/m) 102.4		Salinity(%)	0.05	
Availability for water level monitoring	Well structure		no problem		
level monitoring	Water usage condition	1			
Related feature	Geological feature				
	Topographical feature		low land		
Sanitary condition	Positional relationship		no problem		
<i>j</i>	livestock, toilet and drainage		F		

Table	Existing Well Survey		Date	2007 July 10	
Existing well name	N-3 Dug Well 5		Owner	Mang Dung	
Province Name	Ninh Thuan		Latitude	11°39.373 N	
Commune Name	Bac Son		Longitude	109°06.025 E	
	Date of installation			•	
	Diameter (m)			0.80	
	Depth (m)			7.75	
	Height of well collar	(G.L+m)		0.56	
Specification of	Type of pumping	<u> </u>		pump	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer			sedimentary	
	Static groundwater lev	vel (m)		4.50	
	Daily volume				
General condition of	Monthly volume				
pumping volume from	Yearly volume				
interviewee	Depletion period, if any		In dry season,	water remains 1.5 m from the bottom.	
	1) Water borne disease	No	kind	1	
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind	d d	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking		
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	30.5	pН	7.20	
measurement	Conductivity (mS/m)	56.7	Salinity(%)	0.03	
Availability for water	Well structure		no problem		
level monitoring	Water usage condition				
Dalatad faatuma	Geological feature				
Related feature	Topographical feature	;	small basin		
Sanitary condition	Positional relationship livestock, toilet and dr		no problem		

^{1.} The public water supply system is already provided in Xom Bang village but of shortage in dry season.

^{2.} In this village, they use the public water supply system and dug wells.

Table	Existing Well Survey		Date	2007 July 6		
Existing well name	N-4 Dug Well 5		Owner	Trinh Van Nuo (Restaurant)		
Province Name	Ninh Thuan		Latitude	11°24.092 N		
Commune Name	Phouc Minh		Longitude	108°53.666 E		
	Date of installation		-			
	Diameter (m)			2.23		
	Depth (m)			4.90		
	Height of well collar	(G.L+m)		0.27		
Specification of	Type of pumping			pump		
existing well	Casing length (m)					
	Screen depth (m)					
	Geology					
	Aquifer					
	Static groundwater lev	vel (m)		0.98		
	Daily volume					
General condition of	Monthly volume					
pumping volume from interviewee	Yearly volume					
interviewee	Depletion period, if an	ıy	no depletion, ev	no depletion, even in dry season they get much water		
	1) Water borne disease	No	kind			
General condition of	2) Salinization	No				
water quality from	3) Metalic taste	No	kind			
interviewee	4) the other : dirty					
	1) Purpose and quantit	ty of use	drinking			
Water usage	2) Frequency of use					
	3) Number of users					
Water quality	Tmeperature (°C)	29.9	pН	6.75		
measurement	Conductivity (mS/m)	95.6	Salinity(%)	0.05		
Availability for water	Well structure		no problem			
level monitoring	Water usage condition					
Related feature	Geological feature					
Related leature	Topographical feature		in salt fields			
Sanitary condition	Positional relationship livestock, toilet and dr		no problem			

^{1.} The householder is selling the water of this well for drinking water.

Table	Existing Well Survey		Date	2007 July 9	
Existing well name	N-5 Dug Well 7		Owner	Nguyen Hoang Nhat	
Province Name	Ninh Thuan		Latitude	11°31.393 N	
Commune Name	Phouc Hai		Longitude	108°57.786 E	
	Date of installation				
	Diameter (m)			0.72	
	Depth (m)			3.49	
	Height of well collar	(G.L+m)		0.29	
Specification of	Type of pumping			bucket	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer				
	Static groundwater lev	vel (m)		2.44	
	Daily volume				
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any				
	1) Water borne disease	No	kind		
General condition of	2) Salinization	Yes		strong	
water quality from	3) Metalic taste	No	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	Not drinking		
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	30.5	рН	7.37	
measurement	Conductivity (mS/m)	401	Salinity(%)	0.21	
Availability for water	Well structure		no problem	no problem	
level monitoring	Water usage condition				
D-1-4- 1 C4	Geological feature				
Related feature	Topographical feature	;	on the sand h	nill	
Sanitary condition	Positional relationship livestock, toilet and dr		no problem		

^{1.} This well is located in Tu tam 1 village.

Table	Existing Well Survey		Date	2007 July 5
Existing well name	N-6 Dug Well 1		Owner	Cultural house in Tu Thien
Province Name	Ninh Thuan		Latitude	11°28.032 N
Commune Name	Phuoc Dinh		Longitude	109°00.617 E
	Date of installation			
	Diameter (m)			0.80
	Depth (m)			
	Height of well collar	(G.L+m)		0.63
Specification of	Type of pumping	()		
existing well	Casing length (m)			
, and the second	Screen depth (m)			
	Geology		+	
	Aquifer			
	Static groundwater lev	vel (m)		4.55
	Daily volume	(CI (III)		1.00
General condition of	Monthly volume			
pumping volume from	Yearly volume			
interviewee	•		T 1	. 1.41 C 41 1 4
	Depletion period, if ar		In dry season, water remains a little from the bottom	
General condition of	1) Water borne disease 2) Salinization	unknown unknown	kind	
water quality from	3) Metalic taste	unknown	kind	
interviewee	4) the other	unknown	King	1
	1) Purpose and quanti	ty of use		
Water usage	2) Frequency of use			
	3) Number of users			T
Water quality	Tmeperature (°C)	29.4	pH	8.47
measurement	Conductivity (mS/m)	105.1	Salinity(%)	0.05
Availability for water	Well structure		no problem	
level monitoring	Water usage condition			
Related feature	Geological feature			
Related Teature	Topographical feature			
Sanitary condition	Positional relationship		no problem	
Samtary Colluition	livestock, toilet and di	ainage	no problem	

Table	Existing Well Survey		Date	2007 July 3		
Existing well name	B-1 Dug Well 1		Owner	Tran Tiem		
Province Name	Binh Thuan		Latitude	10°58.362 N		
Commune Name	Muong Man		Longitude	108°00.394 E		
	Date of installation		-			
	Diameter (m)			0.80		
	Depth (m)			10.00		
	Height of well collar	(G.L+m)		0.20		
Specification of	Type of pumping			pump		
existing well	Casing length (m)					
	Screen depth (m)					
	Geology					
	Aquifer			sedimentary		
	Static groundwater lev	vel (m)		4.10		
	Daily volume					
General condition of	Monthly volume					
pumping volume from interviewee	Yearly volume					
interviewee	Depletion period, if ar	ny	in	in dry season ,dry up		
	1) Water borne disease	No	kind			
General condition of	2) Salinization	Yes				
water quality from	3) Metalic taste	Yes	kind			
interviewee	4) the other: light yellow color					
	1) Purpose and quantit	ty of use	Not drinking			
Water usage	2) Frequency of use					
	3) Number of users		1 household			
Water quality	Tmeperature (°C)	27.4	pН	7.44		
measurement	Conductivity (mS/m)	255	Salinity(%)	0.13		
Availability for water	Well structure		No problem			
level monitoring	Water usage condition					
D-1-4-1 f4	Geological feature					
Related feature	Topographical feature		flat land			
Sanitary condition	Positional relationship livestock, toilet and dr		No problem			

^{1.} They say that 7~8 wells around this area have salinization.

Table	Existing Well Survey		Date	2007 July 2	
Existing well name	B-2 Dug Well 4		Owner	Nguyen Van Quyet	
Province Name	Binh Thuan		Latitude	11°03.176 N	
Commune Name	Gia Huynh		Longitude	107°36.916 E	
	Date of installation				
	Diameter (m)			0.90	
	Depth (m)			5.00	
	Height of well collar	(G.L+m)		1.73	
Specification of	Type of pumping				
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer			sedimentary	
	Static groundwater lev	vel (m)		1.35	
	Daily volume				
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if any			No depletion	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	Yes	kind		
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking and	others	
Water usage	2) Frequency of use				
	3) Number of users				
Water quality	Tmeperature (°C)	28.0	pН	6.57	
measurement	Conductivity (mS/m)	35.7	Salinity(%)	0.02	
Availability for water	Well structure		No problem		
level monitoring	Water usage condition				
Delete d facture	Geological feature		sedimentary		
Related feature	Topographical feature	;	low land		
Sanitary condition	Positional relationship livestock, toilet and dr		No problem		

^{1.} The water of this dug well remains 2m above the bottom in dry season.

Table	Existing Well Survey		Date	2007 July 25	
Existing well name	B-3 Dug Well 2		Owner	Nguyen Thi Kiem	
Province Name	Binh Thuan		Latitude	11°13.871 N	
Commune Name	Nghi Duc		Longitude	107°39.853 E	
	Date of installation			•	
	Diameter (m)			1.00	
	Depth (m)			6.37	
	Height of well collar	(G.L+m)		0.68	
Specification of	Type of pumping			pump & bucket	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer			sedimentary	
	Static groundwater lev	vel (m)		2.11	
	Daily volume				
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if an	ny	n dry season, wa	n dry season, water remains very little from the botton	
	1) Water borne disease	No	kind	1	
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	No	kind	1	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking & o	others	
Water usage	2) Frequency of use				
	3) Number of users		1 household		
Water quality	Tmeperature (°C)	28.5	pН	5.10	
measurement	Conductivity (mS/m)	8.41	Salinity(%)	0	
Availability for water	Well structure		no problem		
level monitoring	Water usage condition				
Related feature	Geological feature				
Refated feature	Topographical feature	<u> </u>	flat land		
Sanitary condition	Positional relationship livestock, toilet and di		no problem		

Table	Existing Well Survey		Date	2007 June 29
Existing well name	B-4 Dr-3		Owner	Nguyen Chung
Province Name	Binh Thuan		Latitude	10°50.039 N
Commune Name	Tan Duc		Longitude	107°34.886 E
	Date of installation			
	Diameter (m)			
	Depth (m)			25.00
	Height of well collar	(G.L+m)		
Specification of	Type of pumping	,		pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			granite
	Aquifer			weathered granite
	Static groundwater lev	vel (m)		
	Daily volume			much water
General condition of	Monthly volume			
pumping volume from	Yearly volume			
interviewee	Depletion period, if an	ny		No depletion
	Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	d
interviewee	4) the other			
	1) Purpose and quanti	ty of use	Drinking and others	
Water usage	2) Frequency of use		contineous p	oumping from 7.00 to 21:00
TT7 . 1*.	3) Number of users	20.1		T .=.
Water quality	Tmeperature (°C)	28.1	pH	6.74
measurement	Conductivity (mS/m) 55.3		Salinity(%) Not available	
Availability for water level monitoring	Well structure		Not available	<u>e</u>
level monitoring	Water usage condition	1	•,	
Related feature	Geological feature		granite	
	Topographical feature		on the top of	f rolling hills
Sanitary condition	Positional relationship		No problem	
ĺ	livestock, toilet and drainage		1	

Table	Existing Well Survey		Date	2007 July 25	
Existing well name	B-5 Dug Well 4		Owner	Le Phuong Tinh	
Province Name	Binh Thuan		Latitude	11°14.205 N	
Commune Name	Me Pu		Longitude	107°36.926 E	
	Date of installation				
	Diameter (m)			0.80	
	Depth (m)			6.00	
	Height of well collar	(G.L+m)		0.66	
Specification of	Type of pumping			pump & bucket	
existing well	Casing length (m)				
	Screen depth (m)				
	Geology				
	Aquifer			sedimentary	
		Static groundwater level (m)		2.12	
	Daily volume				
General condition of	Monthly volume				
pumping volume from interviewee	Yearly volume				
interviewee	Depletion period, if ar	ıy	In dry season, w	In dry season, water remains a little from the bottom.	
	1) Water borne disease	No	kind		
General condition of	2) Salinization	No			
water quality from	3) Metalic taste	Yes	kind	only in dry season	
interviewee	4) the other				
	1) Purpose and quanti	ty of use	drinking & o	thers	
Water usage	2) Frequency of use	-			
	3) Number of users		1 household		
Water quality	Tmeperature (°C)	28.6	pН	4.28	
measurement	Conductivity (mS/m)	36.6	Salinity(%)	0.02	
Availability for water	Well structure		No problem		
level monitoring	Water usage condition				
D 1 (10)	Geological feature		sedimentary		
Related feature	Topographical feature		Flat land		
Sanitary condition	Positional relationship livestock, toilet and dr	between	apart from ab	oout 5 m from the pig-cote	

^{1.} This well is located next to the market.

Table	Existing Well Surv	ey	Date	2007 July 25
Existing well name	B-6 Dug Well 4		Owner	Nguyen Van Hung
Province Name	Binh Thuan		Latitude	11°14.240 N
Commune Name	Sung Nhon		Longitude	107°35.772 E
	Date of installation		-	
	Diameter (m)			0.80
	Depth (m)			6.50
	Height of well collar	(G.L+m)		0.10
Specification of	Type of pumping			pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer			sedimentary
	Static groundwater level (m)			2.65
	Daily volume			
General condition of	Monthly volume			
pumping volume from interviewee	Yearly volume			
interviewee	Depletion period, if any		In dry season,	water remains 1 m from the bottom.
	1) Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other			
	1) Purpose and quanti	ty of use	drinking & o	thers
Water usage	2) Frequency of use			
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	28.6	pН	5.00
measurement	Conductivity (mS/m)	6.85	Salinity(%)	0
Availability for water	Well structure		no problem	
level monitoring	Water usage condition	1		
Deleted feeture	Geological feature			
Related feature	Topographical feature	;	flat land	
Sanitary condition	Positional relationship livestock, toilet and dr		no problem	

^{1.} This well is located next to B-6-3(market).

Table	Existing Well Survey		Date	2007 July 24
Existing well name	B-7 Dug well 2		Owner	Tran Van Binh
Province Name	Binh Thuan		Latitude	11°15.781 N
Commune Name	Da Kai		Longitude	107°34.003 E
	Date of installation			
	Diameter (m)			1.55
	Depth (m)			22.00
	Height of well collar	(G.L+m)		0.89
Specification of	Type of pumping	`		pump
existing well	Casing length (m)			
	Screen depth (m)			
	Geology			
	Aquifer		Se	edimentary deposit
	Static groundwater lev	vel (m)		5.18
	Daily volume			
General condition of	Monthly volume			
pumping volume from	Yearly volume			
interviewee	Depletion period, if ar	ny		no depletion
	1) Water borne disease	No	kind	
General condition of	2) Salinization	No		
water quality from	3) Metalic taste	No	kind	
interviewee	4) the other:			
	1) Purpose and quanti	ty of use	drinking &c	others
Water usage	2) Frequency of use	•		
	3) Number of users		1 household	
Water quality	Tmeperature (°C)	35.3	pН	5.06
measurement	Conductivity (mS/m)	9.86	Salinity(%)	0
Availability for water	Well structure		No problem	
level monitoring	Water usage condition	1		
Dalatad faatuus	Geological feature			
Related feature	Topographical feature			
Sanitary condition	Positional relationship livestock, toilet and dr		No problem	

^{1.} This well is the dug well 15 m in depth and they drilled further 7 m in depth from the bottom of the dug w by hand-power. And the well encountered the rock at 22 m in depth.

