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## Veterans-For-Change

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													BOREH	DLE/WELL ŁOCATION SKETCH MAP
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PR() &	CT NO.			PROJECT N		BOI	KIN	G A	KE.	A 41	I B-060	$\ \mathbf{f}\ $		
				T TOOLO ! IV	PUVA.		Cam	p Can	roll Are	ea D ar	nd Area 41 RI			
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DEPTH (meters bgs)	PID (ppmv)	BLOWS /	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE	DEPTH (meters bgs)	nscs	GRAPHIC		LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NO WELL INSTALLED
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_			0.7 / 80		M		L -	]		~55%	fine to coarse sand, ~40% fines, moist: dense;	fil soil.	L _	
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-1	li				N		1	CL		LEAN	CLAY with Sand (CL): red (2.5YR 4/6), ~20% fine	e to	<b>-</b>	
_			0.7 / 80			SS		ML.		mediu	m sand, ~80% fines, moist; stiff; fill soil. ML): brownish yellow (10YR 6/6), ~100% fines, m			
-					$\mathbb{A}$			IV.		mediu	m dense; native soil.	iust,		
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me of	unterig.	SUUSUITA	sce conditio	ns may diffe	erato	meriocat	ions and	maych	ange at f	nis locatio	n with the passage of time. The data presented	oisasir	nplification	or actual conditions encountered.
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LOG OF BORING AREA	41 B-061	BOREHOLE / WELL LOCATION SKETCH MAP
Camp Carton Alexander	D and Area 41 (3)  DATE & TIME STARTED  4/3/03 14:10	
Camp Carroll, Taegu, Republic of Korea	DATE & TIME FINISHED 4/3/03 15:00	COORDINATES
DRILLING CONTRACTOR/DRILLER  DRILLING CONTRACTOR/DRILLER  DRILLING CONTRACTOR/DRILLER  DRILLING CONTRACTOR/DRILLER	DRILLING METHOD Direct-Push	DATUM DATUM
DRILLING CONTRACTOR TORILLER  Beautiful Environmental Corp  SAMPLE HAMMER TYPE  SAMPLE HAMMER TYPE	SIZE/TYPE OF BIT	mean sea icvo.
Geoprobe Sampler SCI	REEN Type: Material: PRODUCT SURFA	Length: DATE DATE
YES NO MELL COVER TOP OF WELL CASING TO BLEVATION OF WELL COVER	DP & BOTTOM OF CO.	LISTIS CONSTRUCTION DETAILS
(msl) $\widehat{\wp}$ $\wp$	SURFACE CONDITION:	ModelT installed
(meters bgs) PID PID PID ROWS / DRIVE / RECOVERY (meters 1%) LAB SAMPLE / DD EYTH (meters bgs) PYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	LITHOLOGIC DESCRIPTION	DE (meetr
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- Ca	Velowshied (STIN "OF UK 1000 or fill soil	1 1
1/60	fines, moist, medium surt, dense, moist, medium surt, dense, miss.  CI AYEY SAND (SC): strong brown(7.5YR 4.56), coarse sand, ~40% tnes, truist, dense, becomes at 1.0 meter bgs.	more triable
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	End of Rorehole at 5.0 m.	5
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Camp Carroll, Taegu, Republic of Korea  OXITON Camp Carroll, Taegu, Republic of Korea  OXITON CATION			BORING AR			N A		WELL LOCATION SKETCH MAP	
Camp Carriot, Taseju, Republic of Korea  SIGNED BY  LINKS CONTINUES  Boautiful Environmental Corp  SMANE HAMMERTYPE  Ceoprobe Sampler  Ceoprobe Sampler  Ceoprobe Sampler  LINKS CONTINUES  DATES TIME FRASHED  DIFFECT PUSH  SURFACE ELEVATION  Manual  SURFACE ELEVATION  DATES  LINKS CONTINUES  DATES  CONTINUES  CONTINUES  SURFACE CONDITION  TOP A BOTTOMOR'S SCREEN  FRODUCT SURFACE  GROUNDWITER SURFACE  GROUNDWITER SURFACE  CONDITION  WELL CONSTRUCTS  NO WELL CONSTRUCTS  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  FOR A BOTTOMOR'S SURFACE  CONDITION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  SURFACE CONDITION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  TOP A BOTTOMOR'S SURFACE  CONDITION  SURFACE CONDITION  LITTOCOCK DESCRIPTION  SURFACE CONDITION  SURFACE CONDITION  TOP A BOTTOMOR'S SURFACE  CONDITION  SURFACE CONDITION  TOP A BOTTOMOR'S SURFACE  CONDITION  SURFACE CONDITION  TOP A BOTTOMOR'S SURFACE  CONDITION  SURFACE CONDITION  TOP A BOTTOMOR'S SURFACE  TOP A		PROJECT NAME	Camp Carroll	Area D ar	DATE & TIME STARTED  4/3/03 15:05	]			Ì
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8	VATION OF )	METTONEK		SUF	REACE CONDITION:		H (\$6q)		
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This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of thic to the passage of time. The data presented is a simplification of actual conditions and the passage of time. The data presented is a simplification of actual conditions and the passage of time.	C. UNITS CAMP CARROLL AREA D'AND ANGENTINE TO THE TOTAL TOTA	1/90 00002980	SS CI _ SC	SO 3.	ATSE SAND (SC): very pale brown (10YR 84) to the service of the se	tree sand,			

JECT NO. ATION Ca		OJECT NAM	E	Can	np Cari		D an	PAGE 1 OF 1  B-063  Id Area 41 RI  DATE & TIME STARTED 4/4/03 09:10  DATE & TIME FINSHED 4/4/03 09:20	N +			WELL LOCATION SKETCH MAP
LUNG CONTRACTO	OR/DRILLER						,,,	DRILLING METHOD Direct-Push	CC	ORDINA:		DATUM DATUM
	Beautifu	l Enviro	nment SAMPLE	al Corp HAMMER	TYPE			SIZE / TYPE OF BIT		SURF	ACE EL	EVATION DATUM mean sea level
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LL INSTALLED?	NO <b>3</b>	SING MATE					T\	ype: Material: DTTOM OF SCREEN PRODUCT SURFAC	Leng CE	tp:	ROUNE	Diameter: Sick Size.  WATER SURFACE DATE
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ii)					<u>@</u>	0	SUR	FACE CONDITION:		_	F gg	
(meters bgs) PID (ppmv) BLOWS /	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT SAMPLE	TYPE DEPTH	(meters bg	GRAPHIC LOG		LITHOLOGIC DESCRIPTION			DEPTH (meters bgs)	NOWELLINSTALLED
u)	0.7/80	CC063SS0	H	ss _	S		~55 CL/ ~60	AYEY SAND (SC): strong brown (7.5YR 5/6), ~5% fine to coarse sand, ~40% fines, moist; dens AYEY GRAVEL with Sand (GC); strong brown (7.5% gravet, ~20% sand, ~20% fines, moist; dense	SYPC : s; fill s	x/6). ;oil. /	 	
-1	1.5/70			-	-2		ora gra	AYEY SAND (SC): strong brown(7.5YR 4.56), -5 vel, -75% fine to coarse sand, -20% fines, mois	oyo a⊓ st;dea	150.	  2	
-2				-	-3	&		End of Borehole at 2.3 m.	•		3-3-	
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This log is part time of drilling.	t of the report p Subsurface o	repared for conditions m	the name ay differ a	ed project at other lox	and shou ations an	id be read to d may char	ogether nge at ti	with that report for complete information. This is location with the passage of time. The data	sum: presi	nary app ented is a	a simplifi	cation of actual conditions encountered.

LOG O	F BORING AREA 41  Camp Carroll Area D ar	od Area 41 RI	N †
		4/4/03 10:45	
Camp Carroll, Tae	gu, Republic of Korea REVIEWED BY	DATE & TIME FINISHED 4/4/03 10:48	COORDINATES
CONTROL OF THE CHILD		DRILLING METHOD  Direct-Push	OUNTAGE ENATION DATUM
NING METHOD	ronmental Corp SAMPLE HAMMER TYPE	SIZE/TYPE OF BIT	mean sea level
a Campler	ATERIAL / DIAMETER SCREEN	yoe: Material:	Length: Diameter: Slot Size: CE GROUNDWATER SURFACE DATE
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(meters bgs) PID (ppmv) BLOWS / DRIVE / RECOVERY (meters / %) LAB SAMIPLE	EXTENT SAMPLE TYPE DEPTH (meters bgs) USCS LOG LOG	LITHOLOGIC DESCRIPTION	(SB) NOWELL INSTALLED
(0,7780) Not sam	sc sc cu	AYEY SAND (SC); strong brown (7.5YR 5/6), ~55° dium sand, ~45% fines, moist; dense; quartz vein J.4 meters bgs.	% fine to inig at 0.1
]     "		End of Borehole at 0.8 m.	
This log is part of the report prepared time of drilling. Subsurface condition			

Camp Carroll, Taegu, Republic of Korea  Camp Carroll, Taegu, Republic of Korea  DATE & TIME STARTED  4/3/03 15:10  DATE & TIME FINSHED  4/3/03 15:25  DRILLING METHOD  Direct-Push  Beautiful Environmental Corp  SAMPLE HAMMER TYPE  SIZE / TYPE OF BIT  SURFACE ELEVATION  Mean sea level  Type: Material: Length: Diameter: Side Size:  Type: Material: Length: Diameter: Side Size:  Type: Material: Length: Diameter: Side Size:  Type: Material: Length: GROUNDWATER SURFACE DATE  EVATION OF WELL COVER TOP OF WELL CASING TOP & BOTTOM OF SCREEN PRODUCT SURFACE GROUNDWATER SURFACE DATE													BC	REHOLE	/WELL LOCATION	SKETCH MAP
Camp Carroll, Teaps. Republic of Korea  ASSISTANCE CONCENTRATE  COMPONENTIAL PROPERTY OF SERVICE STATE PROPERTY OF SERVICE			LO	G OF	В	OR	ING	AF	REA	41		PAGE 1 OF 1	N 4			
ACTION Camp Carroll, Tagous, Broadle of Kores  Camp Carroll, Tagous, Broadle of Kores  ASSISTANCE CHIEF PRINCE  English Derivation  Mark of High Prince  ASSISTANCE CHIEF PRINCE  CASSISTANCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE CHIEF PRINCE  CASSISTANCE CHIEF PRIN	OJECT NO.	<del></del>	PR	DJECT NAM	E				II A 400	D an	d Area 41 RI					
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LIL DISTORTION OF VILL COLORS  VILL COLORS	MPLING METH	<del>100</del>		1	SAMP	LE HAM	MERTYP	E			SIZE/TYPE OF AT				m	ean sea level
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SANDY LEARCLAY (CL.) red Library (1.5) red (1.	isl)									SURF	ACE CONDITION:			(SB	WELL CONST	RUCTION DETAILS
Sendor LEAN CLAY (CLAY of LAY) and CLAY (SA) of the focus of the control of the local of the control of the local of the control of the local of the control of the local of t	DEFIN leters bgs) PID (ppmv)	SLOWS / DRIVE	DRIVE / ECOVERY neters ( %)	LAB SAMPLE 1D	EXTENT	SAMPLE TYPE	DEPTH meters bgs	nscs	GRAPHIC LOG			SCRIPTION		DEPTH (meters by	NOWE	LLINSTALLED
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CLAYEY SNO (SC) strong borner (2 Pictor), which we is a common (2	4 1			CC065SS0	×	SS SS	<u> </u>			yello fines	wish red (5YR 4/6), ~50% tin s, some dark staining at 0.2 to	0.3 meters bgs;	ili soil.	1 -		
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LING CONTRACTOR	R/DRILLER	ironmental Co	rp		Direct-Push SIZE / TYPE OF BIT	SU	RFACE EL		DATUM 1 sea level
IDLING METHOD		SAMPLE HAMME	ERTYPE		SZETTPEOFAI	<u> </u>			
Geoprobe	Sampler CASING N	NATERIAL/DIAMETE	R	SCREEN	ype: Material:	Length:	ON IOGO	Diameter: ! WATER SURFACE:	Slot Size: DATE
YES NO VATION OF	WELL COVER	TOPOFV	WELL CASING	TOP&B	INDEE TO THE PRODUCT SURFA	Ut:		WELL CONSTRUC	TION DETAILS
I)			्वा	SUR	FACE CONDITION:		] - [g]		
(meters bgs) PID (ppmv) BLOWS / DRIVE	DRIVE / RECOVERY (meters / %) LAB SAMPLE	ID EXTENT SAMPLE TYPE	DEPTH (meters bgs) USCS	GRAPHIC	LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NOWELLIN	ISTALLED
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JECT NO. ATION Cam	PROJEC	TNAME	C	amp (	Carrol		PAGE 1 OF 1  1 B-068  Ind Area 41 RI  DATE & TIME STARTED 4/4/03 13:40  DATE & TIME FINISHED 4/4/03 13:50	N	DREHOLE		
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	Beautiful Er	vironme	PLE HAM	OTD MERTYPI	Ē		SIZE / TYPE OF BIT	SU	RFACE EL	EVATION <b>me</b>	an sea level
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LL INSTALLED? YES NO	[CASIN	3 MATERIAL				1	Type: Material:	Length: ACE	GROUNI	Diameter: DWATER SURFACE	DATE.
EVATION OF	WELL COVER		TOPOF	WELLC	ASING		30,100,00		TT	WELL CONSTR	UCTION DETAILS
(1)				<u>@</u>		o si	RFACE CONDITION:		[ <sup>도</sup> 양		
(meters bgs) PID (ppmv) BLOWS / DRIVE	DRIVE / RECOVERY (meters / %) LAB	SAMPLE ID EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NOWEL	LINSTALLED
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45014							HIGA	D air	DATE & TIME STARTED 4/4/03 14:00				
Cam GED BY	p Carroll	. 16	Rep EVIEV	ublic VED BY	of Kor	ea			DATE & TIME FINISHED 4/4/03 14:10				
GOVERNO OUT	(ORILLER	ا عاط							DRILLING METHOD Direct-Push	CO	ORDINA		
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EVATION OF I)		T						SURF	FACE CONDITION:			gs)	WELL CONSTRUCTION DETAILS
(meters bgs) PID (pp.mv) BLOWS /	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	00.1	LITHOLOGIC DESCRIPTION			DEPTH (meters bgs)	NO WELL INSTALLED
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1-]					- - -	SC		CL/ mex	AYEY SAND (SC); strong brown (7.5YR 5/6), ~55 dium sand, ~45% lines, moist; dense; highly wea	5% fin athere	eto xd.	1 <del></del> 1	
	1,4 / 80									·		- 2-	
					-  -  -  -				End of Borehole at 2.2 m.				-
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time of drilling. S	ubsurface co	onditions ma	ay defe	a an onne	i Kajidaa e	, cesull	,.,		<del></del>	partici leasy			