Table	Surface Water Survey	,	Date:	2	2007 July 2
Surface water name	P2 Stream		Surveyer	Ichi	iro TANAKA
Province Name	Phu Yen		Latitude	13.31055 °N	
Commune Name	An Dinh		Longitude	10)9.19468 °E
	Не	urface (level)	E.L + m		
Kind of surface water	Spring			l I	
General condition of	Flow Discharge:		unknown		
water	Water volume (capacity):		unknown		
discharge/volume by interview	Seasonal change of flow discharge/water volu	ıme	unknown		
	1) Water borne disease	unkno	own	kind:	
General condition of	2) Salinization unknown		own		
water quality by	3) Metalic taste		own	kind:	
interview	4) the other (Fluoride?))			
Water quality	Tmeperature (°C)	26.9	рН		7.29
measurement	Conductivity (mS/m)	26.4	Salinity	(%)	0.01
	1) Purpose of use		irriga		
Surface water usage	Quantity of use		unknown		
Sarrace water asage	2) Frequency of use		unknown		
	3) Number of users		all vil	lages	
Possibility of water	Relative height between to	he targeted con	nmune and	(m)	
resource	the surface water			, ,	
Related feature	Geological feature	sandy bed			
Related Teature	Topographical feature	flood plain in valley			
	Positional relationship				
Sanitary condition	between livestock,		catt	les	
	toilet and drainage				

Table	Surface Water	Surv	ey	Date:		2007 July 2
Surface water name	P4 Swamp			Surveyer	Ich	iro TANAKA
Province Name	Phu Yen			Latitude		°N
Commune Name	An My			Longitude		°E
		Height of water su			E.L + m	
Kind of surface water	Swamp (which a	Swamp (which appears in rainy season				
General condition of	Flow Discharge:		<u>, , , , , , , , , , , , , , , , , , , </u>		unkno	wn
water	Water volume (ca	pacity	<i>y</i>):		unkno	wn
discharge/volume by	5 Seasonar change of				unkno	wn
interview	flow discharge/wa		olume			
	1) Water borne disease		unkno	own kind:		
General condition of	2) Salinization		No	0		
water quality by	3) Metalic taste		unkno	unknown kind:		
interview	4) the other					
Water quality	Tmeperature ((°C)		pН		
measurement	Conductivity (S/m)		Salinity	(%)	
	1) Purpose of use		irrigation			
Surface water usage	Quantity of use	;				
Surface water usage	2) Frequency of u	se				
	3) Number of user					
Possibility of water	Relative height be	etween	the targeted con	ımune and	(111)	
resource	the surface water				(m)	
Related feature	Geological feature sedimentary dep		posit			
Notated realure	Topographical feature flat					
	Positional relation	nship			_	
Sanitary condition	between livestock	.,				
ž	toilet and drainage	e				

1. This swamp is located at the end of flood plain surrounded by sand bar and small mountains.
There is no way of drainage of rain water and waters Therefore, the big swamp emarge in rainy season.
The swamp area is used for rice production field.

Table	Surface Water Surv	ey	Date:	20	007 July 4
Surface water name	P6 Spring		Surveyer	Ichiro TANAKA	
Province Name	Phu Yen		Latitude	13	.09890 °N
Commune Name	Ea Cha Rang	Ea Cha Rang		108	3.88991 °E
		Height of water s	Longitude urface (level)	E.L + m	
Kind of surface water	Spring	, v	,	1	
General condition of	Flow Discharge:			little	
water	Water volume (capacity	y):			
discharge/volume by interview	Seasonal change of flow discharge/water vo	olume			
	1) Water borne disease	unko	wn	kind:	
General condition of	2) Salinization no		ı		
water quality by	3) Metalic taste	unko	wn	kind:	
interview	4) the other				
Water quality	Tmeperature (°C)	27.0	рН		5.61
measurement	Conductivity (S/m)	8.52	Salinity	(%)	0
	1) Purpose of use	Drinking only			
Surface water usage	Quantity of use				
bullace water usage	2) Frequency of use				
	3) Number of users	150 household		people)	
Possibility of water	Relative height between	i the targeted con	nmune and	(m)	
resource	the surface water			` ,	
Related feature	Geological feature	weathered volca	canic rock and marble		
Related leature	Topographical feature	slope			
	Positional relationship				
Sanitary condition	between livestock,	No problem			
,	toilet and drainage				

^{1.} The spring flows out on the boundary between rock and soil.

^{2.} People come to the spring with plastic bottles to storage water for their drinking water.

^{3.} The other spring is very far (about 15 km) and in the mountainous area. So only livestocks use the water.

Table	Surface Water Surve	ey	Date:	20	007 July 5
Surface water name	P7 Pond		Surveyer	Ichir	o TANAKA
Province Name	Phu Yen	Latitude	13	.09322 °N	
Commune Name	Suoi Bac		Longitude	108	3.96688 °E
	1	Height of water s	urface (level)	E.L + m	
Kind of surface water	reservoir				
General condition of	Flow Discharge:		unknown		
water	Water volume (capacity	y):	unknown		
discharge/volume by interview	Seasonal change of flow discharge/water vo	olume	unknown		
	1) Water borne disease	unkno	own	kind:	
General condition of water quality by	2) Salinization unkn		own		
	3) Metalic taste unkr		own kind:		
interview	4) the other				
Water quality	Tmeperature (°C)	28.7	рН		7.57
measurement	Conductivity (mS/m)	21.4	Salinity	(%)	0.01
	1) Purpose of use	irrigation			
Surface water usage	Quantity of use				
Bullace water usage	2) Frequency of use				
	3) Number of users				
Possibility of water	Relative height between	the targeted con	nmune and	(m)	
resource	the surface water			(111)	
Related feature	Geological feature	volcanic rock and coarse deposit			
Related leature	Topographical feature	gentle slope			
Sanitary condition	Positional relationship between livestock, toilet and drainage	feeding livestoo	cks on the ban	k	

1. This is a big reservoir for irrigation.		
<u> </u>		

Table	Surface Water Surv	e y	Date:		2007 July 7
Surface water name	P8 River (Song Da Rar	ng)	Surveyer	Ichiro TANAKA	
Province Name	Phu Yen		Latitude	13.02855 °N	
Commune Name	Son Thanh Dong		Longitude	1	09.10407 °E
	Height of water su		urface (level)	E.L + m	7
Kind of surface water	River	<u> </u>		1	
General condition of	Flow Discharge:		unknown		
water	Water volume (capacity	y):	unknown		
discharge/volume by	Seasonal change of		unknown		
interview	flow discharge/water vo	olume			
	1) Water borne disease	unkno	own	kind:	
General condition of	2) Salinization unkno		own		
water quality by	3) Metalic taste unkno		own	kind:	
interview	4) the other				
Water quality	Tmeperature (°C)	29.2	рН		8.04
measurement	Conductivity (S/m)	10.76	Salinity	(%)	0.01
	1) Purpose of use	irrigation			
Surface water usage	Quantity of use	unknown unknown			
Surface water usage	2) Frequency of use				
	3) Number of users	unknown			
Possibility of water	Relative height between	the targeted con	nmune and	(m)	
resource	the surface water			(111)	
Related feature	Geological feature	flood plain			
Notatou toalute	Topographical feature	flat			
	Positional relationship				
Sanitary condition	between livestock,				
- 	toilet and drainage				

1. The other river has dryed up so far.	

Table	Surface Water Surve	ey	Date:	2	007 June 25
Surface water name	K1 Spring		Surveyer	Ich	iro TANAKA
Province Name	Khanh Hoa		Latitude	1	2.01077 °N
Commune Name	Cam An Bac	Cam An Bac		1	09.07878 °E
	I	Height of water si	urface (level)	E.L + m	109
Kind of surface water	Spring				
General condition of	Flow Discharge:		No water du	ring dry s	eason
water	Water volume (capacity	·):			
discharge/volume by interview	Seasonal change of flow discharge/water vo	lume			
	1) Water borne disease	No	•	kind:	
General condition of	2) Salinization No				
water quality by	3) Metalic taste No		kind:		
interview	4) the other (Fluoride ?))			
Water quality	Tmeperature (°C)		рН		
measurement	Conductivity (mS/m)		Salinity	(%)	
	1) Purpose of use	Irrigation and p	lantation		
Surface water usage	Quantity of use	unknown			
bulluce water usage	2) Frequency of use	unknown			
	3) Number of users	unknown			
Possibility of water	Relative height between	the targeted con	ımune and	(m)	
resource	the surface water			(111)	
Related feature	Geological feature	talus deposit			
Related leature	Topographical feature	gentle slope			
Sanitary condition	Positional relationship between livestock, toilet and drainage	No protection			

The spring flows out of the discharge point in the talus deposit so that the spring water has high turbid	lity.

Table	Surface Water Surv	Surface Water Survey			2007 June 26		
Surface water name	K2 Vin Thai	Stream	Surveyer	Ich	iro TANAKA		
Province Name	Khanh H	oa	Latitude	12.02252 °N			
Commune Name	Cam Hiep	Nam	Longitude	1	09.12790 °E		
	1	Height of water s	urface (level)	E.L + m	25		
Kind of surface water	Spring						
General condition of	Flow Discharge:		unknown (9	m wide, 0	.01m depth)		
water	Water volume (capacity	v):					
discharge/volume by interview	Seasonal change of flow discharge/water vo	ow discharge/water volume			The stream water dry up in dry season.		
	1) Water borne disease	unkno	wn kind:				
General condition of	2) Salinization	No)				
1 ,	3) Metalic taste	No		kind:			
interview	4) the other (Fluoride?))					
Water quality	Tmeperature (°C)	29.4	рН		7.88		
measurement	Conductivity (S/m)	35.2	Salinity	(%)	0.02		
	1) Purpose of use		irriga				
Surface water usage	Quantity of use		unkn				
Bullace water usage	2) Frequency of use		unkn				
	3) Number of users		unkn	own			
Possibility of water	Relative height between	the targeted con	nmune and	(m)			
resource	the surface water	1		. ,			
Related feature	Geological feature		sandy	bed			
Related Teature	Topographical feature		fla	ıt			
	Positional relationship						
Sanitary condition	between livestock,	The villagers w	ash their cattle	es.			
	toilet and drainage						

Table	Surface Water Surv	ey	Date:	20	007 July 12	
Surface water name	N-2-2		Surveyer	K	X.Hirayama	
Province Name	Ninh Thuan		Latitude	10	0°N 46.722	
Commune Name	Cong Hai		Longitude	10	9°E 04.502	
		Height of water s	_	E.L + m		
Kind of surface water	River	0 3	<i>y</i> ()	<u> </u>		
General condition of	Flow Discharge:					
water	Water volume (capacity	<i>i</i>):				
lischarge/volume by nterview Seasonal change of flow discharge/water volume						
	1) Water borne disease			kind:		
General condition of	2) Salinization					
water quality by	3) Metalic taste			kind:		
interview	4) the other (Fluoride?))				
Water quality	Tmeperature (°C)	29.8	pН		7.46	
measurement	Conductivity (S/m)	0.136	Salinity	(%)	0.01	
	1) Purpose of use	Drinking				
Surface water usage	Quantity of use					
Surface water usage	2) Frequency of use					
	3) Number of users	Suoi Vang ham				
Possibility of water	Relative height between	the targeted co	mmune and	(m)		
resource	the surface water			(m)		
Related feature	Geological feature					
Topographical feature						
	Positional relationship					
Sanitary condition	between livestock,					
, i	toilet and drainage					

Table	Surface Water Surv	ey	Date:	200	07 July 9
Surface water name	N-5-1		Surveyer	K.I	Hirayama
Province Name	Ninh Thuan		Latitude	11°	N 30.053
Commune Name	Phuoc Hai		Longitude	1089	°E 57.633
	1	Height of water s		E.L+m	
Kind of surface water	Stream (originally from				
General condition of	Flow Discharge:	1 0		,	
water	Water volume (capacity	<i>y</i>):			
discharge/volume by interview Seasonal change of flow discharge/water volume					
	1) Water borne disease		·L	kind:	
General condition of	2) Salinization	No)		
water quality by	3) Metalic taste	No)	kind:	
interview	4) the other (Fluoride?))			
Water quality	Tmeperature (°C)	29.6	рН		6.84
measurement	Conductivity (S/m)	0.0436	Salinity	(%)	0.02
	1) Purpose of use	Drinking			
Surface water usage	Quantity of use				
Surface water usage	2) Frequency of use				
	3) Number of users	Hoa Thuy hamle			
Possibility of water	Relative height between	the targeted con	nmune and	(m)	
resource	the surface water			(111)	
Related feature	Geological feature				
Related feature	Topographical feature				
	Positional relationship				
Sanitary condition	between livestock,				
	toilet and drainage				

Table	Surface Water Survey	y	Date:	20	07 July 5
Surface water name	N-6-1		Surveyer	K.1	Hirayama
Province Name	Ninh Thuan		Latitude	11°	°N 23.639
Commune Name	Phuoc Dinh		Longitude	108	°E 58.719
	Н	eight of water	surface (level)	E.L+m	
Kind of surface water	River		<i>J</i> ()	P.2	
General condition of	Flow Discharge:				
water	Water volume (capacity)	•			
discharge/volume by interview Seasonal change of flow discharge/water volume		In dry season, dry up			
	1) Water borne disease		I	kind:	
General condition of	2) Salinization				
water quality by	3) Metalic taste			kind:	
interview	4) the other (Fluoride ?)				
Water quality	Tmeperature (°C)	32.6	pН		8.08
measurement	Conductivity (S/m)	0.202	Salinity	(%)	0.10
	1) Purpose of use				
Surface water usage	Quantity of use				
Surface water usage	2) Frequency of use				
	3) Number of users				
Possibility of water	Relative height between t	he targeted co	mmune and	(m)	
resource	the surface water			(<i>m</i>)	
Related feature	Geological feature				
Related feature					
	Topographical feature Positional relationship				
Sanitary condition	between livestock,				
, i	toilet and drainage				

Table	Surface Water Surve	Surface Water Survey			2007 July 23	
Surface water name	B-7-1 (Suoi Cau Be)		Surveyer	K	Hirayama	
Province Name	Binh Thuan		Latitude	11	1°N 15.959	
Commune Name	Da Kai		Longitude	10	7°E 31.381	
	Н	eight of water s	surface (level)	E.L + m		
Kind of surface water	River			1		
General condition of	Flow Discharge:					
water	Water volume (capacity)	Vater volume (capacity):				
discharge/volume by interview	Seasonal change of flow discharge/water vol	In driest seas	driest season , dry up			
General condition of water quality by	 Water borne disease Salinization Metalic taste 	kind:				
interview	4) the other (Fluoride ?)					
Water quality	Tmeperature (°C)	27.3	pН		7.31	
measurement	Conductivity (S/m)	0.0129	Salinity	(%)	0.01	
Surface water usage	1) Purpose of use Quantity of use 2) Frequency of use 3) Number of users					
Possibility of water	Relative height between	the targeted co	mmune and	(m)		
resource	the surface water			(111)		
Related feature	Geological feature					
Sanitary condition	Topographical feature Positional relationship between livestock, toilet and drainage					

DATA 6 GEOPHYSICAL SURVEY

DATA (GEOPHYSICAL SURVEY (

(.1 Results of the VES and the HEP in each Commune

[Legend of the Sheet to Summarize the Results]

Page-1

Province	Name of province	Commune	Commune ID and name	1/2
Survey Points	on Geology Map generate	ed by JICA Study	Team	

Geophysical survey (the VES and the HEP) points are overlaid on geology map generated by JICA Study Team in this study and satellite image as a background.

Enlargement of Location of the Survey Points

Scale of the above map is relatively large to see geological conditions in whole commune. Area of the survey points is enlarged to clarify.

Page-2

Province	Name of province	Commune	Com	mune ID and r	name		2/2
Results of the	HEP	Surface Geo	logy (Bedro	ock)/Geology La	yer at the VES Poi	int	
		Name of Survey Points		Name of Survey Points	Name of Points	f Survey	
Result of th	e HEP is shown by	Name of Survey Points		Name of Survey Points	Name of Points	f Survey	
resistivity	axis shows apparent	points Team. Bedrock based of Geology bedrock geology Be: I An: I	up from the string on surrour	the geology mate type of be ading geology of correspond me of geology Queson Comple Complex ormation inhquan Complex	lex	y JICA ubsurfa availab tioned	Study ace soil le. type of

Results of the VES

Result of the VES is shown by graph that consist of apparent resistivity plot, fitting curve and resistivity model derived from an analysis.

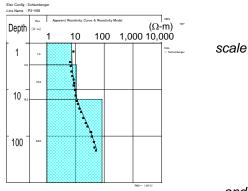
Vertical and horizontal axis of every graph is applied same as shown in right-hand graph.

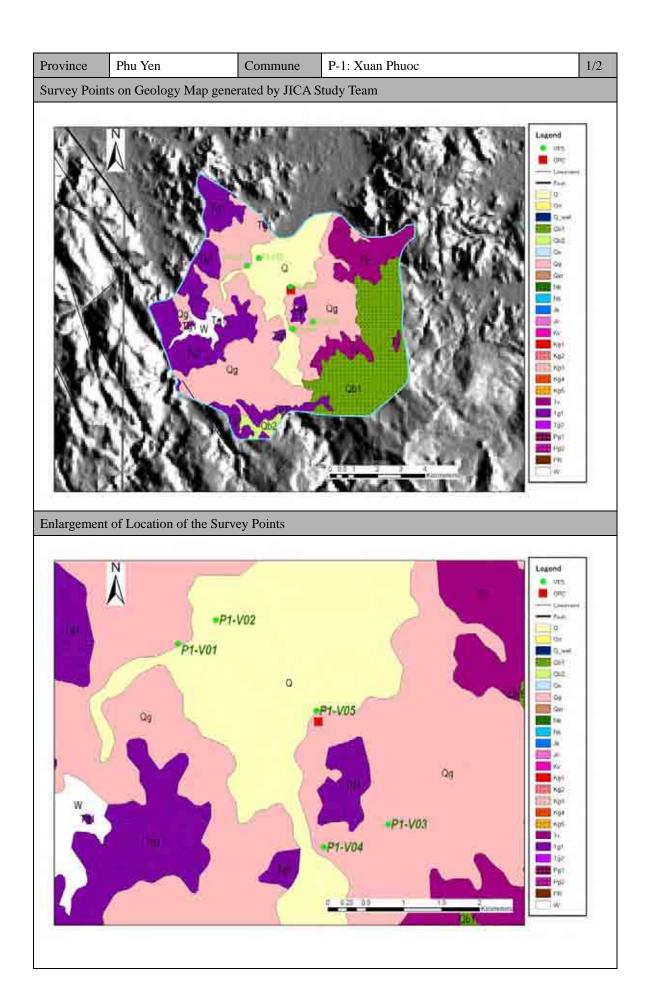
[Features of Apparent Resistivity]

Feature of apparent resistivity with being grouping is described/summarized.

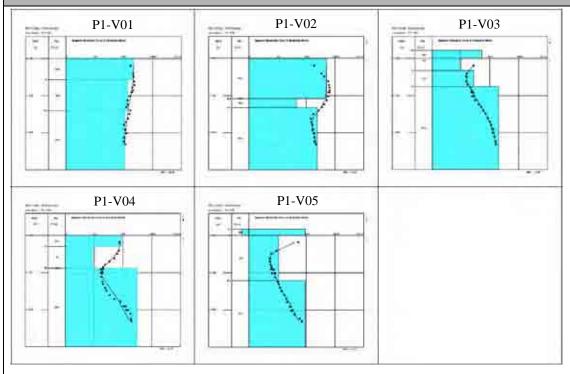
[Estimation of Bedrock / Seawater Intrusion Conditions based on Resistivity Model]

Depth of top of the bedrock, weathering/fracture section and seawater intrusion possibility is summarized. Some comments of boring core also are described with underline.





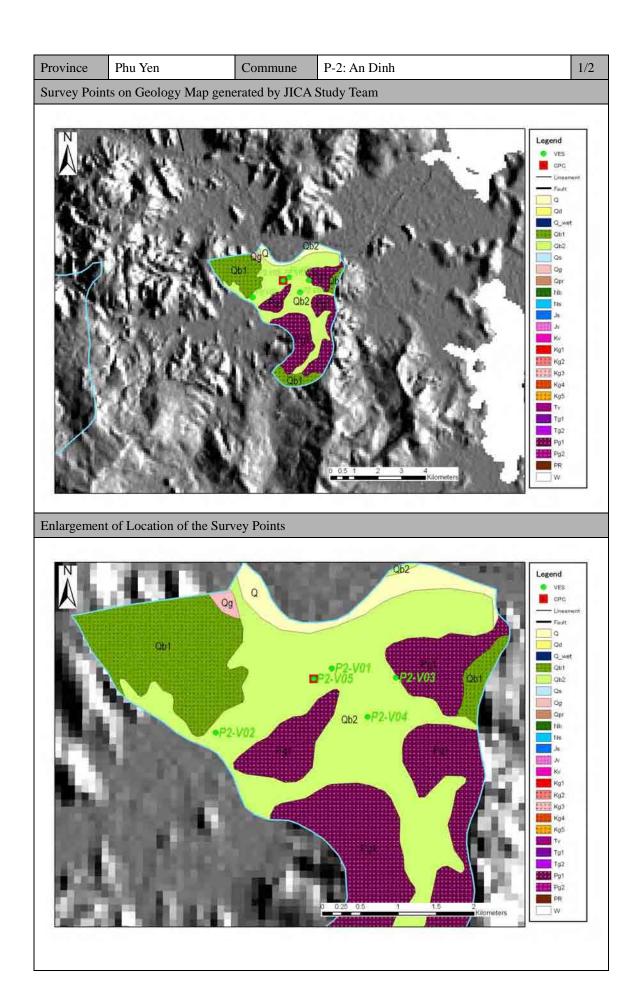
Province	Phu Yen	Commun	e P-1: 1	P-1: Xuan Phuoc 2/2				
Results of the	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point					nt	
None		P1-V01	Qg (Tg1) /Va	P1-V02	Q (Tg1) /Va	P1-V03	Qg (Tg1) /Va	
		P1-V04	Qg (Tg1) /Va	P1-V05	Qg (Tg1) /Va			



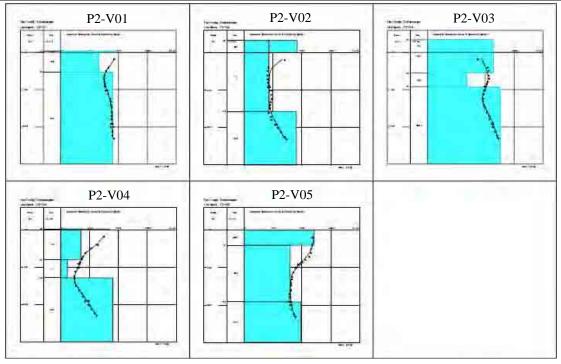
[Features of Apparent Resistivity]

- ➤ V01: Apparent resistivity becomes low value following the deeper part of strata.
- > V02: Apparent resistivity around 10 m and 30 m in depth shows the maximum and the minimum value, respectively. The fitting curve shows inverse-S shape.
- V03, V04, V05: Apparent resistivity from ground surface to around 10 m in depth and the below becomes low value and high value following the deeper part of strata, respectively. V05 generally shows low value of apparent resistivity.

- ➤ V01: Granite with fracture may appear at shallower than 10 m in depth and continue by 100 m in depth. The boring core shows that granite with fracture appeared from 20 m to 50 m in depth.
- ➤ V02: Granite and its fracture sections may appear from near the ground surface and from around 10 m to 20 m in depth, respectively.
- ➤ V03, V04: Granite may appear at shallower than 10 m in depth.
- ➤ V05: Granite may appear from around 10 m to 20 m in depth.



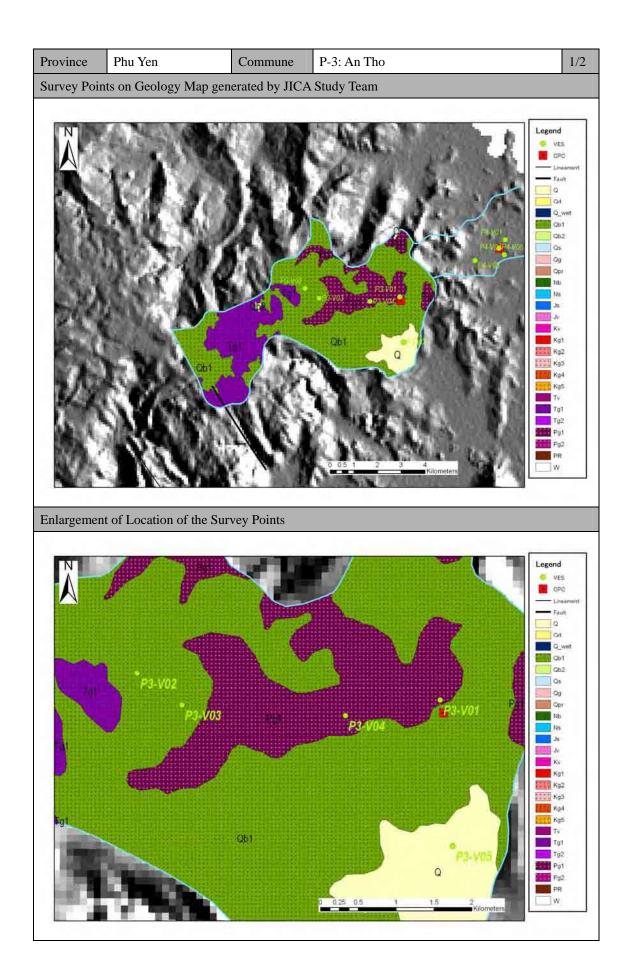
Province	Phu Yen	Commun	e P-2:	P-2: An Dinh				
Results of th	e HEP	Surface Ge	rface Geology (Bedrock)/Geology Layer at the VES Point					
N		P2-V01	Qb2 (Pg1) /Be	P2-V02	Qb2 (Pg1) /Be	P2-V03	Pg1 /Be	
None		P2-V04	Qb2 (Pg1) /Be	P2-V05	Qb2 (Pg1) /Be			



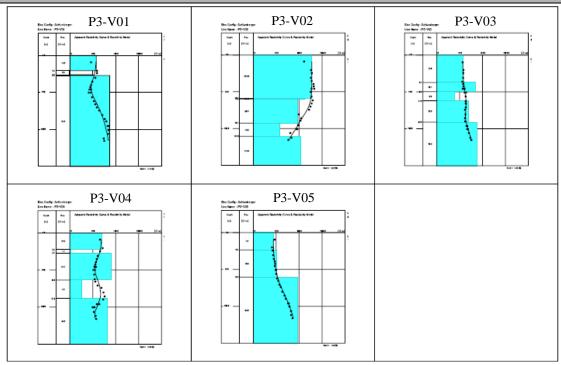
[Features of Apparent Resistivity]

- ➤ V01: Apparent resistivity change with depth is less and its value generally shows low.
- ➤ V02: Apparent resistivity by 40 m in depth and below it shows less change and becomes high value following the deeper part of strata. Its value generally shows low.
- ➤ V03: Apparent resistivity around 20 m in depth shows the minimum value. The fitting curve shows inverse-S shape. Its value shows relatively high.
- ➤ V04: Apparent resistivity from ground surface to around 20 m in depth and the below becomes low value and high value following the deeper part of strata, respectively. Its value generally shows low.
- ➤ V05: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value and less change. Its value generally shows low.

- ➤ V01: Granite may appear at shallower than 10 m in depth. There is concern about seawater intrusion. The boring core shows that granite with fracture appeared from 30 m to 45 m in depth.
- ➤ V02: Granite may appear at around 40 m in depth. There is concern about seawater intrusion.
- ➤ V03: Granite may appear at around 10 m in depth.
- ➤ V04: Granite may appear at around 20 m in depth. There is concern about seawater intrusion.
- ➤ V05: Granite may appear from near the ground surface. There is concern about seawater intrusion.



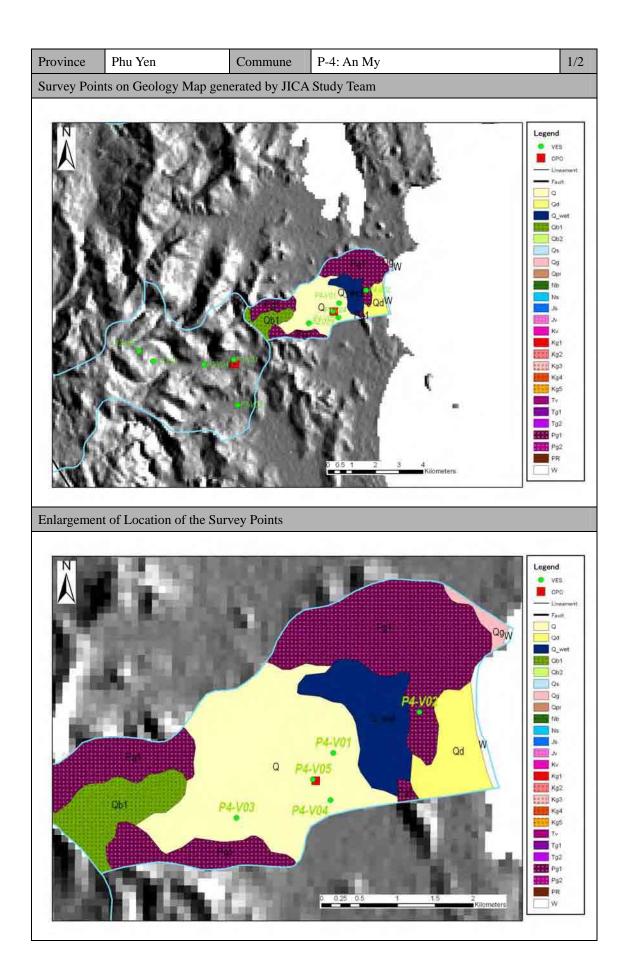
Province	Phu Yen	Commun	e P-3: A	An Tho			2/2
Results of th	e HEP	Surface Geology (Bedrock)/Geology Layer at the VES Point					oint
N		P3-V01	Qb1 /Pl	P3-V02	Qb1 /Be + Pl	P3-V03	Qb1 /Pl
None		P3-V04	Qb1 /Pl	P3-V05	Qb1 /Pl		



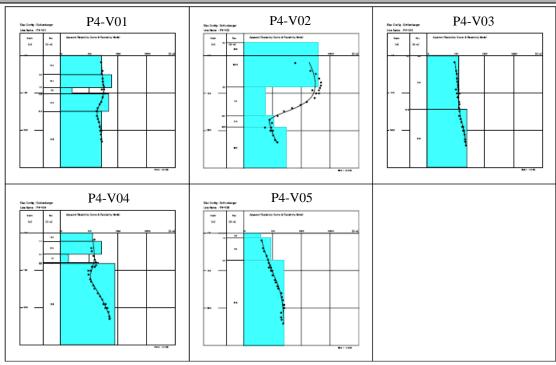
[Features of Apparent Resistivity]

- ➤ V01: Apparent resistivity around 10 m in depth, by 100 m in depth and the below shows the minimum value, becomes high value following the deeper part of strata and low value, respectively. Its value generally shows low.
- ➤ V02: Apparent resistivity by 20 m in depth and the below shows less change and becomes low value, respectively.
- > V03: Apparent resistivity change with depth is less and its value generally shows low.
- ➤ V04: Apparent resistivity from 10 m to 50 m in depth and the below becomes high value and low value following the deeper part of strata, respectively. Its value generally shows low.
- > V05: Apparent resistivity becomes high value following the deeper depth of strata. Its value generally shows low.

- V01: Basalt may appear at shallower than 10 m in depth. The boring core shows that basalt appeared from 3.5m in depth, and sedimentary rock (siltstone / claystone) appeared from 36 m to 41 m in depth and 62 m to 100 m in depths.
- ➤ V02: Granite may appear from near the ground surface. Basalt and its fracture/joint section may appear from around 10 m to 20 m in depth and below around 70 m in depth, respectively.
- V03: Basalt and its fracture / joint section may appear at shallower than 10 m in depth and from around 10 m to 70 m in depth, respectively.
- V04: Basalt and its fracture / joint section may appear at shallower than 10 m in depth and from around 20 m to 60 m in depth, respectively.
- ➤ V05: Basalt may appear from around 10 m to 20 m in depth.