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UNIS CONTINGER (PRILER  UNIS CONTINGER)  Beautiful Environmental Corp  South Supplied Push  S	Camp Carroll, Tae	egu, Republic of Korea	DATE & TIME FINISHED		
REAL PROPERTIES AND THE SAME HAVE TYPE  SOME TYPE OF BIT  SOME TYP	100		DRILLING METHOD		
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ILINSTALLEDY VEST VEST VEST VEST VEST VEST VEST VEST	PLING METHOD	SAMPLE HAMMER I THE			
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SURFACE CONDITION    SURFACE CONDITION   SURFACE CONDITION   Surface   Surfa	100	TOP OF WELL CASING TOP & BC	OTTOM OF SCREEN PRODUCT CO.		WELL CONSTRUCTION DETAILS
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BOREHOLE/WELL LOCATION SKETCH MAP PAGE 1 OF 2 LOG OF WELL AREA D #12 PROJECT NAME Camp Carroll Area D and Area 41 Rt PROJECT NO. DATE & TIME STARTED 4/13/03 09:29 LOCATION Camp Carroll, Taegu, Republic of Korea DATE & TIME FINISHED 4/13/03 11:40 LOGGED BY 6 COORDINATES TRILLING METHOD Hollow-Stem Auger DRILLING CONTRACTOR TO DATUM 66 SURFACE ELEVATION FED I mean sea level SIZE / TYPE OF BIT HAMMER TYPE SAMPLING METHOD Hydraulic Hammer Split-Spoon Sampler SCREEN Slot Size: Diameter: 2 CASING MATERIAL / DIAMETER Length: 6.1 m Material: PVC DATE WELL INSTALLED? GROUNDWATER SURFACE Type: Slotted Sch 40 PVC / 2" PRODUCT SURFACE TOP & BOTTOM OF SCREEN YES 🗰 4/13/2003 TOP OF WELL CASING WELL COVER WELL CONSTRUCTION DETAILS ELEVATION OF m/mDEPTH (meters bgs) (msl) SURFACE CONDITION: DEPTH (meters bgs) GRAPHIC LOG LAB SAMPLE ID DRIVE / RECOVERY (meters / %) SAMPLE EXTEN USCS LITHOLOGIC DESCRIPTION meters PVC Top Cap CLAYEY SAND with Gravel (SC): strong brown (7.5YR 5/6) 50% mottled with reddish yellow(7.5YR 7/6), ~15% gravel, ~50% sand, ~35% fines, low, moist; dense; fill material. sc 2/16/20/200.6098 / 7 CLAYEY SAND (SC): strong brown (7.5YR 5/6), ~10% gravel, ~60% medium to coarse sand, ~30% fines, moist; dense. SC 11/14/9/9 0.6098 / 100 SANDY LEAN CLAY (CL): reddish yellow(7.5YR 7/8), -30% sand, ~70% lines, stiff to very stiff. CL 0.6098 / 100 4/8/9/9 CLAYEY SAND (SC): brown (7.5YR 54), -10% gravel, -60% medium to coarse sand, -30% fines, moist; medium dense. SC 0.6098 / 78 6/6/5 SANDY LEAN CLAY (CL): yellowish red (5YR 5/6), ~20% sand, ~80% fines, medium to low, moist; stiff. CL CLAYEY SAND (SC): brown (7.5YR 4/4), ~10% fine gravel, ~70% sand, ~20% fines, medium dense. 0.6098791 4/5/8/8 SC 0.6098 / 88 2/8/7/7 CLAYEY SAND (SC): dark reddish brown(5YR 2.52). ~70% medium to fine sand, ~30% fines, moist; medium dense. 0.6098 / 88 4/5/3/5 SC ģ 1/2" Dia. Bentonite 1836 SANDY ( FAN CLAY (CL): yellowish red (5YR 5/6), moist; soft. CL 2121216 0.609977 AREA 41.GPJ SANDY LEAN CLAY (CL): yellowish red (5YR 56), -20% sand, -80% fixes, medium to low, moist very stiff. CL. CLAYEY SAND (SC): olive (5Y 5/3), -70% sand, -30% fines, CAMP CARROLL AREA D AND SC 9/10/7/6 0.6098 / 88 SILTY CLAY with Sand (CL): dark yellowish brown (10YR 3/4), ~20% sand, ~80% fines, fill material. ÇL SILTY CLAY with Sand (CL): dive brown (2.5Y 4/4), -20% sand, -80% fines, wet, fill material. CL. 1/3/2/3 b.6098 / 100 This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of this boring / well and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

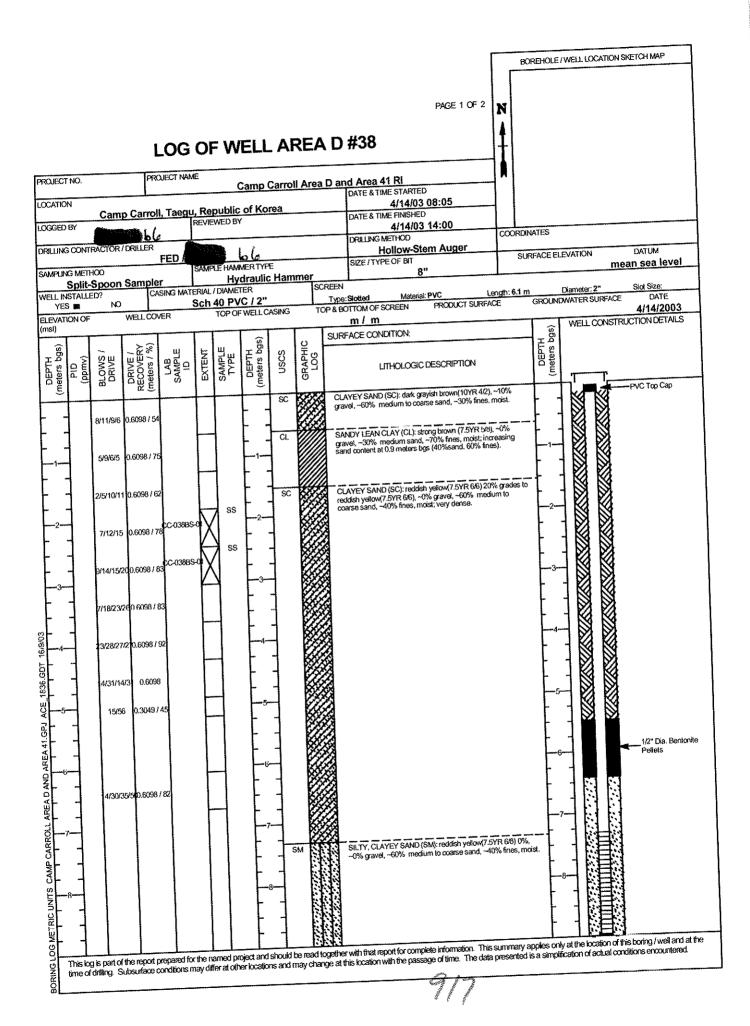
BOREHOLE/WELL LOCATION SKETCH MAP PAGE 2 OF 2 LOG OF WELL AREA D #12 PROJECT NAME PROJECT NO. Camp Carroll Area D and Area 41 RI DATE & TIME STARTED LOCATION 4/13/03 09:29 Camp Carroll, Taegu, Republic of Korea DATE & TIME FINISHED LOGGED BY 4/13/03 11:40 We WELL CONSTRUCTION DETAILS DEPTH (meters bgs) SURFACE CONDITION: DEPTH (meters bgs) GRAPHIC LOG LAB SAMPLE ID SAMPLE TYPE EXTENT USCS LITHOLOGIC DESCRIPTION SANDY SILTY CLAY (CL): strong brown (7.5YR 5/8), ~20% sand, ~80% fines, wet; native soil. Slotted PVC Casing 2/3/6/5 0.6098 / 96 CLAYEY SAND (SC); brownish yellow (10YR 6/6), -60% fine to medium sand, -40% fines, wet. 3/4/8/10 0.6098 / 75 Threaded PVC End 2/3/5/9 0.6098 / 0 End of Borehole at 12.5 m. 1836.GDT 16/9/03 CAMP CARROLL AREA D AND AREA 41.GP. This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of this boring / well and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

SCEED BY  SILLING CONTRACTOR/DRILLER  FED /	SAMPLE HAMMER TYPE Hydraulic Hammer ATERIAL / DIAMETER Sch 40 PVC / 2" TOP OF WELL CASING TOP & I  TOP OF WELL CASING TOP & I  TOP & I  TOP OF WELL CASING TOP & I  T	#8/03 09:00  DATE & TIME FINSHED  #/8/03 11:00  DRILLING METHOD  Hollow-Stem Auger  SIZE / TYPE OF BIT  8"	50% (S) (S) (S) (S) (S) (S) (S) (S)
Camp Carroll, Taes  GED BY  LING CONTRACTOR/DRILLER  FED A  FED	SAMPLE HAMMER TYPE  HAMPiraulic Hammer  ATTERIAL / DIAMETER  Sch 40 PVC / 2"  TOP OF WELL CASING  TOP & E  TOP	A/8/03 11:00  DRILLING METHOD  Hollow-Stem Auger  SIZE / TYPE OF BIT  8"  Note: Stotted Material: PVC Length BOTTOMOF SCREEN PRODUCT SURFACE  m / m  RFACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6) 57 notitled with strong brown (7.5YR 5/6), ~5% gravel, ~65% naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4) naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4) sand, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4) fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4) -20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR - ~35% fine to coarse, subangular gravel, ~40% sand, ~2 fines, medium dense; fill material.	SURFACE ELEVATION DATUM mean sea level  th: 6.1 m Diameter: 2" Stot Size:  GROUNDWATER SURFACE 4/10/2003  WELL CONSTRUCTION DETAILS  SO% % fine  PVC Top Cap  WR 4/6), 30%  VR 4/6), -25%
PLING CONTRACTOR/DRILLER   FED       PLING METHOD   Split-Spoon Sampler   CASING M   YES   NO   CASING M   YES   NO   NO   CASING M   YES   NO   NO   NO   NO   NO   NO   NO   N	SAMPLE HAMMER TYPE Hydraulic Hammer  ATERIAL / DIAMETER Sch 40 PVC / 2" TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP & E  TOP OF WELL CASING TOP & E  TOP & E	DRILLING METHOD Hollow-Stern Auger  SIZE / TYPE OF BT 8"  N DOE: Stotted Material: PVC Length BOTTOM OF SCREEN PRODUCT SURFACE m / m  RFACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6): 5/ nottlied with strong brown (7.5YR 5/6), ~5% gravel, ~65% of coarse sand, ~30% fines, moist; medium dense; fill naterial.  SILTY, CLAYEY SAND (SC): yelluwish brown (10YR 5/6), ~5% gravel, ~66% and, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.	SURFACE ELEVATION DATUM mean sea level  th: 6.1 m Diameter: 2" Stot Size:  GROUNDWATER SURFACE 4/10/2003  WELL CONSTRUCTION DETAILS  SO% % fine  PVC Top Cap  WR 4/6), 30%  VR 4/6), 1
Pung Method   Split-Spoon Sampler   Casing Method   Split-Spoon Sampler   Casing Method   Ca	SAMPLE HAMMER TYPE Hydraulic Hammer  ATERIAL / DIAMETER Sch 40 PVC / 2" TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP OF WELL CASING TOP & E  TOP & E  TOP OF WELL CASING TOP & E  TOP & E	N  Ne: Slotted  Material: PVC  Length  BOTTOM OF SCREEN  PRODUCT SURFACE  m / m  RFACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6):59  0 coarse sand, ~30% fines, moist; medium dense, fill naterial.  SILTY, CLAYEY SAND (SC): yelluwish brown (10YR 5/6), ~5% gravel, ~65% and: ~35% fines, medium dense, fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/6), ~5% gravel, ~66% sand, ~35% fines, medium dense, fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/6), medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/6), medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/6), medium dense; fill material.	#: 6.1 m Diameter: 2" Stot Size:  GROUNDWATER SURFACE DATE  4/10/2003  WELL CONSTRUCTION DETAILS  50%  We fine  PVC Top Cap  14) 50%  WR 4/6).  PVR 4/6).  178 4/6).
Split-Spoon Sampler LINSTALLED? VSATION OF  VELL COVER  NO  (So 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hydraulic Hammer  ATERIAL / DIAMETER Sch 40 PVC / 2" TOP OF WELL CASING  OF SCHEEN TOP OF WELL CASING  OF SCHEEN TOP OF WELL CASING  OF SCHEEN TOP OF WELL CASING  OF SCHEEN TOP OF WELL CASING  OF SCHEEN TOP OF WELL TOP OF	Ne: Stotted Material: PVC Length BOTTOM OF SCREEN PRODUCT SURFACE m / m  RFACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6) 5' notitled with strong brown (7.5YR 5/6), ~5% gravel, ~65% to coarse sand, ~30% fines, moist; medium dense; fill nistral.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4), ~5% gravel, ~66% sand, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.	## 6.1 m
YES NO VATION OF WELL COVER )  (See 29 96	Sch 40 PVC / 2"  TOP OF WELL CASING  TOP & E  TO	DOTTOM OF SCREEN PRODUCT SURFACE  m / m  RFACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6).59  coarse sand, ~30% fines, moist; medium dense, fill naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/6), ~5% gravel, ~65% and, ~35% fines, medium dense, fill material.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/6), ~5% gravel, ~66% and, ~35% fines, medium dense, fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-35% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.	GROUNDWATER SUN-ALE  4/10/2003  4/10/2003  WELL CONSTRUCTION DETAILS  50% % fine
(% / saper)  (% / saper)  7/5/6/11	SAMPLE TYPE DEPTH (meters bgs)	m / m  REACE CONDITION:  LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6).5 notlled with strong brown (7.5YR 5/6), ~5% gravel, ~65% or coarse sand, ~30% fines, moist; medium dense; fill naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4), ~5% gravel, ~6% sand, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4), ~5% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4), ~5% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.	50% 50% % fine
(% / %   Separation   1	SAMPLE TYPE SAMPLE TYPE SAMPLE TYPE SAMPLE TYPE SAMPLE TYPE SAMPLE TYPE SAMPLE TYPE SAMPLE SA	LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4/6).5 notfled with strong brown (7.5YR 5/6), ~5% gravel, ~65% or coarse sand, ~30% fines, moist; medium dense; fill naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4), ~5% gravel, ~6/6 sand, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4), ~5% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10YR 5/4), ~5% fine to coarse, subangular gravel, ~60% sand, ~3 fines, medium dense; fill material.	50% % fine
7/5/6/11   0.6098 / 75 12/15/12/9   0.6098 / 75 7/6/5/5   0.6098 / 70 4/6/5/10   0.6098 / 80 6/6/7/13   0.6098 / 65 -3	SC SS M M M M M M M M M M M M M M M M M	nottled with strong brown (7.51x, 90), one occarse sand, ~30% fines, moist; medium dense; fill naterial.  SILTY, CLAYEY SAND (SC): yellowish brown (10YR 5/4, mottled with yellowish brown (10YR 5/6), -5% gravel, ~6/4, sand, ~35% fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-20% fine to coarse, subangular gravel, ~50% sand, ~3 fines, medium dense; fill material.  SILTY, CLAYEY SAND (SC): dark yellowish brown (10Y-35% fine to coarse, subangular gravel, ~40% sand, ~2 fines, medium dense; fill material.	90% (A) 519% (B) (B) (B) (B) (B) (B) (B) (B) (B) (B)
2/4/8/8 0.6098 / 70  2/4/8/8 0.6098 / 70  2/4/8/8 0.6098 / 70  This log is part of the report prepared time of drilling. Subsurface condition	SS - SC -7- SC7- SC8	SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5/8), -10% fine to or subangular gravel, ~60% sand, ~30% fines, medium strong brown (7.5YR 5/8), -10% fines to or subangular gravel, ~60% sand, ~30% fines, medium strong brown (7.5YR 5/8), sand, ~75% fines, stiff.  SILTY CLAYEY SAND (SC): yellowish red (5YR 4/6), motited with yellowish red (5YR 5/6), ~60% sand, ~40% fines.  SILTY, CLAYEY SAND (SC): yellowish red (5YR 5/6), ~60% sand, ~40% fines.	3) 50% — 3— 3— 3— 3— 3— 3— 3— 3— 3— 3— 3— 3— 3

CT NO.	LOG	OF WEL		D and Area 41 RI	2 N	
TION Camp Ca	rroll, Taegu	Republic of K		4/8/03 09:00 DATE & TIME FINISHED		
ED 8Y	66	VEVIEWED 6.		4/8/03 11:00 SURFACE CONDITION:	<del>- - - </del>	WELL CONSTRUCTION DETAILS
PID (ppmv) BLOWS / DRIVE DRIVE /	(meters / %) LAB SAMPLE ID	SAMPLE TYPE DEPTH (meters bgs)	USCS GRAPHIC LOG	LITHOLOGIC DESCRIPTION  SILTY, CLAYEY SAND (SC): Dive brown (2.5Y 4.	DEPTH (meters bgs)	Slotted PVC Casing
1/3/4/5 0.6094	0C-0248S-0	SS	CL SC	SILTY, CLAYEY SAND (SC), dire brown (SS). SILTY CLAY with Sand (CL): dark yellowish brown -15% fine to medium sand, ~85% fines, medium medium stiff.  SILTY CLAYEY SAND (SC): yellowish brown (1 mottled with yellowish brown (10YR 5/6), ~60% s fines, medium dense.	n (10YR 4/4). n, soft to	Filter Pack
3/6/9/12 0.6	098 / 60	12		SILTY CLAY with Sand (CL): yellow (10YR 7/6) to fine sand. ~80% fines, medium stiff; native :	, -20% coalse soil.	Threaded PVC End
14			15-	End of Borehole at 13.7 m.	12  -  -  -  1	5
16			-16			16
This log is part of the time of drilling. Subs					- - - - - - - - -	-18
19			-19-			/ ollowight
+ +			l de dibe mad	together with that report for complete information. nge at this location with the passage of time. The	This summary applies o	only at the location of this boring / weil and at t olification of actual conditions encountered.