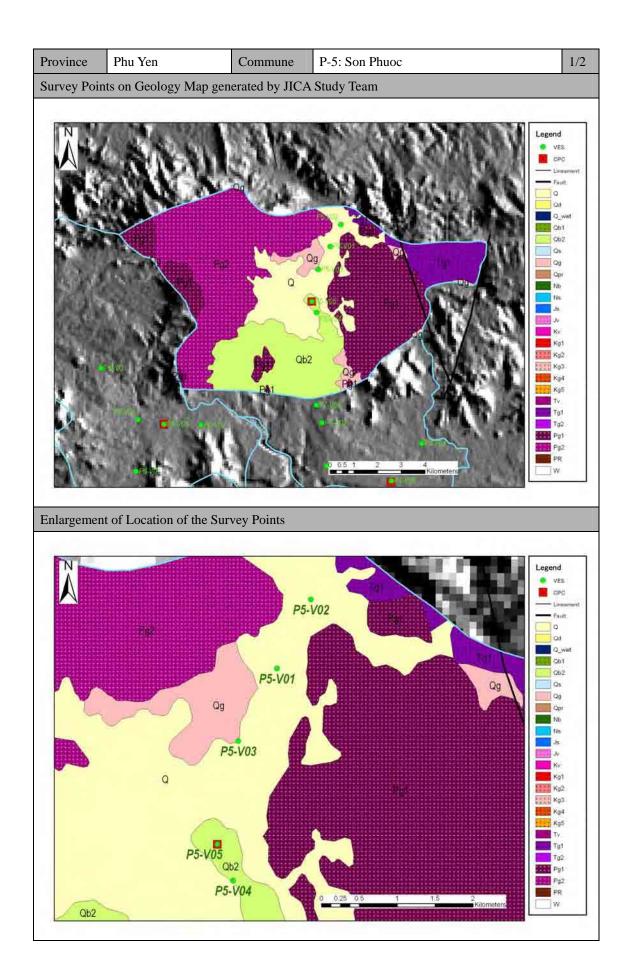
Province	Phu Yen	Commun	e P-4: A	An My			2/2	
Results of th	e HEP	Surface Go	urface Geology (Bedrock)/Geology Layer at the VES Point					
N		P4-V01	Q /Pl	P4-V02	Pg1 /Be + Pl	P4-V03	Q /Pl	
None		P4-V04	Q / Pl	P4-V05	Q / Pl			



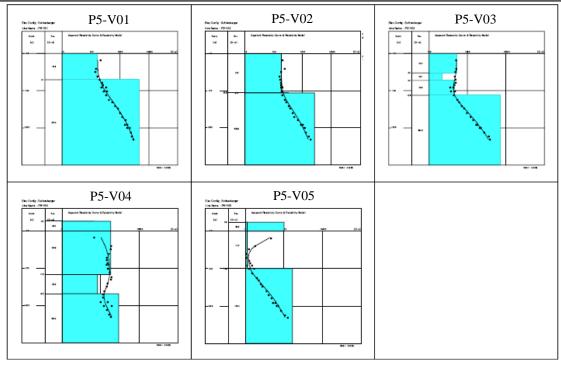
[Features of Apparent Resistivity]

- > V01: Apparent resistivity change with depth is less and the fitting curve shows inverse-S shape. Its value generally shows low.
- ➤ V02: Apparent resistivity by 6 m and the below shows relatively high value and becomes low value following the deeper depth of strata, respectively.
- ➤ V03: Apparent resistivity becomes slightly high value following the deeper depth of strata. Its value generally shows low.
- ➤ V04: Apparent resistivity below 10 m in depth becomes high value following the deeper depth of strata. Its value generally shows low.
- > V05: Apparent resistivity by 100 m in depth and the below becomes high value following the deeper depth of strata and shows less change, respectively.

- ➤ V01: Basalt and its fracture / joint section may appear from near the ground surface and around 10 m in depth with a few meters in thickness, respectively. There is concern about seawater intrusion.
- V02: Granite and basalt with fracture / joint may appear from near the ground surface and from around 10 m to 80 m in depth, respectively. There is concern about seawater intrusion.
- > V03: Basalt with fracture may appear from near the ground surface. The boring core shows that basalt with weathering / fracture and sedimentary rock (siltstone / claystone / sandstone) appeared from 8 m in depth and from 26 m to 100 m in depth, respectively.
- > V04: Basalt may appear at shallower than 10 m in depth. There is concern about seawater intrusion.
- > V05: Basalt may appear at shallower than 10 m in depth. There is concern about seawater intrusion.



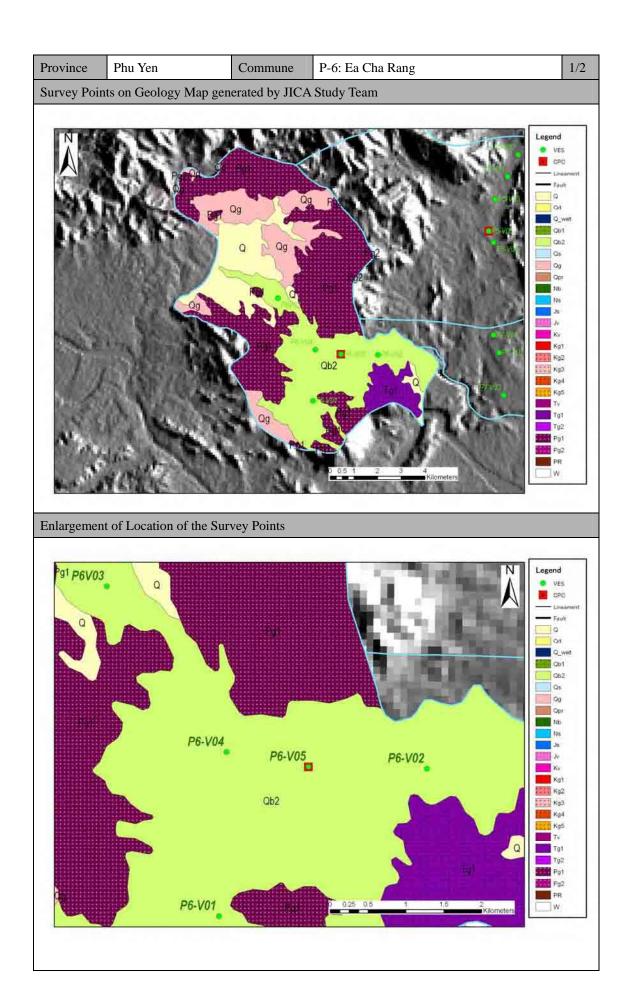
Province	Phu Yen	Commun	Commune P-5: Son Phuoc					
Results of th	е НЕР	Surface G	Surface Geology (Bedrock)/Geology Layer at the VES Point					
		P5-V01	Q (Pg1) /Be	P5-V02	Q (Pg1) /Be	P5-V03	Q (Pg1) /Be	
None		P5-V04	Qb2 (Pg1) /Pl + Be	P5-V05	Qb2 /Pl			



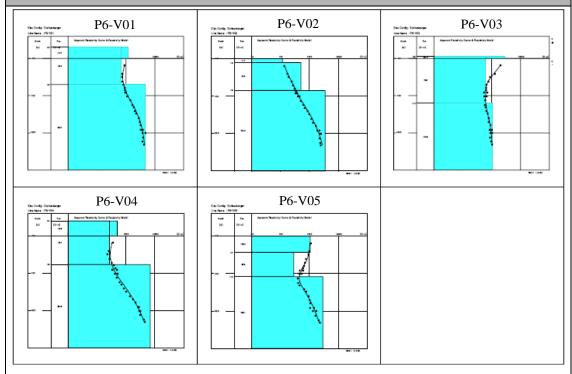
[Features of Apparent Resistivity]

- ➤ V01, V02, V03: Apparent resistivity from ground surface to around 10 m in depth and the below shows less change and becomes high value following the deeper depth of strata.
- ➤ V04: Apparent resistivity change with depth is less.
- ➤ V05: Apparent resistivity by 10 m in depth and the below shows quite low value and becomes high value following the deeper depth of strata.

- ➤ V01: Granite may appear at shallower than 10 m in depth.
- ➤ V02, V03: Granite may appear at around 10 m in depth.
- ➤ V04: Basalt and granite with fracture may appear near the ground surface and from around 10 m to 50 m in depth. The boring core shows that basalt, basalt with fracture / joint and granite with fracture appeared at 1 m in depth, from 10 m to 23 m in depth and from 23 m to 30 m in depth, respectively.
- ➤ V05: Basalt may appear at around 10 m in depth.



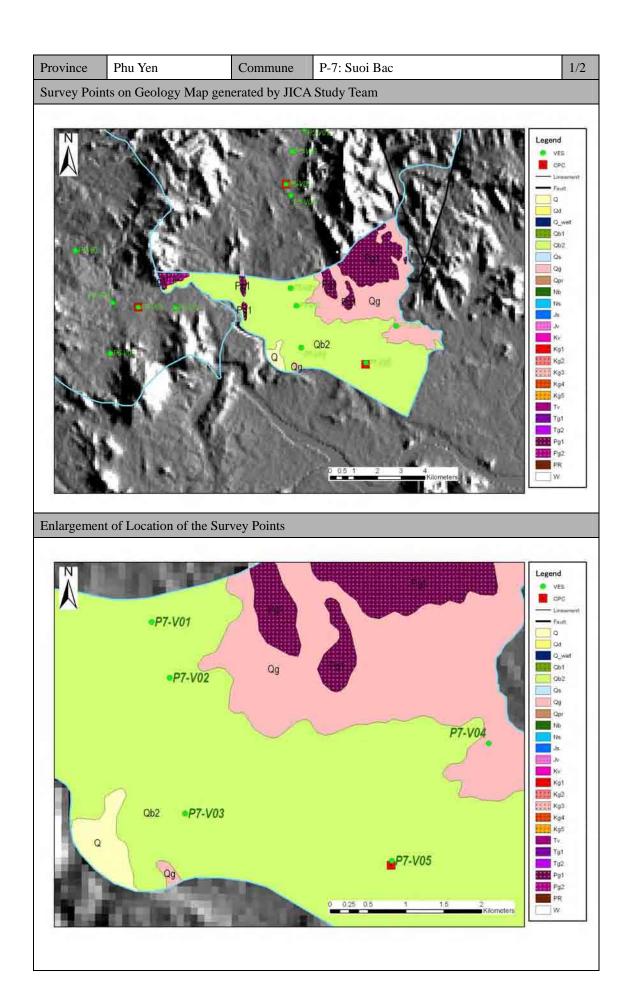
Province	Phu Yen	Commun	Commune P-6: Ea Cha Rang					
Results of th	е НЕР	Surface G	eology (Bed	lrock)/Geolo	ogy Layer a	t the VES Po	oint	
		P6-V01	Qb2 (Pg1)	P6-V02	Qb2 (Pg1)	P6-V03	Qb2 (Pg1)	
None		P0-V01	/Be	F0-V02	/Be	F0-V03	/Be	
None		DC V04	Qb2 (Pg1)	DC V05	Qb2 (Pg1)			
		P6-V04	/Be	P6-V05	/Be			



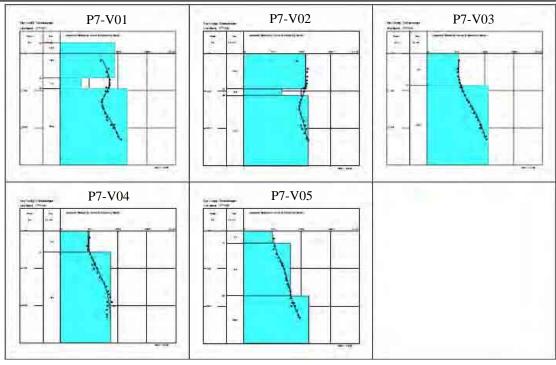
[Features of Apparent Resistivity]

- > V01, V04: Apparent resistivity by 5 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.
- ➤ V02: Apparent resistivity becomes high value following the deeper depth of strata.
- ➤ V03: Apparent resistivity below 5 m in depth shows less change.
- ➤ V05: Apparent resistivity around 10 m in depth and the below shows the minimum value and becomes high value following the deeper depth of strata.

- > V01, V04: Granite may appear at shallower than 10 m in depth.
- ➤ V02: Granite may appear at around 10 m in depth.
- ➤ V03: Granite with weathering / fracture may appear from near the ground surface. The boring core shows that granite with weathering and with fracture appeared from 4m to 10 m in depth and from 10 m to 15 m in depth, respectively.
- > V05: Granite may appear at around 10 m in depth.



Province	Phu Yen	Commun	Commune P-7: Suoi Bac					
Results of th	е НЕР	Surface G	Surface Geology (Bedrock)/Geology Layer at the VES Point					
		P7-V01	Qb2 (Pg1) / Be	P7-V02	Qb2 (Pg1) / Be	P7-V03	Qb2 (Pg1) / Be	
None		P7-V04	Qb2 /Pl	P7-V05	Qb2 (Pg1) /Pl + Be			

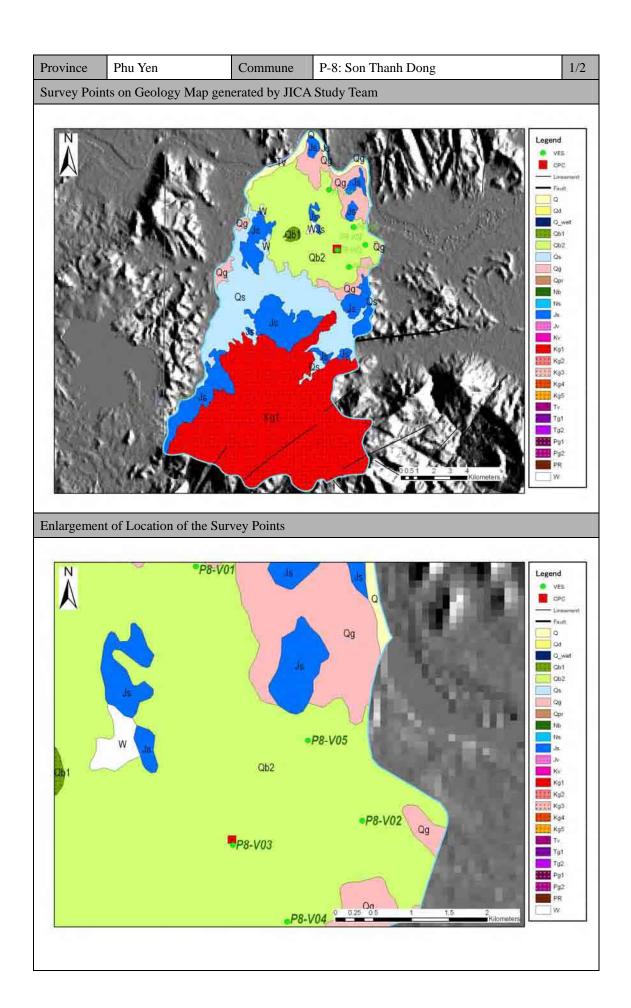


[Features of Apparent Resistivity]

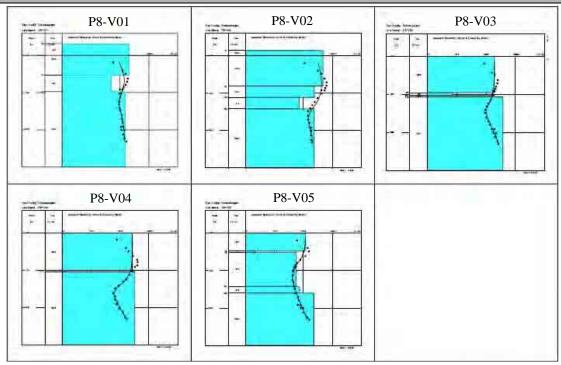
- ➤ V01: Apparent resistivity below 20 m in depth becomes high value following the deeper depth of strata, and the fitting curve shows inverse-S shape.
- ➤ V03, V05: Apparent resistivity becomes high value following the deeper depth of strata.
- ➤ V04: Apparent resistivity by 80 m in depth and the below becomes high value following the deeper depth of strata and shows less change, respectively.

- ➤ V01: Granite with weathering / fracture may appear from near the ground surface to around 10 m in depth.

 The boring core shows that granite with weathering and with fracture appeared from 2.5 m to 7.0 m in depth and from 15 m to 25 m in depth, respectively.
- > V02: Granite may appear at around 10 m in depth.
- ➤ V03: Granite may appear at shallower than 10 m in depth.
- ➤ V04: Basalt may appear at shallower than 10 m in depth.
- ➤ V05: Basalt and granite may appear from near the ground surface and from around 50 in depth, respectively.