BOREHOLE/WELL LOCATION SKETCH MAP PAGE 1 OF 2 LOG OF WELL AREA D #37 PROJECT NAME PROJECT NO. Camp Carroll Area D and Area 41 RI DATE & TIME STARTED LOCATION 4/12/03 08:12 Camp Carroll, Taegu, Republic of Korea 4/12/03 10:45 LOGGED BY COORDINATES DRILLING METHOD DRILLING CONTRACTOR / DRILLER Hollow-Stem Auger 66 DATUM SURFACE ELEVATION FED / SIZE / TYPE OF BIT mean sea level SAMPLÉ HAMMER TYPE SAMPLING METHOD Hydraulic Hammer Split-Spoon Sampler CASING MATERIAL / DIAMETER Slot Size: Diameter: 2' Length: 6.1 m WELL INSTALLED? Material: PVC Sch 40 PVC / 2" Type: Slotted GROUNDWATER SURFACE DATE PRODUCT SURFACE YES 🗱 TOP & BOTTOM OF SCREEN 4/12/2003 TOP OF WELL CASING WELL COVER **ELEVATION OF** m/m WELL CONSTRUCTION DETAILS (msl) DEPTH (meters bgs) SURFACE CONDITION: DEPTH (meters bgs) LAB SAMPLE ID GRAPHIC LOG DRIVE / RECOVERY (meters / %) SAMPLE TYPE SSS EXTENT BLOWS / PID (ppmv) LITHOLOGIC DESCRIPTION SILTY, CLAYEY SAND with Gravel (SC): yellowish brown (10YR 5/4), ~20% fine to coarse gravel, ~50% sand, ~30% fines. PVC Top Cap SC fines.
SILTY, CLAYEY SAND (SC): strong brown (7.5YR 56), ~10% tine to coarse gravel, ~50% sand, ~30% fines, moist; medium dense. 10/13/11/90.6098 / 60 SC SC SILTY, CLAYEY SAND (SC): dark brown (7.5YR 3/3), -10% gravel, ~60% sand, ~30% fines, medium dense; fill material. B/10/15/140.6098 / 10 SILTY, CLAYEY SAND with Gravel (SC): brown (7.5YR 4/4), ~20% fine gravel, ~50% sand, ~30% fines, medium dense; fill material. SC b.6098 / 104 8/7/R/7 SS SILTY, CLAYEY SAND with Gravel (SM): greenish gray (GLEY1 5/5GY), -20% gravel, -80% medium to coarse sand, -20% fines, medium dense; fill material. SM C-037SB-0 o.6098 / 50 9/11/7 SS SILTY CLAY (CL): yellowish red (5YR 5/6), ~100% fines, stiff. C-037SB4 6098 / 100 4/6/6/9 Cl SILTY, CLAYEY SAND (SM): greenish gray (GLEY1 5/5GY), ~70% medium to coarse sand, ~30% fines, moist; stiff; fill SM 7/9/6/10 0.6098 / 90 SILTY CLAY (CL): greenish gray (GLEY1 5/5GY), ~70% medium to coarse sand, ~30% fines, moist; stiff; fill material CL 5/6/7/7 0.6098 / 80 1836.GDT 2/4/4/5 | 0.6008 / 10 1/2" Dia, Bentonite GP. CARROLL AREA D AND AREA 41 SiLTY CLAY (CL): oliva brown (2.5Y 4/3), ~10% sand, ~90% fines, chemical odor; soil staining noted at 20 feet bgs; fill material. CL material. SILTY CLAY (CL): reddsh yellow(5YR 6/8) 50% grades to dive brown (2.5Y 4/3), -10% sand, -90% fines, stiff; fill material. SS 0.6098 / 65CC-037SB-0 4/7/7/8 3964 / 10 SILTY CLAY (CL): reddish yellow(5YR 6/8), ~100% fines, CAMP ĈL. medium, chemical odor, moist; medium stiff. SANDY LEAN CLAY (CL): light yellowish brown (10YR 6/4), ~30% sand, ~70% lines, medium, moiot 1/3/2/3 0.6098 / 60 STINO CL This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of this boring / well and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered. 8 BORING

BOREHOLE/WELL LOCATION SKETCH MAP PAGE 2 OF 2 LOG OF WELL AREA D #37 PROJECT NAME Camp Carroll Area D and Area 41 RI PROJECT NO. DATE & TIME STARTED 4/12/03 08:12 LOCATION Camp Carroll, Taegu, Republic of Korea DATE & TIME FINISHED 4/12/03 10:45 WELL CONSTRUCTION DETAILS LOGGED B olo DEPTH (meters bgs) SURFACE CONDITION: DEPTH (meters bgs) GRAPHIC LOG EXTENT SAMPLE TYPE LAB SAMPLE ID USCS LITHOLOGIC DESCRIPTION CLAYEY SAND (SC): greenish gray (GLEY1 5/5GY), ~60% sand, ~40% fines, low, moist; medium dense. SC -Fitter Pack 0/15/18/2 0.6098 / 55 Slotted PVC Casing CLAYEY SAND (SC); yellowish brown (10YR 54), ~60% sand, ~40% fines, well; medium dense. SC 0/18/27/20.6098 / 50 CLAYEY SAND (SC): yellowish brown (10YR 54), ~70% fine to medium sand, ~30% fines, wet; dense. 5/20/28/3 0.6098 / 60 Threaded PVC End End of Borehole at 13.1 m. .GDT 16/9/03 BORING LOG METRIC JNITS CAMP CARROLL AREA D AND AREA 41.6P. This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of this boring / well and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.



OJECT N	Ю.			ROJECT NA		'				A D #38		
CATION							Camp	Carre	oll Are	a D and Area 41 RI DATE & TIME STARTED	7	
LAIKN		Can	np Carro	il, Taeg	u, R	epubli	c of K	orea		4/14/03 08:05		
XGGED BY	,			6	REV	EWED 6	Υ			DATE & TIME FINISHED 4/14/03 14:00		
<u> </u>	Т				_		ં જે		Ι	SURFACE CONDITION:	9	WELL CONSTRUCTION DETAIL
(meters bgs)	(bbmv)	BLOWS / DRIVE	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	DEPTH (methods by by by by by by by by by by by by by	מי (בושנים)
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JECT NO.			DIECT NAM						D and Area 41 Rl				
ATION			l, Taegu	Por					4/12/03 13:21				
SED BY	Camp	territo.	i, raegu	REVIE	WED BY	(	, <del>, , ,</del>		DATE & TIME FINISHED 4/12/03 16:05	COORDINA	TEQ		
LING CONTR	ACTOR/I	ORILLER	4			. (,			DRILLING METHOD Hollow-Stem Auger	1		EVATION	DATUM
PLING METH	OD		4	SAMP	LE HAM	MERTYP draulic	E Nom	mor	SIZE/TYPE OF BIT 8"	SURI	-ACE EU	mea	ın sea level
Split-S	Spoon S	Sample CA	SING MATE	RIAL	DIAME	TER	Hain	SC	REEN Type: Slotted Material: PVC	Length: 6.1 m		Diameter: 2"	Slot Size: DATE
YES   ATION OF	NO	WELL COV		Sch-	TOP OF	C / 2"	ASING	TC	P & BOTTOM OF SCREEN PRODUCT S	URFACE (	GROUND	WATER SURFACE	4/13/2003
· · · · · · · · · · · · · · · · · · ·						<u>@</u>		T., 1	SURFACE CONDITION:		f ogs)	WELL CONSTRU	CHOM DE IMPS
(meters bgs) PID (ppmv)	BLOWS / DRIVE	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	L/THOLOGIC DESCRIPTION	į	DEPTH (meters bgs)	T	
	1/20/20/1		,				sc		CLAYEY SAND (SC): yellow (10YR 7/6), ~10% medium to coarse sand, ~30% fines, low, mometerial.		- 1 - 1 - 1		PVC Top Cap
		1.6098 / 100				-1	sc		CLAYEY SAND (SC): brownish yellow (10YR ~50% fines, moist; medium dense; fill materi	<b>.</b>	1   1 		
1	3/12/13/12	0.6098 / 70	1			[ .	SC		CLAYEY SAND with Gravel (SC): brownish y ~20% gravel, ~50% sand, ~50% fines, moist		2_		
2—- -	10/10/11	0.6098				- 2	sc		CLAYEY SAND (SC): strong brown (7.5YR S -60% medium to coarse sand, ~30% fines, dense; fill material.	6), ~10% gravel. moist; medium			
3	3/9/8/5	0.6098 / 6	0	_		3_	a.		SILTY CLAY (CL): strong brown (7.5YR 56), ~80% fines, medium, moist; stiff; fill materia		]3_  -		
1		).6098 / 10				-	- sc - sc		CLAYEY SAND (SC): yellowish brown (10Yf medium to coarse sand, -40% fines, mediumaterial. CLAYEY SAND (SC): reddish yellow(5YR 6/yellow(10YR 7/6), -50% sand, -50% fines,	ic) 50% oracles to	-4-		
-4	4/6/5/7	0.6098 / 7	70				- sc		dry; fill material.	56) ~60%			1/2* Dia. Benton
-5	416/8/4	0.0090 / c	40		_	5	3		CLAYEY SAND (Sc.): studied own (1997) medium to coarse sand, ~40% fines, low, r malerial.	necium cense, iii	5 - - -	7 2825 1	Pellets
-0-	677716	0.6098	10						CLAYEY SAND (CC): strong brown (7.5YR gravel, -60% sand, -30% fines, no odor; n dense; fill material.	.5/6),10% fine noist; medium			
	3/3/4/	5 0.6098	/40			- - - - - - - -	1 1 1 1 1 1	A	SANDY LFAN CLAY (CL): dark greenish c ~30% medium to fine sand, ~70% fines, stiff.	ray (GLEY1 4/5GY). moist to wet; mediun			Fitter Pack

			BOREHOLE/WELL LOCATION SKETCH MAP
		DIOT 0 07 0	
		PAGE 2 OF 2	
LOG	OF WELL AREA	\ D #39   †	
ROJECT NO. PROJECT NA	ME Camp Carroll Area	D and Area 41 RI	
	u, Republic of Korea	DATE & TIME STARTED 4/12/03 13:21	
DCC BY	REVIEWED BY	DATE & TIME FINISHED 4/12/03 16:05	○ WELL CONSTRUCTION DETAILS
(meters bgs) PID (ppmv) BLOWS / DRIVE / DRIVE / TRECOVERY / (meters / %) LAB SAMPLE ID	EXTENT SAMPLE TYPE DEPTH (meters bgs) USCS USCS LGG LGG LGG LGG LGG LGG LGG LGG LGG LG	SURFACE CONDITION:	WELL CONSTRUCTION DETAILS
BLC RECORD	X S S A C Metr	LITHOLOGIC DESCRIPTION	(mer
1/2/4/5 0.6098 / 100	-  -  -  -  -  -  -  -  -  -  -  -  -	SILTY CLAY (CL): yellowish brown (10YR 5/8) 20% with secondary mineralization gray(2.5Y 6/1), ~10% fine to very fine sand, ~90% fines, medium, wet, medium stiff.	Slotted PVC Casing
4	<del></del>	Said, 50 to into, reducin, res, reducin veri	
-			
1		SANDY LEAN CLAY (CL): brownish yellow (10YR 6/6) 20% crattes by well-midsh brown (10YR 5/4), 30% fine to modium	
-11	- 11	SANDY LEAN CLAY (CL.): provinsin yearow (1011 R vol) 20% yearbo to yearbowsh brown (1011 R54), 30% fine to modium sand, -70% fines, no odor; wet; very stiff.	
-			
12	12	SANDY LEAN CLAY (CL): pale yellow (2.5Y 7/4), ~20%	Threaded PVC End
_		medium to coarse sand, ~80% fines, wet; stiff. End of Borehole at 12.5 m.	Cap
13	-13-		-13-
14	-14-		14
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15—			15
			<b>-</b>
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16,,,,,,			
.17	-17-		
			# <b>-</b>
.18	18		18
-			<u> </u>
.19—	19		19
This ha is part of the report prepared for the r	armed project and should be read too either	with that report for complete information. This summary appli	es only at the location of this boring / well and at the
time of drilling. Subsurface conditions may dif	ffer at other locations and may change at th	is location with the passage of time. The data presented is a	simplification of actual conditions encountered

												ļ "	BOREHOL	E/WELL LOCA	ATION SKETCH MAF	·····
										PAC	GE 1 OF 2	N				
		L	_OG (	OF	BC	RIN	VG	ARE	EA I	D #40		‡				
PROJECT NO.		I.	ROJECT NA													
		<u> </u>				Camp	Carr	oll Area	a D an	d Area 41 RI		7				
LOCATION	Can	no Carr	oll, Taeg	u, R	epubli	c of Ke	orea			4/15/03 10:25	5					
OGGED BY	4		ble	REV	EWED E	ΒΥ				DATE & TIME FINISHED 4/15/03 13:30	n					
DRILLING CONT	RACTOR	/ DRILLER			,	,				DRILLING METHOD		COORE	XNATES			
SAMPLING MET	HOD		FED /	SAM		MERTY!	PE			Hollow-Stem Au SIZE / TYPE OF BIT	iger	SI	JRFACE E	EVATION	DATUM	
Split-	Spoor	Samp			Н	/drauli			CREEN	8"		<u> </u>			mean sea le	vel
VELL INSTALLI YES		• "	CASING MAT	ERIAL	./ DIAME	:IEK		S.	жеел Ту			.ength:		Diameter:	Slot Size:	
LEVATION OF		WELL CO	OVER		TOPO	FWELLO	CASING	TO	OP & BO	TTOM OF SCREEN PROD	OUCT SURFAC	E	GROUNI	WATER SURF	FACE DATE	
<del></del>		\ <u>`</u>		Γ		ŝ	<u> </u>		SURF	ACE CONDITION:			ŝ	WELL CON	ISTRUCTION DETA	AILS
DEPTH (meters bgs) PID (ppmv)	ζ M	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	Į.	님	DEPTH (meters bgs)	8	GRAPHIC LOG					DEPTH (meters bgs)	NO	WELLINSTALLED	
eters by PID (ppmv)	BLOWS	PRI COO eters	PAME CI	EXTENT	SAMPLE TYPE	DEF	nscs	SRA!		LITHOLOGIC DESCRI	PTION		nete			
Ε 1	w	_ % E	<u>'</u>	L	Ĺ	٤			<u></u>		VD EIRLORY	ades to	<del>-</del>			
4 1	717140147	0.6098 / 7					sc		Drowr 5000	EY SAND (SC): strong brown (7.5' hish yellow (10YR 6/6), ~70% med fines, slight chemical odor; moist	in copy 20% gr dium to coarse s Ir medium dens	sand, se:	+ +			
-	an Wil	0.003017	1						Increa fines)	asing day content at 1.22 meters of	gs (60% sand,	40%				
+	40 <i>822</i> 2	0.6098 / 10	1	1		-				-						
-1	iu/o/fi/	J. USO / IC	1	<u></u>		<u> </u>							[ ]			
]				1	SS											
4 4	3/12/13/12	1.067	CC-040SS-0	ł۷	1	<u> </u>							+ +			
-2	9/10/6	1.067 / 90	)	$ /\rangle$		2	ł						2			
-				E	1	<b>-</b>	<u> </u>						_[			
		<b></b>		Γ			CL		orado	DY LEAN CLAY (CL): strong brown is to strong brown (7.5YR 5/8), ~40	1% medium to t	fine	[ ]			
	7/10/10/11	0.6098 / 10	٨				]		sand.	~60% fines, stiff to soft; increasin s bgs (30% sand, 70% fines).	ig clay content	at 3.0	-3			
`						ļ -										
-	10/11/7/8	0.6098 / 6	٩			<b>-</b>										
				Г		<b>-</b>	1									
-4	2/2/3/4	0.6098 / 5	٩			_1_	1									
]					1	[										
1					1	_ <b>-</b>							╟┤			
-5	1/4/5/5	0.609870				5	SM	<b>医</b>	medi	/ SAND (SM): yollowish brown (10° im sand, ~20% fines, medium stif	f		5			
4						-	CL		SAN	DY LEAN CLAY (CL) yellowish hm is to dark gravish brown(2,5Y 4/2).	nwn (10YR 5/4) ~30% medium	sand,	[ 1			
1						[ -			~70%	fines, medium stiff to soft; increa s bgs (20% sand, 80% fines).	sing clay conte	nt at 6.1	[ ]			
													-6			
<u> </u>		[	CC-040BS-0	17	SS	ļ .	-						+ -			
4	2/2/4/5	0.609870 0.609870	וכ	ŢΧ		-							┟╶			
-					1	-	sc		CLA	/EY SAND (SC): reddish yellow(7.5 um sand, ~40% fines, medium der	5YR 6/6), ~60% nse to dense		<u></u> _			
-7						7-	1		*******		22 22 22.00.					
]						[ ]							-			
]		ļ			1	<b>-</b>		<b>***</b>					-			
-8	4/6/11/14	0.60987	٥			-8-	1						8			
				-	1	<b>†</b> -	1						<u> </u>			
-						t -	1									
			<u> </u>				<u> </u>	11/1							de la sela e de como e e d	
This log is pa	nt of the n	eport prep	ared for the	name	d project other lo	and shou	ald be re	ad togeth	erwith th this loca	nat report for complete information tion with the passage of time. Th	n. This summ he data preser	ary applie ited is a s	s only at th simplificatio	ne location of th n of actual con	nis boning / well and a iditions encountered	atine L
BHC OLUMBY	y. UUUSU		inuy u	vi u(												

												- 8	OREHOLE	WELL LOCATION SKETCH MAP
										PAGE 2 OF 2	N			
			LC	og (	ΣF	во	RIN	G /	4RE	A D #40	1	-		
ROJECT NO.			PFK	DECT NAM	ΛE		Camp	Carm	di Area	a D and Area 41 Ri	_]	1		
CATION									,	4/15/03 10:25				
OGGED BY	Can	np Ca	lo	l, Taegu	REVI	EWED B	Y	164		DATE & TIME FINISHED 4/15/03 13:30			<del></del>	WELL CONSTRUCTION DETAILS
			т Т				(§)		U	SURFACE CONDITION:			H (Sg)	
(meters bgs)	BLOWS /	DRIVE / RECOVERY	meters / %	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	LITHOLOGIC DESCRIPTION			DEPTH (meters bgs)	NO WELL INSTALLED
<del>-</del>													-  -   -  -	
4	1/18/25/3	3 0.609	8/0							End of Borehole at 9.8 m.		<del></del>	ᡶᢩᡣᡶ	
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-11							11-	1					} -	
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15							15	_					}	1
<b>†</b>					١		F	4					ţ	1
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16-							-11	Ή.					t	1
[ ]					ļ		-	+					-	-
<b> </b>								7—]					17	7-]
							F	4					F	4
₹ <b>}</b> - ┤					Ì		F	1						8_1
15 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1							H	18					F'	_
<u>ال</u> ا							ţ	1					f	1
							}	4					L	19—
RING LOG METRIC UNITS								19-					ŀ	-
<u> </u>							nioct acc	show	be read!	together with that report for complete information. Th	is sum	mary	applies only	y at the location of this boring / welf and at ication of actual conditions encountered.
This time	log is part of of drilling	of the re Subsurf	port p ace c	onditions n	rune r nay di	rensiero p fferatoti	ner locatic	ns and	may cha	together with that report for complete information. The dange at this location with the passage of time. The da	w pres	N NO.		

												E	OREHO	E / WELL LOCATION SKETCH MAP
			L	og o	F	во	RIN	G A	\RE	A D	PAGE 1 OF 1	N 4		
PROJE	CT NO.		F	ROJECT NA	ME.		_	_						
LOCATI	ONI						Camp	Carr	oll Are	a D ar	d Area 41 RI DATE & TIME STARTED	<b>"</b>		
		Can	np Carr	oli, Taegı	u, Ro	epubli	c of K	orea			4/1/03 14:20			
LOGGE	D BY			bb	REV	IEWED E	3Y				DATE & TIME FINISHED 4/1/03 15:50			
DRILLIN	IG CON	TRACTOR	7 DRILLER								DRILLING METHOD	COORDI	IATES	
	=		Beautif	ul Enviro							Direct-Push SIZE / TYPE OF BIT	C) K	EACEE	LEVATION DATUM
Sampu			Sample	er	SAM	MLE HAN	MERTY	Pt:			SIZE / 11PE OF BIT	301	TACE E	mean sea level
WELL I	USTALL	ED?	C	ASING MAT	ERIAL	/ DIAME	TER		S	CREEN				Diameter: Stot Size:
YE ELEVAT			WELLCO	OVER		TOPO	F WELL	CASING	7	Ty OP & BO	pe: Material; <u>L</u> TTOM OF SCREEN PRODUCT SURFACE	ength:	GROUN	Diameter: Stot Size: DWATER SURFACE DATE
(msl)				·		·	,			<del></del>				WELL CONSTRUCTION DETAILS
gs)		,	`,≿%	1117	L	<b>I</b> ш	gs)		o .	SURF	ACE CONDITION:		ygs)	WELL CONSTRUCTION OF TALES
DEPTH (meters bgs)	PIO (ppmv)	BLOWS	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE	DEPTH (meters bgs)	nscs	GRAPHIC LOG		LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NO WELL INSTALLED
						ļ			$\vdash$	Prepro	obe. No recovery.			
 	<0.1							sc	8888	SILTY	r, CLAYEY SAND (SC); strong brown (7.5YR 56),	~5%	 	
			1.5/80							fine g media	ravel, ~70% fine to medium sand, ~25% fines, mo um dense; contains some coarse sand.	oist;	 	
								sc		C11 T\	', CLAYEY SAND (SC): strong brown (7.5YR 5/6),	with.		
	<0.1						-	SC-SM	M	SOME	cobbles at 2.3 melens. CLAYEY SAND (SC-SM): strong brown (7.57R 5 fine to medium, angular sand, ~30% fines, moist	X6);		
										dense	; appears to be weathered granite (saprolite) with	:		
			1.5790							anguli	ar quartz and feldspars, mica			
			()											
									2				- 1	
-4							4						4	
						SS							_ 1	
					\ /		-						_ ]	
			15/00 12/100	COUNTRY	XI				$\mathbb{M}$				_5_	
					$\mathbb{N}$		, ,	SC SM		>mediu	, CLAYEY SAND (SC): red (2.5YR 4/6), ~65% fin m nand 36% finec, molet; donce.		_ 4	
. 4					$\Box$	SS		SC		- Vmediu	SAND (SM): yellowish brown (10YR 5/4), ~65% f m sand. ~35% fines, moist.	/r		
. 4	<0.1				\ /	55		SC	<b>*</b>	red (5	EY SAND (SC): yellowish red (5YR 4/6) 50% to ye YR 5/6), ~60% fine to medium sand, ~40% fines,			
6					V١						EY SAND (SC): strong brown (7.5YR 5/6), ~6U%   f		-0-	
			1.5 / 100	CC0060502	XI				17/1	medili dense	m, subrounded to subangular sand, ~40% fines, a	TROISI:	- 1	
					Μ								- 1	
					/ \								_ , ]	
7	<0.1							SC		CLAY	EY SAND (SC): dark grayish brown(2.5Y 4/2), ~60°	% fine	_ ′	
							L _			tome	dium sand, ~40% fines, moist to wet; dense.		- 4	
. 4			1.5/65						<b>XXX</b>					
8			1.07 00				8						<del>-8-</del>	
								CL		SANF	Y LEAN CLAY (CL): dark grayish brown(2.5Y 4/2),	~40%		
								OL.	<del>  "                                   </del>	oteni	madium sand ~60% lines, medium, wet  End of Borehole at 8.5 m.		- 1	
													1	
This k	og is pa of drilling	rt of the re J. Subsurf	port prepa ace conditi	red for the na ions may diffe	erato	project a other loca	ind shou ations an	ld be rea d may c	ed togeth hange at	er with the this locat	at report for complete information. This summar ion with the passage of time. The data presente	y applies o ed is a sim	xniy at the plancation	e location of this boring/well and at the of actual conditions encountered.

BORING LOG METRIC UNITS CAMP CARROLL AREA D AND AREA 41.GP3 ACE\_1836.GDT 16/9/03



											£	OREHOLE	/WELL LOCA	TION SKETCH MAP	
		LC	og O	FE	воі	RIN(	G A	RE	A D	PAGE 1 OF 1	N	. ——			
ROJECT NO.		PF	ROJECT NAI	ME						d A-00 A3 DI					
						Camp	Carro	oli Area	a D an	d Area 41 RI DATE & TIME STARTED					
OCATION	Cam	no Carro	il, Taegt	u, Re	publi	c of K	orea			4/1/03 09:20					
OGGED BY			66	REVI	EWEO B	SY	-			DATE & TIME FINISHED 4/1/03 12:30					
RILLING CON	TRACTOR	/ DRILLER		L						DRILLING METHOD	COORD	NATES			
		Beautifu	al Enviro	nme	ental (	Orp MERTY	PF			Direct-Push SIZE / TYPE OF BIT	SU	RFACE EL	EVATION	DATUM	
AMPLING ME Geo		Sample	r					12			1			mean sea lev	eı
ELL INSTALI YES		C/	ASING MAT	ERIAL	/ DIAME	TER		SX	CREEN Ty		Length:		Diameter:	Stot Size: ACF DATE	
LEVATION O		WELL CO	VER		TOPO	FWELL	CASING	T		TTOM OF SCREEN PRODUCT SURFAC	E	GROUNI	WATER SURF	-	
nsl)			T	T	<del></del>	1	T	T	CLIDE	ACE CONDITION:		(s)	WELL CON	STRUCTION DETAI	ILS
_ (sg) _	ا بيرير ا	~¥.%	щ	늖	<u>ш</u>	H pgs)	ر س	₩	3014	1,00 0011015		[문항	NO.	WELLINSTALLED	
meters bgs) PID (ppmv)	BLOWS	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE	DEPTH (meters bgs)	SOSA	GRAPHIC		LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NO!	14 TT 19 # 0 1 F # 1 TT 19 # 1	
				-	├	<del> </del> -	$\vdash$	<del> </del>	Prep	robe. No recovery.					
<0.1				-	$\left\{ \right.$	f '	SM	888	SILT	Y SAND (SM): strong brown (7.5YR 5/6), ~0% gra % fine to coarso cond, ~15% fines, moist; medium	vel, n deese	Ţ .↓			
+		0.6					]	<b>自然</b>	-80° som	% fine to coarso cond, ~16% fines, most, coercia e cobbles at 0.8 to 0.9 meters.	1414 52W1	+ -			
-				<u>_</u>		<u></u>	SM		SILT	Y SAND (SM): strong brown (7.5YR 5/6), ~5% gra	vel.	1			
-1	1			$\nabla$	SS	L ,			N 000	% fine to coarse sand, -15% fines, moist; dense, ganese oxide noted at 2.1 meters.		<b>-</b>			
]		1.1/80	CC010SS0	łΥ		ļ.,	4			•		<b>-</b>			
]		17100		IΛ		<b> </b>	-					† . <sup>-</sup>			
-2			1	<u> </u>	4	_2_	-	133	3			2			
		1				-	1								
4		12100				r	1 a		SAN	4DY LEAN CLAY (CL): strong brown (7.5YR 5/6) 1	0%	┪.			
-		1.2/80				Ι.	7 ~		A	lied with white (10YR 8/1), ~5% gravel, ~35% fine flium sand, ~60% fines, low to medium, moist; firm	110	3			
-3				<u></u>	1	T-3-			<u> </u>	CV. CLAVEV SAND (SC.SM): strong brown (7.5Y)	₹ 5/6).	┿ -			
1						[	T SC-SI	<b>"</b>	~65	Y, CLAYEY SAND (SC-SM), strang brown (7.07) % fine to medium sand, ~35% fines, moist; dens	е.	-	1		
1	1					L	4	X				<b>-</b> -	•		
		1.3780	1		1	4-	CL		SAN	NDY LEAN CLAY (CL): strong brown (7.5YR 5/6),	-35%	1-4-	1		
				1		F	┨ ~		fine	to medium sand, ~65% fines, medium, moist; fin	11.		]		
. 4			1	$\vdash$	4	F	1				·	_[ ]	]		
. 4				F	ss	ŀ	SC	<b>****</b>	SIL.	TY, CLAYEY SAND (SC): strong brown (7.5YR 5/ to modium sand, ~35% fines, moist; dense.	6), ~65%		]		
-5-				$\int \int $	/	5-			<b>X</b>		% fine to	-‡ <sup>*</sup> .	-		
1	1	1.1/95 1/100	CC010BS	°] X			SC	<b>XX</b>		TY, CLAYEY SAND (SC): olive gray(5Y 4/2), -65 olive gray(5Y 4/2), -65 olive gray(5Y 4/2), -65			4		
• 🕇		'''		Ι/`	V		sc	<b>*</b> /2	SIL	TY, CLAYEY SAND (SC): strong brown (7.54 R or diagraphs coarse search ~35% fines, moist; dense.		-	-		
٠ , †					7	6-	SC	<b>XX</b>	2 00	TY, CLAYEY SAND (SC): yellowish brown (10YF 5% fine to medium sand, ~35% fines, molst, den	(5/4), s⊌.	<del>-6-</del>	1		
						F	1	12	24			<b>-</b>	1		
_ ]						-	- SC		bro	TY, CLAYEY SAND (SC): red (2.5YR 4/6) 50% a ywn (2.5Y 4/4), ~65% fine to medium sand, ~35%	fines,	r	1		
_ ]		1.5/100	٥			F	1	-1//	mo	ist; dense. NOV LEAN CLAY (CL): dark vellowish brown (10)	(R 4/4),	┪.	1		
7						7-	- CL		<b>//</b> ~3	5% fine to medium sand, ~65% fines, medium, n caceous.	noist;		]		
		1		-	4	+	SC		<del>7</del>	AUDICA CAN CLAY (SC): dock upliquigh brown (10	YR 4/4).	_[_	1		
				-	ss	.	1		<b>/// ~</b> 5	0% fine to medium sand, ~50% fines, low to med wet.	Jeum, MOS	<b>`</b>	1		
				Λ	/	1	1					<del>-8-</del>	4		
<del>-8-</del>		1,3/10 1/100	0 0001089	sod )	(	F-8-			<b>8</b>			ļ	4		
- 1	1			-  /	V	Ľ	]		9			_}	4		
t 1				<b>F</b>	7				4	End of Borehole at 8.6 m.		F	4		
[ ]									1_	that made for complete information. This cum	many ann	ies only at	the location of	this boring / well and	att
This log is time of di	s part of the tiling. Subs	e report pre surface con	pared for the ditions may	e nam differ	ed proje at other	ct and sl locations	hould be and ma	read tog ay change	etherwit at this l	In that report for complete information. This surrecation with the passage of time. The data pres	imary app sented is a	ites only at simplificar	ine location of tion of actual oc	onditions encountered	d.