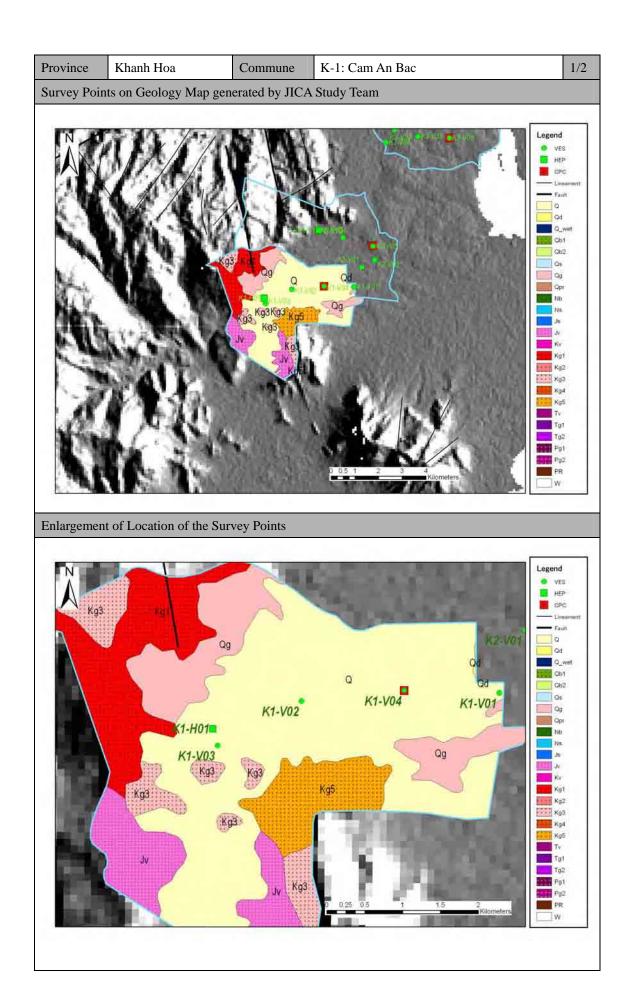
Province	Phu Yen	Commun	Commune P-8: Son Thanh Dong						
Results of th	e HEP	Surface Go	rface Geology (Bedrock)/Geology Layer at the VES Point						
, ,		P8-V01	Qb2 / Pl	P8-V02	Qb2 / Pl	P8-V03	Qb2 / Pl		
None		P8-V04	Qb2 / Pl	P8-V05	Qb2 / Pl				



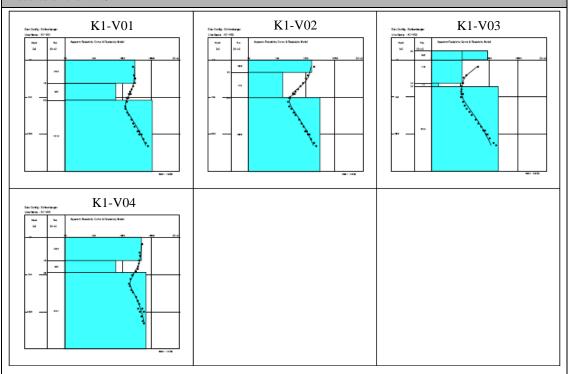
[Features of Apparent Resistivity]

- > V01: Apparent resistivity change with depth is less and the fitting curve shows inverse-S shape.
- ➤ V02: Apparent resistivity below 30 m in depth shows less change.
- ➤ V03, V04: Apparent resistivity below 30 m to 40 m in depth becomes high value following the deeper depth of strata and the fitting curve shows inverse-S shape.
- ➤ V05: Apparent resistivity around 20 m in depth and the below shows the minimum value and becomes high value following the deeper depth of strata, respectively.

- V01: Basalt and its fracture / joint section may appear from near the ground surface and at shallower than 10 m in depth with around 5 m in thickness, respectively.
- V02: Basalt and its fracture / joint section may appear from near the ground surface and from shallower than 10 m in depth with around 20 m in thickness. The boring core shows that basalt with strong weathering, and with fracture appeared from the ground surface to 9.5 m in depth, and from 9.5 m to 38 m in depth and 47 m to 57 m in depth, respectively.
- ➤ V03, V04: Basalt with weathering / fracture may appear from near the ground surface with around 10 m in thickness.
- ➤ V05: Basalt with weathering / fracture / joint may appear from near the ground surface with around 40 m in thickness.



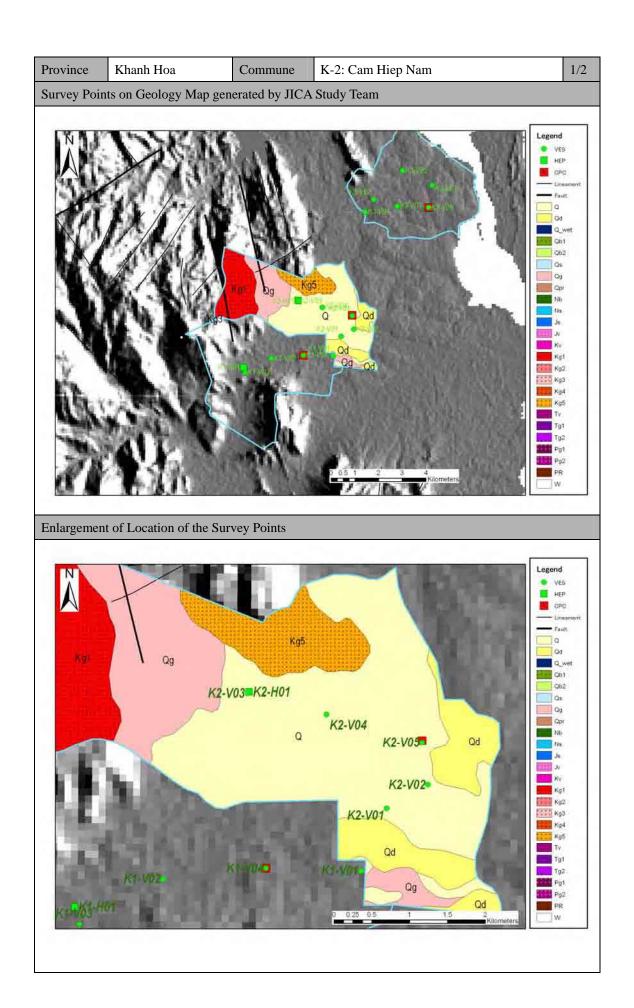
Province	Khanh Hoa	Commun	Commune K-1: Cam AN Bac					2/2
Results of th	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point					oint	
Apparert Resistivity Curve 350 K1-V03: 240 m in distance (0 m = West, 500 m = East)		K1-V01	Q (Kg5	5)	K1-V02	Q (Kg5) /De	K1-V03	Q (Kg3) /De
9 100 100 100 100 100 100 100 100 100 10	200 300 400 500	K1-V04	Q (Kg5	5)		Q (Kg5) /De		Q (Kg5) /De



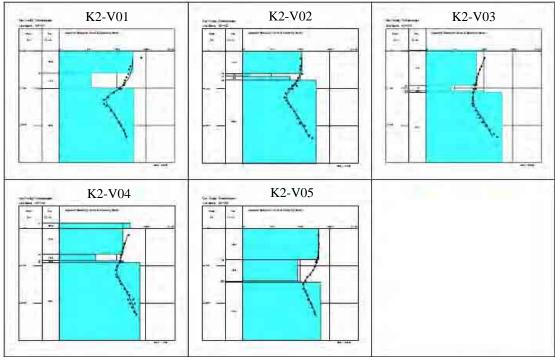
[Features of Apparent Resistivity]

- > V01, V04: Apparent resistivity from ground surface to 15 m in depth and the below shows the minimum value and becomes high value following the deeper depth of strata.
- ➤ V02: Apparent resistivity change is similar to V01 and V02, and its value shows relatively low in comparison with the same.
- > V03: Apparent resistivity from 1 m to 10 m in depth and the below shows less change and becomes high following the deeper depth of strata.

- ➤ V01, V04: Granite may appear at around 10 m in depth.
- ➤ V02: Granite may appear at around 10 m in depth. The boring core shows that granite with weathering / fracture appeared from 11 m in depth
- ➤ V03: Granite may appear at shallower than 10 m in depth.



Province Khanh Hoa	Commun	Commune K-2: Cam Hiep Nam						
Results of the HEP	Surface Geology (Bedrock)/Geology Layer at the VES Point							
1,200 Apparent Reactivity Curve (1,000 K2-V03: 260 m in distance (0 m = \$45W, \$52 m = N45E)	K2-V01	Q (Kg5) /De	K2-V02	Q (Kg5) /De	K2-V03	Q (Kg5) /De		
200 300 400 500 600	K2-V04	Q (Kg5) /De	K2-V05	Q (Kg5) /De				

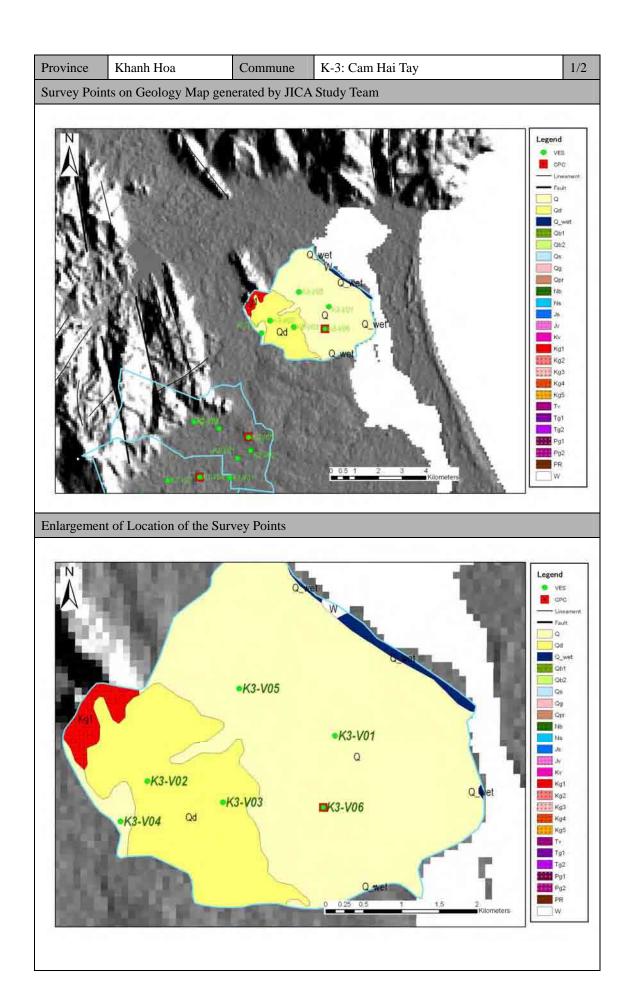


[Features of Apparent Resistivity]

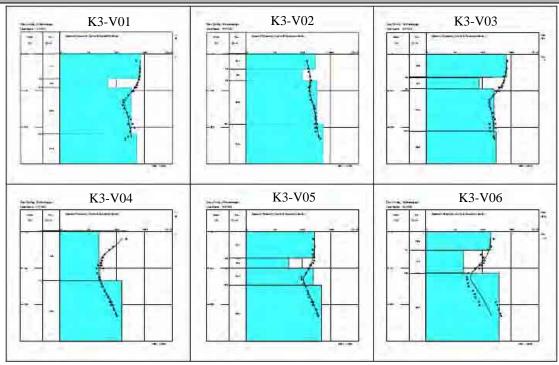
- ➤ V01, V02, V03, V04: Apparent resistivity from ground surface to 20m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V05: Apparent resistivity change from ground surface to 30m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.

- ➤ V01, V03: Granite may appear at around 10 m in depth.
- ➤ V02, V04: Granite may appear at shallower than 10 m in depth.
- ➤ V05: Granite with weathering may appear at shallower than 10 m in depth with around 20 m in thickness.

 The boring core shows that granite with weathering and with fracture appeared from 15 m to 31 m in depth and from 31 m to 35 m in depth, respectively.



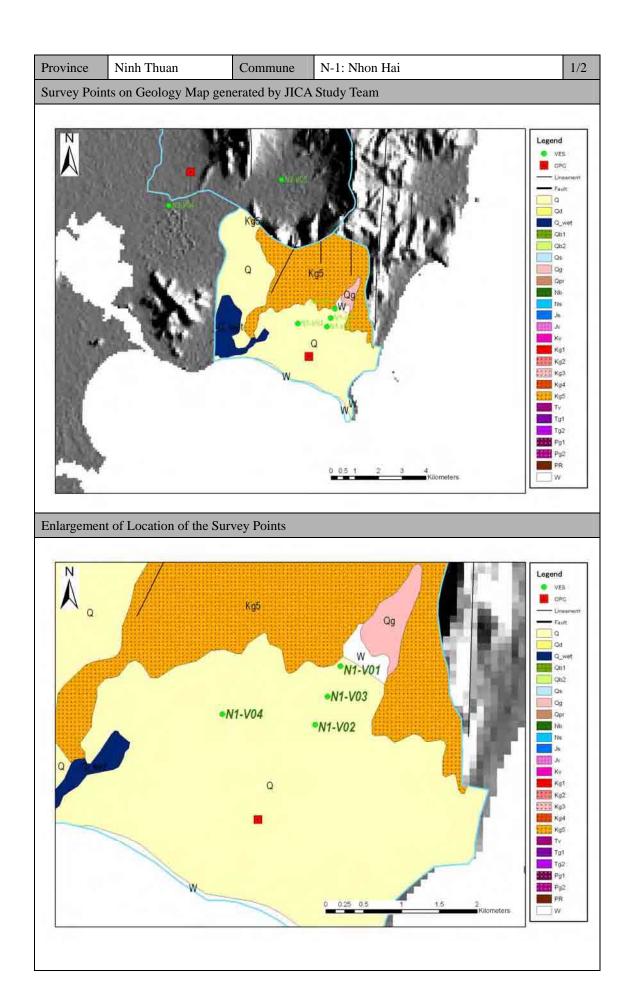
Province	Khanh Hoa	Commun	Commune K-3: Cam Hai Tay						
Results of th	e HEP	Surface Go	urface Geology (Bedrock)/Geology Layer at the VES Point						
, ,		K3-V01	Q (Kg1) /De	K3-V02	Q (Kg1) /De	K3-V03	Q (Kg1) /De		
None		K3-V04	Q (Kg1) /De	K3-V05	Q (Kg1) /De	K3-V06	Q (Kg1) /De		



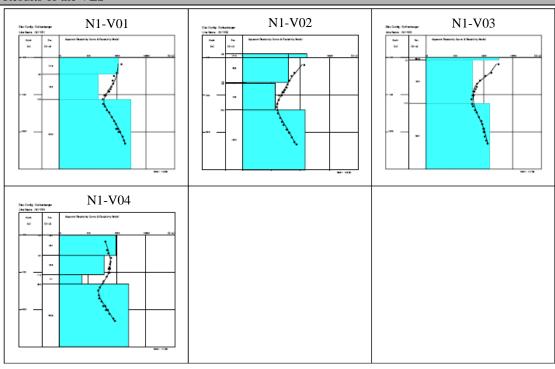
[Features of Apparent Resistivity]

- ➤ V01, V05: Apparent resistivity from ground surface to 20 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V02: Apparent resistivity becomes high value following the deeper depth of strata.
- ➤ V03: Apparent resistivity from ground surface to 20 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.
- ➤ V04: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.

- ➤ V01, V03, V05: Granite may appear at around 10 m in depth.
- ➤ V02: Granite may appear at shallower than 10 m in depth.
- ➤ V04: Granite with fracture may appear from near the ground surface to 20 m in depth. The boring core shows that intrusive andesite and granite with fracture appeared from 10 m to 20 m in depth and from 25 m to 40 m in depth, respectively.
- ➤ V06: Granite may appear at around 10 m to 20 m in depth.