												BOREHO	E/WELL LOC	ATION SKETCH MAP
										PAGE 1 OF 2	N			
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		F-/		<b>'</b>	DVI	ZIIN	GF	\r.	ΑU	D-U1/	+			
PROJECT NO.		F	ROJECT NA	ME.		Camr	Carr	nll Are	a D an	d Area 41 Ri				
LOCATION		I						OII AIG	a D ai	DATE & TIME STARTED	1			
LOGGED BY	Can	np Carr	oll, Taeg	u, R	e <b>publi</b> EWED B	c of K	orea			4/2/03 08:20 DATE & TIME FINISHED				
DRILLING CON	Marine and		عاط	<u> </u>						4/2/03 10:30 DRILLING METHOD	COORD	INATES		
			ul Enviro							Direct-Push	<u> </u>		LEVATION	DATUM
Sampling me <b>Ge</b> o		Sample	er	SAM	PLE HAV	IMER IY	Mt.			SIZE / TYPE OF BIT		M-ACE E	LEVATION	mean sea level
WELL INSTALL YES			CASING MAT	ERIAL	./DIAME	TER		S	CREEN Ty	pe: Material; I	Length:		Diameter:	Slot Size:
ELEVATION OF	F	WELLCO	OVER		TOPO	- WELL (	CASING	т		TTOM OF SCREEN PRODUCT SURFACE		GROUNI	OWATER SURF	ACE DATE
· · · · · · · · · · · · · · · · · · ·	<u> </u>	\ \ \ \ \				(5)			SURF	ACE CONDITION:		(§)	WELL CON	STRUCTION DETAILS
E g C	Š∄	VER VER S / %	8 9 0		SAMPLE TYPE	TH S pg	nscs	문	<b>-</b>		***************************************	PTH rs bg	NO	WELLINSTALLED
DEPTH (meters bgs) PID (ppmv)	BLOWS	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAM	DEPTH (meters bgs)	Sn	GRAPHIC LOG		LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)		· · · · · · · · · · · · · · · · · · ·
	ļ	25				(ک		<u> </u>	Preng	obe. No recovery.				
									7104					
						1		12.22.2			4007	11		
							sc		fine to	, CLAYEY SAND (SC): strong brown (7.5YR 5/6), coarse, angular gravel, ~70% fine to coarse sar fines, moist; dense; fill soil.	~10% Id,			
<0.1				7	SS				20%	, miles i menti delle delle delle		<b>†</b> †		
·		1.5/70	CC017SS01	V										
		1.05 / 100	1	Λ								<u> </u>		
- 4				$\Box$			sc		SILTY	, CLAYEY SAND (SC); yellowish brown (10YR 5	A6),	╂╶┤		
• -									~10%	fine to coarse, angular gravel, ~70% fine to coal ~20% fines, moist, dense; fill soil.	rse	1		
-3						3	CL		SILTY	CLAY with Sand (CL); strong brown (7.5YR 5/8), coarse, angular grayel, ~70% fine to coarse san	~10% nd.	-3-]		
[ ]		15/80							ᆫ	coarse, angular gravel, ~70% fine to coarse san finos, low to modium, moict; firm; fill soil.	_	<del></del>		
							CŁ		SILTY fine to	CLAY with Sand (Ct.): yellowish red (5YR 5/8), ~ coarse, angular graval, ~70% fine to coarse san fines, low to medium, moist; firm; fill soil.	10% id,	┝┪		
-4						4	sc		<b>h</b>	, CLAYEY SAND (SC): strong brown (7.5YR 5/6),		14		
									finegr	avel, ~60% fine to coarse, subangular to subrout ~35% fines, moist; dense; fill soil.	nded	[ ]		
. ]		1.5/80										<b>-</b> -		
5		1.07 00				5				(OLASTICANO/CO)	C C C /	5		
· -							sc		fine to	, CLAYEY SAND (SC); strong brown (7.5YR 5/6), coarse sand, ~45% fines, moist; firm; fill soil.	~00%			
[ ]														
6						6						6		
		1.5/70										<b>†</b> 1		
• -							GM		- GRAV	/EL with Sitt and Sand (GM): dark brown (19YR 3/3	3).	[ ]		
	ļ <sup>'</sup>					7	sc		\~50%	fine to coarse, angular gravel, -30% sand, -20%	fines.	<del>                                     </del>		
. 4							sc		\soil	, CLAYEY SAND (SC); strong brown (7.5YR 5/6) , CLAYEY SAND (SC); strong brown (7.5YR 5/6),		F -		
									fine gr dense	avel, ~60% fine to coarse sand, ~35% fines, mo	ist;	<b>†</b> †		
		1.5/60												
												<u> </u>		
. 4							전		SILTY SILTY	CLAY with Sand (CL): dark greenish gray(5G 4/1 dium sand low, moist yy LEAN CLAY (CH): yellowish red (5YR 5/0), -30	), fine	+ +		
						-			to me	trum sand, ~70% fines, high, wet.	, /O III IS			
This log is pr	art of the re	port prepa face condi	ared for the nations may diff	amed fer at o	project a other loca	ind shou ations an	id be read may c	ad togeth hange at	er with th this local	at report for complete information. This summa ton with the passage of time. The data present	ry applies ed is a sir	only at the	e location of this of actual cond	s boring / well and at the itions encountered.

BORING LOG METRIC UNITS CAMP CARROLL AREA D AND AREA 41.GP.; ACE 1836.GDT 16/9/03

										Γ.	BOREHO	E / WELL LOCATION SKETCH MAP
									PAGE 2 OF 2	N		
			_				_					
		LC	OG O	F	BO	RIN	G A	RE	A D B-017	$ \mathbf{I} $		
PROJECT NO.		IPF	ROJECT NA	ME						┪╽╽		
LOCATION						Camp	Carn	oll Are	a D and Area 41 RI	<b>┤"</b> │		
	Can	ıp Carro	II, Taegi	u, Re	epubli	c of K	orea		4/2/03 08:20	1		
FOGGED BA			166	REVI	EWED E	3Y			DAYE & TIME FINISHED 4/2/03 10:30			
- Pag	/	. ≿.જે				gs)		Ü	SURFACE CONDITION:		(sg.	WELL CONSTRUCTION DETAILS
DEPTH (meters bgs) PID (ppmv)	BLOWS /	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NO WELL INSTALLED
E)		Σ.E.				=======================================	СН		SANDY LEAN CLAY (CH): dive brown (2.5Y 4/3), ~30°	% fine	ت	
<b> </b>		1.5/90				<u> </u>	S		to medium sand, ~70% fines, high, wet.		-	
<b> </b>						<u> </u>						
						_ <sub>10</sub>	СН		SANDY LEAN CLAY (CH): dark brown (10YR 3/3), ~20 to medium sand, ~80% fines, high, wel.	% fine	_10_	
						ļ			End of Borehole at 10.0 m.		<del> </del>	
											-	
<u> </u>						11						
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						- <u>-</u>	1				19	
19						19	]				[ ] _	
This log is per time of drilling	4 - 6 21 -		md for the a		omicat	and obs	Mb.~	ari trooph	er with that report for complete information. This summ	arv arv	iles only at th	le location of this boring / well and at the
ງ This log is pa ≝ time of drilling	art of the re g. Subsurf	sport prepai face conditi	rea for the n ons may dif	amed Ferat	other loc	anu snot ations ar	nd may d	au iugein change at	er wan that report for complete a tormation. This sorting this location with the passage of time. The data presor	nted is a	simplificatio	n of actual conditions encountered.
§[						.,.,			<del></del>			

00100	E/WELL LOCAT	ION SKETCH MAP
NATES		
URFACE ELE	LEVATION	DATUM
	r	nean sea leve
	Diameter:	Slot Size:
	OWATER SURFAC	DE DATE
	WELL CONST	RUCTION DETAIL
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DEPTH (meters bgs)	NOM	ELL INSTALLED
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+ +		
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<del>7</del>		
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s only at the implification (	e location of this b n of actual conditio	ooring / well and at t ons encountered.
		es only at the location of this I

		Ţ	BOREHOLE/WELL LOCATION SKETCH MAP
LOG	OF BORING AREA D		N +
ROJECT NO. PROJECT	VAME	ori Area 41 Ri	
	Camp Carroll Area D ar	DATE & TIME STARTED	
Camp Carroll, Tae	gu, Republic of Korea REVIEWED BY	4/2/03 14:10  DATE & TIME FINISHED	
OGGED BY		4/2/03 16:10 DRILLING METHOD	COORDINATES
RILLING CONTRACTOR / DRILLER  Beautiful Env	ironmental Corp	Direct-Push SIZE / TYPE OF BIT	SURFACE ELEVATION DATUM
AMPLING METHOD Geoprobe Sampler	SAMPLE HAMMER TYPE	Office ( ) ( )	mean sea level
VELL INSTALLED? CASING P	MATERIAL/DIAMETER SCREEN	VDB; (VIDLETICAL)	ength: Diameter: Slot Size: E GROUNDWATER SURFACE DATE
LEVATION OF WELL COVER	TOP OF WELL CASING TOP & BO	OTTOM OF SCREEN PRODUCT SURFACE	WELL CONSTRUCTION DETAILS
(meters bgs) (ppmv) (ppmv) BLOWS / DRIVE / RECOVERY (meters / %) LAB SAMPLE		FACE CONDITION:  LITHOLOGIC DESCRIPTION	NOWELL INSTALLED  WELL CONSTITUTION OF THE PROPERTY OF THE PRO
1/80 -1	SS SC SIL fine soil soil soil soil soil soil soil soil	LTY, CLAYEY SAND (SC): strong brown (7.5YR 48 to coarse sand, ~40% fines, moist; hard, mexfund soil.  SANDY LEAN CLAY (CL): strong brown (7.5YR 58), ne to coarse sand, ~55% fines, low, moist; medium ill soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 58) ine to coarse sand, ~25% fines, wet; denso.  SANDY LEAN CLAY (CL): strong brown (7.5YR 58) ine to coarse sand, ~25% fines, wet; denso.	6), ~60% e, fill
This log is part of the report prepared time of drilling. Subsurface conditions	for the named project and should be read together was the may differ at other locations and may change at this	with that report for complete information. This sur is location with the passage of time. The data pre	nimary applies only at the location of this boring / well and at the sented is a simplification of actual conditions encountered.

											Γ.	BOREHO	LE/WELL LOCATION SKETCH MAP
										PAGE 2 OF 2	N		
			L	OG C	F	во	RIN	G A	RE	A D B-022			
PROJI	ECT NO.		F	ROJECT N	ME						┪┪		
LOCA	TION			4					oll Are	a D and Area 41 Ri DATE & TIME STARTED	┨"		
LOGG	ED BY	Car	np Cam	oli, Taeg Note	REV	(EWED	C OT K	orea		4/2/03 14:10  DATE & TIME FINISHED  4/2/03 16:10	1		
) g		,	≿ (%	Τ'		T.,,	ŝ		l o	4/2/03 16:10 SURFACE CONDITION:		(se	WELL CONSTRUCTION DETAILS
DEPTH (meters bas)	PID (ppmv)	BLOWS DRIVE	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	nscs	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	NO WELL INSTALLED
-	_												
+	-				<u> </u>		-	ļ		End of Borehole at 9.5 m.		$+$ $\pm$	
10-	-						10-					-10	
L	]						<u> </u>						
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16	1						- 16					-16-	
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	]						- ]	l					
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₹ - -18—							18					- " 18	
<b>S</b>							- 1					-	
												[ ]	
BORING LUG MEI RIC UNI IS CAMP CARROLL AREA PT. GP. 12-55-GD. 12-5	1			,			_19					_19	
o This	log is par	nt of the re	port prepar	ed for the na	amed	project a	nd shouk	d be read	I togethe	r with that report for complete information. This summa	ıry applic	es only at the	e location of this boring / well and at the
ž time	of drilling	. Subsurf	face condition	ons may diff	erato	therioca	tions and	may ch	ange at t	his location with the passage of time. The data present	edisa	simplification	of actual conditions encountered.

							BO	REHOLE/WELL LO	OCATION SKETCH MAP
	LOG	G OF	BOR	RING A	ARE <i>A</i>	PAGE 1 OF 1	N 1		
ROJECT NO.		JECT NAME				D and Area 41 RI	A		į
OCATION						DATE & TIME STARTED	]		
	Camp Carroll,	Taegu, R	epublic	of Korea	<u> </u>	4/1/03 16:00 DATE & TIME FINISHED	1		
OGGED BY		'ٿا مام	ALTICO D			4/1/03 17:40 DRILLING METHOD	COORDIN	ATES	
ORILLING CONTRA	CTOR/DRILLER Beautiful	Environm	nental C	orp		Direct-Push	SI BR	FACE ELEVATION	DATUM
AMPLING METHO	D	SAN	APLE HAM	VER TYPE		SIZE / TYPE OF BIT	301	AOL LLLTT	mean sea level
Geopt VELL INSTALLED	obe Sampler ? CAS	ING MATERIA	L/DIAMET	ER	sc	REEN	Length:	Diameter	Siol Size:
YES	₩ELL.COVE		TOPOF	WELL CASIN	IG TO	Type: Material:  P & BOTTOM OF SCREEN PRODUCT SURFAC		GROUNDWATERS	URFACE DATE
LEVATION OF msl)	WEIT COVE				· · · · · · · · · · · · · · · · · · ·			⊕ WELL 0	CONSTRUCTION DETAILS
<u>©</u>	. ≿.	111		(sb	ပ္	SURFACE CONDITION:		HJ.	COLUMN S INIOTALLETY
(meters bgs) PID (ppmv)	BLOWS / DRIVE DRIVE / RECOVERY (meters / %)	SAMPLE ID EXTENT	SAMPLE	DEPTH (meters bgs)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		(meters bgs)	NO WELL INSTALLED
	1.5/100	CC026880	ss		SC SC CL CH	SILTY, CLAYEY SAND (SC): strong brown (7.5YR.5' gravel, ~65% fine to medium sand, ~30% fines, moist strong brown (7.5YR.4' gravel, ~60% fine to coarse sand, ~30% fines, moist strong brown (7.5YR.4' gravel, ~60% fine to coarse sand, ~30% fines, moist; dense.  SILTY, CLAYEY SAND (SC): drive gray(5Y 442), ~10 ~60% fine to coarse sand, ~30% fines, moist; dense.  No recovery.  SILTY, CLAYEY SAND (SC): dark greenish gray(5C medium sand, ~40% fines, moist; dense.  SILTY, CLAYEY SAND (SC): dark greenish gray(5C medium sand, ~40% fines, moist; dense.  SILTY, CLAYEY SAND (SC): dark greenish gray(5C mottled with greenish gray(5G 5/1), ~60% fine to coarse sand, ~30% fines, medium, moist; firm.  LEAN CLAY (CH): dark brown (10YR 3/3), ~5% fines, and, ~95% fines, high, wet.	% gravel, e		
A R R R R R R R R R R R R R R R R R R R				B   T   T   T   T   T   T   T   T   T	CH	LEAN CLAY (CH): dark brown (10YR 9/3), ~3% fin sand, ~97% fines. high, wet. End of Borehole at 8.5 m.	e to medium		
This log is p	art of the report prep g. Subsurface cond	ared for the nations may dif	amed proje fer at other	ct and should locations and	t be read tog may change	ether with that report for complete information. This su at this location with the passage of time. The data pro	mmary appl esented is a	ies only at the locat simplification of act	ion of this boring / well and at the ual conditions encountered.

	OG OF						N	XEHOLE 1	WELL LOCATION SH	
CT NO.	PROJECT NAME	C	amp Ca	rroll Area	a D an	d Area 41 RI DATE & TIME STARTED	"			
TION	roli, Taegu,	Renublic (	of Korea	a		4/3/03 07:45	4			
EDBY Camp Car	ble F	EVIEWED BY				DATE & TIME FINISHED 4/3/03 03:45	COORDI	NATES		
ING CONTRACTOR/DRILLE	R					DRILLING METHOD Direct-Push	1	RFACE ELE	VATION	DATUM
Beaut	iful Enviror	mental Co	ER TYPE			SIZE / TYPE OF BIT	Su	RFACE ELE	mea	an sea level
LING METHOD Geoprobe Samp	1			s	CREEN		Length:		Diameter:	Slot Size:
.INSTALLED? YES NO ■	CASING MATE			<u> </u>	TY TOP&BO	yoe: Material: DITTOM OF SCREEN PRODUCT SURFA		GROUND	WATER SURFACE	DATE
ATION OF WELL	COVER	TOPOF	WELL CAS	NG 1				آ ڜ آ	WELL CONSTRU	ICTION DETAILS
1 1	<u> </u>		(SS)	ပ္ခ	SUR	FACE CONDITION:		DEPTH (meters bgs)	MOWELL	INSTALLED
(meters bigs) PID (ppmv) BLOWS / DRIVE / RECOVERY	LAB SAMPLE ID	EXTENT SAMPLE TYPE	DEPTH (meters bgs)	USCS GRAPHIC LOG		LITHOLOGIC DESCRIPTION		DEF neter	11011	
(ppmv) BLOWS DRIVE DRIVE /	SAN	A Se	in the contract of	~   E~			- 101			
	1			sc 🗱		TY, CLAYEY SAND (SC): dark yellowish brown ( % fine to coarse gravet, ~75% fine to coarse sar	10YR 4/6), id, -20%	+ +		
4			_ ]		fine	% fine to coarse graves, 1700 soil.		1		
- 1/1	00		_		Ž					
		<b> </b>	1-1-	CL	SA	NDY LEAN CLAY (CL): yellowish red (5YR 5/8), coarse sand, ~55% fines, low, moist; firm.	~45% fine			
			<b> </b>		10	coarse sand, ~55 /6 miles, fort, thinks		<u> </u>		
4			<u> </u>					<b>}</b> -		
1.5	/40		_2_					2	ļ	
			<b>├</b> ┤					_[ .		
]	ļ	H	+	CL ///	S	ANDY LEAN CLAY (CL): strong brown (7.5YR 4/h ne to coarse sand, ~60% fines, low, moist; firm.	6), ~40%	┣.		
4			1		<i>-</i> "	(6 (0 COM 00 0 m 10)		3-	-	
3		ss							1	
1 1 1	5/60 UC027B9	۵VI		CL //		ANDY I FAN CLAY (CL): dark greenish gray[5G] ne to coarse sand, ~60% lines, medium, molst,	(4/1), ~40% (um; high			
	/100	$ \Lambda $	<b>}</b> +	CL //		ne to coarse sand, -00% lines, median including the to coarse sand, -00% lines, median including the coarse of the total coars	(4/1), ~20%	╌/┼╌	4	
-4		H		CL //	///// \i	ine sand, ~80% tines, medicine to mgn, modulin		<i>1</i> r	-	
- 0.9	5/20					SANDY LEAN CLAY (CL): tiak geatist gloves ine sand, ~80% fines, medium to high, must; fi	Y 4/1), ~20% m;	`/ <b>†</b>	1	
1	510		-		\	micaceous. No recovery.			]	
	.5/0		<u> </u>	CL.		SANUY LEAN CLAY (CL): dive (5Y 4/3) 33% to brown (10YR 5/8) and 33% and reddish brown(5	yellowish YR 5/4), fine	sto -	4	
			<b>-</b>			brown (10YR 5/8) and 30/9 and 16000 and medium sand, medium, moist; firm; varigated.		<b>-</b>	4	
4 1 1		ss						<b>.</b>	1	
-       1	.5 / 55 CC027F	N /I	-6						]	
-6	25 / 100	```]\\	<b>-</b> -	1 1			·	_	4	
. ]		H	·	CL.		SANDY LEAN CLAY (CL): reddish yellow(7.5Y) motified with brownish yellow (10YR 6/8), fine to	R 6/8) 50% medium sa	and,	4	
1 1 1	0.5 / 50		T			motited with brownish yellow (10 YR 6/6), the to low, moist; firm; varigated; saprolite - angular q weathering to day, fow mica content, some ma	nganese.		·	
-7		П		1	]	End of Borehole at 7.0 m.		t	]	
	ļ		-	-				[	1	
			F	1				-	8—	
-8-1			-8-	]				}	1	
<b> </b>			Ľ.	]				t	1	
8			-	4						sin having (wall and a
		the named or	iect and si	yould be reax	d togethe	er with that report for complete information. Thi this location with the passage of time. The dat	s summary a presented	applies only d is a simplif	y at the location of thi ication of actual con	ditions encountered.
This log is part of the rep time of dillang. Subsurfa	port prepared for ace conditions m	nay differ at other	eriocations	and may ch	nange at	this location with the passage or other. The occ			<u> </u>	