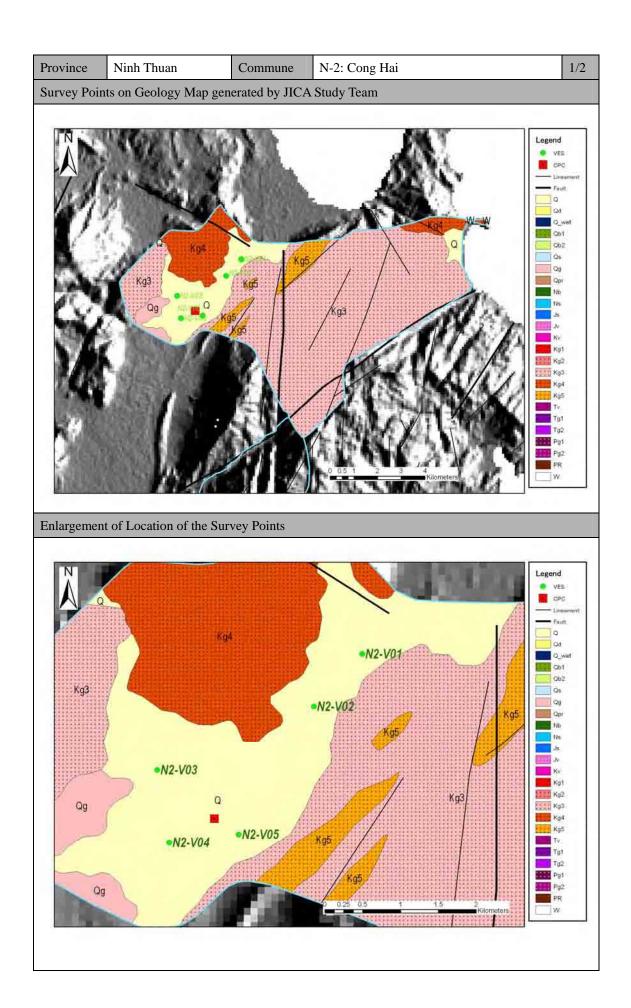
Province	Ninh Thuan	Commun	Commune N-1: Nhon Hai						
Results of th	e HEP	Surface Go	Surface Geology (Bedrock)/Geology Layer at the VES Point						
		N1-V01	Q (Kg5) /De	N1-V02	Q (Kg5) /De	N1-V03	Q (Kg5) /De		
None		N1-V04	Q (Kg5) /De						



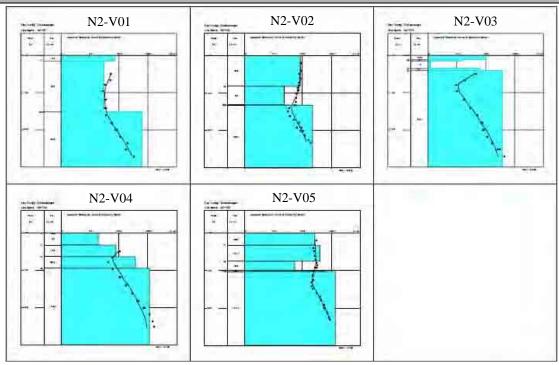
[Features of Apparent Resistivity]

- ➤ V01: Apparent resistivity from ground surface to 10 m 20 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V02, V03: Apparent resistivity change is similar to V01, and its value shows relatively low in comparison with the same.
- ➤ V04: Apparent resistivity below 30 m in depth becomes high value following the deeper depth of strata, and the fitting curve shows inverse-S shape.

- > V01: Granite with weathering / fracture may appear at shallower than 10 m in depth with around 10 m in thickness.
- > V02: Granite with weathering / fracture may appear shallower than 10 m in depth with around 20 m in thickness. The boring core shows that granite with weathering and with fracture form 5 m to 24 m in depth and from 24 m to 59 m, respectively.
- V03: Granite with weathering / fracture may appear from near the ground surface to 20 m in depth.
- ➤ V04: Granite may appear at around 20 m in depth.



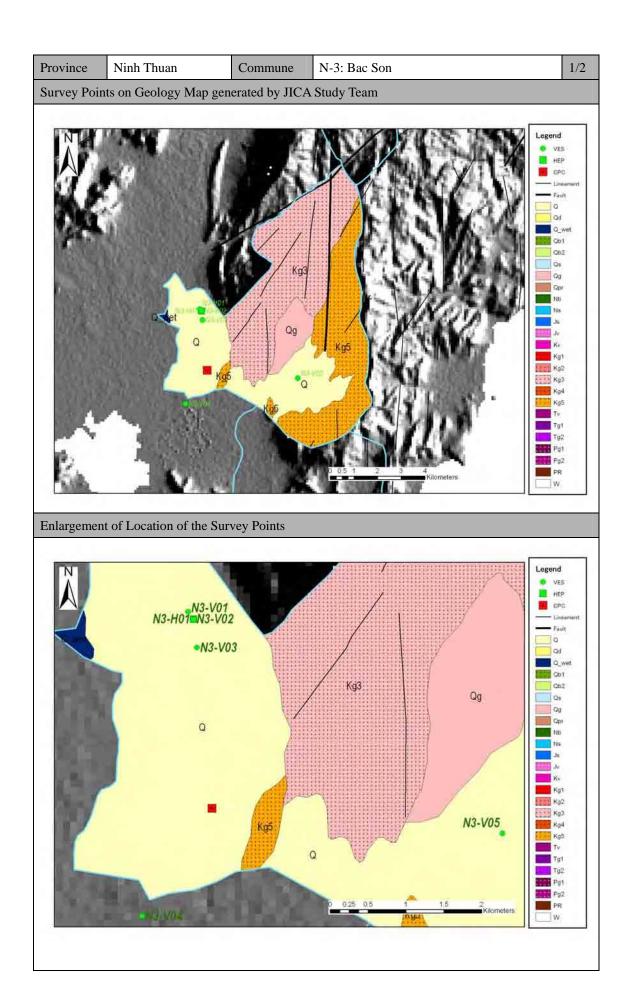
Province	Ninh Thuan	Commun	e N-2:	Cong Hai			2/2
Results of th	e HEP	Surface Geology (Bedrock)/Geology Layer at the VES Point					
, ,		N2-V01	Q (Kg3) /De	N2-V02	Q (Kg3) /De	N2-V03	Q (Kg3) /De
None		N2-V04	Q (Kg3) /De	N2-V05	Q (Kg3) /De		



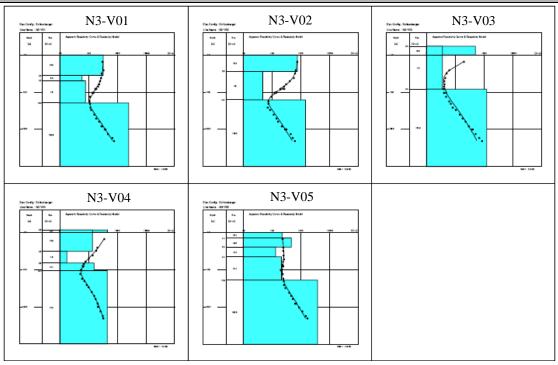
[Features of Apparent Resistivity]

- ➤ V01: Apparent resistivity from ground surface to 30 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V02: Apparent resistivity from ground surface to 10 m in depth, from 10 m to 30 m in depth and the below shows less change, becomes low value and high value following the deeper depth of strata, respectively.
- > V03: Apparent resistivity below 6 m in depth becomes high value following the deeper depth of strata.
- ▶ V04: Apparent resistivity change is similar to V03, and its value shows high in comparison with the same.
- ➤ V05: Apparent resistivity change is similar to V02, and its value shows high in comparison with the same.

- ➤ V01: Granite may appear at around 30 m in depth.
- ➤ V02: Granite with weathering / fracture may appear at shallower than 10 m depth with 10 to 20 m in thickness. The boring core shows that andesite with fracture appeared from 8.7 m to 24 m and the andesite is continued by 100 m in depth.
- ➤ V03: Granite may appear from near the ground surface.
- ➤ V04: Granite may appear at shallower than 10 m in depth.
- V05: Granite and with fracture may appear from near the surface and at around 5 m in depth with around 5 m in thickness, respectively.



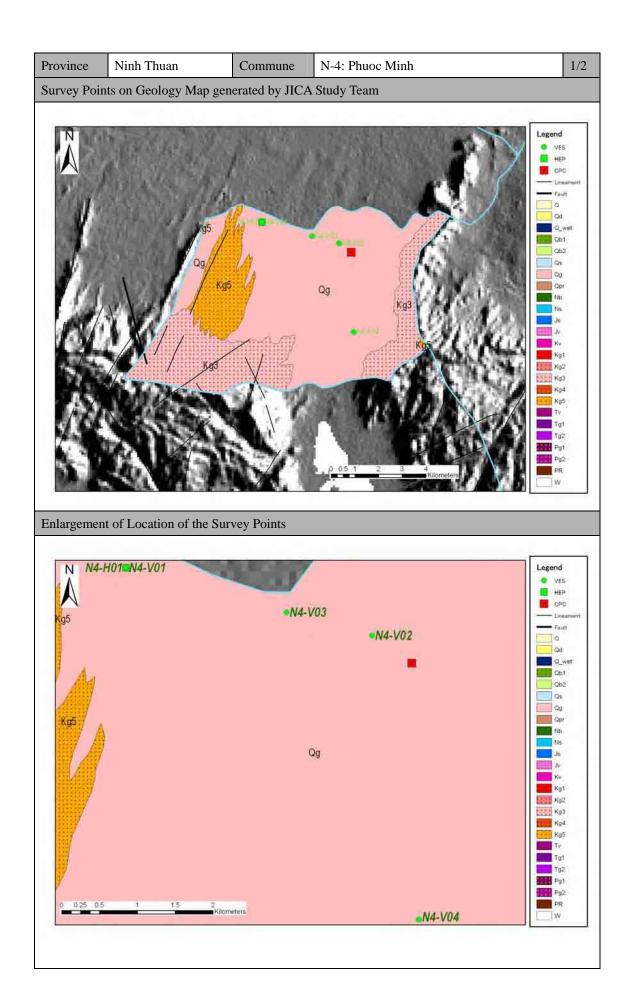
Province	Ninh Thuan	Commun	ie	N-3: Bac Son					
Results of th	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point							
Apparent Residivity Curve 100 100 100 100 100 100 100 1		N3-V01	Q (K /De	(g3)	N3-V02	Q (Kg3) /De	N3-V03	Q (K	(g3)
(O n	n = W, 520 m = E)	N3-V04	Q (K /De	(g3)	N3-V05	Q (Kg3) /De			



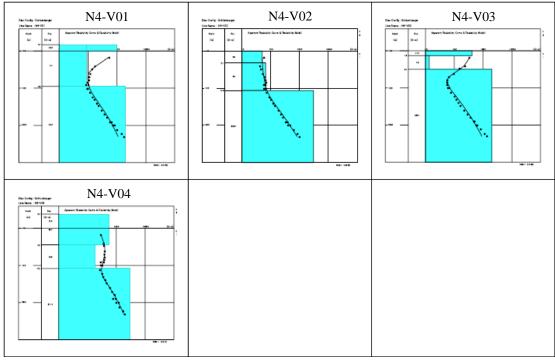
[Features of Apparent Resistivity]

- ➤ V01, V02: Apparent resistivity from ground surface to 20 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V03, V04: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V05: Apparent resistivity from ground surface to 10 m 20 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.

- ➤ V01: Granite with weathering / fracture may appear at shallower than 10 m in depth with around 25 m in thickness. There is concern about seawater intrusion.
- ➤ V02: Granite with weathering / fracture may appear at shallower than 10 m in depth with around 20 m in thickness. There is concern about seawater intrusion. The boring core shows that Granite with weathering and with fracture appeared from 5 m to 11 m in depth and from 11 m to 25 m in depth, respectively.
- > V03, V04: Granite may appear at around 10 m in depth. There is concern about seawater intrusion.
- ➤ V05: Granite may appear at around 20 m in depth.



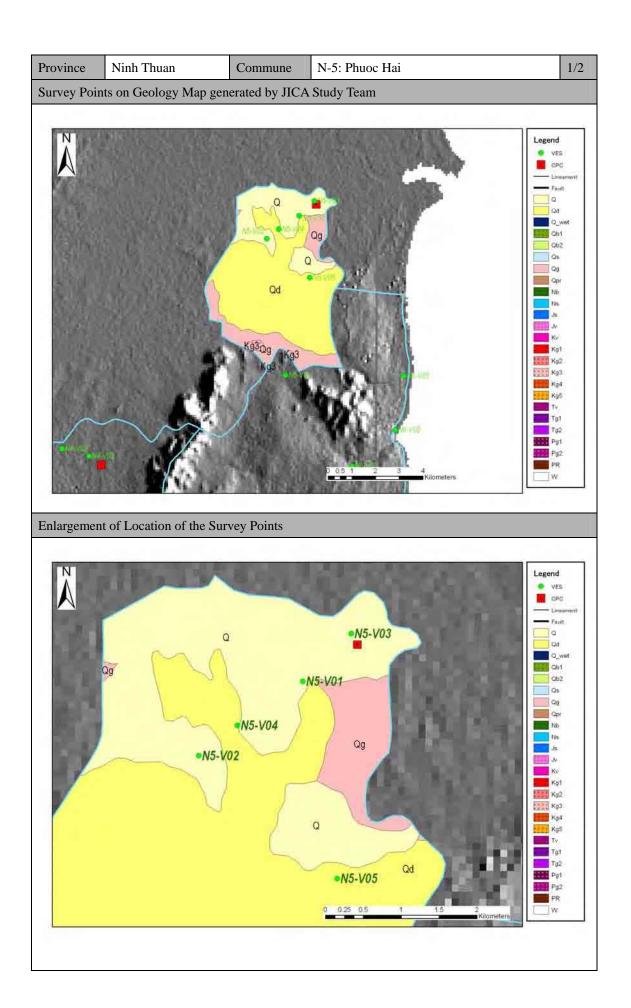
Province Ninh Thuan	Commun	Commune N-4: Phuoc Minh					
Results of the HEP	Surface Geology (Bedrock)/Geology Layer at the VES Point						
Apparent Reactivity Curve 350 Quantification	N4-V01	Qg (Kg3) /De	N4-V02	Qg (Kg3) /De	N4-V03	Qg (Kg3) /De	
0 m = N70W, 520 m = E20 S)	N4-V04	Qg (Kg3) /De					



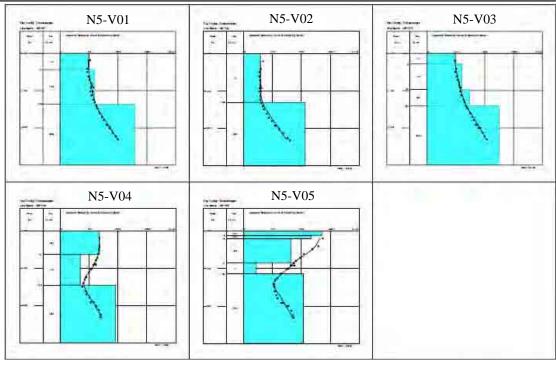
[Features of Apparent Resistivity]

- ➤ V01, V03: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V02: Apparent resistivity from ground surface to 10 m in depth and the below becomes high value gently within 10 ohm-m and low value following the deeper depth of strata, respectively.
- ➤ V04: Apparent resistivity from ground surface to 10 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.

- ➤ V01: Granite may appear at around 10 m in depth. There is concern about seawater intrusion. The boring core shows that granite and with fracture appeared from 2 m to 15 m and from 15 m and 35 m, respectively.
- ➤ V02: Granite may appear at around 10 m in depth. There is concern about seawater intrusion.
- ➤ V03: Granite may appear at shallower than 10 m in depth. There is concern about seawater intrusion.
- ➤ V04: Granite may appear at around 10 m in depth.



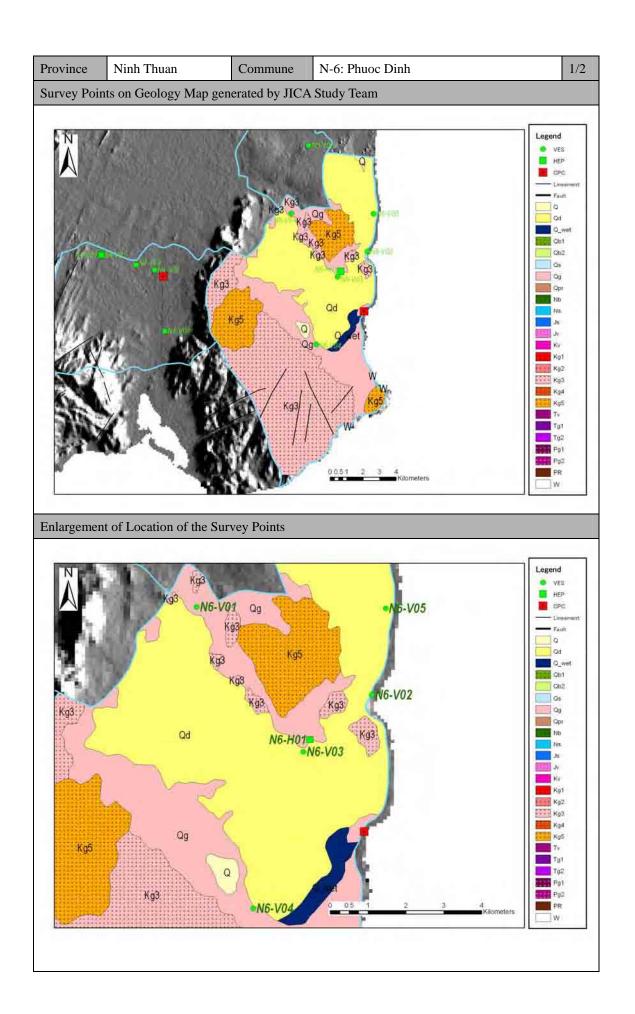
Province	Ninh Thuan	Commun	ommune N-5:						
Results of th	е НЕР	Surface G	Surface Geology (Bedrock)/Geology Layer at the VES Point						
		N5-V01	Q (Kg3) /De	N5-V02	Q (Kg3) /De	N5-V03	Q (Kg3) /De		
None		N5-V04	Qd (Kg3) /De	N5-V05	Qd (Kg3) /De				



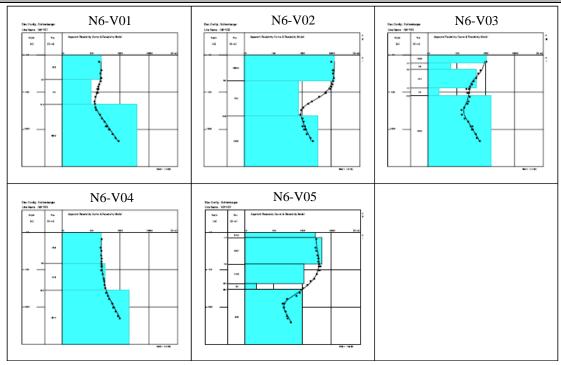
[Features of Apparent Resistivity]

- ➤ V01, V02, V03: Apparent resistivity becomes high value following the deeper depth of strata.
- ➤ V04: Apparent resistivity from ground surface to 30 m in depth and the below becomes low value gently and becomes high value following the deeper depth of strata, respectively.
- ➤ V05: Apparent resistivity from ground surface to 30 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.

- ➤ V01, V03: Granite may appear at around 20 m to 30 m in depth. There is concern about seawater intrusion.
- ➤ V02: Granite may appear at around 20 m in depth. There is concern about seawater intrusion. The boring core shows that granite with weathering and with fracture from 8 m to 16 m in depth and from 16 m to 26.5 m in depth, respectively.
- ➤ V04: Granite may appear at around 30 m in depth. There is concern about seawater intrusion.
- ➤ V05: Granite may appear at around 10 m in depth. There is concern about seawater intrusion.



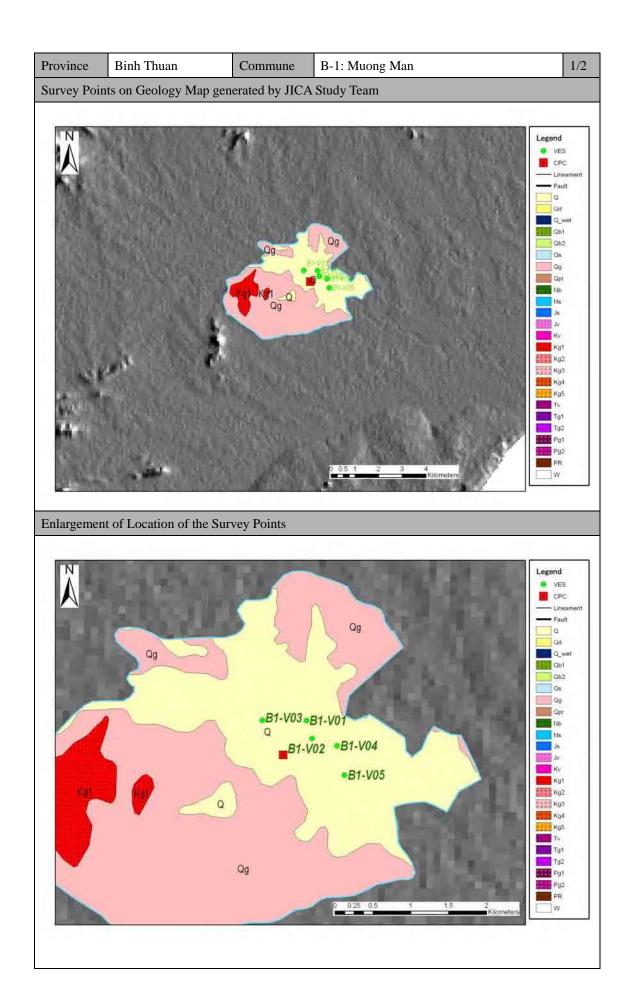
Province Ninh Thuan	Commun	e N-6: 1	Phuoc Dinh			2/2			
Results of the HEP	Surface G	Surface Geology (Bedrock)/Geology Layer at the VES Point							
Apparent Reactivity Curve 350 8 20 NS-V/03: 160 m in distance	N6-V01	Qg (Kg3) /De	N6-V02 Qd (Kg3) N6-V03		Qg (Kg3) /De				
(0 m to 520 m = N40E)	N6-V04	Qg (Kg3) /De	N6-V05	Qd (Kg3) /De					



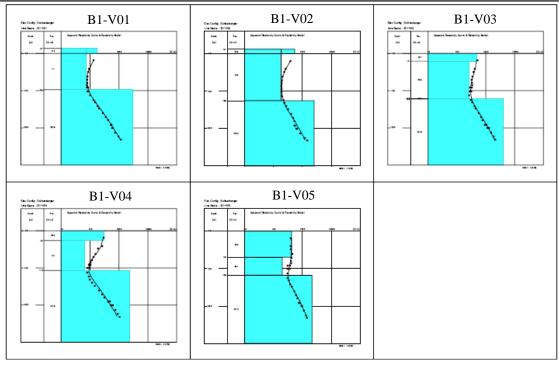
[Features of Apparent Resistivity]

- ➤ V01, V03: Apparent resistivity from ground surface to 20 m 30 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V02, V05: Apparent resistivity above 10 m in depth, from 10 m to 50 m 80 m in depth and the below shows high value in comparison with other depth, becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V04: Apparent resistivity above 10 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.

- ➤ V01: Granite may appear at around 20 m in depth. There is concern about seawater intrusion.
- ➤ V02: Granite and its fracture section may appear from near the surface and at shallower than 10 m in depth with around 40 m in thick ness, respectively.
- ➤ V03: Granite with fracture may appear at around 10 m in depth. The boring core shows that granite with weathering from 15 m to 43 m in depth.
- ➤ V04: Granite with weathering may appear at shallower than 10 m in depth.
- ➤ V05: Granite and its fracture section may appear from near the ground surface and from shallower than 10 m to 100 m in depth, respectively.



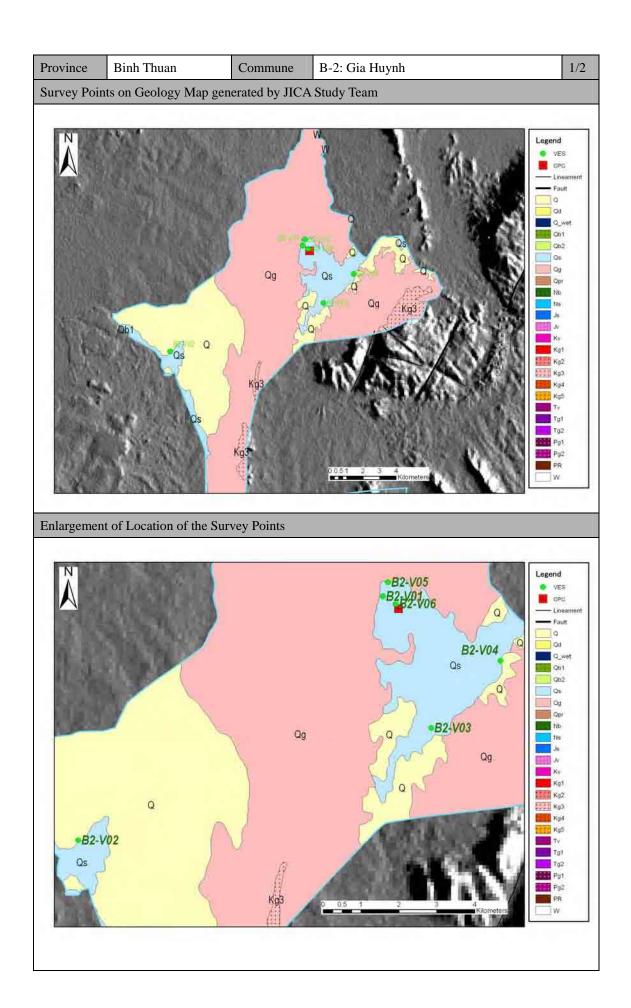
Province	Binh Thuan	Commun	e B-1:	B-1: Muong Man				2/2
Results of th	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point						
None		B1-V01	Q (Js)	B1-V02	Q (Js)	B1-V03	Q (Js)	
		D1-VU1	/Ba	D1-V02	/Ba	D1-V03	/Ba	
		B1-V04	Q (Js)	D1 V05	Q (Js)			
			/Ba	B1-V05	/Ba			



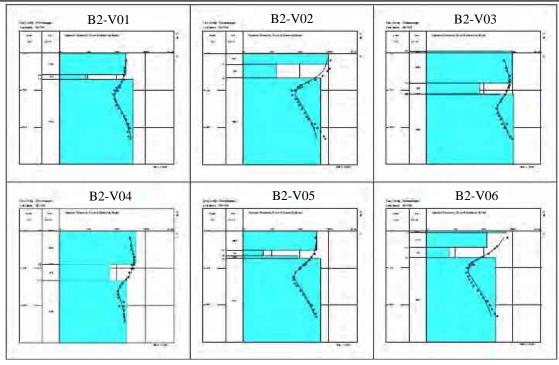
[Features of Apparent Resistivity]

- ➤ V01, V02, V03, V04: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V05: Apparent resistivity above 10 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.

- ➤ V01, V02, V03, V04: Sedimentary rock may appear at around 10 m to 20 m in depth.
- ➤ V05: Sedimentary rock may appear at around 10 m to 20 m in depth. The boring core shows that sedimentary rock (siltstone) with fracture appeared from 10 m to 35 m in depth.



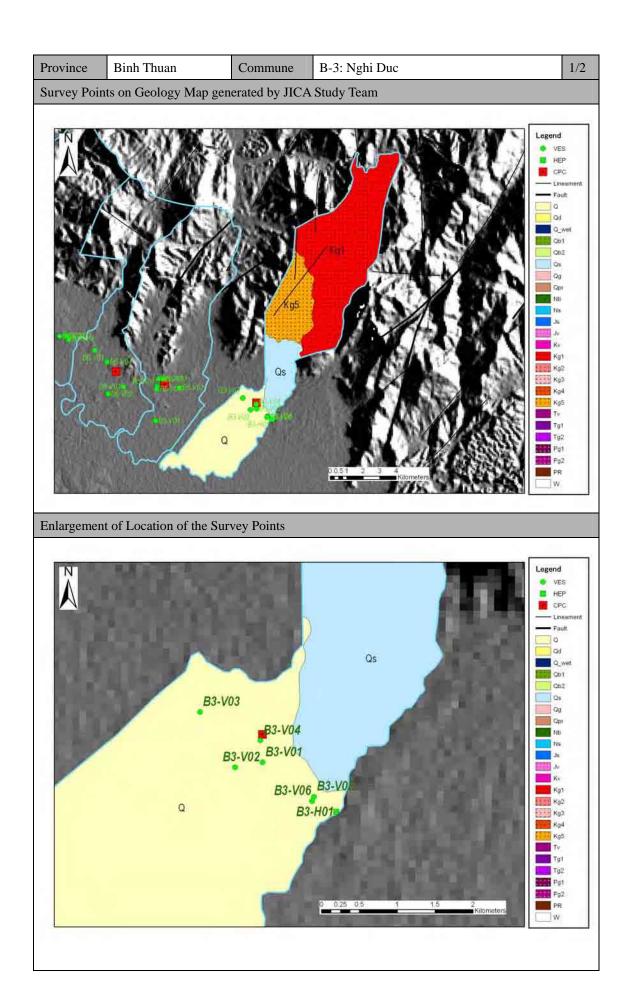
Province	Binh Thuan	Commun	B-2:	B-2: Gia Huynh				
Results of th	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point					oint	
None		B2-V01	Qg (Kg3) /An	B2-V02 Qs (Kg3) B2-V03		Qg (Kg3) /An		
		B2-V04	Qg (Kg3) /An	B2-V05	Qg (Kg3) /An	B2-V06	Qs (Kg3) /An	



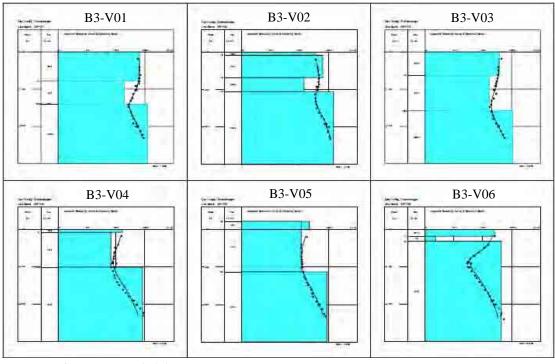
[Features of Apparent Resistivity]

- ➤ V01, V05: Apparent resistivity from ground surface to 15 m in depth and the below becomes low value and high value following the deeper depth of strata, respectively.
- ➤ V02, V06: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value steeply and high value following the deeper depth of strata, respectively.
- ➤ V03: Apparent resistivity around 20 m in depth shows the minimum value, and the fitting curve shows inverse-S shape.
- ➤ V04: Apparent resistivity change is similar to V03, and its value shows high in comparison with the same.

- ➤ V01: Granite may appear at shallower than 10 m in depth. The boring core shows that granite with fracture appeared from 15 m to 20 m and from 30 m to 45 m in depth.
- > V02, V06: Granite may appear at shallower than 10 m in depth.
- ➤ V03: Granite as a hard rock may appear at around 10 m in depth.
- ➤ V04: Granite may appear at around 20 m in depth.
- ➤ V05: Granite may appear at shallower than 10 m in depth.



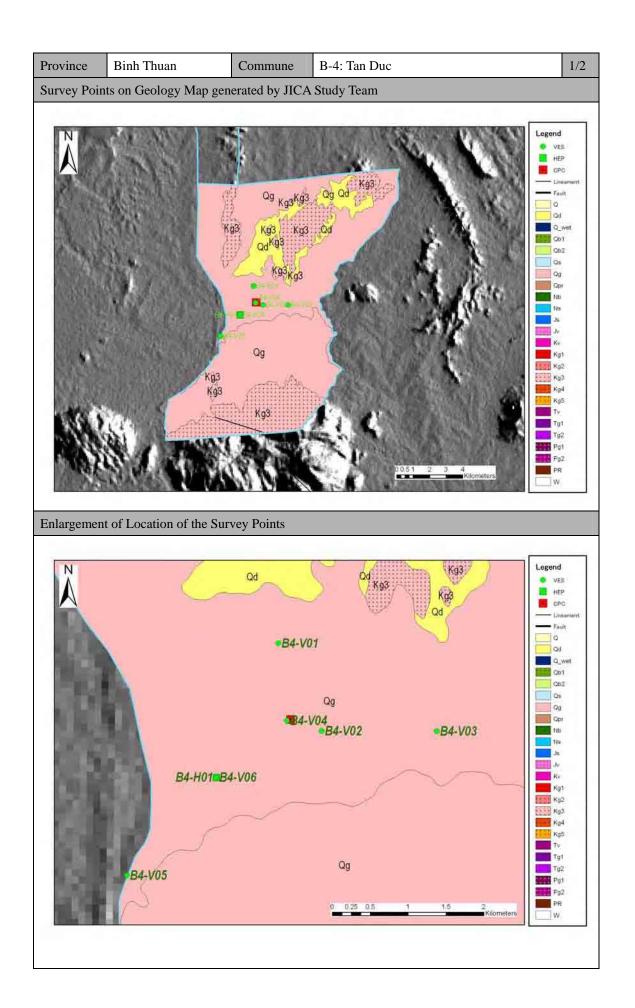
Province Binh Thuan	Commun	e B-3: 1	Nghi Duc			2/2			
Results of the HEP	Surface G	Surface Geology (Bedrock)/Geology Layer at the VES Point							
Apparent Residinly Curve Apparent Residinly Curve B3-V06: 340 m in distance (0 m to 540 m = N75W)	B3-V01	Q (Kg1) /An	B3-V02	Q (Kg1) /An	B3-V03	Q (Kg1) /An			
100 0 1100 200 300 400 500 600	B3-V04	Q (Kg1) /An	B3-V05	Q (Kg1) /An	B3-V06	Q (Kg1) /An			



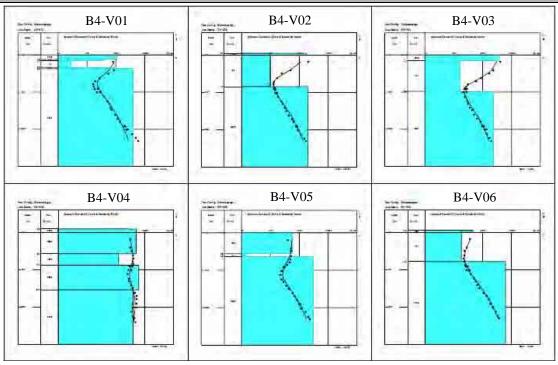
[Features of Apparent Resistivity]

- ➤ V01, V02, V03: Apparent resistivity from ground surface to 30 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V04, V05: Apparent resistivity above 10 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.
- ➤ V06: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value steeply and high value following the deeper depth of strata, respectively.