COMPORT TABLES REQUESTED FOR THE COMPORT TABLES AND ASSESSMENT TO THE COMPORT TO										B-028	N +			
Camp Carrol, Taetu, Republic or Notice  ENERGY Let Provide Supplies  Camp Carrol, Taetu, Republic or Notice  A/2/03/17.30  COCKNATES  Dirace-Push  SUPPACE LLEW/IDN  SUPPACE LLEW/IDN  SUPPACE LLEW/IDN  CASSIO MYTERIAL / DAMETER  SOME SUPPACE CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  WELL COOPER  TOP OF WELL CASHING  TOP A BOTTOM OF SCHEEN  SUPPACE CONCITION  UNFOLIC CONCITION  UNFOLIC CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  UNFOLIC CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  SUPPACE CONCITION  UNFOLIC CONCITION  SUPPACE	CT NO.	PRO	DECLINAMA	= 		amp (	Carro	i Area	D ar	DATE & TIME STARTILL	"			
### ### ##############################	10N Camp	Carroll	, Taegu,	Rep	ublic	of Ko	rea			DATE & TIME FINISHED				
Direct-Push   Surface Elevation   Dantamental Corp   Direct-Push   Surface Elevation   Dantamen seed level   Direct Push   Dir			1 1 T	REVIEV	VED DI					4/2/03 17:30 DRILING METHOD	coo	RDINATES		
SOME   SAMPLE   SAMPLE   SOME   SAMPLE   SOME   SAMPLE	NG CONTRACTOR/D	RILLER eautiful	Enviror	ımen	ntal C	огр				Direct-Push	_	SURFACE E	LEVATION	
No.	ING METHOD	mnler	\$	SAMPL	E HAM	AER IYP	E			SELTITION SI	<u></u>		,	····
TOP AS OFFICE   TOP OF WELL CASING   TOP AS OFFICE   TOP AS	INSTALLED?	[CAS	SING MATE	RIAL/	DIAMET	ER		- 1	т	ype: Waterial.		I: GROUN	Diameter: DWATER St	
Sum   Act   Sum			ER		TOP OF	WELL C	ASING	TC	)P & B	OTTOM OF SCREEN PROJUCT SUSTAN				
SC SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine great, -30% fines, most, dense; fill soil.  1.5 / 90  1.5 / 90  1.5 / 90  1.5 / 90  2.5 SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine greate, fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine greate, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -3% fine greate, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -3% fine greate, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -3% fine brozens sand, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -3% fine brozens sand, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine brozens sand, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine brozens sand, -30% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine brozens sand, -36% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fine brozens sand, -36% fines, most; dense; fill soil.  SSL SILTY, CLAYEY SAND (SC): atrong brown (7 SYR 56), -5% fines fines or atrong sand, -36% fines fines fines fines fines fines fines fines fines fine	<u>,                                    </u>	ر ۾ ا		T	7	ŝ		U	SUR	FACE CONDITION:	<u></u> .	H (sgq)		
SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 56).—991 fing gavet, —90% fine to coarse sand, —37% fines, most):  SC SILTY, CLAYEY SAND (SC): strong brown (7.579; 56).—15% fines gravet, —50% fine to coarse sand, —37% fines, most):  SC SILTY, CLAYEY SAND (SC): strong brown (7.579; 56).—15% fine gravet, —50% fine to coarse sand, —37% fines, most):  SC SILTY, CLAYEY SAND (SC): strong brown (7.579; 56).—9% fine gravet, —60% fine to coarse sand, —37% fines, most):  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 56).—9% fine to coarse sand, —37% fines, most):  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—30% fine to coarse sand, —37% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—50% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.  SS SILTY, CLAYEY SAND (SC): strong brown (7.579; 46).—55% fine to coarse sand, —45% fines, most): deriver, fill soil.	PID PID (ppmv) BLOWS / DRIVE	DRIVE /	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH meters bg	nscs	GRAPHI					1	A METT WOLVITTED
· - ( )		1.5/80 1.5/90 1.5/40 1.5/40	0				SC CL		fine del	gravel, ~60% fine to coarse said, ~30% fines, nose; fill soil.  ITY, CLAYEY SAND (SC): strong brown (7.5YR 5M 9 gravel, ~55% fine to coarse sand, ~30% fines, nose; fill soil.  ILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  ILTY, CLAYEY SAND (SC): strong brown (7.5YR 4M) ne to coarse sand, ~35% fines, low, moist; firm; fine to coarse sand, ~35% fines, moist; dense, fill soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 4M) ne to coarse sand, ~35% fines, moist; dense, fill soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.  SILTY, CLAYEY SAND (SC): strong brown (7.5YR 5M 15 soil.)	76), ~15 76), ~3 76), ~3	% -1- % -2- % -3- 55% -1),,		



QUECT NO.		-	OG O							PAGE 1 OF 2	<b>1</b>			
						Camp	Carr	oll Are	a D ar	d Area 41 RI	7			
CATION	Cam	n Carr	ili, Taegi	. p.	anublia	~ of Ka	าเอส			DATE & TIME STARTED 4/8/03 15:35	1			
GGED BY	Can	ip carre	blo	REV	EWED 8	Y	/104			DATE & TIME FINISHED	1			
ILLING CON					_					4/9/03 16:30 DRILLING METHOD	COOR	DINATES		
ILLING CON	INACION	/ UNILLER	FED /			66				Hollow-Stem Auger		W 200 C	Z (ATOM	DATUM
MPLING MET		C		SAM		MERTYI drauli		nmer		SIZE/TYPE OF BIT 8"	١	SURFACE EL		an sea leve
S <b>DIII</b> LL INSTALL		Sampl	e <b>r</b> Asing mat	ERIAL			C Flai		CREEN		I		_	
YES 🗰	CM			Sch		C / 2"				Slotted Material: PVC Lex DTTOM OF SCREEN PRODUCT SURFAC	ıgth:6.1 ≕		Diameter: 2" WATER SURFACE	Slot Size: DATE
EVATION OF	•	WELL CO	VER		TOPO	- WELL C	ASING	19	OP & BL	m/m	-			4/10/200
<del></del>		\ \ \		T		(6)			SURF	ACE CONDITION:		38)	WELL CONSTR	JCTION DETAIL
meters bgs) PID (ppmv)	BLOWS / DRIVE	DRIVE / RECOVERY (meters / %)	LAB SAMPLE ID	EXTENT	SAMPLE TYPE	DEPTH (meters bgs)	SOSA	GRAPHIC LOG		LITHOLOGIC DESCRIPTION		DEPTH (meters bgs)	<del></del>	
	0/11/11/1	0.6098 / 80		<del>                                     </del>			sc		SILT fine to mois	Y, CLAYEY SAND (SC): strong brown (7.5YR 5/6) o coarse gravel, ~60% medium to fine sand, ~30° I to dry; fill material.	,~10% % fines,			-PVC Top Cap
1	9/14/16/14	0.6098 / 10		-			sc		7189	Y, CLAYEY SAND with Gravel (SC): dark yellowis R 4/6), ~20% fine to coarse gravel, ~60% sand, ~; , dry; fill material.	n brown 20%	<del>-</del>		
	9/11/8/9	0.6098 / 10		_		- -	SC SC		(10Y mate	Y, CLAYEY SAND with Gravet (SC): dark yellowist R 4/6), ~30% coarse gravet, ~40% sand, ~30% fi arial.	nes, nii	オ 1		
2	6/10/14	0.6098 / 0		-		2	SC		(10Y	V CLAVEV SAND (SC): vellow (10YR 7/6) ~10%	nes, fili oravet.	$\left\{ -\frac{1}{2}\right\}$		
- -				-	***************************************					% sand, ~40% fines, coobles at 2.3 meters; fill ma				
3_	7/9/6/8	0.6098 / 70		_			SC SC		orav	Y, CLAYEY SAND (SC): reddish yellow(SYR 6/6), el. ~50% sand, ~40% lines, dry; fill material, Y, CLAYEY SAND (SC): reddish yellow(7.5YR 6/6 j, ~40% lines, medium dense; plant roots at 3.4 m	6), ~60%	-3-		
	5/6/8/11	0.6098 / 80				 	SC		fill m SiLT	alerial. Y, CLAYEY SAND (SC): strong brown (7.5YR 5/8		╅╣		
4-	5/6/8/10	0.6098 / 80				4	sc		SILT	i, ~40% fines, fill material. Y, CLAYEY SAND (SC): yellowish red (SYR 5/8), t, ~40% fines, fill material.	~60%	4		
5_	2/3/3/4	0.6098 / 40	)			  -5						5		
1						- - -								1/2" Dia. Bento Pellets
6-		!	PC (04190 1		SS	<u> </u>	sc		SIL1 sand	Y, CLAYEY SAND (SC): reddish yellow(7.5YR 7/ t, ~50% fines, native soil.	6), ~50?			
	3/4/7/7	0.6098 / 8 0.4878 / 10	C-0018S-	X								7		
										TY, CLAYEY SAND (SC): yellow (10YR 7/6), ~50%	6 fine to			
·88	2/5/5/8	0.6098 / 6				-8-	sc		med	fix, c.A.YET SNAU (30.), yallow (10 IR76), 50. Skirm sand, ~50% fines, moist to wet; medium den ve soil.	se;	-8		
1							-		X CONTRACTOR	that report for complete information. This summ				

BOREHOLE / WELL LOCATION SKETCH MAP PAGE 2 OF 2 LOG OF WELL AREA D MW-001 PROJECT NAME Camp Carroll Area D and Area 41 RI PROJECT NO. DATE & TIME STARTED 4/8/03 15:35 LOCATION Camp Carroll, Taegu, Republic of Korea DATE & TIME FINISHED 4/9/03 16:30 WELL CONSTRUCTION DETAILS LOGGED BY 66 DEPTH (meters bgs) SURFACE CONDITION: GRAPHIC LOG EXTENT SAMPLE TYPE LAB SAMPLE ID nscs LITHOLOGIC DESCRIPTION -Fitter Pack 3/5/9/9 0.6098 / 65 -Slotted PVC Casing 4/8/10/15 1.6098 / 100 SILTY, CLAYEY SAND (SC): very pale brown (10YR 7/4), ~50% medium to fine sand, ~50% fines, wet; medium dense to dense; native soit. 5/9/14/17 0.6098 / 80 Threaded PVC End End of Borehole at 13.1 m. 1836.GDT AREA D AND AREA 41.GP. BORING LOG METRIC JNITS CAMP CARROLL This log is part of the report prepared for the named project and should be read together with that report for complete information. This summary applies only at the location of this boring / well and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

## **WELL COMPLETION RECORD**

	7 .	463		
JOB NO.: AREA D	WELL NO. 12	.나 HYDROG	EOLOGIST:	66
CLIENT:	/AD H	ORILLER: 12	9 HADA	66
WELL LOCATION: 66 7		DATE/TIME:	1250 / 4/8/0	The state of the s
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	GROUND SUPFAGE		Ground Surface Elev.	762, tem toe
			Well Head Completion Met	hod
			FLUM MONE	TDAPPK BOX
mamma k od 20. mažio vistoka jakomėsia opinima tinak j			Orilling Method/Rig Type	<u>HSX</u>
DETAILS OF CONSTRUCTION Date				
Completed 4/4/c2			Surface Casing: Ty	esecució de la companya de la companya de la companya de la companya de la companya de la companya de la compa
Borehole Diameter (in.)			Cxame	- Company Comments
Type and Size of			Lang	IIIs
Casing (in.)	- 3		*	
Type and Size of Screen (in.)				
Screen Perforation			MATERIALS	
Diameter (in.)	COLUMN S		Cement (sks.)	
Screen Length (ft.) 70 '			Filter Pack Material	
Centrakzer Depths (ft.)			(ft. <sup>3</sup> )	11.5 BM (25 K) 3.4
Completion Technique			Casing Material (ft.)	40
Type of Filler Pack and Placement Method		S 15	Bemorile (ft.3)	12 Extens 2
0.4-0.8 MM		17.5		
2. Type of Berdonide and				
Placement Method		14.5	Top of Beakonite	ur ٷ、
Benefile PlaceTs			Seat Seat	***
Type of Grout Mixture and Placement Method			Top of Filter Pack 17	. <b>y</b> ft.
DONE / COMMENT			Top of Screen	<b>4.35</b> It.
Description of Polential Problems		- Y15		
Wate West.	<u>ELU</u>	MM L 45		
	MOTE, ALL DEPTHS A		Boticen of Screen 3	4.5 B
Ogvelopment Technique	TO GROUND SURFAC	× 62.	and the state of t	<b>1.</b> It.
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The Manager of Control of the Contro	GF	ROUT		
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t. America	L BULLET (5 is	L) BEHTMITE		
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	i mineria 1/2	- Up	*e Marie Vo	
		The second		

1000 600	Atles "O" WEL	LNO. A	MOD-LEN HYDRO	件 DGEOLOGIST:	66
JOB NO : CAMP CA	Feo/ 'my	ble	DRILLER:	FED NE	106
CLIENT: 1	MOMB-D,		DATE/TIME:	4/1/03	essenyery (2000) Xing divisioning research
DETAILS OF CONSTE Date Completed Borehole Dismeter (in Type and Size of	4/4/03	arana arana		Well Head Elevation Ground Surface Ethry. Well Head Completion Har / Chris Dristing Method/Rig Ty Surface Casing:	The state of the s
Casing (in.)  Type and Size of Screen (in.)  Screen Perforation Diameter (in.)  Screen Length (it.)  Centralizer Depths (it.)  Completion Technique  1. Type of Filter Pace Piacament Methology  2. Type of Sentonite Placement Methology  3. Type of Grout Min Placement Methology  1. Type of Grout Min Placement Methology	k and d AA and d Piper PtX kine and A ad			MATERIALS  Coment (sks.)  Filter Pack Material (ft.3)  Casing Material (ft.3)  Bentonite (ft.3)  IV.0  Top of Bentonite Seal  Top of Filter Pack  Top of Screen  LY.0	The transfer of the transfer o
Cevelogament Techn		NOTE ALL DEPTH TO GROUND SUR	HS ARE REFERENCE  SROUT  BENTONITE  FILTER PACK	Bottom of Screen Bottom of Hole	# # # # # # # # # # # # # # # # # # #
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par De i		HY Y DOAME	w/ 5 Cman	, the 936	