- ➤ V01, V02, V03: Granite and its fracture section may appear from near the ground surface and at shallower than 10m in depth with around 10 m to 30 m in thickness, respectively.
- ➤ V04, V05: Granite may appear at around 10 m in depth.
- ➤ V06: Granite may appear from near the ground surface. The boring core shows that granite and its fracture section appeared from 8 m to 25 m in depth and from 25 m to 40 m in depth, respectively.



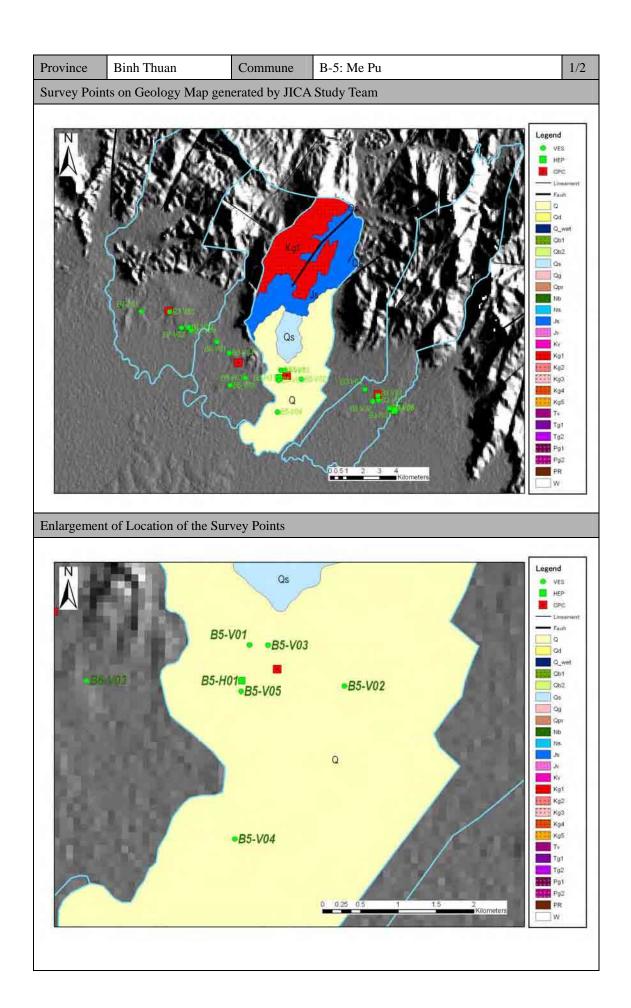
Province	Binh Thuan	Commun	B-4:	B-4: Tan Duc					
Results of th	е НЕР	Surface Geology (Bedrock)/Geology Layer at the VES Point							
Apparent Residinly Cure Apparent Residinly Cure B 4-V06: 260 m in distance (0 m = \$35W, 520m = \$N65E)		B4-V01	Qg (Kg3) /An	B4-V02	Qg (Kg3) /An	B4-V03	Qg (Kg3) /An		
		B4-V04	Qg (Kg3) /An	B4-V05	Qg (Kg3) /An	B4-V06	Qg (Kg3) /An		



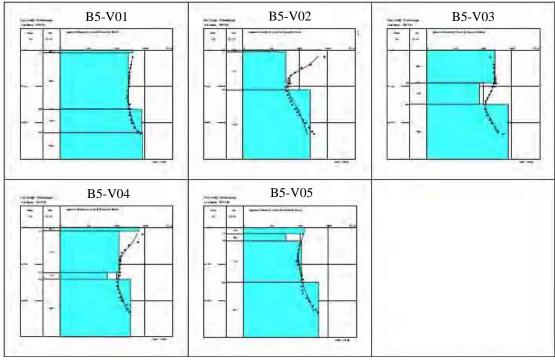
[Features of Apparent Resistivity]

- ➤ V01, V02, V03: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value steeply and high value following the deeper depth of strata, respectively.
- ➤ V04: Apparent resistivity change with depth is less.
- ➤ V05: Apparent resistivity from ground surface to 15 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- ➤ V06: Apparent resistivity from ground surface to 6 m in depth and the below becomes slightly low value and high value following the deeper depth of strata, respectively.

- ➤ V01: Granite may appear from near the ground surface.
- ➤ V02: Granite may appear at shallower than 10 m in depth.
- ➤ V03: Granite may appear at around 10 m in depth.
- ➤ V04: Granite and its fracture section may appear from near the ground surface and shallower than 10 m in depth with a few meters thickness, respectively.
- ➤ V05: Granite may appear at shallower than 10 m in depth. The boring core shows that granite with fracture appeared from 10 m to 20 m in depth and 25 m and 45 m in depth.
- ➤ V06: Granite may appear at shallower than 10 m in depth.



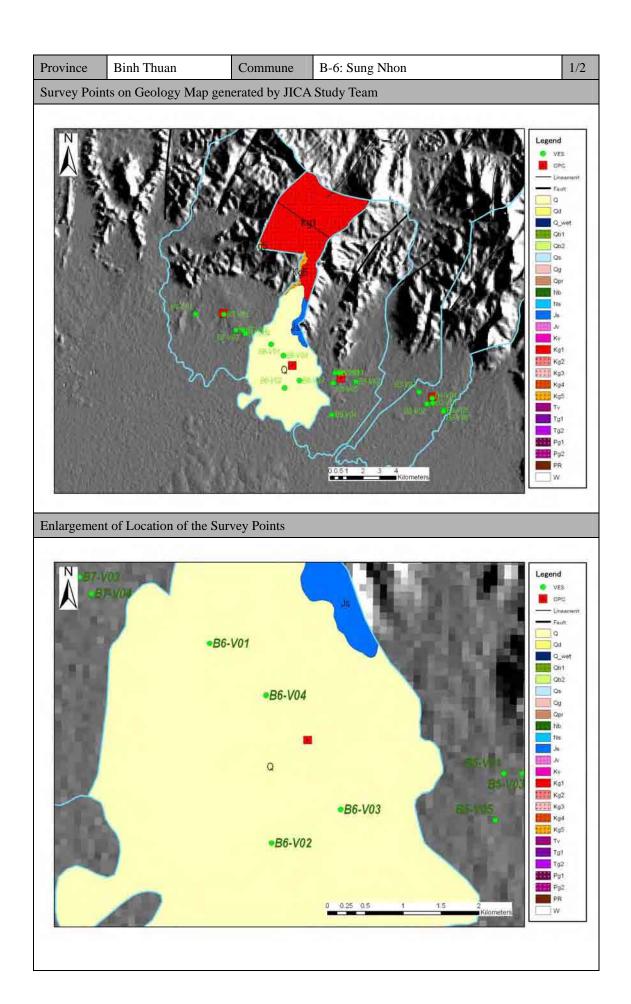
Province	Binh Thuan	Commun	Commune B-5: Me Pu						2/2
Results of th	Surface Ge	Surface Geology (Bedrock)/Geology Layer at the VES Point							
Apparent Resistivity Curve 1,000 900 900 900 900 900 900 900 900 900		B5-V01	Q (Kg1	.)	B5-V02 B5-V03			Q (K	(g1)
		B5-V04	Q (Kg1	.)	B5-V05	Q (Kg1) /An			
Results of the VES									



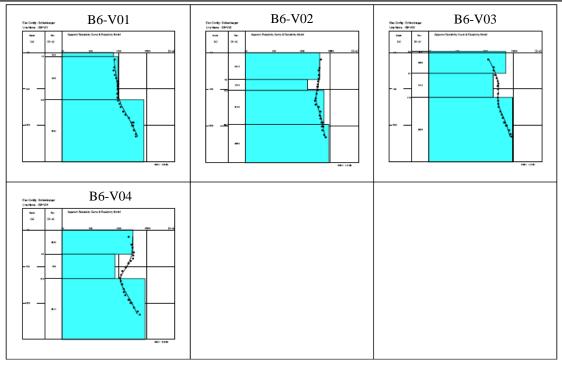
[Features of Apparent Resistivity]

- V01: Apparent resistivity above 40 m in depth and the below shows less change and becomes high value following the deeper depth of strata, respectively.
- V02: Apparent resistivity from ground surface to 10 m in depth and the below becomes low value steeply and high value following the deeper depth of strata, respectively.
- V03: Apparent resistivity from ground surface to 30 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.
- V04: Apparent resistivity from ground surface to 10 m in depth, from 10 m to 40 m in depth and the below becomes low value, shows less change and becomes high value following the deeper depth of strata, respectively.
- V05: Apparent resistivity change is similar to V01, and its value shows low in comparison with the same.

- > V01: Granite with fracture may appear from near the ground surface to around 40 m in depth.
- V02: Granite may appear at around 10 m in depth.
- V03: Granite and its fracture section may appear from near the ground surface and around 10 m in depth with around 20 m in thickness, respectively.
- V04: Granite with fracture may appear from near the ground surface to around 30 m in depth.
- > V05: Granite wit weathering / fracture may appear from near the ground surface to around 30 m in depth. The boring core shows that granite with weathering appeared from 8 m to 29 m in depth.



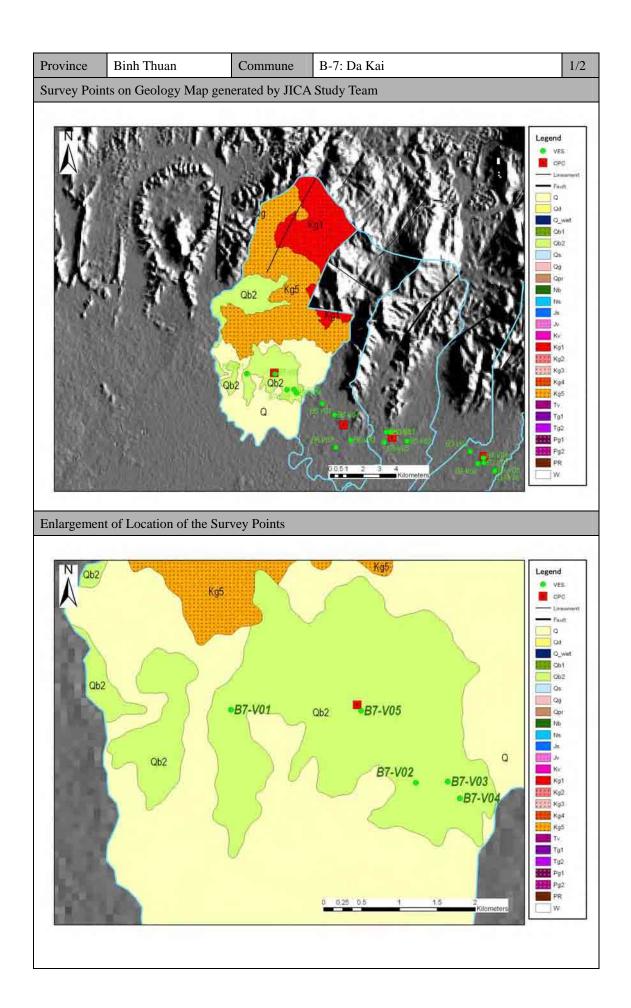
Province	Binh Thuan	Commune B-6: Sung Nhon						
Results of th	sults of the HEP Surface Geology (Bedrock)/Geology Layer at the VES P				oint			
None		B6-V01	Q (Kg1)	B6-V02	Q (Kg1)	B6-V03	Q (Kg1)	
		D0-V01	/An		/An		/An	
		B6-V04	Q (Kg1)					
			/An					



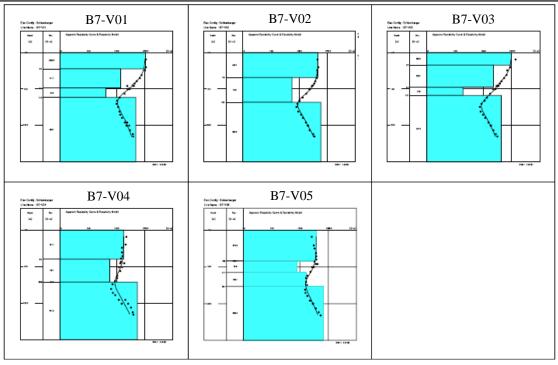
[Features of Apparent Resistivity]

- ➤ V01, V02, V03: Apparent resistivity becomes high value following the deeper depth of strata.
- ➤ V04: Apparent resistivity around 20 m in depth shows the minimum value, and the fitting curve shows inverse –S shape, respectively.

- ➤ V01: Granite may appear at around 20 m in depth.
- ➤ V02, V03: Granite and its fracture section may appear from near the ground surface and shallower than 10 m in depth with around 5 m to 15 m in thickness, respectively.
- ➤ V04: Granite and its fracture sections may appear from near the ground surface and at shallower than 10 m in depth with around 15 m in thickness, respectively. The boring core shows that granite with weathering and with fracture appeared from 3 m to 11 m in depth and from 11 m to 21 m in depth / from 28 m to 43 m in depth / from 57 m to 62m in depth, respectively.



Province	Binh Thuan	Commune B-7: Da kai						
Results of th	Surface Geology (Bedrock)/Geology Layer at the VES Po					oint		
None		B7-V01	Qb2 (Kg5)	B7-V02	Qb2 (Kg5)	B7-V03	Qb2 (Kg5)	
		D 7- V 01	$/\beta Q_{II\text{-}IV}\text{+}An$	D7-V02	$/\beta Q_{II\text{-}IV} + An$		$/\beta Q_{II\text{-}IV}\text{+}An$	
		B7-V04	Qb2 (Kg5)	B7-V05	Qb2 (Kg5)			
			$/\beta Q_{II\text{-}IV} + An$	B/-V05	$/\beta Q_{II-IV} + An$			



[Features of Apparent Resistivity]

➤ V01, V02, V03, V04, V05: Apparent resistivity from ground surface to 20 m – 30 m in depth and the below becomes low value gently and high value following the deeper depth of strata, respectively.

- ➤ V01: Basalt, alteration granite and granite may appear from near the ground surface to around 10 m in depth, the below with around 10 m in thickness and at around 20 m in depth, respectively. The boring core shows that basalt, alteration granite and granite with fracture appeared from 3 m to 10 m in depth, from 10 m to 18 m in depth and from 18 m to 30 m in depth, respectively.
- ➤ V02, V04, V05: Basalt and granite may appear at shallower than 10 m in depth with around 20 m in thickness and at around 20 m to 30 m in depth, respectively.
- ➤ V03: Basalt, alteration granite and granite may appear from near the ground surface to around 10 m in depth, the below with around 5 m in thickness and at around 15 m in depth, respectively.