JUB NU.: ACO	Ø WELL, NO.	***************************************	ROGEOLOGIST:	66
CLIENT:	2	DRILLER:	MAL.	,6
WELL LOCATION:	#51	DATE/TIME:	4/12/03	-ceanner with the second secon
DETAILS OF CONSTRI Date Completed Borehole Diameter (in.) Type and Size of Casing (in.) Type and Size of Screen (in.) Screen Perforation Diameter (in.) Screen Length (ft.) Completion Technique	UCTION  4 (alos 4 pustes  8" 28CX.  PUC CRUT  RAC		Well Head Elevation Ground Surface Elev. Well Head Completion  C: Dat Analy  Drilling Method/Rig Ty  Surface Casing:  O  MATERIALS  Cement (sks.)  Filter Pack Material (ft. <sup>3</sup> )  Casing Material (ft.)	TOPPE BOY  Type HA  iameter -  Lengen -
Type of Filler Pack a Placement Method  O.4 - O.8 www. Type of Bentonite an Placement Method  Telephone Telephone  Placement Method	3 ILICA d Telects e and		Bentonste (ft.3)  16.5  Top of Bentonite Seal  Top of Filter Pack Top of Screen	165 h. ~ 1 195 h. ~ 1 22.5 h.
With West:	- And to State Conference of the Conference of t		43	
Development Technique	1'O GROW	L DEPTHS ARE REFERENCED NO SURFACE	9 Bottom of Screen Bottom of Hole	47.5 tt.
re frac		GROUT  BENTONITE  FILTER PACK		
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10: TH 111  10: TH 11  10: TH 1	1114			

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WELL LOCATION:	11 Gr	DATE	TIME:	4/12/02 > 16	×15
Borehole Diameter (in.) Type and Size of Casing (in.) Type and Size of Screen (in.) Screen Perforation Diameter (in.) Screen Length (ft.)	TION  HISTORY  OPEN  TO THE TO THE TO THE THE THE THE THE THE THE THE THE THE			MATERIALS Cement (sks.) Filter Pack Materi (ft.3) Casing Materier (ft.3) Sentonite (ft.3) S Top of Bentonite Seat Top of Filter Pack Top of Screen	Y.  on Metrox  Type Lish  Type Lish  Length
Development Technique		ul depths are refer Und Surface	ENCED	Bottom of Screen Bottom of Hote	₩.5
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DETAILS OF Date Completed Borehole Dis Type and Si of Screen (in Screen Perfoliameter (in Screen Lang Centralizer (Completion 1. Type of I	ameter (in.) ize of 2" 2c n.) iorascon i.) gih (fl.) Depths (fl.)	2" puc 0.01 14	1403	OLAO SURFACE		Drilling Meth Surface Cas  MATERIALS  Coment (s Filler Pacifit)  Casing Materials	isce Elev.  Completion Method  Luct TRAFFIC (bush  ad/Rig Type LA / Crush  Ing: Type LA  Diameter  Length  Material  Attribut
O 14- 2. Type of E Placeme 11,4" By 3. Type of C	0, y MyA Bentonite as and Method ALAD D <sub>C</sub> Grout Mixtur ant Method	taetò re and	5x+4			Top of Bento Seal Top of Filter Top of Scree S	Pack 4.5
Devekomen	I Technique	354.6000		ALL DEPTHS AR OUND SURFACE		Bottom of Sc Bottom of Ho	***************************************
un n Htt n	1 1 111				FONITE ER PACK		

NO-468 HYDROGEOLOGIST: JOB NO.; 773 WELL NO. CLIENT: DRILLER: 60 WELL LOCATION: DATE/TIME: 4/4/03 1400 Well Head Elevation Ground Surface Elev. GROUND SURFACE Well Head Completion Method FLORINGE TRAFFIC Drilling Method/Rig Type HSb / Colors DETAILS OF CONSTRUCTION Cate Surface Casing: Completed Diameter Borehole Diameter (in.) Type and Size of Casing (in.) Type and Size of Screen (in.) Screen Perforation MATERIALS Diameter (in.) U.DILMEH Cement (sks.) Screen Length (ft.) Filter Pack Material SAMO . ISD KA Centralizer Depths (ft.) Completion Technique Casing Material (ft.) 1. Type of Filter Pack and Bentonite (ft.3) BULLET = 5 CAL Placement Method 0 -4 - 0.4 mm succe my 14 2. Type of Bentonite and .. **9** Lik Placement Method "h" formy Perset Top of Berdonite Seal 3. Type of Grout Mixture and Top of Filter Pack Placement Method Top of Screen Description of Potential Problems With Well: NOTE: ALL DEPTHS ARE REFERENCED TO GROUND SURFACE Bottom of Screen Bottom of Hole Development Technique GROUT BENTONITE FRITER PACK ( Trestant



		NO2-17				66
JOB NO.: Aquas	HAM WELL NO.	#54	MILLION CO.	OGEOLOGIST:	1100000	€ €
CLIENT:		DR	aller: _	<u> </u>	66	management of the state of the
WELL LOCATION:	MELY LOC	A2T DV	TE/TIME:	4(10/02)	14-24	<del>Autorot</del> ina produktivo di A
	GAOUAE 	SURFACE			e Elev. Openion Melhod	TRAPHE HOAM
DETAILS OF CONSTRI Date Completed Borehole Diameter (In.)	UCTION 4/10/03 BONT + SOME 84 4/10/03 BON	*		Sustace Casing	; Type Diameter Length	Association of the control of the co
Type and Size of Casing (in.)  Type and Size of Screen (in.)  Screen Perforation Diameter (in.)  Screen Length (ft.)  Completion Technique  1. Type of Filter Pack a Placement Method  O.4-O.8 mm  2. Type of Bentonits an Placement Method  Type of Grout Mixture Placement Method  Placement Method  Description of Potental Fundament Welt.	PERVE  O,OI HICH  20'  SING  S		anners of	MATERIALS Cement (sks Filler Pack to (tt.3) Casing Mate 17.7 Bentonite (ft. 17.7 Top of Bentonit Sear Top of Filler Pa Top of Screen	faterias (ft.) L	7 1 2 1 7 . 7  1 1 1 2 1 7 . 7  1 1 1 2 1 7 . 7
Development Technique	TO GROUN	DEPTHS ARE RI O SURFACE	eferenceo ———	Bottom of Scree Bottom of Hole		r.
1. 174 14 1. 174 11 1. 124 1/5	1	GROUT BENTON Falter F				
1. 124 1/s	*			BONT, SUNL	• RACED.	co (respect

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## WELL COMPLETION RECORD

JOB NO.: C	CARRELL WE	i i kara 🐃	uvnor	OGEOLOGIST:	De la companya de la	b
CLIENT: V	The second secon	LL NO. 76	ORILLER:			Noncial Brass
WELL LOCATION:			DATE/TIME:		1 66	Meditini
FILTURE PACE &	Burdonere Bully	CROWNO SURFACE		Well Head Ele Ground Surface	00000000000000000000000000000000000000	and the second s
FILTER LANGETHE	(2140			FLU SAL		
	•			(	IRIGTYPE CANE(1	Jak .
DETAILS OF CONSTE Date Completed Bixeticle Diameter (in. Type and Size of Casing (in.)	16x0			Szeface Cesing		<u>*</u>
Type and Size of Screen (in.) Screen Perforation Diameter (in.) Screen Length (ft.) Centralizes Depths (ft.) Completion Technique 1. Type of Filter Pack Placement Method	75	T. TABLET	- Marine 1 %	MATERIALS Cement (sks Filter Pack A (ft. <sup>3</sup> ) Casing Mate Benkonits (ft.	#aterial	BAGS = 219.KG
2. Type of Bentonite a Placement Method Broom A" Portage of Grout Modu Placement Method Poscription of Potential With Well:	nd LEB HVDLARE re and	IN IME	2.1 14.1	-5 Top of Bentons Seal Top of Filter Pa Top of Screen	182	,
Promise amount	Chie I L					
HOMOLOGILLOS	42 - 44 ( De "	<mark>ril)</mark> OTE: ALL DEPTHS A O GROUND SURFAC		Bottom of Scree	en <b>••</b> • • •	,
Development Technique	gg-radian/rivinishh	er e ever rom mener en e dibber		Bottom of Hote	49.3 R	
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## **WELL COMPLETION RECORD**

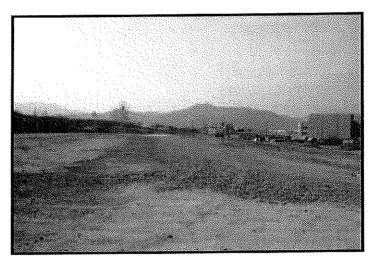
JOB NO.;	Allega	wi	WEL	L NO.	<b>#</b> 53		HYDRO	GEOLOGIST:		ble	
CLIENT:	PLO	>		140		DRILLI	ER:	X142	66		
WELL LOCA	ATION:	Age	<b>%</b> 44 ( ·	# 15 3		DATE	TIME:	4/15/05	0 4 30	www.www.www.www.www.ww.	
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DETAILS OF (	CONSTR	UCTION						Lusing Memo	xd/Rig Type _Ł	<u>CA</u>	
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Borehole Diam Type and Size		<u> </u>	- 485 F	All and a second		W			Lengt	t tur	
Casing (m.)	Z.	PVL.								management of the second	
Type and Size of Screen (in.)	**************************************	2"AL	,								
Screen Perfora Diameter (in)	liich	00111	464-8					MATERIALS Cement (sk	nor V		
Screen Length	(ft.)	7312			11.			Filter Pack	<u></u>	eegopusqooseyoobooloogooyooloogoooyo	
Centralizer Dep	oths (ft.)	NA.	,					(#L <sup>3</sup> )	17203140(170)	10 445K4 + 1.50	016
Completion Ted	chnique				M		1	Casing Mat	erial (fl.)	<u>}¤'</u>	
<ol> <li>Type of Fills Placement</li> </ol>		ind						Bentonite (f	1, <sup>3</sup> )	Bury	
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Type of Ber Placement		ıd					a.s	er.			
h Berer	**	כז					1 ""	Top of Benton	ite	#t.	
3. Type of Gro	sut Mixtur	**************************************						Seal	5.	ero ero ero ero ero ero ero ero ero ero	
Placement l	Method			Tivesson	-	-	76	Top of Filler P	<u> </u>		
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Development To	echnique				***************	PCP4079/8274072909732-000-0	معما و عادات الله	Sollam of Hale		<u>۽</u> ال	
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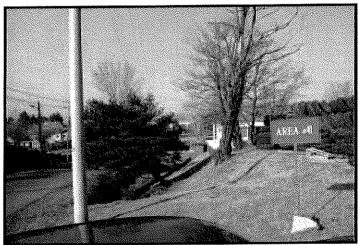
943

Comp

## Appendix D

Photographic Records





## Appendix E

Rainfall Records, Water Level Measurements, and Aquifer Testing Results

			Camp C	Carroll Ar	ea D WATI	ER LEV	<u>EL</u>			
		63-463 (NO. 24	\		3-161 (NO. 01)		Vi63	465 (SO. 37	)	
:	North East	3983282,40 447709,30	,	North East	3983364.10 447705.50		North East	3083361-10 447646-40		
	Cap	48.75		Cap	49.93		Сяр	51.62		
	Casing Top	48.55		Casing Top	49,79		Casing Top	59.90		
	GL	48.74		GL	49,93		GL	50.99 WATER	Sea	Rainfall
DATE	TIME	WATER	Sealevel	TIME	WATER	Sea	TIME	37 7 3 F. 35	253	7.5
2003-04-07			·			·				6.5
2003-04-08	9:30	8.077	40,473	9.00		<del> </del>			1	
2003-04-09	9:30	0.1(1)	10,473	10:20	8,717	41,073				
2003-04-10	8:35	S (9a	40,156	8:35	8,148	41,642				
2003-04-11	16:40	7,990	40,560	16:30	\$,299	41.491	· · · · · · · · · · · · · · · · · · ·			2.0
	-			-		<u></u>				
2003 04 12	14:30	\$,020	40.530	(4-10	8.289	41.591	16:30	9.381	41.519	
	<u>.</u>		1		8.352	41,438	7:46	9.440	41.460	
2003-04-13	8:00	8,135	40,415	7:54	8,333	41,457	13:12	9,423	41,477	
	13:30	8.165 8.165	40.445	13:20 9:34	K362	41,428	9:24	9,457	41.443	
2003-04-14	9;45 10:J4	8,220	40.350	10:35	8,395	41,395	10:30	9.480	41,420	
2003-04-15	9:20	S.246	40,304	9:03	8.410	41,380	8:57	9,502	41.398	
2003-04-16	8:57	8.130	40,420	8:00	8.406	41,390	7:43	9.495	41.405	
2003-04-17	8:33	8,092	40.458	8:22	8,370	41,420	8:14	9.460	41,440	16.5
2003-04-19	- 11.55		1	-			-			11.0
2003-04-20	-						-			9.5
2003-04-21	15:00	8 (180	40,470	15:05	\$ 392	41.398	17:10	9,488	41.412	<del> </del>
2003-04-22	-		I	9:23	8,542	41.248	10:45	9.525	41,375	28.0
2003-04-23			<u> </u>	17:00	8,375	41.415	17:10	9,410	41,490	3.0
2003-04-24					D 2755	43.49.5	8:20	9.370	41.530	47.5
2003-04-25	14:50	7,748)	40,850	9:50	8,295 8,330	41,460	<u> </u>	7,317	3 1	37
2003-04-26	7:42	7.870	40,680	8:05 8:45	8,320	41.470			1	
2003-04-27 2003-04-28	8:57	7,513	41,037	9:05	8,394	41.496	8.49	9.358	41.542	
2003-04-28			41,0,57			111111111	1			18.5
2003-05-25				·						52.5
2003-05-26	-		<del>                                     </del>	-			<u> </u>			4.0
2003-05-27	i			-			<u> </u>	**********		
2003-05-28	9:40	7.(140	41.510	9:50	7,859	41.931	9:47	8.916	41.984	
2003-05-29	8:29	6.963	41.587	8:37	7,851	41.939	8:43	8,899	42.001	5.5 111.5
2003-05-30	- 1								ļ	0.2
2003-05-31				-					<b> </b>	l ": l
2003-06-01	1 . 1				2.285	42,005	9:43	8,826	42.080	1 . 1
2003-06-02	9:18	6,805	41,745	9:37	7 15.3	42.000	7,43	(2,43. 17	1	
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AVERAGE	t	7.775	40.778		8.223	41.567	L	9.248	41.652	

ı				I,	Area D WA			12. S. 21. 12. 15. 15. 15.	5:	
	Mi	i3-466 (SO, 39)			63-467 (NO. 12	}	I	103-468 (NO. 3)	S)	
	North	1983304.60		North	3983326.09		North	3983390.10		
	East	447734.40		East	447718.70		East	447754.30 51.57		
	Cap	49.74		Cap	49.94		Сар			
-	Casing Top	49.58		Casing Top	\$9,79		Casing Top	51.41 51.55		
	GL	49.71		GL	49,93		GL TIME	WATER	Sea Jevel	Rsinfall
DATE	TIME	WATER	Sea Level		WATER	Sealevel	111111111111111111111111111111111111111		- 224/2/2	7.5
2003-04-07						<b></b>			-	6.5
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2003-04-14	9:50	7.8-15	41.735	9:42	8,460	41.330				-
2003-04-14	10:20	7.890	41.690	10:25	8,485	41,305	· ·			
2003-04-15	9:13	7.915	41.665	9:08	8.515	41.275	8:45	9.498	41,912	
2003-04-16	7:54	7.898	41.682	7:52	8,495	41,295	7:45	9.488	41.922	
2003-04-18	8:29	8,145	41.435	8:26	8.452	41.338	8:12	9,455	41.955	16.5
2003-04-19	- 0.27	67177	1	•						11.0
2003-04-19				-		1	-			9,5
2003-04-20	15:48	8,160	41,420	16:30	8,485	41.305	17:15	9,495	41.915	<u>-</u>
2003-04-22	9:30	8.470	41.110	9:28	8,590	41.200	8:52	9,495	11.915	
2003-04-23	17:05	7.990	41.590	-			17:17	9.445	41.965	28.0
2003-04-24				-			<u> </u>			3.0 47.5
2003-04-25	14:40	7,9(8)	41.680	14:44	x.280	41,510	8:50	9,435	41,975	97.5
2003-04-26	7:38	8,695	41.485	7:34	8,370	41.420	8:00	9,490	41,920	
2003-04-27	12:43	7,860	41,720	9:01	8.255	41.535	8:40	9.485	41,925	
2003-04-28	8:53	7.833	41.747	-			8:45	9,489	41.921	10.6
2003-04-29										18.5 \$7,5
2003-05-25	-						1			1.0
2003-05-26						<b>↓</b>				
2003-03-27	-		1		<del></del>	1	1	9,195	42.215	
2003-05-28	9:37	7,369	42.211	9:44	7.842	41,948	9:34 8:40	9,172	42.238	5.5
2003-05-29	9:01	7,332	42,248	8:33	7.813	41,977	8:40	9.177	310000010	111.5
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2003-06-01	- 1		10.000	4 .a. 1	7 698	42.692	9:38	9.135	42.275	1
7003-06-02	9;10	7.185	42.395	9:23	7,098	42,092	7.56	l	1	-
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2003-08-19		6,262	43,318	12:03	6,740	43.050	11:45	X,114	43.296	5.6
2003-08-20	11:54	7.768	41,812	12,1/.1	8.177	41.613	4	9.314	42,096	

DATE   1001   WALES   Scaled   1002   1003   1004   1003   1004   1005				Can	p Carroll	Area D W	ATER LE	VEL			1
North   East   Cas   C			2377-27			LOCATION		r			
DATE   TIME   WATER   Scaled   TIME   WATER   REMARK   TIME   WATER   REMARK   Rainfall   Remark   7.5   7		East Cap Casing Top	42.69		East Cap Casing Top			East Cap Casing Top			
2003-04-07	OATE			I Sea level		WATER	REMARK		WATER	<b>IREMARK</b>	
2003-04-08			11.63.11613		1	***************************************					
2003-04-09 2003-04-10 2003-04-11 2003-04-12 2003-04-12 2003-04-13 2003-04-14 2003-04-14 2003-04-15 2003-04-15 2003-04-16 2003-04-16 2003-04-16 2003-04-17 2003-04-17 2003-04-17 2003-04-17 2003-04-17 2003-04-17 2003-04-19 2003-04-20 2003-04-21 2003-04-21 2003-04-22 2003-04-23 2003-04-23 2003-04-23 2003-04-23 2003-04-23 2003-04-24 2003-04-25 2003-04-25 2003-04-25 2003-04-25 2003-04-25 2003-04-26 2003-04-27 2003-04-28 2003-05-26 2003-05-25 2003-05-25 2003-05-26 2003-05-26 2003-05-26 2003-05-26 2003-05-30 2003-05-30 2003-05-31				T							0.5
2003-04-10   2003-04-11   2003-04-12   2003-04-13   2003-04-13   2003-04-15   2003-04-15   2003-04-15   2003-04-15   2003-04-15   2003-04-16   2003-04-17   16.5   2003-04-18   11.0   2003-04-19   2003-04-19   2003-04-19   2003-04-19   2003-04-12   20	2003-04-09			Ī							
2003-04-11	2002 04 10	- <del> </del>									
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2003-04-20   2003-04-22   2003-04-22   2003-04-22   2003-04-23   28.6   3.0   2003-04-24   2003-04-25   3.7.563											
2003-04-22   28.0   28.0   28.0   2003-04-23   28.0   3.0   2003-04-25   47.5   47.5   2003-04-25   47.5   47.5   2003-04-26   11:05   5.127   37.563   -2003-04-28   5.130   37.566   -2003-04-28   5.130   37.566   -2003-04-28   5.130   37.566   5.130   5.130   37.566   -2003-05-25   5.130   5.130   37.566   -2003-05-26   5.130   5	2003-04-20										
2003-04-23   2003-04-25   47.5   47.5   2003-04-25   47.5   2003-04-25   47.5   47.5   2003-04-26   11.05   5.127   37.563   -2003-04-27   8.30   5.130   37.560   -2003-04-28   -3.560   -3.5					<u> </u>					-	
2003.04-24   3.00   3.01   3.00   3				<u>-</u>							
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2003-04-28   -		11:05	5,137								
2003.04-29   -		8:30	5,130	37,560	<b></b>						
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2003-05-31   -		1		1						1	
Total   Tota				1						1	
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2003-06-20 12.63 5.695 5.77.195	2003-08-19	12.12	25.00	30 132	I			l			
A DET A CR. 3 (607 38 (988 )	AVERAGE	12:13	4,607	38.088	1						

Camp Carrell	Area 41	WATER	LEVEL
Canap Carron	AICA TI	7 7 7 % H X2X V	AURIC BURE

	r		Can	np Carroll	LOCATION	ALEKE	V E.L.			1
		103-470 (NO. 54	\	T	103-172 (NO. 66		·	M03-471 (NO. 53	}	
	North	3982893,30		North	3982909.10	·	North	3982945.90		
	East	446660.60		East	446653,90		East	446680,10		
	Сар	39.41		Cap	39.48		Сар	39.75		
	Casing Top	39,30		Casing Top	39.36		Casing Top	39.61		
	GL GL	39.40		GL	39,47		GĽ.	39.74		
DATE	TIME	WATER LEVEL(M)	Scalevel	TIME	WATER LEVEL(M)	Sea level	TIME	WATER LEVEL(M)	Sea level	Rainfall (mm)
2003-04-03	- 1	***************************************		T - 1			·			-
2003-04-07	1 .			1 <u>-</u> i						7,5
2003-04-08							*			6.5
2003-04-10	13:10	10.668	28,636				-			` `
2003-04-11	13:30	10,385	28.919				•			2.0
2002 04 14	10:10	10.330	28,974	10:05	10.458	28.902				
2003-04-14	15:18	10.358	28.946	15:24	10,468	28.960			ļ	
2003-04-15	7:36 ·	10,390	28.914	7:37	10.440	28.926	7:33	4.720	34,890	
2003-04-17	13:29	i0.403	28,961	13:27	10.435	28.925	13:24	-1,472	35.138	,
2003-04-18	9:00	10.375	28,929	10:09	16,420	28,940	10:58	4,460	35,150	16.5
2003-04-19	- 1			<u> </u>						11.0
2003-04-20	-								<b></b>	9,5
2003-04-23	9:24	10.385	28.919	9:29	10.430	28,930	9:20	4,370	35,240	28.0
2003-04-24	8:11	10,356	28,954	8:05	10.450	28,910	8:25	4,360	35.250	3,0
2003-04-25						<u> </u>			26.370	47.5
2003-04-28	9:35	10 130	29,174	9:40	10,760	29,100	9:30	4,240	35,378	18,5
2003-04-29	I			····						57.5
2003-05-25	ļi		ļ	<del>                                     </del>		<del> </del>	<u>·</u>			4,0
2003-05-26			ļ	<b> </b>				·		71,11
2003-05-27	<b> </b>					<b>i</b>				
2003-05-28				<b> </b>	·····					5.5
2003-05-29	li			<b></b>			<u>-</u>			111.5
2003-05-31	I			<b></b>		<b></b>	<u>.</u>			0.2
2003-05-31	-			<del>                                     </del>			-			
2003-06-02	<del>                                     </del>		<del> </del>	<b> </b>	,,	<del> </del>				
2003-06-03	9.25	9.578	29,726	13:20	9,670	29,690	14:00	4,170	35.490	
2003-06-04	1	7		12:27	9,766	79.668	-			2.270/100
2003-06-05				T - 1		1				
2003-08-18	1			T - 1			-			73.5
2003-08-19	<b>i</b> - 1		1	- 1		1	-			30.5
2003-08-20	10:40	7.943	31.361	10:45	X.212	31.148	10:35	3,723	35,887	5.0
AVERAGE		10,108	29.196		10.080	29.280		4,368	35,302	

Camp Carroll	Area 41	WATER	LEVEL
	LOCATI	ON	

		MWH					i			1
	North			North			North			ĺ
	East			East			East			İ
	Cap			Cap			Сар		1	İ
	Casing Top	35.50		Casing Top			Casing Top			ĺ
	GL GL	38.83		GL.			GL		1	
	GL	WATER	T	1	WATER	T		WATER		Rainfall
DATE	TIME	LEVEL(M)	Sea level	TIME	LEVEL(M)	REMARK	TIME	LEVEL(M)	REMARK	(mm)
2003-04-03	10:30	6.473	29.028						1	
2003-04-07	-								<b></b>	7,5
2003-04-08	-									6.5
2003-04-10	9:55	6,(46)	28.834						1 1	į .
2003-04-10										ļ
2003-04-11	13:15	6.450	29,050						ļ	2.0
200.1-04-11						ļ	ļ		ļ	İ
2003-04-14	10:15	6.509	28.991							<u>`</u>
20/3-04-14	15:30	6,475	29,025							
2003-04-15									·	
	-		ļ				<b></b>		<b> </b>	
2003-04-17	7:49	6.522	28.978						l i	16.5
2003-04-18	13:35	f1 530;	28.970							11.0
2003-04-19									ļ	9.5
2003-04-20	-					ļ		,	<b></b>	28.0
2003-04-23	9:38	6.370	39,130						<b></b>	3.0
2003-04-24	8:40	6.510	28,990						ļ	43.5
2003-04-25	,	cor-								41.3
2003-04-28	9:36	6,880	28,620						<b></b>	18.5
2003-04-29									<b>{</b>	57.5
2003-05-25	<u>.                                    </u>								<b> </b>	
2003-05-26				68868/N 4/2714/*****		ļ			<b>-</b>	4,0
2003-05-27									· •	~~~
2003-05-28	·								<b>}</b>	5.5
2003-05-29						ļ				111.5
2003-05-30						ļ				0.2
2003-05-31	<u> </u>					ļ	<b> </b>		1	****
2003-06-01			ļ			<del> </del>				
2003-06-02	,					ļ	<b> </b>			
2003-06-03	13:28	6.260	29.240						<b></b>	
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## Appendix F

Laboratory Results and COC Documentation

Laboratory Results

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Yellow - Returned with Report Pink - Retained by Sampler 0-720 White - Retained by Lab (Project File)

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Pink - Retained by Sampler 0-720 Yellow - Returned with Report White - Retained by Lab (Project File)

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 West Virginia New Orleans

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White - Retained by Lab (Project File) Yellow - Returned with Report Pink - Retained by Sampler 0-720

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White - Retained by Lab (Project File)

Yellow - Returned with Report

Pink - Retained by Sampler 0-720

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Pink - Retained by Sampler 0-720

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Pink - Retained by Sampler 0-720 Yellow - Refurned with Report White - Fetained by Lab (Project File)

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White - Retained by Lab (Project File)

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#### Appendix G

Data Validation Report



#### DATA ASSESSMENT FOR CAMP CARROLL AREA D AND AREA 41 SITE INVESTIGATIONS CAMP CARROLL, KOREA

DACA81-00-D-0049 Task Order #24

**Field Sampling:** 

April-June, 2003

**Data Review Dates:** 

July-August, 2003

Reviewer:

& Associates, L.L.C.

98-099 Uao Place #1101

Aiea, HI 96701

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[Data Assessment]

Myounghee Noh & Associates, L.L.C.

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#### 1. INTRODUCTION

This project involved an effort to determine the sources of hazardous and toxic waste contamination at Area 41 and Area D in Camp Carroll, Korea. The overall purpose of this data acquisition is to determine the extent and volumes of surface and subsurface soil contamination within the two former landfills. The sampling was designed to understand the following:

- · Sources of contamination and migration pathways
- Extent and amount of surface and subsurface soil contamination at Area 41 and Area D
- Extent of contaminated groundwater at Area D
- Remedial alternatives at Area 41 and Area D

This data assessment was performed on 15 primary sample delivery groups (SDGs) and seven (7) QA SDGs to evaluate data usability.

Table 1. Sample Delivery Groups Reviewed

Table I. Sample	Denvery Groups	Reviewea	
Laboratory	SDG No.	Laboratory	SDG No.
CT&E/SGS, Alaska	1031851	STL, Seattle	113100
	1031972	•	112983
	1032224		112915
	1032133		112974
	1032164		114073
	1032180		114050
	1033164		112899
	1033073		
	1033105		
	1033166		
	1033211		
	1033200		
	1033224		
	1033197		
	1033071		

#### 2. CONTRACT LABORATORIES

SGS Environmental Services, Inc. (a.k.a. CT&E), was the primary laboratory for the project and performed the following analyses:

• Total petroleum hydrocarbons as gasoline (TPH-G) by EPA method 8015B/8021B



Camp Carroll Area D & Area 41 Investigations DACA81-00-D-0049; TO #24

- TPH as diesel & oil (TPH-D&O) by EPA method 8015B
- Semivolatile organic compounds (SVOC) by EPA method 8270
- Pesticides by EPA method 8081A
- Polychlorinated biphenyls (PCBs) by EPA method 8082
- RCRA 8 metals by EPA method 6020 (As, Ba, Cd, Cr, Pb, Se, Ag) and 7470/E245.1 (Hg)
- Volatile organic compounds (VOC) by EPA method 8260B
- Herbicides by EPA method 8151A by Columbia Analytical Services, Redding, CA
- Malathion by EPA method 8141 by Columbia Analytical Services, Redding, CA
- Dioxins by EPA method 8290 by Paradigm Analytical Laboratories, Wilmington, NC

Severn Trent Laboratories (STL) Seattle was the QA laboratory for this project and performed the same analyses. Dioxin analysis was performed by STL Sacramento laboratory.

#### 3. DATA ASSESSMENT

The assessment included data check for technical holding times for extraction & analysis and laboratory quality control (QC) data: method blanks; laboratory control samples (LCS); matrix spike and matrix duplicate samples (MS/MSD); surrogate recoveries. Detailed check of instrument calibration and calculations was not performed.

#### 3.1 Initial Inspection of Data

A total of 17 SGS (primary & QC) and seven STL (QA) sample delivery groups contained 844 and 121 analyses, respectively (Table 2). The initial inspection of data included a review of analyses requested and technical holding times.

Two sample shipments (Ref. # 1032224 & 1032225) were delayed. The sample shipment (Ref. 1032224) arrived in the CT&E Alaska laboratory on day 13 after collection, and another sample shipment (Ref. 1032225) arrived past holding times for all analyses. TPH-G, VOC, and herbicide analyses were cancelled for the 1032224 samples, and all analyses were cancelled for the 1032225 samples. In addition, herbicide analysis for eight samples was not performed due to an oversight (samples not logged in) of Columbia Analytical Services, a subcontract laboratory of SGS (Table 3). The laboratory QC data provided for each analysis are summarized in Table 4.



Camp Carroll Area D & Area 41 Investigations DACA81-00-D-0049; TO #24

Table 2.	Total Number Analytes in Sample Delivery Groups
I anic L.	Total Number Analytes in Sample Denvery Groups

3

	***************************************									
TPH-G	TPH-D & O	SVOC	Pesticides	PCBs	Herbicides	RCRA 8 Metals	Dioxin	VOC	Malathion	Total analytes
25	24	24	24	24	24	24	8	6	0	183
12	12	12	12	12	12	12	3	7	0	94
23	21	20	21	20	21	20	5	12	0	163
3	3	3	3	3	3	3	3	3	0	27
0	3	3	3	3	0	3	2	0	0	17
2	2	2	2	2	2	2	2	2	0	18
1	1	1	1	1	1	1	1	1	0	9
2	2	2	2	2	2	2	2	1	0	17
0	0	0	0	0	0	0	0	12	20	32
0	0	0	0	0	0	0	0	0	16	16
3	2	2	2	2	2	2	0	3	19	37
3	3	3	3	3	3	3	2	3	3	29
3	3	3	3	3	3	3	2	3	3	29
1	1	1	į	1	1	1	0	1	1	9
8	5	5	5	5	8	5	3	3	15	62
8	8	8	8	8	0	8	1	7	18	74
3	3	3	3	3	3	3	1	3	3	28
97	93	92	93	92	85	92	35	67	98	844
5	5	5	5	5	5	5	2	5	0	42
3	2	2	2	2	2	2	0	0	()	15
4	3	3	3	3	3	3	1	3	0	26
2	2	2	2	2	2	2	1	2	0	17
0	0	0	0	0	0	0	0	0	5	5
2	1	I		1	1	1	1	2	5	16
2	2	2	2	2	2	2	i	Ü	Ü	15
16	13	13	13	13	13	13	5	12	10	121
	TPH-G  25 12 23 3 0 2 1 2 0 0 3 3 3 1 8 8 3 97 5 3 4 2 0 2 2	TPH-G TPH-D & O  25	TPH-G TPH-D & O SVOC           25         24         24         12         12         12         20         3         3         3         3         3         3         3         3         3         3         3         3         3         2         2         2         1         1         1         1         1         1         2         2         2         2         1         1         1         1         1         2         2         2         2         2         2         2         2         2         2         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         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[Data Assessment]

Myounghee Noh & Associates, L.L.C.

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